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# Project Initiation Notification System (PINS)

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

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## AAFS (American Academy of Forensic Sciences)

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### **New Standard**

BSR/ASB BPR 122-202x, Best Practice Recommendation for Performing Alcohol Calculations in Forensic Toxicology (new standard)

Stakeholders: The forensic toxicology community, law enforcement, attorneys, medicolegal death investigation community, and courts (civil and criminal).

Project Need: Ethanol calculations are commonly performed in forensic toxicology, but there is a high degree of variability. This guideline will improve the quality and consistency of this work.

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

This document provides recommendations for performing alcohol (ethanol) calculations to include retrograde extrapolation, forward estimations, minimum drinks consumed, and other typical situations scenarios.

Recommendations are also provided for evaluation of post-absorptive stage, various specimen types, population variances, and reporting of calculations. The principles and practices outlined in this best practice recommendation may also apply to postmortem scenarios, but there are additional variables to be considered that are outside the scope of this document. Expert opinions based on the results of these calculations are outside the scope of this document.

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### **Revision**

BSR/ASB BPR 144 Addendum-202x, Addendum to Best Practice Recommendations for the Verification Component in Friction Ridge Examination (revision of ANSI/ASB BPR 144-2022)

Stakeholders: Forensic science practitioners in the area of friction ridge; litigators.

Project Need: This document provides recommendations and guidance for when a second examiner reviews the friction ridge impressions to determine if the original examiner's conclusions are supported by the data in the impressions. This addendum revises the recommendation for verification of source identification to a requirement in order to align the document with current industry practices.

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

This document provides best practice recommendations for conducting the verification phase during friction ridge impression examinations. These recommendations apply to both suitability determinations and resulting conclusions addressing verification considerations (e.g., extent, utility, case type, approach), types of verification and application options, and documentation. This document does not address technical review.

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***New Standard***

BSR/ASB Std 173-202x, Standard for Education, Training, Continuing Education, and Certification of Forensic Toxicology Laboratory Personnel (new standard)

Stakeholders: Primarily the forensic toxicology community, but education programs, continuing education programs, and certification bodies may also be impacted.

Project Need: This standard will provide minimum education, training, continuing education, and certification requirements for forensic toxicology laboratory personnel who perform a technical function within the laboratory, as well as those who perform breath alcohol instrument calibrations.

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

This document provides minimum requirements for educational qualifications, training, competency, experience, continuing education, and certification of laboratory personnel performing, interpreting, or overseeing forensic toxicology analyses, as well as anyone performing breath alcohol instrument calibration. This applies to the following sub-disciplines: postmortem toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs), non-regulated employment drug testing, and other forensic testing (e.g., court-ordered toxicology, general forensic toxicology). The following are outside the scope of this document: laboratory personnel that exclusively perform administrative or non-technical duties; individuals working as breath alcohol instrument operators; individuals performing calibration adjustments to breath alcohol instruments, individuals who solely perform instrument maintenance activities, or individuals engaged in expert consultation outside of a forensic toxicology laboratory.

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***New Standard***

BSR/ASB Std 187-202x, Standard for Use of Serological Testing Methods Associated with Forensic Investigations (new standard)

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

Project Need: There are currently no standards specific to serology for use by the forensic DNA community. This document provides standards for the use of serological methods used in forensic investigations and will promote consistency within the community.

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

This standard provides requirements for the quality assurance of documenting analytical procedures/protocols needed for the use of forensic serological methods to evaluate body fluids associated with forensic investigations. This standard includes requirements for laboratory facilities and evidence control; use and monitoring of the analytical procedures; reagents, chemicals, and equipment used for forensic serological testing. Also covered in this standard are the requirements for personnel performing serological testing, equipment maintenance/calibration, reports, records of testing, technical reviews, and administrative reviews. This document does not address details of validation, training, evidence handling, sample collection and preservation, reporting of analyses, testimony, and safety.

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***New Standard***

BSR/ASB Std 201-202x, Standard for the Examination of Financial, Identification, and Other Authorized Documents (new standard)

Stakeholders: Forensic document examiners, criminal and civil justice system

Project Need: Forensic document examiners are called upon to determine the authenticity of documents that incorporate security features, including financial (for example: currency, checks, bonds), identification (for example: driver licenses, passports) and other authorized documents (for example: social security cards, vital records documents). This standard will provide the procedures necessary in order to make these determinations.

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

This standard provides procedures and requirements for determining the authenticity of financial (e.g., currency, checks, bonds), identification (e.g., driver licenses, passports), and other authorized documents (e.g., social security cards, vital records documents) that may originate with an issuing entity.

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***New Standard***

BSR/ASB Std 203-202x, Standard for the Development of a Bloodstain Pattern Analyst Certification Program (new standard)

Stakeholders: Bloodstain Pattern Analysts and Practitioners; Federal, State, County, Local, Tribal, and Private Forensic Science Practitioner; laboratory Managers; Officers of the Court; certification providers

Project Need: This document is needed to provide the requirements of a certification program for the competency and quality of work of a bloodstain pattern analyst. This standard aligns with the requirements in ANSI/ASB Standard 032, Standard for a Bloodstain Pattern Analyst's Training Program.

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

This document establishes the requirements for the development of a Bloodstain Pattern Analyst Certification program by certification providers.

**AHAM (Association of Home Appliance Manufacturers)**

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***New Standard***

BSR/AHAM AC-8-2024-202x, Test Method for Measuring and Assessing Byproducts Formation from Reduction Process of Chemical Gases by Consumer Room Air Cleaners (new standard)

Stakeholders: Manufacturers of consumer room air cleaners, testing laboratories, consumers

Project Need: The purpose of this document is to maintain a consistent test procedure and improve the reliability of test results by clearly defining the test procedure for ability of measuring and assessing the byproducts formation while the hazardous chemical gases are being removed by consumer room air cleaners.

Interest Categories: Producer, User, General Interest

This standard method applies to consumer room air cleaners (air cleaners) as defined in the product scope. This standard method measures and assesses the byproducts that are formed and emitted while the chemical gases suspended in the air in a specified test chamber are being reduced by the air cleaners.

## API (American Petroleum Institute)

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### Revision

BSR/API RP 1173-202x, Pipeline Safety Management Systems (SMS) (revision of ANSI/API RP 1173-2015 (R2023))  
Stakeholders: Pipeline operators, contractors, service suppliers, consultants, regulators, and public interest groups

Project Need: API RP 1173 is the cornerstone of API's pipeline standards documents and programs. This document has been implemented by operators across the industry, from distribution to gathering to transmission. It is the basis for API's Pipeline SMS Assessment Program. The PDCA model established in RP 1173's 1st Edition is the foundational process which underlies most of the updated standards published since then, including in such critical documents as RP 1160, RP 1175, and RP 1162. By revising RP 1173, the industry will demonstrate its commitment to SMS, to the continual improvement process, and pipeline safety.

Interest Categories: Operators, service-suppliers, general interest

This recommended practice (RP) establishes a pipeline safety management systems (PSMS) framework for organizations that operate hazardous liquids and gas pipelines jurisdictional to the US Department of Transportation. Operators of other pipelines may find this document applicable to or useful in operating their systems. This RP provides pipeline operators with safety management system requirements that when applied provide a framework to reveal and manage risk, promote a learning environment, and continuously improve pipeline safety and integrity. This RP provides a comprehensive framework and defines the elements needed to identify and address safety for a pipeline's life cycle. These safety management system requirements identify what is to be done, and leaves the details associated with implementation and maintenance of the requirements to the individual pipeline operators. The document does not explicitly address personnel safety, environmental protection, and security, but the elements herein can be applied to those aspects of an operation.

## ASME (American Society of Mechanical Engineers)

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### Revision

BSR/ASME B18.2.1-202x, Square, Hex, Heavy Hex, and Askew Head Bolts and Hex, Heavy Hex, Hex Flange, Lobed Head, and Lag Screws (Inch Series) (revision of ANSI/ASME B18.2.1-2012 (R2021))

Stakeholders: Producers/Manufacturers, Users, Designers, Distributors

Project Need: The Standard is being revised to bring it up to date with current industry practices.

Interest Categories: Constructor, Designer, Distributer, General Interest, Installer, Manufacturer, Producer

This Standard covers the dimensional requirements for nine product types of inch series bolts and screws.

## ASME (American Society of Mechanical Engineers)

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### Revision

BSR/ASME B18.2.9-202x, Straightness Gage and Gaging for Bolts and Screws (revision of ANSI/ASME B18.2.9-2010 (R2021))

Stakeholders: Producers/Manufacturers, Users, Designers, Distributors

Project Need: The Standard is being revised to bring it up to date with current industry practices

Interest Categories: Constructor, Designer, Distributer, General Interest, Installer, Manufacturer, Producer

This Standard describes the gage and procedure for checking bolt and screw straightness at maximum material condition (MMC) and provides default limits when not stated in the applicable product standard.

**IEEE (ASC C2) (Institute of Electrical and Electronics Engineers)**

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**Revision**

BSR C-2 NESC-202x, National Electrical Safety Code (revision of ANSI ASC C2 NESC-2022)

Stakeholders: Utilities, Telecommunications Industry, Municipalities, Regulators

Project Need: Makes changes to published text based off of recent changes affecting the current publication.

Interest Categories: Utilities, Telecommunications Industry, Municipalities, Regulators

Revision portions of text published in the 2023 National Electrical Safety Code.

**IEEE (Institute of Electrical and Electronics Engineers)**

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**New Standard**

BSR/IEEE 802.1Qdx-202x, Standard for Local and Metropolitan Area Networks - Bridges and Bridged Networks

Amendment: YANG Data Models for the Credit-Based Shaper (new standard)

Stakeholders: Developers, manufacturers, distributors, or users of time-sensitive applications, components, and equipment.

Project Need: YANG (RFC 7950) is a formalized data modeling language that is widely accepted and can be used to simplify network configuration. The ability to manage the credit-based shaper algorithm via YANG modules is needed for compatibility with modern network management systems.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard specifies Bridges that interconnect individual LANs, each supporting the IEEE 802 MAC Service using a different or identical media access control method, to provide Bridged Networks and VLANs. This amendment specifies a Unified Modeling Language (UML)-based information model and YANG modules that allow configuration and status reporting for bridges and end stations (as specified by the base standard) with the capabilities currently specified for the credit-based shaper algorithm (8.6.8.2) of the base standard for the per-traffic class queues. It further defines the relationship between the information and data model, and models for the other management capabilities specified in this standard. Additionally, this amendment addresses errors or omissions related to the feature described above.

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**New Standard**

BSR/IEEE 1361-202x, Guide for Selecting and Evaluating Batteries Used in Stand-Alone Photovoltaic (PV) Systems (new standard)

Stakeholders: Funding organizations, battery manufacturers, PV system integrators, and consumers.

Project Need: Members of the working group evaluated the published standard and agreed that revision was warranted to update references, add some new material and update some existing information.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide contains a tutorial on battery technologies, battery charging characteristics, and a laboratory test procedure to evaluate charge parameters and battery performance in stand-alone photovoltaic (PV) systems. The information on battery designs helps the designer to make appropriate battery decisions for these systems. The guide discusses PV system parameters and operating conditions. Charging parameters related to PV systems are also suggested to help in the selection of appropriate set points. Finally, the guide provides a performance test to validate the battery's operating set points and performance, including discussions on how to interpret test results. This guide is applicable to all stand-alone PV systems where PV is the only charging source. This guide does not include PV hybrid systems.

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### ***New Standard***

BSR/IEEE 1901.3-202x, Standard for Medium Frequency (less than 12 MHz) Power Line Communications (PLC) with a Hybrid PLC/Radio Frequency Physical Layer (PHY) (new standard)

Stakeholders: Equipment manufacturers, silicon manufacturers, electric/power utilities, software developers, IoT developers and implementers, and smart city implementers.

Project Need: The IEEE 1901.1-2018 Standard fills the gap between narrowband and wideband technologies. Similarly this standard extends the capabilities of the IEEE 1901.1-2018 Standard by adding RF PHY option. This solves the problems related to the constraints imposed by a topology of wired networks and provides a robust solution for all applications defined in the IEEE 1901.1-2018 Standard. This standard addresses low-voltage smart grid to utility meter and within home area networking communications scenarios. Lighting and photovoltaic system are also potential uses of this communications standard.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard specifies Data Link layer for a hybrid Physical Layer (PHY) comprised of the PHY for Power Line Communications (PLC) as defined in the IEEE Std 1901.1-2018 standard and a PHY for Radio Frequency (RF) communication technology based on Orthogonal Frequency Division Multiplexing (OFDM). This standard is applicable for smart grid, Photovoltaic Energy System, Vehicle-to-grid (V2G) applications, Smart Home/Building and other data distribution applications. This standard defines an interface to the PHY layers and a mechanism to switch data traffic between PLC and RF PHYs. The standard addresses the necessary security requirements that enable the use of this technology for mission critical and security sensitive services and applications.

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### ***New Standard***

BSR/IEEE 2819-202x, Recommended Practice for Measuring Electromagnetic Fields from Overhead Power Transmission Lines in Shared AC and DC Corridors (new standard)

Stakeholders: Electrical designing entities, Electrical projects construction entities, Manufacturers, Operation and maintenance entities of electrical facility, and other entities or organizations.

Project Need: There are more High Voltage Direct Current (HVDC) projects being designed these days, many of which are in shared AC corridors. This project will expand on the previous work and somewhat increase the scope to include HVDC lines in the 320 kV class that were previously excluded. Additionally, there will be a bit of harmonization with other IEEE Std documents (644, 1308, 1227).

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This document provides recommendations for electromagnetic field measurement locations, procedures, and results evaluation for corridors containing both alternating current (AC) and direct current (DC) overhead transmission lines. This document primarily addresses application of parallel AC and DC lines that are in close proximity either on separate or shared structures.

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### ***New Standard***

BSR/IEEE 3174-202x, Guide for Dynamic Rating of Underground Cable Systems (new standard)

Stakeholders: Manufacturers of distributed temperature measuring devices, software companies that provides calculation programs for underground cable systems, consultants, utilities.

