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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: November 17, 2019

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

Addenda

BSR/ASHRAE/ICC/USGBC/IES Addendum an to ANSI/ASHRAE/USGBC/IES Standard 189.1-201 x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

Addendum an to 189.1-2017 adds new lighting control requirements for dwelling units based on the demonstrated energy saving effects of dimmers and automatic shut-off controls.

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

Send comments (with optional copy to psa@ansi.org) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE/ICC/USGBC/IES Addendum ac to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This independent substantive change to Addendum ac adds exceptions to the demand response program requirements for buildings that employ thermal or electrical energy storage of a specified capacity.

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

Send comments (with optional copy to psa@ansi.org) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

Revision

BSR/ASHRAE Standard 84-202x, Method of Testing Air-to-Air Heat/Energy Exchangers (revision of ANSI/ASHRAE Standard 84-2013)

ASHRAE Standard 84 prescribes the laboratory methods for testing the performance of air-to-air heat and energy exchangers.

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

Send comments (with optional copy to psa@ansi.org) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 1389-202x, Standard for Safety for Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations (new standard)

Recirculation of the proposed first edition of the Standard for Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations, UL 1389.

[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 62841-3-1000-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-1000: Particular Requirements for Transportable Laser Engravers (new standard)

This proposal for UL 62841-3-1000 covers: (1) Proposed first edition of the Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-1000: Particular Requirements for Transportable Laser Engravers, UL 62841-3-1000.

[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 79-202x, Standard for Safety for Power-Operated Pumps for Petroleum Dispensing Products (revision of ANSI/UL 79-2016)
The following topic is being recirculated: (3) Revision to pipe thread requirements.

[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 96-201x, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2016)

(1) Additional stainless steel hardware; (2) Use of high-voltage insulated conductors and conductor sizing in lightning protection systems.

[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 498-202x, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2019)

This proposal for UL 498 covers: (1) Proposal to add requirements for attachment fitting and receptacle for luminaire and/or ceiling fan load ratings.

[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 1026-202x, Standard for Safety for Household Electric Cooking and Food Serving Appliances (proposal dated 10/18/19) (revision of ANSI/UL 1026-201X)

(1) Revisions to address touch control.

[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 62841-2-11-202x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 2-11: Particular Requirements for Hand-Held Reciprocating Saws (revision of ANSI/UL 62841-2-11-202x)

This proposal for UL 62841-2-11 covers: (1) Proposed revisions to clauses 19, 20, and 21 to align with changes in IEC Corrigendum 1 of IEC 62841-2-11.

[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: December 2, 2019

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/AAFS ASB Std 110-201x, Standard for Training in Forensic Serological Methods (new standard)

This standard provides the general requirements for a forensic serology training program to evaluate body fluids, stains, or residues related to forensic investigations. This standard does not address training in forensic DNA analysis procedures.

Single copy price: Free

Obtain an electronic copy from: ASB website: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>

Order from: Document will be provided electronically and free of charge on AAFS Standards Board website www.asbstandardsboard.org.

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

BSR/AAFS ASB Std 111-201x, Standard for Training in Mitochondrial DNA (mtDNA) Analysis for Taxonomic Identification (new standard)

This standard provides requirements to ensure proper training in animal taxonomic identification based on mitochondrial DNA (mtDNA) sequencing, data analysis, and reporting within the trainee's forensic DNA laboratory.

Single copy price: Free

Obtain an electronic copy from: 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@aaafs.org. Document and comments template can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination//>

AAMI (Association for the Advancement of Medical Instrumentation)

Addenda

BSR/AAMI ST79-2017/A.1-201x, Comprehensive guide to steam sterilization and sterility assurance in health care facilities - Amendment 1 (addenda to ANSI/AAMI ST79-2017/A.1-201x)

Provides content addressing housekeeping issues, use of fans, and the presence of food and drink in sterile processing areas in health care facilities.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

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

BSR/AAMI ST79-2017/A.2-201x, Comprehensive guide to steam sterilization and sterility assurance in health care facilities - Amendment 2 (addenda to ANSI/AAMI ST79-2017/A.2-201x)

Provides content addressing inspection of insulated instruments in sterile processing in health care facilities.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

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

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 10993-1-201x, Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process (identical national adoption of ISO 10993-1:2018)

Specifies:

- the general principles governing the biological evaluation of medical devices within a risk management process;
- the general categorization of medical devices based on the nature and duration of their contact with the body;
- the evaluation of existing relevant data from all sources;
- the identification of gaps in the available data set on the basis of a risk analysis;
- the identification of additional data sets necessary to analyze the biological safety of the medical device; and
- the assessment of the biological safety of the medical device.

Single copy price: Free

Obtain an electronic copy from: celliot@aami.org

Order from: Colleen Elliott, (703) 253-8261, celliot@aami.org

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

BSR/AAMI/ISO 10993-4-202x, Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood (identical national adoption of ISO 10993-4:2017)

Specifies general requirements for evaluating the interactions of medical devices with blood. This document describes:

- (a) a classification of medical devices that are intended for use in contact with blood, based on the intended use and duration of contact as defined in ISO 10993-1;
- (b) the fundamental principles governing the evaluation of the interaction of devices with blood; and
- (c) the rationale for structured selection of tests according to specific categories, together with the principles and scientific basis of these tests.

Single copy price: Free

Obtain an electronic copy from: celliot@aami.org

Order from: Colleen Elliott, (703) 253-8261, celliot@aami.org

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

BSR/AAMI/ISO 10993-11-202x, Biological evaluation of medical devices - Part 11: Tests for systemic toxicity (identical national adoption of ISO 10993-11:2017)

Specifies requirements and gives guidance on procedures to be followed in the evaluation of the potential for medical device materials to cause adverse systemic reactions.

Single copy price: Free

Obtain an electronic copy from: celliot@aami.org

Order from: Colleen Elliott, (703) 253-8261, celliot@aami.org

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

BSR/AAMI/ISO 10993-16-202x, Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables (identical national adoption of ISO 10993-16:2017)

Provides principles on designing and performing toxicokinetic studies relevant to medical devices. Annex A describes the considerations for inclusion of toxicokinetic studies in the biological evaluation of medical devices.

Single copy price: Free

Obtain an electronic copy from: celliot@aami.org

Order from: Colleen Elliott, (703) 253-8261, celliot@aami.org

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

AAMI (Association for the Advancement of Medical Instrumentation)

Revision

BSR/AAMI ST91-201x, Flexible and semi-rigid endoscope processing in health care facilities (revision of ANSI/AAMI ST91-2015)

This standard provides guidelines for precleaning, leak-testing, cleaning, packaging (where indicated), storage, high level disinfecting, and/or sterilizing of flexible gastrointestinal (GI) endoscopes; flexible bronchoscopes; flexible ear, nose, and throat endoscopes; surgical flexible endoscopes (e.g., flexible ureteroscopes); and semi-rigid operative endoscopes (e.g., choledochoscopes) in health care facilities. These guidelines are intended to provide comprehensive information and direction for health care personnel in the processing of these devices and accessories.

Single copy price: Free

Obtain an electronic copy from: abenedict@aami.org

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

ABYC (American Boat and Yacht Council)

Revision

BSR/ABYC H-22-202x, Electric Bilge Pump Systems (revision of ANSI/ABYC H-22-2011)

This standard applies to the design, construction, installation, operation, and control of electric bilge pump systems on boats equipped with electric bilge pump systems intended for control of spray, rain water, and normal accumulation of water due to seepage and spillage.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Order from: www.abycinc.org

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

AGA (ASC Z223) (American Gas Association)

Revision

BSR Z223.1/NFPA 54-202x, National Fuel Gas Code (revision of ANSI Z223.1/NFPA 54-2018)

The National Fuel Gas Code provides installation requirements for gas piping, appliances, equipment and venting systems, downstream from the gas utility's gas meter or LP second-stage regulator.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/nfgc

Order from: lescobar@aga.org

Send comments (with optional copy to psa@ansi.org) to: Luis Escobar, lescobar@aga.org

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2018 TR 2017-04-202x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI/GPTC Z380.1-2018)

Add a statement in the Introductory Material (possibly Preface) to explain the GPTC handling of Advisory Bulletins.

Single copy price: Free

Obtain an electronic copy from: <https://www.aga.org/events-community/committees/ansi-asc-gptc-z380---gas-piping-technology/>

Order from: Betsy Tansey, (202) 824-7339, btansey@aga.org

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

AIAA (American Institute of Aeronautics and Astronautics)

Revision

BSR/AIAA S-102-2.4A-202x, Capability-Based Product Failure Mode, Effects and Criticality Analysis (FMECA) Requirements (revision and redesignation of ANSI/AIAA S-102.2.4-2015)

This Standard provides the basis for developing the analysis of failure modes, their effects, and criticality in the context of individual products along with the known performance of their elements. The requirements for contractors, the planning and reporting needs, along with the analytical tools are established. The linkage of this Standard to the other standards in the new family of capability-based safety, reliability, and quality assurance.

Single copy price: \$62.95

Obtain an electronic copy from: hillaryw@aiaa.org

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

ANS (American Nuclear Society)

New Standard

BSR/ANS 2.8-202x, Probabilistic Evaluation of External Flood Hazards for Nuclear Facilities (new standard)

This standard addresses necessary external flood conditions, technical parameters, and applicable methodologies required to evaluate/determine external flooding hazards for nuclear facilities.

Single copy price: \$25.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

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

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

New Standard

BSR/APCO 3.110.1-201x, Cyber Security Training for Public Safety Communications Personnel (new standard)

This standard will provide guidance and direction in developing cyber security training programs that will help deal with emerging threats to the public safety communications sector. Training of telecommunicators, supervisors, network administrators, and multiple levels of management is critical to recognizing and mitigating numerous threats which include, but are not limited to viruses, trojans, denial-of-service attacks, and other intrusions by malicious actors. These attacks can result in data loss and system downtime. In order to maintain effective operation and delivery of public safety services this standard will address multiple levels, and types, of personnel training as it relates to an overall cyber security strategy for the emergency communications sector.

Single copy price: Free

Obtain an electronic copy from: apcostandards@apcointl.org

Order from: standards@apcointl.org

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

ASABE (American Society of Agricultural and Biological Engineers)

New Standard

BSR/ASABE S633 MONYEAR-202x, Testing Protocol for Landscape Irrigation Soil Moisture-Based Control Technologies (new standard)

This standard defines a procedure to test a soil moisture sensor and interface device's response to changes in soil moisture conditions in a media that simulates soil. The test procedure covers soil water content (volumetric) and soil water tension (matric potential) sensors. The standard provides a method, using two different media, two water salinities, and three different water depletion levels, to determine if the sensor and associated interface device will enable/disable an irrigation event at preset or selected soil water values.

Single copy price: \$65.00 (non-members), \$44.00 (ASABE 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

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

Revision

BSR/ASHRAE Standard 105-202x, Standard Methods for Determining, Expressing, and Comparing Building Energy Performance and Greenhouse Gas Emissions (revision of ANSI/ASHRAE Standard 105-2014)

This revision of Standard 105 provides consistent methods for determining, expressing, and comparing the energy performance of and the greenhouse gas emissions associated with the design of new buildings and improvements to, or changes in, the operation of existing buildings.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with optional copy to psa@ansi.org) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Standard 146-202x, Method of Test for Rating Pool Heaters (revision of ANSI/ASHRAE Standard 146-2011)

This revision of ANSI/ASHRAE Standard 146 provides methods of testing for rating pool heaters, heating capacity, and energy efficiency.