Project Need: To collect all information necessary to properly design software algorithm for instantaneous and automatic evaluation of a cable system as well as its implementation in a utility network. It also advises on utility responsibilities and interfaces.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This document provides a number of concepts to consider when designing, installing, maintaining and operating a dynamic rating system for insulated power cables. This guide reviews the parameters that impact cable system thermal ratings and the risks associated with imperfect understanding of the actual field conditions. Many aspects of power cable systems related to dynamic thermal ratings including the cable construction, environment, physical installation arrangements, loading, and instrumentation are discussed.

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### ***New Standard***

BSR/IEEE 3195.1.2-202x, Standard for Person Ontology (new standard)

Stakeholders: Individuals, Personal Data System (PDS) providers, Vendors (who share data with individuals), Analytic providers, Verifiable Credential (VC) Issuers, Holders, and Verifiers, Governments seeking to interface with and empower their citizens, and other ecosystem entities.

Project Need: (a) Individuals need to make better use of their personal data and to share it with external organizations and other people, which a standard format will help enable. (b) Vendors need a standard format to provide data to, and receive it from, individuals. They would do so by mapping their disparate data models (just once) to this standard ontology and transforming their instance data into data that conforms. A vendor could be any entity from any industry that shares data with individuals as part of their product or service. For example, an individual shares their physical measurements, date of birth, and location with an online garment vendor who offers clothing that meets these needs. Some of the same data is also shared with a fitness service that provides conforming guidance data to the individual, who then shares back conforming exercise data (which may come from a conforming wearable device). (c) Some person-related terms already exist in P3195.1 Common Core Ontology (which includes terms used by multiple domains), but additional terms are needed that are too specific to the domain of the natural person to be included in P3195.1.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard specifies terms and definitions, and relationships amongst them, for the domain of the natural person. This ontology is expressed in a formal language that computers can process and is a conforming extension of P3195.1 (Standard for Common Core Ontology).



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***New Standard***

BSR/IEEE 3369-202x, Standard for testing of lightning-protective insulator of Overhead Transmission Lines (new standard)

Stakeholders: The stakeholders for the standard consist of Users, specifiers and manufacturers of lightning-protective insulators.

Project Need: There is currently no related standard about testing techniques of lightning-protective insulators, functionality, long-term performance and failure modes. To effectively define protection performance of lightning-protective insulators in preventing and controlling lightning failures on power grids, existing arrester and insulator tests need to be applied, new tests need to be added and a test program defined for the testing techniques of lightning-protective insulator need to be designed to meet the needs of AC power systems. Clear definition of the need for each test is required to serve as information for current users and to provide a historical record for future revisions of the standard and development of an application guide.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard describes the testing procedures for evaluating the flashover prevention of lightning-protective insulators caused by lightning on alternating current (AC) overhead transmission lines.

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***New Standard***

BSR/IEEE 3371-202x, Recommended practice for Coordinated Drive Systems for Electrical AC Motors Operating on Three Phase, 50 Hz or 60 Hz, 1000 V and Below for Pulp and Paper Industry Installations (new standard)

Stakeholders: Pulp and Paper Industries Mill owners and employees, manufacturers supplying equipment equipment to Pulp and Paper industries.

Project Need: The project is needed to assist users who specify, and manufacturers who supply coordinated drive systems to the Pulp and Paper Industry.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This recommended practice specifies coordinated drive systems for control of three-phase 50-Hz or 60-Hz electrical motors operating at 1000 V AC and below. The document addresses hardware, control, communication, performance testing, and their documentation. The document does not include:

- Fractional horsepower drives;
- Stand-alone drives (general purpose; example pumps, fans, etc.);
- Motors and specifications for motors.

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### ***New Standard***

BSR/IEEE 3372-202x, Guide for the Functional Specification of Arc Furnace Transformers: 10 MVA to 200 MVA, High Voltage 69 kV ac and below, Low Voltage 1250 V ac and below (new standard)

Stakeholders: Metal Industry, steel industry producers and designers, transformer manufacturers.

Project Need: The Guide will serve as a tool for users for specifying ac electric arc furnace transformers used in the Metal Industry to maximize productivity, reliability, maintainability, and safety. The IEEE IAS Metal Industry Committee's Standards Subcommittee identified the need for guidance to specify an AC arc furnace transformer.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This document provides guidelines for specification of an AC arc furnace transformer used in the Metal Industry. The user is provided guidance on electrical and mechanical characteristics, environmental conditions, accessories, protection methods, and factory and field testing for two winding, liquid-immersed transformers for an electric arc furnace. The informative annex provides guidance on engineering studies to evaluate the application and determine the appropriate specifications of the transformer. Examples of AC arc furnace transformer applications included in the annex illustrate the approach including lessons learned from past experiences. The guide enables users to modify or develop specific clauses to meet a particular ac arc furnace transformer application.

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### ***New Standard***

BSR/IEEE 80005-4-202x, Utility Connections in Port – Part 4: DC shore connection (DCSC) systems – General requirements (new standard)

Stakeholders: Port authorities, ship operators, consultants, equipment manufacturers

Project Need: More vessels are being designed for DC power systems. Those vessels are looking for direction when connecting to shore power. Our current standards address AC connections.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This part of IEC/IEEE 80005 describes low-voltage DC shore connection (DCSC) systems up to and including 1500 V DC. It applies onboard the ship and on shore, to supply the ship with electrical power from shore. This document is applicable to the design, installation and testing of DCSC systems and addresses:

- DC shore distribution systems,
- Shore-to-ship connection and interface equipment,
- Transformers,
- Semiconductor/rotating frequency converters,
- Ship distribution systems,
- Control, monitoring, interlocking and power management systems.

This document does not apply to the following:

- Electrical power supply during docking periods, for example dry docking and other out-of-service maintenance and repair,
- Power supply below 500 kW,
- Pleasure crafts up to and including 24 m.

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### **Revision**

BSR/IEEE C57.17-202x, Standard Requirements for Arc Furnace Transformers (revision of ANSI/IEEE C57.17-2012)

Stakeholders: The stakeholders are the steel production industry and power transformer manufacturers.

Project Need: This project is needed to update the old C57.17 standard, which was last revised in 2013. This project will correct errors and update the old standard to reflect current advancement in technologies and update the document format to align with current IEEE standard protocols.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard covers electrical characteristics and mechanical features of liquid-immersed transformers, used for directly supplying electric power to arc-melting furnaces (including rectifiers for arc-melting furnaces). All characteristics and definitions, except as specifically covered in this standard, shall be in accordance with the IEEE Requirements for Liquid-Immersed Distribution, Power, and Regulating Transformers (C57.12 Series).

## IEEE (Institute of Electrical and Electronics Engineers)

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### **New Standard**

BSR/IEEE C57.145-202x, Guide for Digital Twin Modeling and Analysis of Power Transformers with High Voltages 69 kV up to 161 kV (new standard)

Stakeholders: Companies in power and energy industry, enterprises engaged in data analysis, corporations in substation construction, education institution with department of electrical engineering, national energy administration.

Project Need: The need for the project is to develop requirements for devices to provide sufficient data for real-time substation power transformer digital twins. Power transformers are key to this development in the substation and this guide will provide the methodology and analysis of digital twin modeling and analysis based on data from power transformer instrumentation. Currently, most of the standards associated with power transformers focus on the modeling analysis and conditions of transformers based on the measured information without visualization of the operating conditions of the power transformer. This guide provides a perspective for power transformer modeling and analysis based on the digital twin technology, through the analysis of data from multiple sensors and over time.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide applies to digital twin modeling and analysis based on spatial-temporal data from power transformer instrumentation and processes. It covers deployment of data acquisition equipment, management of data, correlation of information-oriented architecture in the digital twin model, data processing to the digital model, and application services concerning the power transformer. This document specifically focuses on the spatial-temporal data structure, the unified characterization of virtual entities, the extraction of high-dimensional statistical indicators, and the construction of digital twin substation automation index systems.

**IEEE (Institute of Electrical and Electronics Engineers)**

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**Revision**

BSR/IEEE C57.156-202x, Guide for Tank Rupture Mitigation of Liquid-Immersed Power Transformers and Reactors (revision of ANSI/IEEE C57.156-2016)

Stakeholders: Transformer users and manufacturers, academic institutions.

Project Need: There is a need to describe the present state of knowledge of tank rupture prevention. There have been occurrences where in service electrical failures within the active part of liquid-immersed power transformers and reactors have resulted in tank rupture which has resulted in fluid loss, the loss of transformers and adjacent equipment through fire damage and in some cases environmental damage beyond the site perimeter. The guide will include descriptions of the relationship between voltage class, arc duration during internal faults, arc energy, hydraulic pressures and the modes of tank rupture. Further, there is a need to describe the methods that may reduce the risk of tank rupture such as external protection systems, limiting duration of fault energy, improved tank structural design, pressure relief systems, monitoring, signaling devices and fluid choices. At present, there is no IEEE standard or guide that addresses this topic.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide describes measures that may be taken to help mitigate tank rupture of energized liquid-immersed power transformers and reactors due to internal electrical faults. This guide does not cover the release of insulating fluid or insulating fluid mist due to failure of the following components: load tap changer compartments, bushings and their turrets, conservator tank, piping, valves, pumps, and radiators.

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**Revision**

BSR/IEEE C57.157-202x, Guide for Conducting Functional Life Tests on Switch Contacts Used in Insulating Liquid - Immersed Transformers (revision of ANSI/IEEE C57.157-2015)

Stakeholders: Tapchanger manufacturers, switch manufacturers, transformer manufacturers using switching devices, electric utilities and other transformer users, and consultants.

Project Need: Contact coking and thermal run-a-way of electrical contacts in liquid filled transformers are associated with unstable contacts. Reliable test methods to identify stable and unstable materials are described in this guide and provide repeatable conditions to simulate accelerated life conditions.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This guide establishes a methodology to evaluate expected long-term performance of infrequently operated switch contacts used within insulating liquid-immersed transformers. These switch contacts are typically found in de-energized tapchangers, dual voltage switches, reversing switches, on-load tapchangers, and step-voltage regulators, but the test might possibly be used to evaluate any contact that is used in insulating liquids with similar operating characteristics and within similar environments.

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### ***New Standard***

BSR/IEEE N42.323AB-202x, Radiation Protection Instrumentation Test and Calibration, Portable Survey Instruments (new standard)

Stakeholders: Instrument suppliers, calibration facilities users, and regulators

Project Need: Ensure proper instrument calibration.

Interest Categories: A subset of the interest categories on this list is expected to comprise the consensus body: <https://ieee.box.com/v/Interest-Categories>

This standard establishes calibration and calibration-related requirements for portable radiation protection instruments used for detection and measurement of levels of ionizing radiation fields or levels of radioactive surface contamination. For purposes of this standard, portable radiation protection instruments are those battery-powered instruments that are carried to a specific facility or location for use. Count rate meters and scalers, when used with an appropriate detection probe for quantifying activity, can be considered portable radiation protection instruments and are treated as a single unit for the purposes of this standard.

## IES (Illuminating Engineering Society)

Patricia McGillicuddy <[pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)> | 120 Wall Street, Floor 17 | New York, NY 10005-4001 [www.ies.org](http://www.ies.org)

### ***Revision***

BSR/IES LM-79-24-202x, Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products (revision of ANSI/IES LM-79-2019)

Stakeholders: Lighting Practitioners, electrical engineers, architects, interior designers, related people in the built environment areas, regulatory/code, luminaire manufacturers and trades, testing labs, optical and vision experts.

Project Need: This approved method describes the procedures to be followed and precautions to be observed in performing reproducible accurate measurements of total luminous, radiant, or photon flux; electrical power; system efficacy; luminous, radiant, or photon intensity distribution; and color quantities and/or spectrum of solid-state lighting (SSL) products for illumination purposes, under standard conditions. This approved method covers LED luminaires, OLED luminaires, integrated LED lamps, integrated OLED lamps, non-integrated LED lamps operated with a driver designated by a manufacturer's identification number or by a defined [ANSI] reference circuit, and LED light engines, all of which will be referred to as SSL products or device under test (DUT). SSL products, excluding non-integrated LED lamps, are intended to directly connect to AC mains power or to a DC voltage power supply to operate.

Interest Categories: USER: Specifier, USER-Public Interest, TEU: Testing Equipment User, TEM: Testing Equipment Manufacturer, GGR-Gen'l Int-Reg/Govt - General Interest, Regulatory, Government, GAR - Gen'l Int-Academic/Research, P-Producer.

This document is a revision of ANSI/IES LM-79-2019, Approved Method: Optical and Electrical and Photometric Measurements of Solid-State Lighting Products. Changes have been made to update information and provide better guidance based on information gathered from proficiency testing associated with laboratory accreditation and independent research. The updated requirements in this test method are intended to reduce the variation of measurement results across testing laboratories, while minimizing the burden on the testing laboratories. The method is based on absolute photometry addressing the requirements for optical and electrical measurement of solid-state lighting products.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 4005-1:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 1: Communication model and requirements (identical national adoption of ISO/IEC 4005-1:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Describes a communication model and requirements for unmanned aircraft area network (UAAN), which is a wireless distributed communication network for units related with UA services in level II. It describes: the communication structure and operation; the purpose of the three types of communication and related services; the interoperation of the three types of communication; the interworking with upper layers.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 4005-2:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 2: Physical and data link protocols for shared communication (identical national adoption of ISO/IEC 4005-2:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Describes communication protocols for the physical and data link layer of shared communication, which is a wireless distributed communication network for units related with UAs in level II. Physical layer includes frame structure, encoding procedure, physical layer procedure and coexistence operations. Data link layer includes channel and slot, resource management, broadcast and exchange of data, synchronization, security, and interface with upper layer and other communication layers.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 4005-3:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 3: Physical and data link protocols for control communication (identical national adoption of ISO/IEC 4005-3:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Specifies communication protocols for the physical and data link layer for control communication, which is wireless distributed communication network for units related with unmanned aircrafts (UAs) in level II. This document describes control communication, which is one-to-one communication between a UA and a controller.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 4005-4:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 4: Physical and data link protocols for video communication (identical national adoption of ISO/IEC 4005-4:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Specifies communication protocols for the physical and data link layer of video communication, which is a wireless distributed communication network for units related with unmanned aircrafts (UAs) in level II. This document describes video communication, which is one-to-one communication that transmits video from a UA to a video receiver. For the specific use of video communication, video can be transmitted from a UA to multiple receivers.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 5021-1:2023 [202x], Telecommunications and information exchange between systems - Wireless LAN access control - Part 1: Networking architecture (identical national adoption of ISO/IEC 5021-1:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Specifies a cloud AC based wireless local area network (WLAN) networking architecture, defines the cloud access controller dispatch platform (CADP) operating mechanism and the interaction between the network elements such as CADPs, access points (APs), cloud access controllers (ACs) and the WLAN network management system (NMS), and specifies the main functional requirements of each network element. This document applies to public WLAN networking scenarios.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 18033-5:2015/AM1:2021 [202x], Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers - Amendment 1: SM9 mechanism (identical national adoption of ISO/IEC 18033-5:2015/AM1:2021)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Amendment 1 to ISO/IEC 18033-5:2015.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 20008-2:2013/AM1:2021 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 1 (identical national adoption of ISO/IEC 20008-2:2013/AM1:2021)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Amendment 1 to ISO/IEC 20008-2:2013.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 20008-2:2013/AM2:2023 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 2 (identical national adoption of ISO/IEC 20008-2:2013/AM2:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Amendment 2 to ISO/IEC 20008-2:2013.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 29128-1:2023 [202x], Information security, cybersecurity and privacy protection - Verification of cryptographic protocols - Part 1: Framework (identical national adoption of ISO/IEC 29128-1:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Establishes a framework for the verification of cryptographic protocol specifications according to academic and industry best practices.



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

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**National Adoption**

BSR/INCITS/ISO/IEC 8183:2023 [202x], Information technology - Artificial intelligence - Data life cycle framework (identical national adoption of ISO/IEC 8183:2023)

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Defines the stages and identifies associated actions for data processing throughout the artificial intelligence (AI) system life cycle, including acquisition, creation, development, deployment, maintenance and decommissioning. This document does not define specific services, platforms or tools. This document is applicable to all organizations, regardless of type, size or nature, that use data in the development and use of AI systems.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 29134:2023 [202x], Information technology - Security techniques - Guidelines for privacy impact assessment (identical national adoption of ISO/IEC 29134:2023 and revision of INCITS/ISO/IEC 29134:2017 [2019])

Stakeholders: ICT Industry

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

Interest Categories: Producer-Hardware, Producer-Software, Producer-General, Distributor, Service Provider, User, Consultants, Government, SDO and Consortia, Academic Institution, General Interest

Guidelines for: a process on privacy impact assessments, and a structure and content of a PIA report. It is applicable to all types and sizes of organizations, including public companies, private companies, government entities and not-for-profit organizations. This document is relevant to those involved in designing or implementing projects, including the parties operating data processing systems and services that process PII.

**ITSDF (Industrial Truck Standards Development Foundation, Inc.)**

Christopher Merther <[chris.merther@itsdf.org](mailto:chris.merther@itsdf.org)> | 1750 K Street NW, Suite 460 | Washington, DC 20006 [www.indtrk.org](http://www.indtrk.org)

**Revision**

BSR/ITSDF B56.1-202x, Safety Standard for Low Lift and High Lift Trucks (revision of ANSI/ITSDF B56.1-2020)

Stakeholders: Users and manufacturers of low lift and high lift powered industrial trucks.

Project Need: Update requirements to state of the art.

Interest Categories: Users, manufacturers, general interest, regulatory

This Standard defines the safety requirements relating to the elements of design, operation, and maintenance of low lift and high lift powered industrial trucks controlled by a riding or walking operator, and intended for use on compacted, improved surfaces.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

Paul Orr <[Pau\\_orr@nema.org](mailto:Pau_orr@nema.org)> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 [www.nema.org](http://www.nema.org)

**Reaffirmation**

BSR C12.6-1987 (R202x), Phase-Shifting Devices Used In Metering, Marking and Arrangement of Terminals (reaffirmation of ANSI C12.6-1987 (R2016))

Stakeholders: Meter manufacturers, electrical utilities, and manufacturers of meter mounting and test equipment.

Project Need: Reaffirmation

Interest Categories: Users, Producers, and General Interest.

This specification applies to phase-shifting devices designed to provide the proper lagged voltages required for kvar and kVA measurement.

**NEMA (ASC C12) (National Electrical Manufacturers Association)**

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**Withdrawal**

BSR C12.8-1981 (R2021), Test Blocks and Cabinets for the Installation of Self-Contained A-Base Watthour Meters (withdrawal of ANSI C12.8-1981 (R2021))

Stakeholders: Meter manufacturers, meter mounting and test equipment manufacturers, and electrical utilities.

Project Need: C12.8 is being withdrawn as the one relevant figure has been relocated into C12.7 and the C12.8 document is now obsolete.

Interest Categories: Users, Producers, and General interest members.

This standard covers the dimensions and functions of test blocks and cabinets used with self-contained A-base watthour meters.

**OPEI (Outdoor Power Equipment Institute)**

Greg Knott <[gknott@opei.org](mailto:gknott@opei.org)> | 1605 King Street | Alexandria, VA 22314 [www.opei.org](http://www.opei.org)

**Reaffirmation**

BSR/OPEI B175.6-2018 (R202x), (Standard) for Outdoor Power Equipment - Internal Combustion Engine-Powered Hand-Held Hedge Trimmers - Safety and Environmental Requirements (reaffirmation of ANSI/OPEI B175.6-2018)

Stakeholders: Outdoor power equipment and hedge trimmer stakeholders including OEM producers & component suppliers, consumer users, retailers, testing organizations, government agencies and general interests.

Project Need: Reaffirm ANSI/OPEI B175.6-2018.

Interest Categories: OEM Producers, Supplier Producers, Consumer Users, Retailers, Testing Organizations, Government Agencies and General Interests

The requirements of this standard apply to internal combustion engine-powered hand-held hedge trimmers, extended-reach hedge trimmers and multi-purpose machines when configured as a hedge trimmer.

## **TCNA (ASC A108) (Tile Council of North America)**

Katelyn Simpson <[KSimpson@tileusa.com](mailto:KSimpson@tileusa.com)> | 100 Clemson Research Blvd. | Anderson, SC 29625 [www.tcnatile.com](http://www.tcnatile.com)

### **Revision**

BSR A138.1-202x, Green Squared (SM): Standard Specifications for Sustainable Ceramic Tiles, Glass Tiles, and Tile Installation Materials (revision of ANSI A138.1-2011 (R2021))

Stakeholders: Ceramic tile installers, contractors, and builders (labor interest category), related material manufacturers (manufacturing interest category), distributors, retailers and consumers (user interest category), and affiliated industries (i.g. stone) and other general interest users of this standard (general interest category).

Project Need: Various stakeholders have suggested that new and revised criteria should be addressed by this standard.

Interest Categories: Manufacturer, Labor, User, General Interest

This standard establishes a consistent approach to the evaluation and determination of environmentally preferable and sustainable ceramic tiles, glass tiles and tile installation materials. The standard includes relevant criteria across product life cycle from raw material extraction through manufacturing, use, and end-of-life management.

## **VITA (VMEbus International Trade Association (VITA))**

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### **Revision**

BSR/VITA 68.0-2022x, VPX Compliance Channel Standard (revision of ANSI/VITA 68.0-2017)

Stakeholders: Manufacturers and users of embedded VPX modules

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

Interest Categories: Producers, Users, General Interest

VITA 68.0 is the Base Standard of the VITA 68.x family of standards for signal integrity compliance of VPX systems and components. This standard provides an overview of the VITA 68.x family of standards and defines common requirements for VPX modules and VPX backplanes that apply across the range of VITA 68.x standards. This revision updates the VITA 68.x list of dot-specs and status to be current, and standardizes more terminology to be consistent with current standards.

## **VITA (VMEbus International Trade Association (VITA))**

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### **Revision**

BSR/VITA 68.1-202x, VPX Compliance Channel - Fixed Signal Integrity Budget Standard (revision of ANSI/VITA 68.1-2017)

Stakeholders: Manufacturers and users of embedded VPX modules

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

Interest Categories: Producers, Users, General Interest

This standard defines a VPX compliance channel fixed signal Integrity budget including module performance criteria and common backplane performance criteria required to support multiple fabric types across a range of defined baud rates. This allows backplane developers to design a VITA 68.1 compliant backplane that supports required bit error rates (BER) for multiple fabric types when used with modules that are compliant to VITA 68.1 budget criteria. This also allows module developers to design VITA 68.1 compliant Plug-In Modules that are interoperable with other VITA 68.1 compliant modules when used with a VITA 68.1 compliant backplane. VITA 68.1 defines a single budget encompassing modules and backplanes at various baud rates, with a "large system budget" that supports interoperability of VITA 68.1 compliant modules with any VITA 68.1-compliant backplane, including large slot count backplanes with relatively long traces. VITA 68.1 is part of the VITA 68.x family of standards for signal integrity compliance of VPX systems and components. Please refer to VITA 68.0 for an overview of the VITA 68.x family of standards. This revision incorporates the errata from the last revision, and standardizes more terminology to be consistent with current standards.

# Call for Comment on Standards Proposals

## American National Standards

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

### Ordering Instructions for "Call-for-Comment" Listings

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

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

\* Standard for consumer products

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## Comment Deadline: September 24, 2023

### IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

4043 South Eastern Avenue, Las Vegas, NV 89119 | [mwashington@iicrcnet.org](mailto:mwashington@iicrcnet.org), <https://www.iicrc.org>

#### Revision

BSR/IICRC S540-202x, Standard for Trauma and Crime Scene Cleanup (revision of ANSI/IICRC S540-2017)  
IICRC S540 Standard defines criteria and methodology used by the technician for inspecting and investigating blood and other potentially infectious material (OPIM) contamination and for establishing work plans and procedures. The Standard describes the procedures to be followed by professionals and the precautions to be taken when performing trauma and crime scene cleanup regardless of surface, item, or location. This standard assumes that all scenes have been released by law enforcement or regulatory agencies.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: <https://iicrc.org/s540/>

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [arose@nsf.org](mailto:arose@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 49-202x (i187r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)

This standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to Biosafety Levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this standard.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Allan Rose <[arose@nsf.org](mailto:arose@nsf.org)>

## Comment Deadline: September 24, 2023

### ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Julio.Morales@UL.org](mailto:Julio.Morales@UL.org), <https://ulse.org/>

#### ***New Standard***

BSR/UL 8802-202x, Standard for Safety for Ultraviolet (UV) Germicidal Equipment and Systems (new standard)

This proposal for UL 8802 covers updates to the 4-28-23 proposal for UL 8802, Ultraviolet (UV) Germicidal Equipment and Systems.

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

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

### ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | [Julio.Morales@UL.org](mailto:Julio.Morales@UL.org), <https://ulse.org/>

#### ***New Standard***

BSR/UL 8803-202x, Standard for Safety for Portable UV Germicidal Equipment with Uncontained UV Sources (new standard)

This proposal for UL 8803 covers updates to the 11-25-22 proposal for UL 8803, Portable UV Germicidal Equipment With Uncontained UV Sources.

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

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

### ULSE (UL Standards & Engagement)

100 Queen Street, Suite 1040, Ottawa, ON K1P 1J9 Canada | [sabrina.khreibtov@ul.org](mailto:sabrina.khreibtov@ul.org), <https://ulse.org/>

#### ***Revision***

BSR/UL 514C-202X, Standard for Safety for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers (revision of ANSI/UL 514C-2020)

1. Addition of requirements for Deck Boxes and Rooftop Deck Boxes.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Sabrina Khreibtov, [sabrina.khreibtov@ul.org](mailto:sabrina.khreibtov@ul.org)

### ULSE (UL Standards & Engagement)

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

#### ***Revision***

BSR/UL 719-202X, Standard for Safety for Nonmetallic-Sheathed Cables (revision of ANSI/UL 719-2023)

Tag Marking, New 6.21 (f) and Revised 6.2.3 and 6.2.9.

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

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

## Comment Deadline: September 24, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 746B-202x, Standard for Safety for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2022)

This proposal involves the addition of requirements for Heat Aging of Polymeric Films and Thin Sheets in a New Subsection 21.4 and Table 21.6. This proposal was originally proposed by ULSE on March 10, 2023.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 854-202X, Standard for Safety for Service-Entrance Cables (revision of ANSI/UL 854-2023)  
Tag Marking, Revised 45.5 and Addition of New 47.1 (k).

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

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

### ULSE (UL Standards & Engagement)

333 Pfungsten Road, Northbrook, IL 60062-2096 | [Amy.K.Walker@ul.org](mailto:Amy.K.Walker@ul.org), <https://ulse.org/>

#### Revision

BSR/UL 1026-202x, Standard for Safety for Electric Household Cooking Appliances (revision of ANSI/UL 1026-2021)

This proposal for UL 1026 covers: (2) Clarify Strain Relief Test Requirement.

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 1581-202X, Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords (revision of ANSI/UL 1581-2022)

Update outside references throughout the standard and add new 3.2 to clarify that “Elongation” and “Ultimate Elongation” are interchangeable.

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

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

## Comment Deadline: October 9, 2023

### **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

#### **Revision**

BSR/AAMI ST58-202x, Chemical sterilization and high-level disinfection in health care facilities (revision of ANSI/AAMI ST58-2013 (R2018))

This standard provides guidelines for the selection and use of liquid chemical sterilants (LCSs)/high-level disinfectants (HLDs) and gaseous chemical sterilizers that have been cleared for marketing by the U.S. Food and Drug Administration (FDA) for use in hospitals and other health care facilities. These guidelines are intended to assist health care personnel in the safe and effective use of gaseous chemical sterilizing systems, LCSs/HLDs, and associated equipment.