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

Order from: standards.section@ashrae.org

Send comments (with optional copy to psa@ansi.org) to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

AWS (American Welding Society)***New National Adoption***

BSR/AWS A4.5M/A4.5-201x (ISO 15792-3-201x), Standard Methods for Classification Testing of Positional Capacity and Root Penetration of Welding Consumables in a Fillet Weld (national adoption of ISO 15792-3:2011 with modifications and revision of ANSI/AWS A4.5M/A4.5:2012 (ISO 15792-3:2011))

This standard describes preparation and assessment of a fillet weld piece. Test conditions prescribed and results required should not be considered to be requirements or expectations for a procedure qualification. This specification makes use of both U. S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

Single copy price: \$36.00

Obtain an electronic copy from: gupta@aws.org

Order from: Rakesh Gupta, (305) 443-9353, gupta@aws.org

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

AWS (American Welding Society)***New Standard***

BSR/AWS D16.2M/D16.2-202x, Guide for Components of Robotic and Automatic Arc Welding Installations (new standard)

This document applies to the recommended design, integration, installation, and use of industrial welding robotic and automatic systems. This document is intended for the gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), plasma arc welding (PAW), and flux-cored arc welding (FCAW) processes. Pertinent parts may address additional welding processes. Robotic and automatic arc welding systems consist of a manipulator, power source, arc welding torch and accessories, electrode feed system, wire delivery system, shielding gas delivery system, welding circuit, shielding and communication control, and grounding system. There may be other accessories that are outside the scope of this document, such as safety devices and monitoring, joint-tracking, and vision systems. A typical system is illustrated in Figure 1.

Single copy price: \$68.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

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

BICSI (Building Industry Consulting Service International)***New Standard***

BSR/BICSI N3-202x, Planning and Installation Methods for the Bonding and Grounding of Telecommunication and ICT Systems and Infrastructure (new standard)

This standard specifies aspects of planning and installation of bonding and grounding systems for telecommunications and ICT systems and infrastructure within a customer premises. Proper planning and installation provide for effective and optimal system performance of the bonding and grounding system, allowing the system to meet its objective in preventing damage to people or assets.

Single copy price: Free

Obtain an electronic copy from: jsilveira@bicsi.org

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

CSA (CSA America Standards Inc.)***Reaffirmation***

BSR/CSA HGV 4.1-2013 (R201x), Standard for Hydrogen Dispensing Systems (reaffirmation of ANSI/CSA HGV 4.1-2013)

This standard applies to: (a) The mechanical and electrical features of newly manufactured systems that dispense compressed hydrogen gas for vehicles (HGV) where such systems are intended primarily to dispense the fuel directly into the fuel storage container of the vehicle; (b) HGV dispensers that integrate in a single unit multiple dispensing functions (e.g., fuel metering, registering, control and management devices, vehicle fuel cylinder overfill and over pressure protection with listed hoses with nozzles); and (c) The following service pressures are applicable, 25MPa, 35MPa, 50MPa, 70MPa.

Single copy price: Free

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

Order from: David Zimmerman, (216) 524-4990, david.zimmerman@csagroup.org

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

ECIA (Electronic Components Industry Association)

Revision

BSR/EIA 747-C-202x, Adhesive backed punched plastic carrier taping of singulated bare die and other surface mount components for automatic handling of devices generally less than 1.0 mm thick (revision and redesignation of ANSI/EIA-747-B-2014)

Covers requirements of 8mm, 12mm, 16mm, and 24mm taping of surface mount components generally less than 1.0mm thick and requiring high-precision taping for automatic handling of devices such as singulated bare die.

Single copy price: \$82.00

Obtain an electronic copy from: www.global.ihs.com

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com

Send comments (with optional copy to psa@ansi.org) to: Ed Mikoski; emikoski@ecianow.org

HL7 (Health Level Seven)

Revision

BSR/HL7 V2.9-202x, Health Level Standard Standard Version 2.9 - An Application Protocol for Electronic Data Exchange in Healthcare Environments (revision and redesignation of ANSI/HL7 V2.9-202x)

This project contains various updates that reflect proposals submitted by the membership and which were ruled by the work group to be within scope and possible to be included within the ballot time frame. Specific changes were too numerous to list here but were included in the ballot announcement.

Single copy price: Free to members; free to non-members 90 days following ANSI approval and publication by HL7

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: Same

IES (Illuminating Engineering Society)

New Standard

BSR/IES TM-25-201x, Ray File Format for the Description of the Emission Property of Light Sources (new standard)

In the past few decades, the optical design of illumination systems (non-imaging optics) has benefited greatly from the advances in computer hardware and software. Many commercially available ray-tracing optical design and simulation software programs have been developed to support a wide variety of optical design tasks. All of these software packages can use ray files as source models. Ray files are typically generated by light source manufacturers using either an optical simulation or physical measurements using near-field goniometers. These ray files are then put in a specific format for each optical design program, which allows optical engineers to integrate the light source characteristics into their optical system design simulations. Ray files describe light sources by a large number of rays with individual start location, direction, flux, and optional spectral and/or polarization data.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Order from: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

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

NEMA (ASC C18) (National Electrical Manufacturers Association)

Revision

BSR C18.2M, Part 1-202x, Standard for Portable Nickel Rechargeable Cells and Batteries - General and Specifications (revision of ANSI C18.2M, Part 1-2013)

This publication applies to portable rechargeable, or secondary, cells and batteries based on the following electrochemical systems: (a) Nickel-cadmium, (b) Nickel-metal hydride, and (c) Nickel-zinc.

Single copy price: \$TBD

Obtain an electronic copy from: khaled.masri@nema.org

Order from: <http://www.nema.org/Standards/About-Standards/Pages/How-to-Purchase-a-NEMA-Standard.aspx>

Send comments (with optional copy to psa@ansi.org) to: khaled.masri@nema.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 325-201x, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (new standard)

This proposal for UL 325 covers: (1) Clarification of Section 34, (2) Additional warning placards for horizontally moving commercial door operators, (3) Tubular drive markings - Requirement for location of markings, and (4) Proposed change to 60.8.4(b) regarding pedestrian access.

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 1004-10-202x, Standard for Safety for Pool Pump Motors (proposal dated 10-18-19) (new standard)

The first edition of UL 1004-10 is proposed which covers dedicated-purpose pool pump (DPPP) motors that are intended for use as new and replacement motors for dedicated-purpose pool pumps as defined by 10 CFR, Part 431.462, Subpart Y, Pumps. The motors covered by this Standard have a DPPP motor total horsepower (THP) less than or equal to 5 THP.

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 1004-2-2015 (R202x), Standard for Safety for Impedance Protected Motors (reaffirmation of ANSI/UL 1004-2-2015)

Reaffirmation of UL 1004-2, which covers motors that rely solely upon the impedance of the motor windings to prevent overheating.

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 9540-202x, Standard for Safety for Energy Storage Systems and Equipment (revision of ANSI/UL 9540-2016)

This proposal for UL 9540 covers: (1) The proposed second edition of ANSI/CAN/UL 9540 with the following changes: (a) Addition of UL 1973 to Appendix A, Component List; (b) Addition of ISO Functional safety standards; (c) Revision of grounding and bonding system construction; (d) Revision of the strength of enclosure walls and supports requirements; (e) References to required signage and instructions; (f) Deletion of non-mandatory language throughout standard; (g) Revision of scope language for clarity; (h) Revisions to the Fire Detection and Suppression section; (i) Proposed addition of new 32.4.6; (j) Revision to Mechanical Tests for clarification; (k) Clarification of 1.2; (l) Revision of 6.4, Harmonization with Other Existing Standards; (m) Enclosure materials for outdoor installations; (n) Short circuit exposure evaluation; (o) Clarification of scope; (p) Clarifications of Component and Normative Reference section; (q) Clarification of corrosion requirements for enclosures; (r) Revisions to make the use of term "energy storage system" consistent throughout entire standard; (s) Clarification of instructions for worker safety; (t) Revisions to clarify intent and application of 11.1 and 12.2; (u) Clarifications of system requirements for where the system is installed; (v) Clarification of the intended environment; (w) Clarification of bonding and grounding requirements; (x) Clarifications of 17.1 and 18.1, (y) Clarification of 21.1; (z) Clarification of 32.2.2; (aa) Clarification of 40.4 and 40.5; (ab) Clarification of 11.2; (ac) Addition of requirements for Residential ESS; (ad) Addition of production checks on electronic controls; (ae) Addition of requirements for quality control of production; (af) Additional testing options; (ag) Addition of a wall mount fixture test for wall mounted ESS; (ah) Addition of Normative Appendix D for alternative lead acid or ni-cad battery system evaluation; (ai) Revision of 12.3 to add short circuit protection; (aj) Addition of Informative Appendix E for Guidance on Capacity and Separation Distance Limits for ESS; (ak) Addition of EMC testing; (al) Revision of utility grid interaction reaction requirements; (am) Clarification of the scope; (an) Clarification of Vapor Concentration requirements; (ao) Addition of emergency contact marking; (ap) Clarification of flame test surface area; (aq) Addition of 8.2 and Appendix F; and (2) Revisions for electrochemical ESS above 20 kWh.

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>

Comment Deadline: December 17, 2019

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

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

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1 2017)

This safety standard covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of inclined stairway chairlifts and inclined and vertical platform lifts intended for transportation of a mobility-impaired person only.

Single copy price: Free

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

Order from: Terrell Henry, ASME; ansibox@asme.org

Send comments (with optional copy to psa@ansi.org) to: Elijah Dominguez, (212) 591-8521, domingueze@asme.org

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 199-202x, Standard for Automatic Sprinklers for Fire-Protection Service (revision of ANSI/UL 199-2013 (R2017))

UL proposes a new edition of UL 199.

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>

Project Withdrawn

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

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

BSR/ASHRAE Standard 41.12P-202x, Standard Methods for Uncertainty Analysis (new standard)

This standard applies to direct and derived measurements from instruments and to assigned values, where used to determine test results.

Inquiries may be directed to Tanisha Meyers-Lisle, (678) 539-1111, tmlisle@ashrae.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.