Single copy price: Free

Obtain an electronic copy from: [tkim@aami.org](mailto:tkim@aami.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Thomas Kim, [tkim@aami.org](mailto:tkim@aami.org)

### **ANS (American Nuclear Society)**

555 North Kensington Avenue, La Grange Park, IL 60526 | [kmurdoch@ans.org](mailto:kmurdoch@ans.org), [www.ans.org](http://www.ans.org)

#### **New Standard**

BSR/ANS 20.2-202x, Nuclear Safety Design Criteria and Functional Performance Requirements for Liquid-Fuel Molten Salt Reactor Nuclear Power Plants (new standard)

This standard establishes the nuclear safety design criteria and functional performance requirements for liquid-fuel molten salt reactor nuclear power plants. The document uses performance-based, risk-informed criteria wherever possible. It also describes the design process to be followed to establish those criteria and perform structures, systems, and component classifications.

Single copy price: \$50.00

Obtain an electronic copy from: [orders@ans.org](mailto:orders@ans.org)

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

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 10th Circle N, Nashville, TN 37203 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

#### **Reaffirmation**

BSR CGATS.5-2018 (R202x), Graphic technology - Spectral measurement and colorimetric computation for graphic arts images (reaffirm a national adoption ANSI CGATS.5-2018)

This standard establishes procedures for the measurements and colorimetric computations appropriate to objects that reflect, transmit, or self-illuminate, including flat-panel displays. It also establishes procedures for computation of colorimetric parameters for graphic arts images. Graphic arts include, but is not limited to, the preparation of material for, and volume production by, production printing processes that include offset lithography, letterpress, flexography, gravure and screen printing. This standard does not address spectral measurements appropriate to other specific application needs, such as those used during the production of materials, e.g., printing ink, printing paper and proofing media.

Single copy price: \$55.00

Obtain an electronic copy from: [dorf@aptech.org](mailto:dorf@aptech.org)

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

## Comment Deadline: October 9, 2023

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

180 Technology Parkway, Peachtree Corners, GA 30092 | [cking@ashrae.org](mailto:cking@ashrae.org), [www.ashrae.org](http://www.ashrae.org)

#### **Revision**

BSR/ASHRAE Standard 41.1-202xR, Standard Methods for Temperature Measurement (revision of ANSI/ASHRAE Standard 41.1-2020)

This revision of ANSI/ASHRAE Standard 41.1-2020 prescribes methods for measuring temperature under laboratory and field conditions.

Single copy price: \$35.00

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

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

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

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

#### **Revision**

BSR/ASME PTC 25-202x, Performance Test Codes - Pressure Relief Devices (revision of ANSI/ASME PTC 25-2018)

This Code provides standards for conducting and reporting tests on reclosing and nonreclosing pressure relief devices normally used to terminate an abnormal internal or external rise in pressure above a predetermined design value in boilers, pressure vessels, and related piping equipment. This Code covers the methods and procedures to determine relieving capacity and additional operating characteristics which may be required for certification or other purposes by other codes.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Colleen Rodrigues <[obrienc@asme.org](mailto:obrienc@asme.org)>

### **AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [mdiaz@aws.org](mailto:mdiaz@aws.org), [www.aws.org](http://www.aws.org)

#### **Revision**

BSR/AWS D17.1/D17.1M-202x, Specification for Fusion Welding for Aerospace Applications (revision of ANSI/AWS D17.1/D17.1M-2017-AMD2)

This specification provides the general welding requirements for welding aircraft and space hardware. It includes but is not limited to the fusion welding of aluminum-based, nickel-based, iron-based, cobalt-based, magnesium-based, and titanium-based alloys using electric arc and high energy beam processes. There are requirements for welding design, personnel and procedure qualification, fabrication, inspection, and acceptance criteria for aerospace, support, and nonflight hardware. Additional requirements cover repair welding of existing hardware. A commentary for the specification is included.

Single copy price: \$Member Price: 70 Non-Member Price: 90

Obtain an electronic copy from: [mdiaz@aws.org](mailto:mdiaz@aws.org)

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



## Comment Deadline: October 9, 2023

### **AWS (American Welding Society)**

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | [sborrero@aws.org](mailto:sborrero@aws.org), [www.aws.org](http://www.aws.org)

#### **Revision**

BSR/AWS G2.5/G2.5M-202x, Guide for the Fusion Welding of Zirconium and Zirconium Alloys (revision of ANSI/AWS G2.5/G2.5M-2012)

The standard Guide for the Fusion Welding of Zirconium and Zirconium Alloys provides instructional guidance for the welding of zirconium and zirconium alloys. This guide explains processes, equipment, materials, workshop practices, joint preparation, welding techniques, tests, and the repair of discontinuities.

Single copy price: \$28.00

Obtain an electronic copy from: [sborrero@aws.org](mailto:sborrero@aws.org)

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

### **CTA (Consumer Technology Association)**

1919 South Eads Street, Arlington, VA 22202 | [cakers@cta.tech](mailto:cakers@cta.tech), [www.cta.tech](http://www.cta.tech)

#### **New Standard**

BSR/CTA 2116-202x, CTA Artificial Intelligence in Health Care-Practices for Identifying and Managing Bias (new standard)

This voluntary standard identifies types of bias, sources of bias, and bias management practices for health care applications of Artificial Intelligence (AI). This field is rapidly changing, and this document represents common practices at the time of publication.

Single copy price: Free

Obtain an electronic copy from: [standards@cta.tech](mailto:standards@cta.tech)

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

### **DMSC (Digital Metrology Standards Consortium, Inc.)**

3245 Latta Road, No. 16595, Rochester, NY 14616 | [mark.thomas@qifstandards.org](mailto:mark.thomas@qifstandards.org), [www.dmis.org](http://www.dmis.org)

#### **New Standard**

BSR/DMSC MBC v1.0-202x, Model-Based Characteristics v1.0 - Persistent Identification and Related Digital Practices (new standard)

This Model-Based Characteristic (MBC) standard was developed by domain experts from the manufacturing quality community representing a wide variety of industries and quality measurement needs. This Model-Based Characteristics (MBC) standard defines nomenclature, definitions, symbols, data structures, and practices for identifying, communicating, and exchanging model-based characteristics with various optional augmentations through both a logical data model and supporting documentation. Specifically, this standard provides a common approach for tagging and uniquely identifying product characteristics that are of interest for the product realization process. Product characteristic tagging is primarily used for identifying a list of characteristics required to verify and accept product. Additionally, it can enable explicit referencing for product definition, change control, reporting on product non-conformance, and obfuscating confidential or classified product definition information. Moreover, this standard provides optional augmentations for communicating criticality classifications, product requirement associations, and verification plan requirements. Finally, this standard shall be applicable for both human-readable communication and machine-readable applications that can enable the digital thread.

Single copy price: \$This draft standard is available free of charge to all (190 pages).

Obtain an electronic copy from: [mark.thomas@qifstandards.org](mailto:mark.thomas@qifstandards.org)

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

## Comment Deadline: October 9, 2023

### **NECA (National Electrical Contractors Association)**

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | [Kyle.Krueger@necanet.org](mailto:Kyle.Krueger@necanet.org), [www.neca-neis.org](http://www.neca-neis.org)

#### **Revision**

BSR/NECA/FOA 301-202X, Standard for Installing and Testing Fiber Optic Cables (revision of ANSI/NECA/FOA 301-2016)

This standard describes the procedures for installing and testing cabling networks that use fiber optic cable and related components to carry signals for communications, security, control and similar purposes. It defines a minimum level of quality for fiber optic cable installations.

Single copy price: Members; \$30.00 / Nonmembers \$60.00

Obtain an electronic copy from: [NEIS@NECANet.org](mailto:NEIS@NECANet.org) OR <https://neca-neis.org/about-neis/neis-review>

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

### **NENA (National Emergency Number Association)**

1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | [crm@nena.org](mailto:crm@nena.org), [www.nena.org](http://www.nena.org)

#### **New Standard**

BSR/NENA STA-045.1-202x, NENA Standard for 911/988 Interactions (new standard)

This standard provides recommendations and best practices to help callers who are experiencing mental health crises. It outlines operational and technical considerations for ECCs/PSAPs to establish an effective working relationship with the 988 community.

Single copy price: Free

Obtain an electronic copy from: Download and submit comments at [https://dev.nena.org/higherlogic/ws/public/document?document\\_id=30125&wg\\_id=212e795e-8c7f-4ba9-81a9-6c57d268980e](https://dev.nena.org/higherlogic/ws/public/document?document_id=30125&wg_id=212e795e-8c7f-4ba9-81a9-6c57d268980e)

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

### **NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **New Standard**

BSR/NFPA 1321-202x, Standard for Fire Investigation Units (new standard)

1.1 Scope. This standard shall cover the minimum requirements relating to the establishment, structure, operation, and management of fire investigation units (FIUs). This standard shall not provide requirements relating to fire investigation methodology. This standard shall not provide requirements relating to professional qualifications of fire investigators.

Obtain an electronic copy from: [www.nfpa.org/1321Next](http://www.nfpa.org/1321Next)

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

### **NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 12-202x, Standard on Carbon Dioxide Extinguishing Systems (revision of ANSI/NFPA 12-2022)

1.1 Scope. This standard contains minimum requirements for carbon dioxide fire-extinguishing systems. This standard includes only the necessary essentials to make it workable in the hands of those skilled in this field.

Obtain an electronic copy from: [www.nfpa.org/12Next](http://www.nfpa.org/12Next)

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

## Comment Deadline: October 9, 2023

### **NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 12A-202x, Standard on Halon 1301 Fire Extinguishing Systems (revision of ANSI/NFPA 12A-2022)

This standard contains minimum requirements for total flooding Halon 1301 fire extinguishing systems. It includes only the essentials necessary to make the standard workable in the hands of those skilled in this field. Only those skilled in this work are competent to design, install, maintain, decommission, and remove this equipment. It might be necessary for many of those charged with purchasing, inspecting, testing, approving, operating, and maintaining this equipment to consult with an experienced and competent fire protection engineer to effectively discharge their respective duties. (See Annex C.)

Obtain an electronic copy from: [www.nfpa.org/12aNext](http://www.nfpa.org/12aNext)

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

### **NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 804-202x, Standard for Fire Protection for Advanced Light Water Reactor Electric Generating Plants (revision of ANSI/NFPA 804-2020)

This standard applies only to advanced light water reactor electric generating plants & provides minimum fire protection requirements to ensure safe shutdown of the reactor, minimize the release of radioactive materials to the environment, provide safety to life of on-site personnel, limit property damage, and protect continuity of plant operation. The fire protection is based on the principle of defense-in-depth. For plants that have adopted a risk-informed, performance-based approach to fire protection, subsequent changes to the fire protection program shall be made in accordance with NFPA 806, Performance-Based Standard for Fire Protection for Advanced Nuclear Reactor Electric Generating Plants Change Process. It does not address water-moderated or water-cooled nuclear reactors used for training, testing, experimental purposes or the production of special nuclear materials as defined in the Atomic Energy Act of 1954, as amended. Refer to NFPA 801, Standard for Fire Protection for Facilities Handling Radioactive Materials. This standard does not address light water nuclear power plants with construction permits issued prior to January 1, 1979. An advanced nuclear reactor electric generator station that has opted to use a risk-informed, performance-based approach to fire protection will use NFPA 806,

Performance-Based Standard for Fire....

Obtain an electronic copy from: [www.nfpa.org/804Next](http://www.nfpa.org/804Next)

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

### **NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02169 | [dbellis@nfpa.org](mailto:dbellis@nfpa.org), [www.nfpa.org](http://www.nfpa.org)

#### **Revision**

BSR/NFPA 2001-202x, Standard on Clean Agent Fire Extinguishing Systems (revision of ANSI/NFPA 2001-2022)

1.1 Scope. This standard contains minimum requirements for the design, installation, approval, and maintenance of total-flooding and local-application fire-extinguishing systems that use one of the gaseous agents in Table . Table Agents Addressed in NFPA 2001 [See Table in NFPA 10]. The scope of this standard does not include fire-extinguishing systems that use carbon dioxide or water as the primary extinguishing media, which are addressed by other NFPA documents.

Obtain an electronic copy from: [www.nfpa.org/2001Next](http://www.nfpa.org/2001Next)

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

## Comment Deadline: October 9, 2023

### NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [jsnider@nsf.org](mailto:jsnider@nsf.org), [www.nsf.org](http://www.nsf.org)

#### Revision

BSR/NSF 14-202x (i136r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2022)

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/higherlogic/ws/public/document?document\\_id=70130&wg\\_id=f68fe01b-2243-49ca-94d5-018976f8adf9](https://standards.nsf.org/higherlogic/ws/public/document?document_id=70130&wg_id=f68fe01b-2243-49ca-94d5-018976f8adf9)

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

### PGMA (Portable Generator Manufacturers Association)

1300 Sumner Avenue, Cleveland, OH | [hdarrah@thomasamc.com](mailto:hdarrah@thomasamc.com), [www.pgmaonline.com](http://www.pgmaonline.com)

#### Revision

BSR/PGMA G300-202x, Safety and Performance of Portable Generators (revision of ANSI/PGMA G300-2018)

This standard applies to 15 kW or smaller; single-phase; 300 V or lower; 60-hertz; gasoline, liquefied petroleum gas (LPG), natural gas (NG), and diesel portable generators intended for multiple use and intended to be moved, though not necessarily with wheels. They are provided with receptacle outlets for alternating current (AC) output circuits. This standard does not apply to permanent stationary generators, 50-hertz generators, marine generators, trailer-mounted generators, generators permanently mounted in motor homes and recreational vehicles, generators intended to be pulled by vehicles, and welding power sources.