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 901 N. Glebe Road, Suite 300
Arlington, VA 22203

Contact: Amanda Benedict

Phone: (703) 253-8284

E-mail: abenedict@aami.org

BSR/AAMI ST79-2017/A.1-201x, Comprehensive guide to steam sterilization and sterility assurance in health care facilities - Amendment 1 (addenda to ANSI/AAMI ST79-2017/A.1-201x)

BSR/AAMI ST79-2017/A.2-201x, Comprehensive guide to steam sterilization and sterility assurance in health care facilities - Amendment 2 (addenda to ANSI/AAMI ST79-2017/A.2-201x)

BSR/AAMI ST91-201x, Flexible and semi-rigid endoscope processing in health care facilities (revision of ANSI/AAMI ST91-2015)

BSR/AAMI/ISO 10993-1-201x, Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process (identical national adoption of ISO 10993-1:2018)

BSR/AAMI/ISO 10993-4-202x, Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood (identical national adoption of ISO 10993-4:2017)

BSR/AAMI/ISO 10993-11-202x, Biological evaluation of medical devices - Part 11: Tests for systemic toxicity (identical national adoption of ISO 10993-11:2017)

BSR/AAMI/ISO 10993-16-202x, Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables (identical national adoption of ISO 10993-16:2017)

ASA (ASC S12) (Acoustical Society of America)

Office: 1305 Walt Whitman Road
Suite 300
Melville, NY 11747

Contact: Nancy Blair-DeLeon

Phone: (631) 390-0215

E-mail: asastds@acousticalsociety.org

BSR/ASA S12.61-202x, Declaration and verification of noise emission values of machinery, equipment, and products (new standard)

AWS (American Welding Society)

Office: 8669 NW 36th Street
Suite #130
Miami, FL 33166-6672

Contact: Jennifer Rosario

Phone: (800) 443-9353

E-mail: jrosario@aws.org

BSR/AWS D16.2M/D16.2-202x, Guide for Components of Robotic and Automatic Arc Welding Installations (new standard)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: Veronica Lancaster

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

BSR/CTA 2088.1-201x, Baseline Cybersecurity for Small Unmanned Aerial Systems (new standard)

ECIA (Electronic Components Industry Association)

Office: 13873 Park Center Road
Suite 315
Herndon, VA 20171

Contact: Laura Donohoe

Phone: (571) 323-0294

E-mail: ldonohoe@ecianow.org

BSR/EIA 747-C-202x, Adhesive backed punched plastic carrier taping of singulated bare die and other surface mount components for automatic handling of devices generally less than 1.0 mm thick (revision and redesignation of ANSI/EIA-747-B-2014)

IES (Illuminating Engineering Society)

Office: 120 Wall Street, Floor 17
New York, NY 10005

Contact: Patricia McGillicuddy

Phone: (917) 913-0027

E-mail: pmcgillicuddy@ies.org

BSR/IES TM-25-201x, Ray File Format for the Description of the Emission Property of Light Sources (new standard)

NEMA (ASC C18) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Rosslyn, VA 22209

Contact: Khaled Masri

Phone: (703) 841-3278

E-mail: Khaled.Masri@nema.org

BSR C18.2M, Part 1-202x, Standard for Portable Nickel Rechargeable
Cells and Batteries - General and Specifications (revision of ANSI
C18.2M, Part 1-2013)

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 14117-2019, Active implantable medical devices - Electromagnetic compatibility - EMC test protocols for implantable cardiac pacemakers, implantable cardioverter defibrillators, and cardiac resynchronization devices (identical national adoption of ISO 14117 (under development) and revision of BSR/AAMI/ISO CDV-2 14117-201x): 10/7/2019

ANS (American Nuclear Society)

New Standard

ANSI/ANS 3.5-2018, Nuclear Power Plant Simulators for Use in Operator Training and Examination (new standard): 10/10/2019

ASABE (American Society of Agricultural and Biological Engineers)

Revision

ANSI/ASAE S279.18 MONYEAR-2019, Lighting and Marking of Agricultural Equipment on Highways (revision and redesignation of ANSI/ASAE S279.17-2013 (R2017)): 10/14/2019

ASME (American Society of Mechanical Engineers)

New National Adoption

ANSI/ISO/ASME 14414-2019, Pumping System Energy Assessment (identical national adoption of ISO/ASME 14414-2015 and revision of ANSI/ISO/ASME 14414-2015): 10/7/2019

Revision

ANSI/ASME A17.1/CSA B44-2019, Safety Code for Elevators and Escalators (revision of ANSI/ASME A17.1/CSA B44-2016): 10/8/2019

AWS (American Welding Society)

Addenda

ANSI/AWS C3.6M/C3.6-2019, Specification for Furnace Brazing (addenda to ANSI/AWS C3.6M/C3.6-2016): 10/10/2019

B11 (B11 Standards, Inc.)

Revision

ANSI/B11.19-2019, Performance Requirements for Risk Reduction Measures: Safeguarding and Other Means of Reducing Risk (revision of ANSI B11.19-2010): 10/11/2019

CSA (CSA America Standards Inc.)

Revision

ANSI Z21.19-2019, Refrigerators using gas fuel (same as CSA 1.4) (revision of ANSI Z21.19-2014): 10/4/2019

ANSI Z21.96-2019, Portable water heaters for outdoor use (same as CSA 11.6) (revision of ANSI Z21.96-2014): 10/11/2019

ANSI/CSA B149.6-2019, Code for digester gas, landfill gas, and biogas generation and utilization (revision and redesignation of ANSI B149.6-2015): 10/15/2019

ESTA (Entertainment Services and Technology Association)

Revision

ANSI/E1.6-3-2019, Selection and Use of Serially Manufactured Chain Hoists in the Entertainment Industry (revision of ANSI/E1.6-3-2012): 10/14/2019

ICC (International Code Council)

New Standard

ANSI/ICC 1100-2019, Standard for Spray-Applied Polyurethane Foam Plastic Insulation (new standard): 10/10/2019

ISEA (International Safety Equipment Association)

Reaffirmation

ANSI/ISEA 101-2014 (R2019), Limited-Use and Disposable Coveralls - Size and Labeling Requirements (reaffirmation of ANSI/ISEA 101-2014): 10/7/2019

NSF (NSF International)

Revision

ANSI/NSF 7-2019 (i20r3), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2016): 10/9/2019

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 15-2019, Specification for Trunk, Feeder and Distribution Coaxial Cable (revision of ANSI/SCTE 15-2016): 10/7/2019

UL (Underwriters Laboratories, Inc.)

Revision

ANSI/UL 6-2019, Standard for Electrical Rigid Metal Conduit - Steel (revision of ANSI/UL 6-2014): 9/27/2019

ANSI/UL 6A-2019, Standard for Electrical Rigid Metal Conduit - Aluminum, Red Brass, and Steel (revision of ANSI/UL 6A-2014): 9/27/2019

ANSI/UL 67-2019b, Standard for Safety for Panelboards (revision of ANSI/UL 67-2019): 10/11/2019

ANSI/UL 486C-2019, Standard for Safety for Splicing Wire Connectors (revision of ANSI/UL 486C-2018): 10/4/2019

ANSI/UL 498-2019b, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2018): 10/8/2019

ANSI/UL 676-2019, Standard for Safety for Underwater Luminaires and Submersible Junction Boxes (revision of ANSI/UL 676-2018): 10/14/2019

ANSI/UL 8750-2019b, Standard for Safety for Light Emitting Diode (LED) Equipment for Use In Lighting Products (proposal dated 7-26-19) (revision of BSR/UL 8750-201X): 10/11/2019

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.

AAFS (American Academy of Forensic Sciences)

Contact: Teresa Ambrosius, (719) 453-1036, tambrosius@aafs.org
410 North 21st Street, Colorado Springs, CO 80904

New Standard

BSR/AAFS ASB Std 136-201x, Forensic Laboratory Standards for Prevention, Monitoring, and Mitigation of DNA Contamination (new standard)

Stakeholders: Forensic DNA analysis practitioners. Criminal justice system will be the end users.

Project Need: This document identifies the requirements that a laboratory conducting STR analysis by capillary electrophoresis shall follow to limit, detect, and mitigate contamination events as it pertains to forensic DNA analysis.

This standard provides requirements for limiting, detecting, assessing the source of, and mitigating DNA contamination as applied to PCR-based DNA analysis conducted within a forensic laboratory (i.e., casework and DNA Database).

ANS (American Nuclear Society)

Contact: Kathryn Murdoch, (708) 579-8268, kmurdoch@ans.org
555 North Kensington Avenue, La Grange Park, IL 60526

Revision

BSR/ANS 2.26-202x, Categorization of Nuclear Facility Structures, Systems, and Components for Seismic Design (revision of ANSI/ANS 2.26-2004 (R2017))

Stakeholders: National and international owners of nuclear facilities including high-risk and critical facilities, regulators, government organizations and their contractors, designers and support analysis subcontractors.

Project Need: Revision is needed to ensure consistency with revisions to the interfacing standards referenced in Appendices A - C and to ensure the standard reflects current concepts and methodologies, and lessons learned over the past 15 years (i.e., to ensure that the standard is current with evolving standard of practice regarding toxicological consequences with a nuclear nexus). The scope of ANS 2.26 overlaps with a portion of ANS 58.16, with revision of ANS 2.26 allowing removal of the overlap from ANS 58.16. In addition, the standard should encompass the complete spectrum of nuclear facilities including commercial nuclear reactors which were not considered in ANS 2.26-2004. This standard should be revised to extend its scope to domestic nuclear facilities.

This standard provides (a) criteria for selecting the seismic design category 1 (SDC) for nuclear facility structures, systems, and components (SSCs) to achieve seismic safety and (b) criteria and guidelines for selecting Limit States for these SSCs to govern their seismic design. The Limit States are selected to ensure the desired safety performance in an earthquake. The criteria will be developed following the risk-informed and performance-based principles.

ASA (ASC S12) (Acoustical Society of America)

Contact: Nancy Blair-DeLeon, (631) 390-0215, asastds@acousticalsociety.org
1305 Walt Whitman Road, Suite 300, Melville, NY 11747

New Standard

BSR/ASA S12.61-202x, Declaration and verification of noise emission values of machinery, equipment, and products (new standard)

Stakeholders: Consumers, manufacturers, regulators, and all agencies and institutions that are potential purchasers of noisy products.

Project Need: ANSI has never implemented the intended "practical" derivative standard of ANSI S12.3, which was published in 1985. The latter lays out a framework with rather complicated statistics for declaring noise emission values but is not very useful in and of itself. There is a need to specify certain parameters (left general in S12.3) and to simplify certain procedures in order to have a uniform procedure available to the general public. The need for a practical derivative standard was anticipated from the start (with the publication of S12.3), but previous attempts at drafting a satisfactory version have failed. Over the years, experience and expertise has grown within ASA S12 to now be able to complete this task successfully.

The standard specifies (i) the noise emission values to be declared and the requirements for their presentation, (ii) product information that should accompany the declared noise emission values, (iii) the method for determining the mean A-weighted sound power level for a batch, (iv) the method for optionally determining the mean A-weighted emission sound pressure level, (v) the method for determining the total standard deviation for the batch, and (vi) the method for verifying the noise emission values that are declared.

CTA (Consumer Technology Association)

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

New Standard

BSR/CTA 2088.1-201x, Baseline Cybersecurity for Small Unmanned Aerial Systems (new standard)

Stakeholders: Consumers, manufacturers and retailers.

Project Need: To define the baseline cybersecurity requirements and recommendations relevant to the unique capabilities and applications of small drones.

This standard will build upon the baseline cybersecurity requirements in CTA-2088 to address the cybersecurity requirements and recommendations relevant to the unique capabilities, uses, and applications of small UAS.