Single copy price: Free

Obtain an electronic copy from: [hdarrah@thomasamc.com](mailto:hdarrah@thomasamc.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [hdarrah@thomasamc.com](mailto:hdarrah@thomasamc.com)

### TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### New Standard

BSR A108.M-202x, General Requirements: Materials and Standards for the Installation of Tile (new standard)

This specification is intended to provide a list of standards and materials used for the installation of ceramic and glass tile.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### New Standard

BSR A108.T-202x, Terminology of Tile Assemblies (new standard)

This standard is intended to define terms commonly used in the ANSI A118, A136, and A137 series of product specifications and ANSI A108 series of installation standards.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

## Comment Deadline: October 9, 2023

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.01-202x, General Requirements: Structures, Substrates, and Preparation for Tile (revision of ANSI A108.01-2021a)

These specifications serve as a reference standard for design professionals, general contractors, and building owners when specifying structures, substrates, and preparation where ceramic or glass tile is the finish surface.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.1A-202x, Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar (revision of ANSI A108.1A-2017 (R2022))

This specification covers the installation of ceramic tile in the wet-set method, with portland cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.02-202x, General Requirements: Workmanship for Tile Installation (revision of ANSI A108.02-2019)

These specifications serve as a reference standard for design professionals, general contractors, tile contractors, and building owners where ceramic tile or glass tile is the finish surface. These specifications are also a reference standard for products used in the installation of ceramic or glass tile.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.4-202x, Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive (revision of ANSI A108.4-2019)

This standards covers the installation of ceramic tile using organic adhesives or water cleanable tile-setting epoxy adhesives.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

## Comment Deadline: October 9, 2023

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.5-202x, Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar (revision of ANSI A108.5-2021)

This standard outlines the guidelines for installation of ceramic tile with dry-set cement mortar, modified dry-set cement mortar, EGP modified dry-set cement mortar, and improved modified dry-set cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.6-202x, Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and - Grouting Epoxy (revision of ANSI A108.6-1999 (R2019))

This method covers the installation of ceramic tile with chemical-resistant, water-cleanable tilesetting and - grouting epoxy.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.9-202x, Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout (revision of ANSI A108.9-1999 (R2019))

This standard covers the installation of ceramic tile with modified emulsion mortar/grout.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A108.12-202x, Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Modified Dry-set Mortar (revision of ANSI A108.12-1999 (R2019))

This standard covers the installation of ceramic tile with exterior glue plywood (EGP) modified dry-set cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

## Comment Deadline: October 9, 2023

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A118.1-202x, Specifications for Dry-Set Cement Mortar (revision of ANSI A118.1-2019)

This specification describes the test methods and the minimum requirements for standard dry-set cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A118.4-202x, Specifications for Modified Dry-Set Cement Mortar (revision of ANSI A118.4-2019)

This specification describes the test methods and the minimum requirements for modified dry-set cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **TCNA (ASC A108) (Tile Council of North America)**

100 Clemson Research Blvd., Anderson, SC 29625 | [KSimpson@tileusa.com](mailto:KSimpson@tileusa.com), [www.tcnatile.com](http://www.tcnatile.com)

#### **Revision**

BSR A118.15-202x, Specifications for Improved Modified Dry-Set Cement Mortar (revision of ANSI A118.15-2019)

This specification describes the test methods and the minimum requirements for improved modified dry-set cement mortar.

Single copy price: \$20.00

Obtain an electronic copy from: [ksimpson@tileusa.com](mailto:ksimpson@tileusa.com)

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

### **ULSE (UL Standards & Engagement)**

333 Pflugsten Road, Northbrook, IL 60062-2096 | [Heather.Sakellariou@ul.org](mailto:Heather.Sakellariou@ul.org), <https://ulse.org/>

#### **Reaffirmation**

BSR/UL 2560-2018 (R202x), Standard for Safety for Emergency Call Systems for Assisted Living and Independent Living Facilities (reaffirmation of ANSI/UL 2560-2018)

The following is being proposed for review: (1) Reaffirmation and continuance of the First Edition of the Standard for Safety for Emergency Call Systems for Assisted Living and Independent Living Facilities, UL 2560, as an standard.

Single copy price: Free

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

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

## Comment Deadline: October 9, 2023

### ULSE (UL Standards & Engagement)

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

#### Reaffirmation

BSR/UL 62109-1-2014a (R202x), Standard for Safety of Power Converters for Use in Photovoltaic Power Systems - Part 1: General Requirements (reaffirmation of ANSI/UL 62109-1-2014a (R2019))

Reaffirmation and continuance of the First Edition of the Standard for Safety of power converters for use in photovoltaic power systems - Part 1: General requirements, UL 62109-1, as a standard

Single copy price: Free

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

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

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 19-202x, Standard for Lined Fire Hose and Hose Assemblies (revision of ANSI/UL 19-2018)

(1) Additional Fire Hose Trade Sizes, Internal and Outside Diameter Requirements, Additional Hose Pressure Options, Product Specification Sheet Requirements, and Other Clarifications/Corrections; (2) Editorial revisions.

Single copy price: Free

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

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

## Comment Deadline: October 24, 2023

### ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062 | [megan.monsen@ul.org](mailto:megan.monsen@ul.org), <https://ulse.org/>

#### New Standard

BSR/UL 2750-202x, Standard for Safety for Wireless Power Transfer Equipment for Electric Vehicles (new standard)

The Proposed First Edition of the Standard for Wireless Power Transfer Equipment for Electric Vehicles, UL 2750, covers wireless power transfer (WPT) equipment for transferring power to a stationary electric vehicle. WPT equipment consists of two devices, the power source and a ground assembly, as a minimum. The WPT equipment may also be provided with a third device, the mating vehicle assembly. These requirements are also suitable for covering each individual device as a stand-alone product. This equipment is intended to have a maximum rated input voltage to the power source of 1000 V ac, 50 or 60 Hz. The output ratings are specified by the manufacturer.

Single copy price: Free

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

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



## Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject. Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to ([psa@ansi.org](mailto:psa@ansi.org)).

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 10th Circle N, Nashville, TN 37203 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

#### **Reaffirmation**

CGATS/GRACoL TR 006-2016 (R202x), Graphic technology - Color characterization data for GRACoL proofing and printing on U.S. Grade 1 coated paper (reaffirmation of technical report CGATS GRACoL TR 006-2016)

This Technical Report provides color characterization data (the relationship between CMYK printing values and measured color on the printed sheet) for proofing and for sheet-fed printing on U.S. Grade 1 coated papers (ISO 12647-2, paper type 1).

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Debra Orf <[dorf@aptech.org](mailto:dorf@aptech.org)>

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 10th Circle N, Nashville, TN 37203 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

#### **Reaffirmation**

CGATS/SNAP TR 002-2015 (R202x), Graphic technology - Color characterization data for coldset printing on newsprint (reaffirmation of technical report CGATS SNAP TR 002-2015)

This Technical Report provides color characterization data (the relationship between CMYK printing values and measured color on the printed sheet) for cold-set printing on newsprint performed in accordance with the SNAP Specifications.

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Debra Orf <[dorf@aptech.org](mailto:dorf@aptech.org)>

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 10th Circle N, Nashville, TN 37203 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

#### **Reaffirmation**

CGATS/SWOP TR 003-2016 (R202x), Graphic technology - Color characterization data for SWOP proofing and printing on U.S. Grade 3 coated publication paper (reaffirmation of technical report CGATS SWOP TR 003-2016)

This Technical Report provides color characterization data (the relationship between CMYK printing values and measured color on the printed sheet) for proofing and sheet or web offset printing of publication input materials on U.S. Grade 3 coated publication paper performed in accordance with the SWOP Specifications.

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Debra Orf <[dorf@aptech.org](mailto:dorf@aptech.org)>

## Technical Reports Registered with ANSI

### **APTech (ASC CGATS) (Association for Print Technologies)**

450 10th Circle N, Nashville, TN 37203 | [dorf@aptech.org](mailto:dorf@aptech.org), [www.printtechnologies.org](http://www.printtechnologies.org)

#### **Reaffirmation**

CGATS/SWOP TR 005-2016 (R202x), Graphic technology - Color characterization data for SWOP proofing and printing on U.S. Grade 5 coated publication paper (reaffirmation of technical report CGATS SWOP TR 005-2016) This Technical Report provides color characterization data (the relationship between CMYK printing values and measured color on the printed sheet) for proofing and sheet or web offset printing of publication input materials on U.S. Grade 5 coated publication paper performed in accordance with the SWOP Specifications.

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Debra Orf <[dorf@aptech.org](mailto:dorf@aptech.org)>

## Project Withdrawn

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

### **ACCT (Association for Challenge Course Technology)**

PO Box 19797, Boulder, CO 80308 | [John@ACCTinfo.org](mailto:John@ACCTinfo.org), [www.acctinfo.org](http://www.acctinfo.org)

BSR/ACCT 03-202X, Challenge Course and Canopy/Zip Line Tour Standards (revision of ANSI/ACCT 03-2019)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: John Voegtlin <[John@ACCTinfo.org](mailto:John@ACCTinfo.org)>

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | [kbest@ahrinet.org](mailto:kbest@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI 1431 (SI)-202x, Demand Response for Electric Water Heaters (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Kristin Carlson <[kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)>

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

2311 Wilson Boulevard, Suite 400, Arlington, VA 22201-3001 | [kbest@ahrinet.org](mailto:kbest@ahrinet.org), [www.ahrinet.org](http://www.ahrinet.org)

BSR/AHRI Standard 1230-202x (I-P) with Addendum 1, Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-conditioning and Heat Pump Equipment (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Kristin Carlson <[kcarlson@ahrinet.org](mailto:kcarlson@ahrinet.org)>

# Final Actions on American National Standards

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

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## ADA (American Dental Association)

211 East Chicago Avenue, Chicago, IL 60611-2678 | [bralowerp@ada.org](mailto:bralowerp@ada.org), [www.ada.org](http://www.ada.org)

ANSI/ADA Standard No. 165-2023, Dentistry- Vocabulary for CAD/CAM Systems (national adoption with modifications of ISO 18739:2016; ISO TR/22710:2019) Final Action Date: 8/21/2023 | *National Adoption*

## ASME (American Society of Mechanical Engineers)

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | [ansibox@asme.org](mailto:ansibox@asme.org), [www.asme.org](http://www.asme.org)

ANSI/ASME A13.1-2023, Scheme for the Identification of Piping Systems (revision of ANSI/ASME A13.1-2020) Final Action Date: 8/18/2023 | *Revision*

ANSI/ASME AED-1-2023, Aerospace and Advanced Engineering Drawings (revision of ANSI/ASME AED-1-2018) Final Action Date: 8/18/2023 | *Revision*

ANSI/ASME HST-2-2023, Performance Standard for Hand Chain Manually Operated Chain Hoists (revision of ANSI/ASME HST-2-2018) Final Action Date: 8/18/2023 | *Revision*

ANSI/ASME TES-1-2023, Safety Standard for Thermal Energy Storage Systems: Molten Salt (revision of ANSI/ASME TES-1-2020) Final Action Date: 8/21/2023 | *Revision*

## ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | [accreditation@astm.org](mailto:accreditation@astm.org), [www.astm.org](http://www.astm.org)

ANSI/ASTM F963-2023a, Consumer Safety Specification for Toy Safety (revision of ANSI/ASTM F963-2023) Final Action Date: 8/1/2023 | *Revision*

ANSI/ASTM F2508-2023, Practice for Validation, Calibration, and Certification of Walkway Tribometers Using Reference Surfaces (revision of ANSI/ASTM F2508-2016E1) Final Action Date: 8/15/2023 | *Revision*

## B11 (B11 Standards, Inc.)

P.O. Box 690905, Houston, TX 77269 | [cfelinski@b11standards.org](mailto:cfelinski@b11standards.org), <https://www.b11standards.org/>

ANSI B11.20-2017 (R2023), Safety Requirements for the Integration of Machinery into a systems (reaffirmation of ANSI B11.20-2017) Final Action Date: 8/17/2023 | *Reaffirmation*

## CSA (CSA America Standards Inc.)

8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org), [www.csagroup.org](http://www.csagroup.org)

ANSI Z21.66-2023, Automatic damper devices for use with gas-fired appliances (same as CSA 6.14) (revision of ANSI Z21.66-2015 (R2020)) Final Action Date: 8/17/2023 | *Revision*

ANSI/CSA Z83.7/CSA 2.14-2023, Gas-fired construction heaters (same as CSA 2.14) (revision and redesignation of ANSI Z83.7-2017) Final Action Date: 8/17/2023 | *Revision*

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | [terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org), [www.asse-plumbing.org](http://www.asse-plumbing.org)

ANSI/ASSE 1024-2023, Performance Requirements for Dual Check Backflow Preventers (revision of ANSI/ASSE 1024-2017 (R2021)) Final Action Date: 8/17/2023 | *Revision*

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | [terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org), [www.asse-plumbing.org](http://www.asse-plumbing.org)

ANSI/ASSE 1032-2023, Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers, Post Mix Type, and Non-Carbonated Beverage Dispensers (revision of ANSI/ASSE 1032-2011 (R2021)) Final Action Date: 8/17/2023 | *Revision*

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

INCITS/ISO/IEC 14776-112:2002 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 112: Parallel Interface-2 (SPI-2) (reaffirmation of INCITS/ISO/IEC 14776-112:2002 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-153:2015 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 153: Serial Attached SCSI - 2.1 (SAS-2.1) (reaffirmation of INCITS/ISO/IEC 14776-153:2015 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-222:2005 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 222: Fibre Channel Protocol for SCSI, Second Version (FCP-2) (reaffirmation of INCITS/ISO/IEC 14776-222:2005 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-326:2015 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 326: Reduced block commands (RBC) (reaffirmation of INCITS/ISO/IEC 14776-326:2015 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-331:2002 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 331: Stream Commands (SSC) (reaffirmation of INCITS/ISO/IEC 14776-331:2002 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-351:2007 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 351: Medium Changer Commands (SCSI-3 SMC) (reaffirmation of INCITS/ISO/IEC 14776-351:2007 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-362:2006 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 362: Multimedia commands-2 (MMC-2) (reaffirmation of INCITS/ISO/IEC 14776-362:2006 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

INCITS/ISO/IEC 14776-412:2006 [R2023], Information technology - Small Computer System Interface (SCSI) - Part 412: Architecture Model -2 (SAM-2) (reaffirmation of INCITS/ISO/IEC 14776-412:2006 [2018]) Final Action Date: 8/17/2023 | *Reaffirmation*

**NEMA (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | [zijun.tong@nema.org](mailto:zijun.tong@nema.org), [www.nema.org](http://www.nema.org)

ANSI/NEMA KS 3-2023, Guidelines for Inspection and Preventive Maintenance of Switches Used in Commercial and Industrial Applications (new standard) Final Action Date: 8/15/2023 | *New Standard*

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [jsnider@nsf.org](mailto:jsnider@nsf.org), [www.nsf.org](http://www.nsf.org)

ANSI/NSF 41-2023 (i15r1), Nonliquid Saturated Treatment Systems (revision and redesignation of ANSI/NSF 41-2022) Final Action Date: 8/16/2023 | *Revision*

**ULSE (UL Standards & Engagement)**

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

ANSI/UL 22-2010 (R2023), Standard for Amusement and Gaming Machines (reaffirmation of ANSI/UL 22-2010 (R2019))

Final Action Date: 8/16/2023 | *Reaffirmation*

ANSI/UL 268A-2023, Standard for Smoke Detectors for Duct Application (revision of ANSI/UL 268A-2020) Final Action

Date: 8/22/2023 | *Revision*

ANSI/UL 498D-2023a, The Standard for Safety for Attachment Plugs, Cord Connectors and Receptacles with Arcuate

(Locking Type) Contacts (revision of ANSI/UL 498D-2023) Final Action Date: 8/15/2023 | *Revision*

ANSI/UL 498F-2023a, The Standard for Safety for Plugs, Socket-Outlets and Couplers with Arcuate (Locking Type)

Contacts (revision of ANSI/UL 498F-2023) Final Action Date: 8/15/2023 | *Revision*

ANSI/UL 1479-2023, Standard for Fire Tests of Penetration Firestops (revision of ANSI/UL 1479-2021) Final Action

Date: 8/15/2023 | *Revision*

ANSI/UL 4200A-2023, UL Standard for Safety for Products Incorporating Button Batteries or Coin Cell Batteries

(revision of ANSI/UL 4200A-2021) Final Action Date: 8/15/2023 | *Revision*

# Call for Members (ANS Consensus Bodies)

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

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## ANSI Accredited Standards Developer

### INCITS Executive Board – ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum of choice for information technology developers, producers and users for the creation and maintenance of formal de jure IT standards. INCITS' mission is to promote the effective use of Information and Communication Technology through standardization in a way that balances the interests of all stakeholders and increases the global competitiveness of the member organizations.

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- Producer-Hardware
- Distributor
- Service Provider
- Users
- Consultants
- Government
- SDO and Consortia Groups
- Academia
- General Interest

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures.

More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

## **ANSI Accredited Standards Developer**

### **APCO - Association of Public-Safety Communications Officials-International**

Call for Participation is open September 1, 2023 – October 1, 2023

The [Association of Public-Safety Communications Officials \(APCO\) International](#) has issued a call for participation for working group members to participate in the revision of APCO ANS Multi-Functional Multi-Discipline Computer Aided Dispatch (CAD) Minimum Functional Requirements. The revision and redesignation of this standard provides public safety agencies with tools to assist them in planning and preparing the Request for Proposal (RFP) accurately meeting the needs of their emergency communications center (ECC). APCO is seeking participants in the User, Producer and General Interest categories.

Call for Participation is open September 1, 2023 – October 1, 2023. Contact person is Mindy Adams at [adamsm@apcointl.org](mailto:adamsm@apcointl.org) or 469-424-7599.

### **AAMI (Association for the Advancement of Medical Instrumentation)**

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | [tkim@aami.org](mailto:tkim@aami.org), [www.aami.org](http://www.aami.org)

BSR/AAMI ST58-202x, Chemical sterilization and high-level disinfection in health care facilities (revision of ANSI/AAMI ST58-2013 (R2018))

### **CTA (Consumer Technology Association)**

1919 South Eads Street, Arlington, VA 22202 | [cakers@cta.tech](mailto:cakers@cta.tech), [www.cta.tech](http://www.cta.tech)

BSR/CTA 2116-202x, CTA Artificial Intelligence in Health Care-Practices for Identifying and Managing Bias (new standard)

### **IES (Illuminating Engineering Society)**

120 Wall Street, Floor 17, New York, NY 10005-4001 | [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org), [www.ies.org](http://www.ies.org)

BSR/IES LM-79-24-202x, Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products (revision of ANSI/IES LM-79-2019)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 4005-1:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 1: Communication model and requirements (identical national adoption of ISO/IEC 4005-1:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 4005-2:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 2: Physical and data link protocols for shared communication (identical national adoption of ISO/IEC 4005-2:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 4005-3:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 3: Physical and data link protocols for control communication (identical national adoption of ISO/IEC 4005-3:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 4005-4:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 4: Physical and data link protocols for video communication (identical national adoption of ISO/IEC 4005-4:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 5021-1:2023 [202x], Telecommunications and information exchange between systems - Wireless LAN access control - Part 1: Networking architecture (identical national adoption of ISO/IEC 5021-1:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 18033-5:2015/AM1:2021 [202x], Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers - Amendment 1: SM9 mechanism (identical national adoption of ISO/IEC 18033-5:2015/AM1:2021)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 20008-2:2013/AM1:2021 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 1 (identical national adoption of ISO/IEC 20008-2:2013/AM1:2021)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 20008-2:2013/AM2:2023 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 2 (identical national adoption of ISO/IEC 20008-2:2013/AM2:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 29128-1:2023 [202x], Information security, cybersecurity and privacy protection - Verification of cryptographic protocols - Part 1: Framework (identical national adoption of ISO/IEC 29128-1:2023)

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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 8183:2023 [202x], Information technology - Artificial intelligence - Data life cycle framework (identical national adoption of ISO/IEC 8183:2023)



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

700 K Street NW, Suite 600, Washington, DC 20001 | [comments@standards.incits.org](mailto:comments@standards.incits.org), [www.incits.org](http://www.incits.org)

BSR/INCITS/ISO/IEC 29134:2023 [202x], Information technology - Security techniques - Guidelines for privacy impact assessment (identical national adoption of ISO/IEC 29134:2023 and revision of INCITS/ISO/IEC 29134:2017 [2019])

**NECA (National Electrical Contractors Association)**

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | [Kyle.Krueger@necanet.org](mailto:Kyle.Krueger@necanet.org), [www.neca-neis.org](http://www.neca-neis.org)

BSR/NECA/FOA 301-202X, Standard for Installing and Testing Fiber Optic Cables (revision of ANSI/NECA/FOA 301-2016)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [jsnider@nsf.org](mailto:jsnider@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 14-202x (i136r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2022)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | [arose@nsf.org](mailto:arose@nsf.org), [www.nsf.org](http://www.nsf.org)

BSR/NSF 49-202x (i187r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | [gknott@opei.org](mailto:gknott@opei.org), [www.opei.org](http://www.opei.org)

BSR/OPEI B175.6-2018 (R202x), (Standard) for Outdoor Power Equipment - Internal Combustion Engine-Powered Hand-Held Hedge Trimmers - Safety and Environmental Requirements (reaffirmation of ANSI/OPEI B175.6-2018)

**ULSE (UL Standards & Engagement)**

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

BSR/UL 19-202x, Standard for Lined Fire Hose and Hose Assemblies (revision of ANSI/UL 19-2018)

**VITA (VMEbus International Trade Association (VITA))**

929 W. Portobello Avenue, Mesa, AZ 85210 | [jing.kwok@vita.com](mailto:jing.kwok@vita.com), [www.vita.com](http://www.vita.com)

BSR/VITA 68.0-2022x, VPX Compliance Channel Standard (revision of ANSI/VITA 68.0-2017)

**VITA (VMEbus International Trade Association (VITA))**

929 W. Portobello Avenue, Mesa, AZ 85210 | [jing.kwok@vita.com](mailto:jing.kwok@vita.com), [www.vita.com](http://www.vita.com)

BSR/VITA 68.1-202x, VPX Compliance Channel - Fixed Signal Integrity Budget Standard (revision of ANSI/VITA 68.1-2017)

# American National Standards (ANS) Process

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Please visit ANSI's website ([www.ansi.org](http://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](http://www.ansi.org/asd) and here are some direct links as well as highlights of information that is available:

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

### Please visit ANSI's website ([www.ansi.org](http://www.ansi.org))

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition):  
[www.ansi.org/essentialrequirements](http://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](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS):  
[www.ansi.org/sdoaccreditation](http://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](http://www.ansi.org/asd)
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:  
[www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps:  
[www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
- American National Standards Value:  
[www.ansi.org/ansvalue](http://www.ansi.org/ansvalue)
- ANS Web Forms for ANSI-Accredited Standards Developers:  
<https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR):  
<https://ibr.ansi.org/>
- ANSI - Education and Training:  
[www.standardstolearn.org](http://www.standardstolearn.org)

# Accreditation Announcements (Standards Developers)

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## **Public Review of Revised ASD Operating Procedures**

### **IEEE (ASC C2) - Institute of Electrical and Electronics Engineers National Electrical Safety Code**

#### **Correction to prior announcement**

An erroneous notice concerning pending revisions to the scope and procedures of IEEE (ASC C2) was published in the July 21, 2023 issue of Standards Action. No such proposal is pending.

Questions? [psa@ansi.org](mailto:psa@ansi.org)

# Meeting Notices (Standards Developers)

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## ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

October 2023

The Bi-National Gas Appliances and Related Accessories Technical Committee will hold an in-person meeting on October 3<sup>rd</sup>, 2023, from 8:30 AM – 4:30 PM at the Westin Cleveland Downtown. For information about the meeting contact Jennifer Hess at [Jennifer.hess@csagroup.org](mailto:Jennifer.hess@csagroup.org).

The Natural Gas Transportation Technical Committee will hold an in-person meeting on October 3, 2023, from 8:30 PM – 12:30 PM at the Westin Cleveland Downtown. For information about the meeting contact Julie Cairns [Julie.cairns@csagroup.org](mailto:Julie.cairns@csagroup.org).

The Hydrogen Transportation Technical Committee will hold an in-person meeting on October 4, 2023, from 8:30 PM – 4:30 PM at the Westin Cleveland Downtown. For information about the meeting contact Iris Monner [iris.monner@csagroup.org](mailto:iris.monner@csagroup.org).

# American National Standards Under Continuous Maintenance

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

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

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

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

# ANSI-Accredited Standards Developers (ASD) Contacts

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

## **AAFS**

American Academy of Forensic Sciences  
410 North 21st Street  
Colorado Springs, CO 80904  
[www.aafs.org](http://www.aafs.org)

Teresa Ambrosius  
[tambrosius@aafs.org](mailto:tambrosius@aafs.org)

## **AAMI**

Association for the Advancement of  
Medical Instrumentation  
901 N. Glebe Road, Suite 300  
Arlington, VA 22203  
[www.aami.org](http://www.aami.org)

Thomas Kim  
[tkim@aami.org](mailto:tkim@aami.org)

## **ADA (Organization)**

American Dental Association  
211 East Chicago Avenue  
Chicago, IL 60611  
[www.ada.org](http://www.ada.org)

Paul Bralower  
[bralowerp@ada.org](mailto:bralowerp@ada.org)

## **AHAM**

Association of Home Appliance  
Manufacturers  
1111 19th Street NW, Suite 1150  
Washington, DC 20036  
[www.aham.org](http://www.aham.org)

John Park  
[jpark@aham.org](mailto:jpark@aham.org)

## **ANS**

American Nuclear Society  
555 North Kensington Avenue  
La Grange Park, IL 60526  
[www.ans.org](http://www.ans.org)

Kathryn Murdoch  
[kmurdoch@ans.org](mailto:kmurdoch@ans.org)

## **API**

American Petroleum Institute  
200 Massachusetts Avenue NW  
Washington, DC 20001  
[www.api.org](http://www.api.org)

John Buflod  
[buflodj@api.org](mailto:buflodj@api.org)

## **APTech (ASC CGATS)**

Association for Print Technologies  
450 10th Circle N  
Nashville, TN 37203  
[www.printtechnologies.org](http://www.printtechnologies.org)

Debra Orf  
[dorf@apttech.org](mailto:dorf@apttech.org)

## **ASHRAE**

American Society of Heating, Refrigerating  
and Air-Conditioning Engineers, Inc.  
180 Technology Parkway  
Peachtree Corners, GA 30092  
[www.ashrae.org](http://www.ashrae.org)

Carmen King  
[cking@ashrae.org](mailto:cking@ashrae.org)

## **ASME**

American Society of Mechanical Engineers  
Two Park Avenue, 6th Floor  
New York, NY 10016  
[www.asme.org](http://www.asme.org)

Maria Acevedo  
[ansibox@asme.org](mailto:ansibox@asme.org)

## **ASME**

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

Terrell Henry  
[ansibox@asme.org](mailto:ansibox@asme.org)

## **ASTM**

ASTM International  
100 Barr Harbor Drive  
West Conshohocken, PA 19428  
[www.astm.org](http://www.astm.org)

Laura Klineburger  
[accreditation@astm.org](mailto:accreditation@astm.org)

## **AWS**

American Welding Society  
8669 NW 36th Street, Suite 130  
Miami, FL 33166  
[www.aws.org](http://www.aws.org)

Mario Diaz  
[mdiaz@aws.org](mailto:mdiaz@aws.org)  
Stephen Borrero  
[sborrero@aws.org](mailto:sborrero@aws.org)

## **B11**

B11 Standards, Inc.  
P.O. Box 690905  
Houston, TX 77269  
<https://www.b11standards.org/>

Chris Felinski  
[cfelinski@b11standards.org](mailto:cfelinski@b11standards.org)

## **CSA**

CSA America Standards Inc.  
8501 East Pleasant Valley Road  
Cleveland, OH 44131  
[www.csagroup.org](http://www.csagroup.org)

Debbie Chesnik  
[ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

## **CTA**

Consumer Technology Association  
1919 South Eads Street  
Arlington, VA 22202  
[www.cta.tech](http://www.cta.tech)

Catrina Akers  
[cakers@cta.tech](mailto:cakers@cta.tech)

## **DMSC**

Digital Metrology Standards Consortium,  
Inc.  
3245 Latta Road, No. 16595  
Rochester, NY 14616  
[www.dmis.org](http://www.dmis.org)

Mark Thomas  
[mark.thomas@qifstandards.org](mailto:mark.thomas@qifstandards.org)

## **IAPMO (ASSE Chapter)**

ASSE International Chapter of IAPMO  
18927 Hickory Creek Drive, Suite 220  
Mokena, IL 60448  
[www.asse-plumbing.org](http://www.asse-plumbing.org)

Terry Burger  
[terry.burger@asse-plumbing.org](mailto:terry.burger@asse-plumbing.org)