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

Contact: Conrad Jahrling, (708) 995-3017, conrad.jahrling@asse-plumbing.org
18927 Hickory Creek Dr Suite 220, Mokena, IL 60448

Reaffirmation

BSR/ASSE 1044-2015 (R202x), Performance Requirements for Trap Seal Primer - Drainage Types and Electronic Design Types (reaffirmation of ANSI/ASSE 1044-2015)

Stakeholders: Plumbing design engineers, plumbing manufacturers, plumbing inspectors, and authorities having jurisdiction.

Project Need: Reaffirm the existing standard.

Trap seal primers are primarily designed to supply water to floor drain traps that have infrequent use and in which water evaporation would allow sewer gas to enter the premises. The trap seal primers covered by this standard are designed to supply water to a drain trap to provide and maintain its water seal by using a supply from a fixture drainline, ballcock, flushometer valve tailpiece, or an electric trap seal primer. The rate of water flow to the trap shall be fixed or adjustable.

BSR/ASSE 1081-2014 (R202x), Performance Requirements for Backflow Preventers with Integral Pressure Reducing Boiler Feed Valve and Intermediate Atmospheric Vent Style for Domestic and Light Commercial Water Distribution Systems (reaffirmation of ANSI/ASSE 1081-2014)

Stakeholders: Plumbing design engineers, homeowners, plumbing manufacturers, plumbing inspectors, and authorities having jurisdiction.

Project Need: Reaffirm the standard.

Pressure-reducing boiler-feed valves with backflow preventers having an intermediate atmospheric vent are installed in plumbing systems to fill and reduce static boiler pressure under normal conditions, as well as to prevent backflow into potable water supply lines within a premises when pressure is temporarily higher in the closed boiler loop than in the potable water piping. Since the valves are boiler feed valves, they are not installed directly into the potable water pipeline and are not intended for use as potable water products. The devices covered by this standard are multi-functional products, combined integrally in a single housing or manifold to provide the required features in a compact format that is serviceable and easily installed. These devices are intended to provide the same benefits and features as the products individually manufactured and qualified under ASSE 1003-2009, Performance Requirements for Water Pressure Reducing Valves for Domestic Water Distribution Systems, and ASSE 1012-2009, Performance Requirements for Backflow Preventer with an Intermediate Atmospheric Vent, except where specific limitations have been applied to suit residential and light commercial boiler feed and applications.

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

Contact: *Marianne Waickman, (708) 995-3015, marianne.waickman@asse-plumbing.org
18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448*

Revision

BSR/ASSE Series 6000-201x, Professional Qualifications Standard for Medical Gas Systems Personnel (revision of ANSI/ASSE Series 6000-2018)

Stakeholders: Medical gas systems designers, engineers, inspectors, verifiers, installers, and maintenance workers as well as contractors, medical professionals, and the general public.

Project Need: With the revision of ANSI/NFPA 99-2021, Health Care Facilities Code, nearly complete, we need to update the Series 6000 with the changes. There is also a need to establish uniform minimum qualification requirements for Medical Gas Systems designers and engineers.

This standard establishes uniform minimum requirements for qualified Medical Gas Systems Installers, Bulk Medical Gas/Cryogenic Fluid Central Supply Systems Installers, Medical Gas Systems Inspectors, Medical Gas Systems Verifiers, Bulk Medical Gas/Cryogenic Fluid Central Supply Systems Verifiers, Medical Gas Systems Maintenance Personnel, Medical Gas Systems Instructors, Bulk Medical Gas/Cryogenic Fluid Central Supply Systems Instructors, and (new to this revision) Medical Gas Systems Designers/Engineers.

NFPA (National Fire Protection Association)

Contact: *Dawn Michele Bellis, (617) 984-7246, dbellis@nfpa.org
One Batterymarch Park, Quincy, MA 02169*

New Standard

BSR/NFPA 1987-201x, Standard on Combination Unit Respirator Systems for Tactical and Technical Operations (new standard)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authority, insurance, consumer, special experts, and research and testing.

Project Need: Public interest and need.

This standard shall specify the minimum requirements for the design, performance, testing, and certification of combination unit respirator (CUR) systems consisting of, but not limited to, two or more of the following respiratory protective components: open-circuit SCBA, PAPR, APR, closed-circuit SCBA, and SAR.

Revision

BSR/NFPA 1142-202x, Standard on Water Supplies for Suburban and Rural Fire Fighting (revision of ANSI/NFPA 1142-2017)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authority, insurance, consumer, special experts, and research and testing.

Project Need: Public interest and need.

This standard identifies a method of determining the minimum requirements for alternative water supplies for structural fire-fighting purposes in areas where the authority having jurisdiction (AHJ) determines that adequate and reliable water supply systems for fire-fighting purposes do not otherwise exist. An adequate and reliable municipal-type water supply is one that is sufficient every day of the year to control and extinguish anticipated fires in the municipality, particular building, or building group served by the water supply.

BSR/NFPA 1145-202x, Guide for the Use of Class A Foams in Fire Fighting (revision of ANSI/NFPA 1145-2017)

Stakeholders: Manufacturers, users, installers/maintainers, labor, enforcing authority, insurance, consumer, special experts, and research and testing.

Project Need: Public interest and need.

This document presents information for agencies planning to use Class A foam for structural fire fighting and protection. It presents information on foam properties and characteristics, proportioning and discharge hardware, application techniques, and safety considerations. This document describes the use and application of Class A foams that meet the requirements of NFPA 1150, Standard on Foam Chemicals for Fires in Class A Fuels. This document does not apply to the use of Class A foam in sprinkler systems or on fires involving Class B flammable or combustible liquids. This document is not written for applications of Class A foam in the wildland fire environment. However, much of the material in this guide can be helpful to those who use Class A foam in wildland fire applications. See Annex B for publications that address use of Class A foam in wildland applications. This document is not intended to discourage the use of emerging technologies and practices, provided that the recommended level of safety is not lessened.

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org
140 Philips Rd, Exton, PA 19341

Revision

BSR/SCTE 130-5-201x, Digital Program Insertion - Advertising Systems Interfaces - Part 5: Placement Opportunity Information Service (revision of ANSI/SCTE 130-5-2016)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

This document defines the messaging protocol for the POIS consistent with other parts of the SCTE 130 standard. A POIS, or a repository to which it has access, stores and maintains descriptions of content placement opportunities (typically for advertisements) and the interface supports query and notification operations for those opportunities.

BSR/SCTE 130-7-201x, Digital Program Insertion - Advertising Systems Interfaces - Part 7: Message Transport (revision of ANSI/SCTE 130-7-2015)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

This document describes the Digital Program Insertion Advertising Systems Interfaces' transport protocols required for the exchange of messages defined in the individual parts of the SCTE 130 specification.

BSR/SCTE 135-4-201x, Digital Program Insertion - Advertising Systems Interfaces - Part 4: Content Information Service (revision of ANSI/SCTE 130-4-2015)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

This document, SCTE 130 Part 4, describes the Digital Program Insertion Advertising Systems Interfaces' Content Information Service (CIS) messaging and data type specification using XML, XML Namespaces, and XML Schema.

BSR/SCTE 231-202x, General Test Procedures for Evaluation of Energy Efficiency Metrics and in Support of Functional Density Metrics (revision of ANSI/SCTE 231-2016)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

This document covers the general test procedures that are common to all equipment types and specifies the environmental conditions for evaluating cable equipment energy efficiency metrics. Expectations of measurement equipment as well as guidelines on the recording of results are also covered. This standard will be included as a normative reference in each supplemental standard in the series covering metrics and specific test procedures for the various equipment types.

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>APCO Association of Public-Safety Communications Officials-International 351 N. Williamson Boulevard Daytona Beach, FL 32114 Phone: (920) 579-1153 Web: www.apcolntl.org</p>	<p>BICSI Building Industry Consulting Service International 8610 Hidden River Parkway Tampa, FL 33637 Phone: (813) 903-4712 Web: www.bicsi.org</p>	<p>ICC International Code Council 4051 Flossmoor Road Country Club Hills, IL 60478 Phone: (888) 422-7233 Web: www.iccsafe.org</p>
<p>AAMI Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 Phone: (703) 253-8284 Web: www.aami.org</p>	<p>ASA (ASC S12) Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: www.acousticalsociety.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>IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>
<p>ABYC American Boat and Yacht Council 613 Third Street Suite 10 Annapolis, MD 21403 Phone: (410) 990-4460 Web: www.abycinc.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>CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech</p>	<p>ISEA International Safety Equipment Association 1901 North Moore Street Suite 808 Arlington, VA 22209 Phone: (703) 525-1695 Web: www.safetyequipment.org</p>
<p>AGA (ASC Z223) American Gas Association 400 North Capitol Street, NW Suite 450 Washington, DC 20001 Phone: (202) 824-7058 Web: www.aga.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329-2305 Phone: (404) 636-8400 Web: www.ashrae.org</p>	<p>ECIA Electronic Components Industry Association 13873 Park Center Road Suite 315 Herndon, VA 20171 Phone: (571) 323-0294 Web: www.ecianow.org</p>	<p>NEMA (ASC C8) National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: www.nema.org</p>
<p>AGA (ASC Z380) American Gas Association 400 North Capitol Street, NW Suite 450 Washington, DC 20001 Phone: (202) 824-7339 Web: www.aga.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>ESTA Entertainment Services and Technology Association 630 Ninth Avenue Suite 609 New York, NY 10036-3748 Phone: (212) 244-1505 Web: www.esta.org</p>	<p>NFPA National Fire Protection Association One Batterymarch Park Quincy, MA 02169 Phone: (617) 984-7246 Web: www.nfpa.org</p>
<p>AIAA American Institute of Aeronautics and Astronautics 12700 Sunrise Valley Drive, Suite 200 Reston, VA 20191-5807 Phone: (703) 264-7546 Web: www.aiaa.org</p>	<p>AWS American Welding Society 8669 NW 36th Street # 130 Miami, FL 33166 Phone: (305) 443-9353 Web: www.aws.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) 827-3817 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>B11 B11 Standards, Inc. PO Box 690905 Houston, TX 77269-0905 Phone: (832) 446-6999</p>	<p>IAPMO (ASSE Chapter) ASSE International Chapter of IAPMO 18927 Hickory Creek Dr Suite 220 Mokena, IL 60448 Phone: (708) 995-3017 Web: www.asse-plumbing.org</p>	<p>SCTE Society of Cable Telecommunications Engineers 140 Philips Rd Exton, PA 19341 Phone: (800) 542-5040 Web: www.scte.org</p> <p>UL Underwriters Laboratories, Inc. 12 Laboratory Dr. Research Triangle Park, NC 27709 Phone: (919) 549-1479 Web: www.ul.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

REFRIGERATION (TC 86)

ISO 817/DAMd2, Refrigerants - Designation and safety classification - Amendment 2 - 11/2/2019, \$40.00

ROAD VEHICLES (TC 22)

ISO 18243/DAMd1, Electrically propelled mopeds and motorcycles - Test specifications and safety requirements for lithium-ion battery systems - Amendment 1 - 11/2/2019, \$29.00

IEC Standards

17C/726/CD, IEC 62271-203 ED3: High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV, 020/1/3/

21/1024/CD, IEC TR 61044 ED3: Opportunity-charging of lead-acid traction batteries, 2019/12/6

21/1025/CD, IEC TR 61431 ED2: Guide for the use of monitor systems for lead-acid traction batteries, 2019/12/6

29/1037/DTR, IEC TR 63079/AMD2 ED1: Code of practice for hearing-loop systems (HLS), 2019/12/6

31G/310/DISH, IEC 60079-11/ISH1 ED5: Interpretation Sheet 1 - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", /2019/11/2

31G/311/DISH, IEC 60079-11/ISH6 ED6: Interpretation Sheet 6 - Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", /2019/11/2

34/636/CDV, IEC 63129 ED1: Determination of inrush current characteristics of lighting products, 020/1/3/

37B/191/CDV, IEC 61643-322 ED1: Components for low-voltage surge protection - Part 322: Selection and application principles for silicon PN-junction voltage limiters, 020/1/3/

46/737/CDV, IEC 62153-4-15 ED2: Metallic cables and other passive components test methods - Part 4-15: Electromagnetic compatibility (EMC) - Test method for measuring transfer impedance and screening attenuation or coupling attenuation with triaxial cell, 020/1/3/

47/2599/CD, IEC 63229 ED1: Semiconductor devices - The classification of defects in gallium nitride epitaxial film on silicon carbide substrate, 020/1/3/

51/1317/NP, PNW 51-1317: Classification of materials for magnetic powder cores, 020/1/3/

51/1318/NP, PNW 51-1318: Test methods for electrical and magnetic properties of magnetic powder cores, 020/1/3/

57/2149/FDIS, IEC 62351-3/AMD2 ED1: Amendment 2 - Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP, /2019/11/2

57/2150/FDIS, IEC 61850-8-1/AMD1 ED2: Amendment 1 - Communication networks and systems for power utility automation - Part 8-1: Specific communication service mapping (SCSM) - Mappings to MMS (ISO 9506-1 and ISO 9506-2) and to ISO/IEC 8802-3, /2019/11/2

62D/1723/CDV, ISO 80369-7 ED2: Small-bore connectors for liquids and gases in healthcare applications - Part 7: Intravascular and hypodermic applications, 020/1/3/

64/2404/CD, IEC 60364-5-55/AMD3 ED2: Amendment 3 - Electrical installations of buildings - Part 5-55: Selection and erection of electrical equipment - Other equipment; Amendment on Clause 551, 020/1/3/

86A/1972/FDIS, IEC 60794-2-50 ED2: Optical fibre cables - Part 2-50: Indoor optical fibre cables - Family specification for simplex and duplex cables for use in terminated cable assemblies, /2019/11/2

86B/4245/CD, IEC 61300-3-27 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-27: Examinations and measurements - Method for measurement of guide-hole and fibre hole/core position of rectangular ferrules, 2019/12/6

88/739/NP, PNW TS 88-739: Wind energy generation systems - Part 50-4: Use of floating lidars for wind measurements, 020/1/3/

89/1482/CDV, IEC 60695-11-11 ED1: Fire hazard testing - Part 11-11: Test flames - Determination of the characteristic heat flux for ignition from a non-contacting flame source, 020/1/3/

91/1617/NP, PNW 91-1617: Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 2-805: X/Y CTE Test for Thin Base Materials by TMA, 020/1/3/

- 105/765/FDIS, IEC 62282-8-101 ED1: Fuel cell technologies - Part 8 -101: Energy storage systems using fuel cell modules in reverse mode - Test procedures for the performance of solid oxide single cells and stacks, including reversible operation, /2019/11/2
- 110/1160/FDIS, IEC 63145-22-10 ED1: Eyewear display - Part 22-10: Specific measurement methods for AR type - Optical properties, /2019/11/2
- 115/223A/NP, PNW TS 115-223: HVDC Grid Systems and connected Converter Stations - Functional Specifications,
- 115/224A/NP, PNW TS 115-224: HVDC Grid Systems and connected Converter Stations - Functional Specifications,
- 126/11/NP, PNW 126-11: Performance test method of binary power generation systems with the capacity less than 100kW, 2019/11/8



Newly Published ISO & IEC Standards

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

[ISO 21572:2019](#), Foodstuffs - Molecular biomarker analysis - Immunochemical methods for the detection and quantification of proteins, \$138.00

AIR QUALITY (TC 146)

[ISO 10312:2019](#), Ambient air - Determination of asbestos fibres - Direct transfer transmission electron microscopy method, \$209.00

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

[ISO 1920-6:2019](#), Testing of concrete - Part 6: Sampling, preparing and testing of concrete cores, \$68.00
[ISO 20987:2019](#), Simplified design for mechanical connections between precast concrete structural elements in buildings, \$209.00

DOCUMENTS AND DATA ELEMENTS IN ADMINISTRATION, COMMERCE AND INDUSTRY (TC 154)

[ISO 20415:2019](#), Trusted mobile e-document framework - Requirements, functionality and criteria for ensuring reliable and safe mobile e-business, \$162.00

FERTILIZERS AND SOIL CONDITIONERS (TC 134)

[ISO 15958:2019](#), Fertilizers - Extraction of water soluble phosphorus, \$45.00

GEOTECHNICS (TC 182)

[ISO 18674-5:2019](#), Geotechnical investigation and testing - Geotechnical monitoring by field instrumentation - Part 5: Stress change measurements by total pressure cells (TPC), \$162.00

GLASS CONTAINERS (TC 63)

[ISO 12821:2019](#), Glass packaging - 26 H 180 crown finish - Dimensions, \$45.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 10110-1:2019](#), Optics and photonics - Preparation of drawings for optical elements and systems - Part 1: General, \$185.00

PAINTS AND VARNISHES (TC 35)

[ISO 276:2019](#), Binders for paints and varnishes - Linseed stand oil - Requirements and methods of test, \$45.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 27065/Amd1:2019](#), Protective clothing - Performance requirements for protective clothing worn by operators applying pesticides and for re-entry workers - Amendment 1: Surrogate test chemical, \$19.00

ROAD VEHICLES (TC 22)

[ISO 21441:2019](#), Road vehicles - Engine EGR cooler - Heat dissipation test methods, \$138.00

[ISO 8820-8:2019](#), Road vehicles - Fuse-links - Part 8: Fuse-links with bolt-in contacts (Type H and J) with rated voltage of 450 V, \$68.00

SAFETY OF MACHINERY (TC 199)

[ISO 13857:2019](#), Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs, \$138.00

SMALL TOOLS (TC 29)

[ISO 1711-1:2019](#), Assembly tools for screws and nuts - Technical specifications - Part 1: Hand-operated wrenches and sockets, \$45.00

WELDING AND ALLIED PROCESSES (TC 44)

[ISO 6947:2019](#), Welding and allied processes - Welding positions, \$138.00

IEC Standards

ELECTRICAL ACCESSORIES (TC 23)

[IEC 61535 Ed. 2.0 b:2019](#), Installation couplers intended for permanent connection in fixed installations, \$317.00

[S+ IEC 61535 Ed. 2.0 en:2019 \(Redline version\)](#), Installation couplers intended for permanent connection in fixed installations, \$412.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60601-2-43 Amd.2 Ed. 2.0 b:2019](#), Amendment 2 - Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures, \$117.00

[IEC 60601-2-43 Ed. 2.2 b:2019](#), Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures, \$645.00

ELECTROACOUSTICS (TC 29)

[IEC 60601-2-66 Ed. 3.0 b:2019](#), Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems, \$317.00

[S+ IEC 60601-2-66 Ed. 3.0 en:2019 \(Redline version\)](#), Medical electrical equipment - Part 2-66: Particular requirements for the basic safety and essential performance of hearing aids and hearing aid systems, \$412.00

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.

PINS Corrections

BSR/API RP 108-6/ISO 10426-6-2008, Addendum 1-201x

The October 4, 2019 Standards Action PINS for BSR/API RP 108-6/ISO 10426-6-2008, Addendum 1-201x contained an error in the project need. The correction is as follows:

Project Need: Corrections in Annex A of an error in a conversion factor in an equation and a correction of the units of measure in a definition, which cause a substantial error in the outcome of the calculation.

BSR/NFPA 1142-202x

The PINS proposal for (revision of ANSI/NFPA 1142-2017) was published in the October 11, 2019 Standards Action PINS section with the wrong title and scope. A corrected PINS is republished in this issue of Standards Action.

BSR/NFPA 1145-202x

The PINS proposal for (revision of ANSI/NFPA 1145-2017) was published in the October 11, 2019 Standards Action PINS section with the wrong scope. A corrected PINS is republished in this issue of Standards Action.

ANSI Accredited Standards Developers

Approval of Accreditation as an ANSI ASD

InGenesis, Inc.

ANSI's Executive Standards Council has approved InGenesis, Inc., a new ANSI member in 2019, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on InGenesis-sponsored American National Standards, effective October 16, 2019. For additional information, please contact: Dr. Veronica Muzquiz Edwards, CEO, InGenesis, Inc., 10231 Kotzebue Street, San Antonio, TX 78217; phone: 210.366.0033, ext. 333; e-mail: vedwards@ingenesis.com.

Approval of Reaccreditation

Sporting Arms and Ammunition Manufacturers' Institute, Inc. (SAAMI)

The reaccreditation of the Sporting Arms and Ammunition Manufacturers' Institute, Inc. (SAAMI), an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on SAAMI-sponsored American National Standards, effective October 11, 2019. For additional information, please contact: Mr. Brian Osowiecki, CCEP, Manager, Technical & Regulatory Affairs, Sporting Arms and Ammunition Manufacturers' Institute, Inc., 11 Mile Hill Road, Newtown, CT 06470-2359; phone: 203.426.4358, ext. 284; e-mail: bosowiecki@saami.org

International Organization for Standardization (ISO)

Establishment of a New ISO Project Committee

ISO/PC 25 – Sex toys – Design and safety for products in direct contact with genitalia, the anus, or both

A new ISO Project Committee, ISO/PC 325 – Sex toys – Design and safety requirements for products in direct contact with genitalia, the anus, or both, has been formed. The Secretariat has been assigned to Sweden (SIS).

ISO/PC 325 operates under the following scope:

This document specifies safety and user information requirements relating to the materials and design for products intended for sexual use. This document covers only products that are intended to come in direct contact with genitals and/or the anus. This document is not primarily intended for products classified as medical devices or assistive products.

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

Establishment of a New ISO Technical Committee

ISO/TC 287 – Sustainable processes for wood and wood-based products

A new ISO Technical Committee, ISO/TC 287 – Sustainable processes for wood and wood-based products, has been formed. The Secretariat has been assigned to Germany (DIN).

ISO/TC 287 operates under the following scope:

Standardization in the field of the wood and wood-based industries, including but not limited to sustainability and renewability aspects, chain of custody, timber tracking and timber measurement, across the entire supply chain from biomass production to the finished wood and wood-based products.

Excluded: those applications covered by ISO/TC6 "Paper, board and pulps"; ISO/TC89 "Wood-based panels"; ISO/TC 165 "Timber structures"; ISO/TC 218 "Timber"; and ISO/TC 207 "Environmental management".