## **IEEE**

Institute of Electrical and Electronics  
Engineers  
445 Hoes Lane  
Piscataway, NJ 08854  
[www.ieee.org](http://www.ieee.org)

Suzanne Merten  
[s.merten@ieee.org](mailto:s.merten@ieee.org)

**IEEE (ASC C2)**

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

Jennifer Santulli  
j.santulli@ieee.org

**IES**

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

Patricia McGillicuddy  
pmcgillicuddy@ies.org

**IICRC**

The Institute of Inspection, Cleaning and  
Restoration Certification  
4043 South Eastern Avenue  
Las Vegas, NV 89119  
https://www.iicrc.org

Mili Washington  
mwashington@iicrcnet.org

**ITI (INCITS)**

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

Deborah Spittle  
comments@standards.incits.org

**ITSDF**

Industrial Truck Standards Development  
Foundation, Inc.  
1750 K Street NW, Suite 460  
Washington, DC 20006  
www.indtrk.org

Christopher Merther  
chris.merther@itsdf.org

**NECA**

National Electrical Contractors Association  
1201 Pennsylvania Avenue, Suite 1200  
Washington, DC 20004  
www.neca-neis.org

Kyle Krueger  
Kyle.Krueger@necanet.org

**NEMA**

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

Zijun Tong  
zijun.tong@nema.org

**NEMA (ASC C12)**

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

Paul Orr  
Pau\_orr@nema.org

**NENA**

National Emergency Number Association  
1700 Diagonal Road, Suite 500  
Alexandria, VA 22314  
www.nena.org

Nena Staff  
crm@nena.org

**NFPA**

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

Dawn Michele Bellis  
dbellis@nfpa.org

**NSF**

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

Allan Rose  
arose@nsf.org

Jason Snider  
jsnider@nsf.org

**OPEI**

Outdoor Power Equipment Institute  
1605 King Street  
Alexandria, VA 22314  
www.opei.org

Greg Knott  
gknott@opei.org

**PGMA**

Portable Generator Manufacturers  
Association  
1300 Sumner Avenue  
Cleveland, OH www.pgmaonline.com

Heather Darrah  
hdarrah@thomasamc.com

**TCNA (ASC A108)**

Tile Council of North America  
100 Clemson Research Blvd.  
Anderson, SC 29625  
www.tcnatile.com

Katelyn Simpson  
KSimpson@tileusa.com

**ULSE**

UL Standards & Engagement  
100 Queen Street, Suite 1040  
Ottawa, ON K1P 1  
https://ulse.org/

Sabrina Khrebtov  
sabrina.khrebtov@ul.org

**ULSE**

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Research Triangle Park, NC 27709  
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Doreen.Stocker@ul.org

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griff.edwards@ul.org

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Julio.Morales@UL.org

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333 Pflingsten Road  
Northbrook, IL 60062  
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megan.monsen@ul.org

Susan Malohn  
Susan.P.Malohn@ul.org

**ULSE**

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47173 Benicia Street  
Fremont, CA 94538  
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Linda Phinney  
Linda.L.Phinney@ul.org

**VITA**

VMEbus International Trade Association

(VITA)

929 W. Portobello Avenue

Mesa, AZ 85210

[www.vita.com](http://www.vita.com)

Jing Kwok

[jing.kwok@vita.com](mailto:jing.kwok@vita.com)



# 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](mailto: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](mailto: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](mailto:sales@ansi.org). When making your request, please provide the date of the Standards Action issue in which the draft document you are requesting appears.

## ISO Standards

### Acoustics (TC 43)

ISO/DIS 17208-3, Underwater acoustics - Quantities and procedures for description and measurement of underwater sound from ships - Part 3: Requirements for measurements in shallow water - 11/4/2023, \$112.00

### Additive manufacturing (TC 261)

ISO/ASTM DIS 52929, Additive manufacturing of metals - Powder bed fusion - Presentation of material properties in material data sheets - 11/4/2023, \$58.00

### Ageing societies (TC 314)

ISO/DIS 25554, Ageing societies - Guidelines for promoting wellbeing in communities - 11/4/2023, \$88.00

### Corrosion of metals and alloys (TC 156)

ISO 9227:2022/DAMd 1, - Amendment 1: Corrosion tests in artificial atmospheres - Salt spray tests - Amendment 1: Footnote of warning - 11/3/2023, \$40.00

ISO 10062:2022/DAMd 1, - Amendment 1: Corrosion tests in artificial atmosphere at very low concentrations of polluting gas (es) - Amendment 1: Footnote of warning - 11/3/2023, \$29.00

ISO/DIS 9351, Galvanic anodes for cathodic protection in seawater and saline sediments - 11/6/2023, \$112.00

### Cranes (TC 96)

ISO/DIS 9374-1, Cranes - Information to be provided - Part 1: General - 11/4/2023, \$33.00

### Essential oils (TC 54)

ISO/DIS 14714, Essential oils and aromatic extracts - Determination of benzene content - 11/4/2023, \$40.00

### Fire safety (TC 92)

ISO/DIS 16733-1, Fire safety engineering - Selection of design fire scenarios and design fires - Part 1: Selection of design fire scenarios - 11/4/2023, \$82.00

### Footwear (TC 216)

ISO/DIS 16179, Footwear - Critical substances potentially present in footwear and footwear components - Determination of organotin compounds in footwear materials - 11/4/2023, \$62.00

### Information and documentation (TC 46)

ISO/DIS 11799, Information and documentation - Document storage requirements for archive and library materials - 11/6/2023, \$107.00

ISO/DIS 24138, Information and documentation - International Standard Content Code (ISCC) - 11/9/2023, \$102.00

### Measurement of fluid flow in closed conduits (TC 30)

ISO/DIS 4064-5, Water meters for cold potable water and hot water - Part 5: Installation requirements - 11/6/2023, \$58.00

### Medical devices for injections (TC 84)

ISO/DIS 23908, Sharps injury protection - Requirements and test methods - Sharps protection mechanisms for single-use needles, introducers for catheters and needles used for blood testing, monitoring, sampling and medical substance administration - 11/6/2023, \$77.00

### Personal safety - Protective clothing and equipment (TC 94)

ISO/DIS 11999-6, PPE for firefighters - Test methods and requirements for PPE used by firefighters who are at risk of exposure to high levels of heat and/or flame while fighting fires occurring in structures - Part 6: Footwear - 11/6/2023, \$98.00

**Plain bearings (TC 123)**

ISO/DIS 12843, Plain bearings - Reuse, recycling and disposal of plain bearing materials - 11/4/2023, \$33.00

**Rubber and rubber products (TC 45)**

ISO/DIS 6134, Rubber hoses and hose assemblies for saturated steam - Specification - 11/5/2023, \$58.00

**Steel (TC 17)**

ISO/DIS 6934-5, Steel for the prestressing of concrete - Part 5: Hot-rolled steel bars with or without subsequent processing - 11/3/2023, \$40.00

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

ISO/DIS 1135-4, Transfusion equipment for medical use - Part 4: Transfusion sets for single use, gravity feed - 11/5/2023, \$77.00

ISO/DIS 1135-5, Transfusion equipment for medical use - Part 5: Transfusion sets for single use with pressure infusion apparatus - 11/4/2023, \$88.00

**ISO/IEC JTC 1, Information Technology**

ISO/IEC DIS 20008-3, Information technology - Security techniques - Anonymous digital signatures - Part 3: Mechanisms using multiple public keys - 11/5/2023, \$82.00

ISO/IEC DIS 27035-4, Information technology - Information security incident management - Part 4: Coordination - 11/5/2023, \$82.00

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

94/934/CDV, IEC 61810-7-11 ED1: Electrical relays - Tests and Measurements - Part 7-11: Enclosure Protection and Degree of Protection, 11/10/2023

94/931/CDV, IEC 61810-7-12 ED1: Electrical relays - Tests and Measurements - Part 7-12: Internal Moisture, 11/10/2023

94/932/CDV, IEC 61810-7-13 ED1: Electrical relays - Tests and Measurements - Part 7-13: Corrosive atmospheres - Polluted atmospheres, 11/10/2023

94/936/CDV, IEC 61810-7-14 ED1: Electrical relays - Tests and Measurements - Part 7-14: Mould growth, 11/10/2023

94/922/CDV, IEC 61810-7-15 ED1: Electrical relays - Tests and Measurements - Part 7-15: Robustness of Terminals, 11/10/2023

94/921/CDV, IEC 61810-7-17 ED1: Electrical relays - Tests and Measurements - Part 7-17: Shock, Acceleration and Vibration, 11/10/2023

94/926/CDV, IEC 61810-7-19 ED1: Electrical relays - Tests and Measurements - Part 7-19: Electrical endurance, 11/10/2023

94/925/CDV, IEC 61810-7-2 ED1: Electrical relays - Tests and Measurements - Part 7-2: Mechanical tests and weighing, 11/10/2023

94/933/CDV, IEC 61810-7-30 ED1: Electrical relays - Tests and Measurements - Part 7-30: Contact sticking (delayed release), 11/10/2023

94/920/CDV, IEC 61810-7-39 ED1: Electrical relays - Tests and Measurements - Part 7-39: Insertion and withdrawal force, 11/10/2023

94/930/CDV, IEC 61810-7-43 ED1: Electrical relays - Tests and Measurements - Part 7-43: Proof tracking index (PTI), 11/10/2023

94/924/CDV, IEC 61810-7-7 ED1: Electrical relays - Tests and Measurements - Part 7-7: Functional Tests, 11/10/2023

94/923/CDV, IEC 61810-7-8 ED1: Electrical relays - Tests and Measurements - Part 7-8: Timing, 11/10/2023

**Bare aluminium conductors (TC 7)**

7/739/CD, IEC TS 62818-1 ED1: Conductors for overhead lines - Fiber reinforced composite core used as supporting member material - Part 1: Polymeric matrix composite cores, 10/13/2023

7/740/CD, IEC TS 62818-2 ED1: Conductors for overhead lines - Fiber reinforced composite core used as supporting member material - Part 2: Metallic matrix composite cores, 10/13/2023

**Electrical accessories (TC 23)**

23B/1470/CDV, IEC 60884-2-1 ED3: Plugs and socket-outlets for household and similar purposes - Part 2-1: Particular requirements for fused plugs, 11/10/2023

23B/1471/CDV, IEC 60884-2-2 ED3: Plugs and socket-outlets for household and similar purposes - Part 2-2: Particular requirements for socket-outlets for appliances, 11/10/2023

23B/1472/CDV, IEC 60884-2-3 ED3: Plugs and socket-outlets for household and similar purposes - Part 2-3: Particular requirements for switched socket-outlets without interlock for fixed installations, 11/10/2023

23B/1473/CDV, IEC 60884-2-6 ED2: Plugs and socket-outlets for household and similar purposes - Part 2-6: Particular requirements for switched socket-outlets with interlock for fixed electrical installations, 11/10/2023

23B/1474/CDV, IEC 60884-2-7 ED2: Plugs and socket-outlets for household and similar purposes - Part 2-7: Particular requirements for cord extension sets, 11/10/2023

### **Electrical apparatus for explosive atmospheres (TC 31)**

31J/345(F)/FDIS, IEC 60079-17 ED6: Explosive atmospheres - Part 17: Electrical installations inspection and maintenance, 09/01/2023

### **Electrical Energy Storage (EES) Systems (TC 120)**

120/325/CDV, IEC 62933-5-1 ED1: Electrical energy storage (EES) systems - Part 5-1: Safety considerations for grid-integrated EES systems - General specification, 11/10/2023

### **Electromagnetic compatibility (TC 77)**

77B/870/CD, IEC 61000-4-41 ED1: Electromagnetic compatibility (EMC) - Part 4-41: Testing and measurement techniques - Broadband radiated immunity tests, 11/10/2023

### **Fibre optics (TC 86)**

86A/2355/CDV, IEC 60793-1-40 ED3: Optical fibres - Part 1-40: Attenuation measurement methods, 11/10/2023

86A/2359/CDV, IEC 60794-1-101 ED1: Optical fibre cables - Part 1-101: Generic specification - Basic optical cable test procedures - Mechanical tests methods - Tensile, method E1, 11/10/2023

86A/2360/CDV, IEC 60794-1-104 ED1: Optical fibre cables - Part 1-104: Generic specification - Basic optical cable test procedures - Mechanical tests method - Impact, method E4, 11/10/2023

86A/2357/CDV, IEC 60794-1-212 ED1: Optical fibre cables - Part 1-212: Generic specification - Basic optical cable test procedures - Environmental test methods - Temperature cycling with cable elements fixed at both ends, Method F12, 10/13/2023

86A/2358/CDV, IEC 60794-1-217 ED1: Optical fibre cables - Part 1-217: Generic specification - Basic optical cable test procedures - Environmental test methods - Cable shrinkage (fibre protrusion), Method F17, 10/13/2023

86B/4795/NP, PNW 86B-4795 ED1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 7-4: Type MPO connector family - One fibre row 16 fibres wide, 11/10/2023

### **Fuel Cell Technologies (TC 105)**

105/998(F)/FDIS, IEC 62282-4-202 ED1: Fuel cell technologies - Part 4-202: Fuel cell power systems for propulsion and auxiliary power units - Unmanned aircrafts - Performance test methods, 09/01/2023

105/1005/NP, PNW 105-1005 ED1: Fuel cell technologies - Part 4-401: Fuel cell power systems for propulsion and auxiliary power units - Maritime sector - Safety of PEMFC-Systems, 11/10/2023

### **Fuses (TC 32)**

32C/620/FDIS, IEC 60127-6 ED3: Miniature fuses - Part 6: Fuse-holders for miniature fuse-links, 09/29/2023

### **Industrial-process measurement and control (TC 65)**

65/1020/FDIS, IEC 63339 ED1: Unified reference model for smart manufacturing, 09/29/2023

### **Performance of household electrical appliances (TC 59)**

59/817/CDV, IEC 63510-1 ED1: Household appliances network and grid connectivity - Part 1: General requirements, generic data modelling and neutral messages (fast track), 11/10/2023

59/818/CDV, IEC 63510-2 ED1: Household appliances network and grid connectivity - Part 2: Product specific mappings, details, requirements and deviations (fast track), 11/10/2023