Organizations interested in serving as the U.S. TAG Administrator or participating on a U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO Proposal for a New Field of ISO Technical Activity

Surfaces with Biocidal and Antimicrobial Properties

Comment Deadline: November 15, 2019

AFNOR, the ISO member body for France, has submitted to ISO a proposal for a new field of ISO technical activity on surfaces with biocidal and antimicrobial properties, with the following scope statement:

Standardization of test methods used to assess the biocidal performance and efficacy of any surfaces with antimicrobial activities, including their compatibility with different families of disinfectants and cleaning agents. Such methods aim at evaluating the biocidal activity (i.e. that which irreversibly inactivates microorganism) and at differentiating it from the biostatic activity (i.e. the inhibition of the growth of microorganisms).

The field of covers the assessment of surfaces displaying intrinsic biocidal properties and of surfaces processed by any means so as to deliver biocidal properties.

Areas of interest include medical and veterinary applications, aerospace, agriculture, food hygiene and other industrial fields, institutional and domestic applications.

Excluded: Toxicological and ecotoxicological surface testing methods, antimicrobial activities of textile products.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, November 15, 2019.

U.S. Proposal for a New Field of ISO Technical Activity

Incentives, Rewards and Recognition

Comment Deadline: November 15, 2019

ANSI has received a request from the Incentive Federation Inc. to submit to ISO a proposal for a new field of ISO technical activity on Incentives, Rewards and Recognition, with the following scope statement:

Standardization in the field of incentives, rewards, and recognition will include classification, terminology and nomenclature, management practices and metrics that comprise the development, delivery, assessment and control of third-party acknowledgement and motivation solutions. Covered subjects would include products and services from third party companies that develop incentives, rewards, and recognition program development, program management, training, measurement and analytics, supply chain management, financial management and other related functions where organizational management applies defined methods to acknowledge or motivate employee performance and productivity or to increase customer acquisition, satisfaction, retention and loyalty. Incentives, reward, and recognition systems for performance improvements in sales, safety, engagement, retention and other business functional environments are also within scope. Intrinsic incentives, rewards, and recognition, non-material and those unique to the organizational or national cultures are also in scope (i.e. verbal appreciation, physical acknowledgement between parties, gifts of local cultural significance, corporate gifting, rewards points, traditional achievement and service awards, certificates and trophies.) Out of scope are the normal compensation and benefits programs that organizations provide to remunerate employees for expected performance from client organizations, e.g. cash compensation, health benefits, etc.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, November 15, 2019.



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/>

Public Review Draft

Proposed Addendum an to Standard 189.1-2017

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

First Public Review Draft (October 2019)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

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

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BSR/ASHRAE/ICC/USGBC/IES Addendum an to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft.

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Foreword

This proposal adds lighting control requirements for dwelling units to increase energy savings beyond the capabilities of energy efficient light sources alone. The proposal reflects the continued effort to develop Standard 189.1 as a high-performance extension of base codes. The changes would align Standard 189.1 with CA Title 24 Part 6 and ASHRAE 90.2.

Standard 189.1 to date contains no maximum lighting power density (LPD) allowances for dwelling units. In order to ensure energy efficiency in dwelling units, efficient light sources must be used in conjunction with energy-saving lighting controls such as dimmers, timers, or occupancy sensors. The use of such controls can not only contribute to energy savings, it can enhance indoor environmental quality (visual acuity and ambience), increase convenience, accessibility (universal design), and improve security.

Tables A.1 and A.2 below come from the Consortium for Energy Efficiency (CEE) Residential Lighting Controls Market Characterization report published Jan. 9, 2014. They show the energy savings enabled through the use of dimmer and timer controls for various room types and light sources.

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A.1 Dimmer Results

Room Type	Annual Energy Savings Per Control Unit (kWh/yr)					Payback Period (years)				
	Inc	Halogen	CFL	LED	Average	Inc	Halogen	CFL	LED	Average
Basement	8.3	6.7	6.2	5.8	5.3	30.5	37.8	40.9	44.1	47.6
Bathroom	27	30.8	21.4	18.6	24.8	9.4	8.3	11.9	13.6	10.3
Bedroom	43.9	49.1	23.9	20.4	37.4	5.8	5.2	10.6	12.5	6.8
Closet	-	-	-	-	-	-	-	-	-	-
Dining Room	46	49.8	29.9	22.3	42.9	5.5	5.1	8.5	11.4	5.9
Exterior	-	-	-	-	-	-	-	-	-	-
Garage*	-	-	-	-	-	-	-	-	-	-
Hall	24.1	26.3	19.5	16.6	22.5	10.6	9.7	13.1	15.3	11.3
Kitchen	57.3	45.8	45.1	39.6	39.7	4.4	5.6	5.6	6.4	6.4
Laundry/Utility Room	-	-	-	-	-	-	-	-	-	-
Living/Family Room	133.1	150.6	70.8	59.6	110.7	1.9	1.7	3.6	4.3	2.3
Office	9.4	10.3	7.6	6.5	8.2	27	24.7	33.5	39.1	31.2
Other	9.6	9.3	6.6	5.5	6.8	26.6	27.4	38.7	46	37.5
Average	39.4	42.2	25.1	21.2	33.1	6.4	6	10.1	12	7.7

A.2 Timer Results

Room Type	Annual Energy Savings Per Control Unit (kWh/yr)					Payback Period (years)				
	Inc	Halogen	CFL	LED	Average	Inc	Halogen	CFL	LED	Average
Basement	28.2	22.7	7.6	7	14	14.3	17.7	53.2	57.1	28.8
Bathroom	75.9	86.8	21.7	19	62	5.3	4.6	18.6	21.2	6.5
Bedroom	-	-	-	-	-	-	-	-	-	-
Closet	-	-	-	-	-	-	-	-	-	-
Dining Room	-	-	-	-	-	-	-	-	-	-
Exterior	120.6	169.3	33.1	30.2	102	3.3	2.4	12.2	13.3	3.9
Garage*	38.1	48.1	10	9.5	15.1	10.6	8.4	40.1	42.3	26.7
Hall	-	-	-	-	-	-	-	-	-	-
Kitchen	-	-	-	-	-	-	-	-	-	-
Laundry/Utility Room	22.8	21.3	6.1	5.7	13	17.7	18.9	65.5	70.7	30.9
Living/Family Room	-	-	-	-	-	-	-	-	-	-
Office	-	-	-	-	-	-	-	-	-	-
Other	15.7	15.2	4.5	3.9	10	25.7	26.5	89.8	102.7	40.3
Average	53.6	64	14.9	13.4	39.5	7.5	6.3	27.1	30	10.2

<https://library.cee1.org/content/cee-residential-lighting-controls-market-characterization>

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

BSR/ASHRAE/ICC/USGBC/IES Addendum an to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* First Public Review Draft.

Addendum an to 189.1-2017

Add new definitions to Section 3.2 as follows:

automatic shut-off control: a device capable of automatically turning loads off without manual intervention. Automatic shut-off controls include devices such as occupancy sensors, vacancy sensors, motion sensors, programmable time switch, or count-down timers.

dimmer: a lighting control device that is capable of varying the light output and energy usage of light sources. (ANSI/ASHRAE/IES Standard 90.1)

Add new Sections 7.4.6.6 and 7.4.6.7 as follows:

7.4.6.6 Dwelling Unit Lighting Controls. *Permanently installed luminaires in laundry rooms, utility rooms, closets, and storage rooms in dwelling units shall be controlled with automatic shut-off controls.*

For all other spaces and exterior applications which are controlled from within a dwelling unit, where three or more permanently installed luminaires are controlled together, the control shall be either a dimmer or an automatic shut-off control.

Dwelling units with greater than 5000 ft² (460 m²) of conditioned floor area shall have a lighting control system that has the capability to turn off all permanently installed interior lighting from a control located at an exit door or have a lighting control system that has the capability to turn off all permanently installed interior lighting from remote locations.

Exceptions to 7.4.6.6:

1. Spaces using less than 10 W of total lighting power.
2. Lighting designed for safety or security.
3. Permanently installed night lighting that does not exceed 2 W per luminaire.

Public Review Draft

Proposed Addendum ac to Standard 189.1-2017

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

Second Public Review Draft (October 2019)
(Draft Shows Proposed Independent Substantive Changes to Previous Public Review Draft)

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BSR/ASHRAE/ICC/USGBC/IES Addendum ac to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* Second Public Review Draft - Independent Substantive Changes.

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Foreword

The proposed ISC allows for the building project to include thermal or electrical energy storage capability that could be employed as a demand response tool. This is done by providing an additional exception to Section 7.3.4. The proposed exception includes a minimum capacity level for the energy storage system, with the minimum energy storage capacity required being roughly equal for thermal and electrical energy.

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

Addendum ac to 189.1-2017

Revise Section 7.3.4 as follows (sections not shown are not changed):

7.3.4 Where a demand response (DR) program is available to the *building project*, the building controls shall be designed with automated DR infrastructure capable of receiving DR requests from the utility, electrical system operator, or third-party DR program provider and automatically implementing load adjustments to the HVAC and lighting systems.

Exceptions to Section 7.3.4:

1. Buildings with a gross conditioned floor area less than 5000 ft² (500 m²).
2. Buildings that employ a thermal or electrical energy storage system with a total storage capacity that complies with one of the following:
 - a. For thermal energy storage, the system shall be capable of displacing the HVAC design cooling coil capacity for not less than the equivalent of three hours
 - b. For electrical energy storage, the capacity shall be not less than the requirements of the following formula:

BSR/ASHRAE/ICC/USGBC/IES Addendum ac to ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings* Second Public Review Draft - Independent Substantive Changes.

$$\frac{\text{Minimum kWh capacity} = \text{Gross Conditioned Floor Area (ft}^2\text{)} * 5.0 \text{ watts / ft}^2 * 1.0 \text{ hour} * (1 \text{ kW/ 1000 watts})}{}$$

7.3.4.1 HVAC Systems Zone Set Points ...

7.3.4.2 Variable-Speed Equipment ...

7.3.4.3 Lighting ...

Original Addendum ac (first public review) shown below for reference only

Addendum ac to 189.1-2017

Add new definition as follows to Section 3.2:

Gross conditioned floor area: See ANSI/ASHRAE/IES Standard 90.1.

Revise Section 7.3.4 as follows (sections not shown are not changed):

7.3.4 ~~Where a demand response (DR) program is available to the building project, building projects shall contain automatic control systems that have the capability to reduce building equipment loads to lower electric peak demand of the building. The~~ building controls shall be designed with automated demand-response (DR) infrastructure capable of receiving DR requests from the utility, electrical system operator, or third-party DR program provider and automatically implementing load adjustments to the HVAC and lighting systems.

Exception to Section 7.3.4: Buildings with a gross conditioned floor area less than 5000 ft² (500 m²).

7.3.4.1 HVAC Systems Zone Set Points ...

7.3.4.2 Variable-Speed Equipment ...

7.3.4.3 Lighting ...



BSR/ASHRAE Standard 84-2013R

Public Review Draft

Method of Testing Air-to-Air Heat/Energy Exchangers

Second Public Review (October 2019)

(Draft shows proposed Independent Substantive Changes to previous Public Review Draft)

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BSR/ASHRAE Standard 84-2013R, *Method of Testing Air-to-Air Heat/Energy Exchangers*
Second ISC Public Review Draft

This is a review of Independent Substantive Changes that were made since the last (First) Public Review. Areas where substantive changes have been made are **highlighted in gray**. In these areas, text that was removed from the previous Public Review is provided for reference but is shown in **strikeout** and text that has been added is shown with **underlines**.

Only the changes highlighted in gray are open to comment at this time. All other material is provided for context only and is not open for Public Review comment except as it relates to the proposed changes.

4.3 Apparatus.

The test apparatus shall consist of four measurement stations. Three measurements shall be taken at each measurement station as follows:

- Station 1*-Supply Inlet: Temperature 1, Humidity 1, Dry Air Mass Flow Rate 1
- Station 2*-Supply Outlet: Temperature 2, Humidity 2, Dry Air Mass Flow Rate 2
- Station 3*-Exhaust Inlet: Temperature 3, Humidity 3, Dry Air Mass Flow Rate 3
- Station 4*-Exhaust Outlet: Temperature 4, Humidity 4, Dry Air Mass Flow Rate 4

~~**4.3.1 Equipment Installation.** The equipment to be tested shall be installed in accordance with the manufacturer's standard installation instructions using recommended installation procedures and accessories. The casing shall be sealed to prevent any infiltration or exfiltration of air.~~

4.3.2¹ Test Duct Leakage Requirements. ~~Prior to the performance tests, the ducts across the test section~~ Prior to first use of the system and periodically thereafter, the duct system, with no exchanger installed, shall be tested under the maximum negative pressure and flow rate that will be encountered under test or operating conditions. Flow rates shall be determined and must satisfy the ~~inequality limits~~ mass flow inequality (20) in Section 6.

~~**4.3.2 Equipment Installation.** The equipment to be tested shall be installed in accordance with the manufacturer's standard installation instructions using recommended installation procedures and accessories. The casing shall be sealed to prevent any infiltration or exfiltration of air.~~

BSR/UL 1389, Standard for Safety for Standard for Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations

1. Proposed First Edition of the Standard for Plant Oil Extraction Equipment for Installation and Use in Ordinary (Unclassified) Locations and Hazardous (Classified) Locations, UL/ULC 1389

7.2 All plant oil extractors shall utilize vessels designed and tested to meet or exceed ASME pressure standards for the application and have a maximum pressure rating labeled. For LPG the minimum pressure rating shall be 2.4 MPa (350 psig). These ratings apply as indicated to all parts of the system unless otherwise noted in this standard.

Exception: Atmospheric tanks and containers storing flammable and combustible liquids that do not meet or exceed ASME pressure standards shall meet the requirements of NFPA 30 Section 9.4, Acceptable Containers, or Section 21.4.2.1, Design Standards for Atmospheric Tanks, as applicable.

8.1 Pressure vessels over 6 inches (152 mm) inside diameter with a design pressure greater than 15 psig (103 kPa) shall be constructed, tested, inspected and marked to indicate compliance with the following, as applicable:

- a) For CE Code-based installations: CSA B51; and
- b) For NEC-based installations: ASME/BPVC, Section VIII, Division 1, Division 2, or Division 3.

8.3 Pressure vessels bearing the ASME Code "U", "U2", or "U3" symbol complying with 8.1 are considered acceptable without tests.

8.6 The minimum design pressure of the ~~LPG container shall be 2 MPa (350 psig)~~ LPG pressure vessels shall be in accordance with NFPA 58.

8.7 Atmospheric tanks and containers storing flammable and combustible liquids that do not meet or exceed ASME pressure standards shall meet the requirements of NFPA 30 Section 9.4, Acceptable Containers, or Section 21.4.2.1, Design Standards for Atmospheric Tanks, as applicable.

10.1 Piping, tubing and fittings shall be designed for at least 1.5 times of the operating pressure and shall be suitable for the solvent or cooling fluid. Suitability shall consider the following:

- i) ~~Hose assemblies shall not:~~
 - i) ~~Exceed 36 in. (0.91 m) in length; and~~
 - ii) ~~Be connected to another hose assembly located within the equipment.~~

10.4 ~~Butane and Carbon dioxide hose shall not exceed 6,894 Kpa (1,000 psig) and comply with Section 32.~~

10.5 Carbon dioxide hose shall comply with Section 32.

12.5 A pump shall be rated for a maximum outlet pressure that is compatible to the overall system rating. Bypass valves shall have a service pressure rating of 110% above ~~of~~ this rating.

14.6.1 A pressure-limiting device designed to automatically stop the operation of the compressor or pump shall:

- a) Be installed on all equipment with a system containing more than 22 pounds-mass (10 kg) of solvent;
- b) Be able to withstand not less than 100,000 cycles of operation under load; and
- c) Comply with the refrigeration pressure-limiting controls requirements in [UL-873](#) [UL 60730-1](#) as well as the applicable [UL 60730-2](#) particular requirements.

Exception: In reference to [14.6.1\(c\)](#), pressure-limiting controls are not required to comply with [UL 873](#) if they comply with [UL 60730-1](#) as well as the applicable [UL 60730-2](#) particular requirements.

~~18.1 All exposed dead metal parts that are capable of becoming energized, and all dead metal parts within the enclosure that are exposed to contact during operator servicing and that are capable of becoming energized, shall be reliably bonded together and to the grounding means in accordance with the following requirements, as applicable:~~

- ~~a) For CE Code-based installations: Section 10 of the CE Code; and~~
- ~~b) For CE NEC-based installations: Article 250 of the NEC.~~

18.1 Grounding and bonding between external parts of the extractor shall be in accordance with the applicable requirements in NFPA 79.

19.2.1 Extractors for use in EPL Gb or Class I, Zone 1 or Class I, Division 1 locations, in addition to complying with the requirements of 19.1, external factory-installed wiring that interconnects electrical parts of the overall extractor shall comply with the following requirements ~~for wiring methods~~, as applicable:

- a) For CE Code-based EPL Gb installations: Rule 18-402 of the CE Code.
- b) For CE Code-based Class I, Division 1 installations: Rule J18-406 of the CE Code.
- c) For NEC-based Class I, Zone 1 installations: Section 505.45(B) of the NEC.
- d) For NEC-based Class I, Division 1 installations: Section 501.40(A) of the NEC.

19.3.2 External factory-installed wiring that interconnects electrical parts of the overall extractor shall comply with the following requirements, as applicable:

- a) For CE Code-based EPL Gc installations: CSA C22.2 No. 60079-7 for factory wired connections between enclosures, or Rule 18-452 of the CE Code.
- b) For CE Code-based Class I, Division 2 installations: CSA C22.2 No. 213 for connections on exterior of enclosure, or Rule J18-452 of the CE Code.
- c) For NEC-based Class I, Zone 2 installations: UL 60079-7 for factory wired connections between enclosures, or Section 505.45(C) of the NEC.
- d) For NEC-based Class I, Division 2 installations: UL 121201 for connections on exterior of enclosure, or Section 501.40(B) of the NEC.

20.6 All metallic materials used for fluid confining parts shall be resistant to corrosion caused by the solvents anticipated by these requirements. A part in contact with the solvent to be handled shall be resistant to the action of the solvent being used. In addition, metallic materials, used internally in fluid confining parts, that are required to operate in some manner to address safety (e.g. plunger on a valve) shall be resistant to corrosion caused by these solvents. This requirement also applies to all tubing, piping, or other interconnection means between components of the equipment.

Table 30.1
Temperature limits rises

	Surface	°C	°F
1.	Inaccessible parts of the enclosure (for example, the back of wall mounting enclosure) or accessible surfaces not subject to casual contact (for example, without parts intended to be touched) ^a	50	122
2.	Accessible parts of the enclosure subject to casual contact (for example, enclosure surfaces containing parts intended to be touched)		
	Nonmetallic ^a	40	104
	Metal ^a	30	86
3.	Parts intended to be touched (for example, operating knobs or handles of power switches and similar parts)		
	Nonmetallic ^a	25	77
	Metal ^a	15	59
^a The temperature rise of an accessible surface of an enclosure is able to be exceeded when provided with the marking indicated in 46.2(j-k).			
<u>Note - All values of temperature rise in Table 30.1 are based on an assumed ambient temperature of 25°C (77°F). Tests that are conducted at any ambient temperature within the range of 10 - 40°C (50 - 104°F) meet the intent of this requirement.</u>			

47.4 The instruction manual shall include the following or equivalent text:

a) SAFETY OFFICER: Ensure that a qualified safety officer oversees all installation, operation and any user-maintenance activities in accordance with the instruction manual.

b) QUALIFIED PERSONNEL: Ensure that only qualified personnel perform all installation, operation and user-maintenance activities in accordance with the instruction manual.

Note: Qualified personnel are ~~trained~~ given documented training and qualified by the extractor manufacturer or their designee, or as otherwise required by the Authority Having Jurisdiction (AHJ). Such personnel are to be experienced in such work, and to be familiar with all safety precautions.

50.2 Fire suppression system

50.2.1 Regarding fire suppression system components or equipment, it is up to the Safety Officer together with the Authority Having Jurisdiction (AHJ) to determine where it is to be provided. Where provided, they are either to be factory installed, or provided in the field in accordance with the installation instructions. It is the responsibility of the Safety Officer together with the AHJ to verify the suitability prior to operation.

In Canada, fire suppression system components or equipment shall be provided as determined by the applicable provincial and territorial regulations or in the absence of those, the National Building

Code of Canada. Where provided, they are either to be factory installed, or provided in the field in accordance with the installation instructions.

~~50.2.2 Where provided, they are either to be factory installed, or provided in the field in accordance with the installation instructions. It is the responsibility of the Safety Officer together with the AHJ to verify the suitability prior to operation.~~

~~50.2.3~~ 50.2.2 Where provided, these system components or equipment are designed to comply with one of the following:

- a) Certified portable fire extinguishers for installation in accordance with ANSI/NFPA 10, Portable Fire Extinguishers;
- b) Automatic sprinkler system components for installation in accordance with ANSI/NFPA 13, Installation of Sprinkler Systems; or
- c) Alternate fire suppression system components for installation in accordance with other applicable NFPA installation standards.

50.3.4 Air exhausted from the booths is not permitted to be recirculated or exhausted from the booths into the building room in which the booths are installed.

~~50.3.5 Regarding ventilation other than exhaust ventilation, it may be provided to the booths, and but may not be recirculated or exhausted from the booth into the building room in which the booths are installed. This ventilation is not intended to serve as exhaust ventilation.~~

~~50.6.1 Regarding means of ingress and egress from the booths, it is provided in accordance with building code requirements. , and e~~Egress doors shall open in the direction of egress and shall be~~are~~ provided with panic hardware in accordance with the following, as applicable:

- a) For CE Code-based installations: CAN/ULC-S132 and ULC-S533.
- b) For NEC-based installations: UL 305.

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BSR/UL 62841-3-1000, Standard for Safety for Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-1000: Particular Requirements For Transportable Laser Engravers


1. Proposed First Edition Of The Standard For Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 3-1000: Particular Requirements for Transportable Laser Engravers, UL 62841-3-1000

8.2 Addition:

Laser engravers shall be marked with safety information which shall be written in English ~~one of the official languages of the country in which the laser engraver is to be sold or marked with the appropriate symbol.~~

For all **laser engravers**:

"  WARNING - Fire hazard. Never operate the laser system unattended. Combustible materials exposed to the laser beam may ignite."

"  WARNING - Do not operate the machine without proper operating exhaust system."

The WARNING markings shall be readily visible to the user and shall not be located on the underside of the machine.

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BSR/UL 79, Standard for Safety for Power-Operated Pumps for Petroleum Dispensing Products

PROPOSAL

3. Revision to thread requirements

74.1 Each pump shall be permanently marked with the following:

- a) The manufacturer's name, trade name, trademark or other descriptive markings by which the organization responsible for the product is capable of being identified.
- b) A distinctive catalog number or the equivalent to specifically identify the pump.
- c) For electrically powered pumps, the electrical rating, as normally appearing on each motor for Class I, Group D hazardous locations, on the nameplate of submersible-type pumps.
- d) For pneumatic powered pumps, the maximum air pressure.
- e) For pumps for use with or in petroleum product dispensing systems and vapor recovery pumps, the maximum outlet pressure.
- f) For pumps additionally evaluated for use with liquids other than those indicated in 1.5, the specific name of the additional liquids.

Exception: As an alternative, specific names of additional fluids may be included in the manufacturer's installation instructions.

- g) For hydraulic powered pumps, the maximum inlet pressure.
- h) The date or other dating period of manufacturer not exceeding any three consecutive months and not repeating in less than 20 years.

Exception: The date of manufacturer is not prohibited from being abbreviated or appearing in an established or otherwise acceptable code.

- i) For pumps without motors, the direction of rotation and maximum revolutions per minute (rpm) that the pump can be operated.
- j) Pumps constructed using pipe thread in accordance with the Exception to 17.1 shall be provided with a tag, label, or similar marking on the product or smallest unit package, identifying the pipe thread type for the installer.

Exception: The marking required by 74.1(j) is not required to be permanent.

BSR/UL 96, Standard for Safety for Lightning Protection Components

1. Additional Stainless Steel Hardware

6.1 Class I components shall be made of copper, copper alloy, aluminum or aluminum alloy with hardware made from stainless steel, unless otherwise required in this Standard, as outlined below:

- a) Copper conductors and air terminals shall be made from electrical grade copper, C11000, generally designated as being 95% conductivity when annealed.
- b) Aluminum conductors shall be made of electrical grade aluminum, with a minimum chemical composition of 99% aluminum.
- c) Aluminum air terminals, stampings and couplings, shall be made with an alloy having a minimum chemical composition of 90% aluminum.
- d) Stainless Steel hardware, such as nuts, bolts, washers, screws, threaded rods, and fasteners shall be of minimum 18-8 grade (Chromium & Nickel content) with acceptable alloys being 302, 303, ~~and 304,~~ and 316.
- e) All copper alloys other than brass shall have a minimum copper content of 80%.
- f) Aluminum alloys suitable for use in castings shall have a minimum aluminum content of 85%.
- g) Brass alloys suitable for use in couplings, connectors, bases and fittings shall have a minimum copper content of 60%.

2. Use of High Voltage Insulated Conductors and Conductor Sizing in Lightning Protection Systems

10 Conductors

10.1 Among the various types of lightning conductors are as follows: rope lay, smooth twist, and loose-weave cable; flexible and solid-strip conductors; tubular; and round, rectangular, square, or star-shaped rod. Lightning conductors shall be either bare or insulated. Insulated lightning conductors complying with the requirements of IEC TS 62561-8 shall be considered sufficient for this purpose.

10.2 The twist or lay of wires in a cable is not specified but the cable shall be stranded tightly enough to form a symmetrical cable and to remain in a fixed position when installed.

10.3 If not actually tested to withstand lightning currents, the size and weight of Class I conductors shall be as specified in Tables 10.1 and 10.2. Testing to withstand lightning currents shall at minimum consist of the ability to withstand without damage a lightning surge with a peak current 100 kA, transferring 50 C of charge with a specific energy of 2.5 MJ/Ω.

21 Conductors

21.1 A Class II conductor shall be a cable made of copper or aluminum and if not actually tested to withstand lightning currents, shall comply with the requirements in Table 21.1.

21.2 Class II conductors shall be either bare or insulated. Insulated lightning conductors complying with the requirements of IEC TS 62561-8 shall be considered sufficient for this purpose.

26 Conductors

26.1 If not actually tested to withstand lightning currents, a Class III A conductor shall be a copper cable weighing not less than 560 g/m (0.375 lb/ft). No strand of the cable shall be smaller than 1.65 mm² (15 AWG). Testing to withstand lightning currents shall at minimum consist of the ability to withstand without damage a lightning surge with a peak current 100 kA, transferring 50 C of charge with a specific energy of 2.5 MJ/Ω.

26.2 Class III conductors shall be either bare or insulated. Insulated lightning conductors complying with the requirements of IEC TS 62561-8 shall be considered sufficient for this purpose.

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BSR/UL 498, Standard for Safety for Attachment Plugs and Receptacles

PROPOSAL

12.7.4 An attachment fitting shall be configured in such a manner as to prevent interchangeability with differently rated receptacles. ~~of differently rated load attachment fittings.~~ It shall not be possible to mate an attachment fitting with either a luminaire or ceiling-suspended fan support receptacle having a lower rating as identified in Table 12.7.

Table 12.7
Attachment Fitting Load Rating

Attachment Fitting Load Rating	Intended Receptacle	Receptacle Outlet Box Rating
<u>50 lb. Luminaire Support</u>	Luminaire Support Receptacle	Luminaire/Fixture 50 lb Minimum
<u>35 lb. Fan Support</u>	Ceiling-suspended Fan Support Receptacle ^a	Fan Support 35 lb. Minimum Luminaire/Fixture 50 lb. Minimum
<u>50 lb. Fan Support</u>	Ceiling-suspended Fan Support Receptacle ^a	Fan Support 50 lb. Minimum Luminaire/Fixture 50 lb. Minimum
<u>70 lb. Fan Support</u>	Ceiling-suspended Fan Support Receptacle ^a	Fan Support 70 lb. Minimum Luminaire/Fixture 70 lb. Minimum
Notes: ^a) Identified load rating shall be specified by the manufacturer and so marked. See Tables 193.1 and 193.4 for marking details.		

42D Receptacle Installation Instructions

42D.1 Installation Instructions shall be provided and include procedure for proper installation and use including a list of compatible mating attachment fittings(plugs) if not supplied with the receptacle. Required outlet box rating shall be specified based on receptacle rating, identified in Table 42D.1.

Table 42D.1
Receptacle and Outlet Box Rating

Receptacle Rating	Outlet Box Rating
<u>Luminaire support - 50 lb.</u>	<u>Luminaire support 50 lb. Minimum</u>
<u>Fan Support - 35 lb.</u>	<u>Fan Support - 35 lb. Minimum</u>
<u>Fan Support - 50 lb.</u>	<u>Fan Support - 50 lb. Minimum</u>
<u>Fan Support - 70 lb.</u>	<u>Fan Support - 70 lb. Minimum</u>

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

1. Revisions to address touch control

PROPOSAL

22.14 An induction table stove or similar appliances with touch control subject to spillage, shall be constructed so that inadvertent operation of touch controls is unlikely when there is spillage of liquids or when a damp cloth is placed on the control panel.

22.15 Induction heating appliances Appliances incorporating touch switch control shall require at least two manual operations to switch on a heating element but only one to switch it off. Touching the contact surface of the switch control at the same point twice is not considered to be two operations.

22.19 A cord-connected automatic toaster with touch control, or appliances with unintentional operation of moving parts that would result in injury, shall be constructed to reduce the risk of unintentional operation. The touch control shall comply with all of the following requirements:

- a) At least two manual operations to start operation of toaster. Touching the contact surface of the switch control at the same point twice is not considered to be two operations;
- b) A plainly identified one-step STOP function readily visible during operation and distinguish from other functions;
- c) A flashing light (or other visual indicator) to indicate when the touch screen is in a condition where a single touch is needed to initiate operation of the toaster (after Step 1);
- d) A time-out function on the first step of no longer than 30 seconds;
- e) Provided with a flashing light and instructions as specified in 71.6 when a single touch is needed to initiate operation of the toaster; and
- f) Glass Window or Door Impact Test, Section 50 followed by Dielectric Voltage Withstand Test, Section 44 between live parts and accessible touch screen surfaces closely wrapped in metal foil.

22.20 With respect to 22.19, after the operation of the toaster is manually stopped, or after automatically stopping at the completion of a programmed sequence, the toaster shall return to a condition requiring a two-step function to initiate operation.

22.21 A capacitive touch control on automatic toaster as specified in 22.19(a), shall additionally be subjected to the following without loss of the two-step ON function:

- a) Component Failure Test, 55.2.10,
- b) Electrostatic Discharges in accordance with Electromagnetic compatibility (EMC) - Part 4-2: Testing and Measurement Techniques - Electrostatic Discharge Immunity Test,

IEC 61000-4-2, test level 4 being applicable. Ten discharges having a positive polarity and ten discharges having a negative polarity are applied at each preselected point, and

c) Radiated Emission in accordance with Electromagnetic compatibility (EMC) - Part 4-3: Testing and Measurement Techniques - Radiated, radio-frequency, electromagnetic field immunity test, IEC 61000-4-3, test level 3 being applicable.

71.6.1 For a toaster with touch control as specified in 22.19, the important safeguards shall provide the following instructions:

Flashing light (or other visual indicator) indicates ready to operate. Avoid any contact with live parts.

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BSR/UL 62841-2-11, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 2-11: Particular Requirements for Hand-Held Reciprocating Saws

19.101 Saw blade barrier

1) For jig saws

A barrier shall be provided to prevent inadvertent contact with the cutting edge of the saw blade above the plane of the base plate and from the front of the tool. The barrier shall not prevent the visual observation of the saw blade in contact with the workpiece.

Compliance is checked by inspection and by the following test.

*The **jig saw** is set for the right-angled cut. The test probe of Figure 101 a) is advanced in any single plane perpendicular to the saw blade and parallel to and above the plane of the base plate as shown in Figure 101 b) and Figure 101 c). The longitudinal axis of the test probe shall be perpendicular to the toothed edge of the saw blade. The test probe shall be equally shared about the central plane of the saw blade. When the test probe is moved towards the saw blade, it shall not be able to touch its toothed edge.*

2) For other types of reciprocating saws

If a **reciprocating saw** is designed with a grip zone adjacent and behind the saw blade, a barrier shall be provided to prevent inadvertent contact with the teeth of the saw blade in any saw blade position in accordance with 8.14.2 b) 103).

The barrier shall:

- be located between the grip zone and the teeth central plane of the saw blade;
- have a minimum height of 6 mm above the grip surface; and
- extend a minimum of 6 mm on either side of the teeth of the saw blade, see Figure 104.

A barrier is not required if the tool is supplied with an auxiliary front handle.

Compliance is checked by inspection and by measurement.