59/819/CDV, IEC 63510-3-1 ED1: Household appliances network and grid connectivity - Part 3-1: Specific Data Model Mapping: SPINE and SPINE-IoT (fast track), 11/10/2023

59/820/CDV, IEC 63510-4-1 ED1: Household appliances network and grid connectivity - Part 4-1: Communication Protocol Specific Aspects: SPINE, SPINE-IoT and SHIP (fast track), 11/10/2023

### **Power system control and associated communications (TC 57)**

57/2615/CD, Telecontrol equipment and systems - Part 5-7: Transmission protocols - Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (applying IEC 62351), 10/13/2023

### **Rotating machinery (TC 2)**

2/2152/FDIS, IEC 60034-2-3 ED2: Rotating electrical machines - Part 2-3: Specific test methods for determining losses and efficiency of converter-fed AC motors, 09/29/2023

### **Safety of hand-held motor-operated electric tools (TC 116)**

116/671/CDV, IEC 62841-4-4/AMD1 ED1: Amendment 1 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, 11/10/2023

### **Semiconductor devices (TC 47)**

47E/812/CDV, IEC 60747-15 ED3: Semiconductor devices - Part 15: Discrete devices - Isolated power semiconductor devices, 11/10/2023

**Solar photovoltaic energy systems (TC 82)**

82/2167/CDV, IEC 62788-7-3/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 7-3: Accelerated stress tests - Methods of abrasion of PV module external surfaces, 11/10/2023

**Surface mounting technology (TC 91)**

91/1895/FDIS, IEC 63215-2 ED1: Endurance test methods for die attach materials - Part 2: Temperature cycling test method for die attach materials applied to discrete type power electronic devices, 09/29/2023

**Surge arresters (TC 37)**

37A/400/DTR, IEC TR 61643-03 ED1: Low-voltage surge protective devices - Part 03: SPD testing guide, 10/13/2023

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

121/143/CD, IEC 62683-2-3 ED1: Product data and properties for information exchange - Engineering data - Part 2-3: Functional safety and reliability, 10/13/2023



# Newly Published ISO & IEC Standards

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

## ISO Standards

### Air quality (TC 146)

[ISO 16000-42:2023](#), Indoor air - Part 42: Measurement of the particle number concentration by condensation particle counters, \$183.00

### Aircraft and space vehicles (TC 20)

[ISO 5110:2023](#), Test method for flight stability of a multi-copter unmanned aircraft system (UAS) under wind and rain conditions, \$157.00

### Dentistry (TC 106)

[ISO 24395:2023](#), Dentistry - Classification of tooth restorations preparation, \$51.00

[ISO 3630-4:2023](#), Dentistry - Endodontic instruments - Part 4: Auxiliary instruments, \$157.00

### Fine ceramics (TC 206)

[ISO 13915:2023](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for optical properties of ceramic phosphors for white light-emitting diodes with reference materials, \$116.00

### Furniture (TC 136)

[ISO 7173:2023](#), Furniture - Chairs and stools - Determination of strength and durability, \$237.00

### Implants for surgery (TC 150)

[ISO 18242:2016/Amd 1:2023](#), - Amendment 1: Cardiovascular implants and extracorporeal systems - Centrifugal blood pumps - Amendment 1: Worst-case conditions for testing, \$22.00

### Innovation management (TC 279)

[ISO 56007:2023](#), Innovation management - Tools and methods for managing opportunities and ideas - Guidance, \$237.00

### Jewellery (TC 174)

[ISO 5724:2023](#), Jewellery and precious metals - Determination of very high purity gold - Difference method using ICP-MS, \$77.00

### Petroleum products and lubricants (TC 28)

[ISO 10976:2023](#), Refrigerated light hydrocarbon fluids - Measurement of cargoes on board LNG carriers, \$237.00

### Railway applications (TC 269)

[ISO 24478:2023](#), Railway applications - Braking - General vocabulary, \$183.00

### Rolling bearings (TC 4)

[ISO 199:2023](#), Rolling bearings - Thrust bearings - Geometrical product specifications (GPS) and tolerance values, \$116.00

[ISO 492:2023](#), Rolling bearings - Radial bearings - Geometrical product specifications (GPS) and tolerance values, \$210.00

### Rubber and rubber products (TC 45)

[ISO 7231:2023](#), Polymeric materials, cellular, flexible - Determination of air flow value at constant pressure-drop, \$116.00

### Security (TC 292)

[ISO 22376:2023](#), Security and resilience - Authenticity, integrity and trust for products and documents - Specification and usage of visible digital seal (VDS) data format for authentication, verification and acquisition of data carried by a document or object, \$210.00

### Ships and marine technology (TC 8)

[ISO 5483:2023](#), Ships and marine technology - Drain facilities from oil and water tanks, \$210.00

### Small tools (TC 29)

[ISO 9182-2:2023](#), Tools for pressing - Guide pillars - Part 2: Type A, straight pillars, \$51.00

[ISO 9182-3:2023](#), Tools for pressing - Guide pillars - Part 3: Type B, end-locking pillars, \$77.00

[ISO 9182-4:2023](#), Tools for pressing - Guide pillars - Part 4: Type C, pillars with taper lead and bush, \$77.00

### Sterilization of health care products (TC 198)

[ISO 13408-1:2023](#), Aseptic processing of health care products - Part 1: General requirements, \$237.00

## ISO Technical Reports

### Cleanrooms and associated controlled environments (TC 209)

[ISO/TR 14644-21:2023](#), Cleanrooms and associated controlled environments - Part 21: Airborne particle sampling techniques, \$157.00

### ISO/IEC JTC 1, Information Technology

[ISO/IEC 5021-2:2023](#), Telecommunications and information exchange between systems - Wireless LAN access control - Part 2: Dispatching platform, \$77.00

## IEC Standards

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

[IEC 60092-303 Ed. 4.0 en:2023](#), Electrical installations in ships - Part 303: Equipment - Power transformers and reactors, \$95.00

### Electromagnetic compatibility (TC 77)

[IEC 61000-4-24 Amd.1 Ed. 2.0 en:2023](#), Amendment 1 - Electromagnetic compatibility (EMC) - Part 4-24: Testing and measurement techniques - Test methods for protective devices for HEMP conducted disturbance, \$95.00

[IEC 61000-4-24 Ed. 2.1 en:2023](#), Electromagnetic compatibility (EMC) - Part 4-24: Testing and measurement techniques - Test methods for protective devices for HEMP conducted disturbance, \$531.00

### Power system control and associated communications (TC 57)

[S+ IEC/TR 61850-90-7 Ed. 2.0 en:2023 \(Redline version\)](#), Communication networks and systems for power utility automation - Part 90-7: Object models for power converters in distributed energy resources (DER) systems, \$543.00

### Winding wires (TC 55)

[IEC 60851-3 Ed. 4.0 b:2023](#), Winding wires - Test methods - Part 3: Mechanical properties, \$329.00

[S+ IEC 60851-3 Ed. 4.0 en:2023 \(Redline version\)](#), Winding wires - Test methods - Part 3: Mechanical properties, \$428.00

## IEC Technical Reports

### Power system control and associated communications (TC 57)

[IEC/TR 61850-90-7 Ed. 2.0 en:2023](#), Communication networks and systems for power utility automation - Part 90-7: Object models for power converters in distributed energy resources (DER) systems, \$417.00

## IEC Technical Specifications

### Power capacitors (TC 33)

[IEC/TS 60871-3 Amd.1 Ed. 2.0 en:2023](#), Amendment 1 - Shunt capacitors for AC power systems having a rated voltage above 1 000 V - Part 3: Protection of shunt capacitors and shunt capacitor banks, \$13.00

[IEC/TS 60871-3 Ed. 2.1 en:2023](#), Shunt capacitors for AC power systems having a rated voltage above 1 000 V - Part 3: Protection of shunt capacitors and shunt capacitor banks, \$272.00

# International Organization for Standardization (ISO)

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## ISO Proposal for a New Field of ISO Technical Activity

### Urban Logistics

**Comment Deadline: September 22, 2023**

KATS, the ISO member body for South Korea, has submitted to ISO a proposal for a new field of ISO technical activity on Urban Logistics, with the following scope statement:

*Standardization in the field of urban logistics technology and services, including but not limited to terms, functions, assessments and evaluations, and requirements for economical, efficient and eco-friendly urban logistics.*

*The goal of the technical committee is to help build urban logistics technologies and services that are sustainable, socially and economically responsible.*

*Standardization activities are technologies and services for efficient and sustainable urban logistics required for cities that are constantly evolving and expanding due to rapid population growth and digital transformation.*

*Excluded: Standardization covered by*

- *ISO/TC 22 - Road vehicles*
- *ISO/TC 34 - Food products*
- *ISO/TC 92 - Fire safety*
- *ISO/TC 101 - Continuous mechanical handling equipment*
- *ISO/TC 122 - Packaging*
- *ISO/TC 176 - Quality management and quality assurance*
- *ISO/TC 204 - Intelligent transport systems*
- *ISO/TC 262 - Risk management*
- *ISO/TC 268 - Sustainable cities and communities*
- *ISO/TC 283 - Occupational health and safety management*
- *ISO/IEC JTC 1 - Information technology*
- *ISO/TC 308 - Chain of custody*
- *ISO/TC 315 - Cold chain logistics*
- *ISO/TC 321 - Transaction assurance in E-commerce*
- *ISO/TC 344 – Innovative logistics.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, September 22, 2023.

# International Organization for Standardization (ISO)

## ISO Proposal for the Reactivation of ISO Technical Activity

### Boilers and pressure vessels

**Comment Deadline: September 22, 2023**

SAC, the ISO member body for China, has submitted to ISO a proposal for the reactivation of ISO/TC 11 (Boilers and pressure vessels) which has been in ISO 'standby' mode for a number of years due to inactivity. The scope of ISO/TC 11 is as follows:

*Standardization of construction of boilers and pressure vessels.*

*Excluded:*

- *railway and marine boilers covered by ISO/TC 8;*
- *gas cylinders covered by ISO/TC 58;*
- *aircraft and vehicle components covered by ISO/TC 20;*
- *equipment used for fire-fighting covered by ISO/TC 21;*
- *personal safety equipment covered by ISO/TC 94;*
- *components of rotating or reciprocating devices;*
- *nuclear pressure equipment covered by ISO/TC 85;*
- *pipng systems;*
- *cryogenic vessels covered by ISO/TC 220.*

*Note:*

*Construction is an all-inclusive term that includes design, materials, fabrication, examination, inspection, testing and conformity assessment.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, September 22, 2023.



# Registration of Organization Names in the United States

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

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically.

Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## Public Review

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

# Proposed Foreign Government Regulations

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## Call for Comment

U.S. manufacturers, exporters, trade associations, U.S. domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final. The USA Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance prior to submitting comments. For non-notified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

### Online Resources:

WTO's ePing SPS&TBT platform: <https://epingalert.org/>

Register for ePing: <https://epingalert.org/en/Account/Registration>

WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:

[https://www.wto.org/english/tratop\\_e/sps\\_e/sps\\_e.htm](https://www.wto.org/english/tratop_e/sps_e/sps_e.htm)

WTO Committee on Technical Barriers to Trade (TBT): [https://www.wto.org/english/tratop\\_e/tbt\\_e/tbt\\_e.htm](https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm)

USA TBT Enquiry Point: <https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point>

Comment guidance:

<https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee>

NIST: <https://www.nist.gov/>

TANC: <https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc>

Examples of TBTs: [https://tcc.export.gov/report\\_a\\_barrier/trade\\_barrier\\_examples/index.asp](https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp).

Report Trade Barriers: [https://tcc.export.gov/Report\\_a\\_Barrier/index.asp](https://tcc.export.gov/Report_a_Barrier/index.asp).

USDA FAS: <https://www.fas.usda.gov/about-fas>

FAS contribution to free trade agreements: <https://www.fas.usda.gov/topics/trade-policy/trade-agreements>

Tracking regulatory changes: <https://www.fas.usda.gov/tracking-regulatory-changes-wto-members>

USTR WAMA: <https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade>

Contact the USA TBT Enquiry Point at (301) 975-2918; E [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

1 **S540 Standard for Trauma and Crime Scene Cleanup**

2 Second Limited Public Review (August 2023)

3  
4 Draft shows Proposed Changes to Current Standard

5  
6 **Note to Reviewers:** *These changes are indicated in the text by underlining (for additions) and strikethrough (for deletions). 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.*

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10  
11 **Section B: Definitions**

12  
13 **Air-Purifying Respirator APR:** a respirator with an air-purifying filter, cartridge, or canister that removes specific air contaminants by passing ambient air through the air-purifying element. An air-purifying respirator shall be used only when there is sufficient oxygen to sustain the life and the air containment level is below the concentration limits of the device.

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18 **Bloodborne pathogens (BBP):** are infectious microorganisms in human blood that can cause disease in humans. These pathogens include, but are not limited to, Hepatitis B (HBV), Hepatitis C (HCV) and Human Immunodeficiency Virus (HIV). (OSHA CRF 1910.1030 - Bloodborne pathogens).

19  
20  
21  
22 **Biohazard Container:** a leakproof primary container inside a leakproof secondary container that can be a bag, box, or reusable container ~~and shall be marked with a biohazard label.~~ The bag shall conform with (in accordance with ASTM D-1709-91 (impact resistance) and ASTM D-1922-89 (tearing resistance) and must be marked with a biohazard label.

23  
24  
25  
26  
27 **Contaminated:** the presence or the reasonably anticipated presence of blood or other potentially infectious materials on an item or surface. state of having actual or potential contact with microorganisms. As used in health care, the term generally refers to the presence of microorganisms that could produce disease or infection.

28  
29  
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31  
32 **Disinfectant:** a substance, or mixture of substances, that destroys or irreversibly inactivates bacteria, fungi, and viruses, but not necessarily bacterial spores, in the inanimate environment. 40CFR158.2203 any chemical used on surfaces or objects that destroys more than 99.99% of microorganisms in a specific period of time. Disinfectants kill microorganisms but may not kill all of their spores. Descriptions of products of this type generally include the suffix “-cide,” meaning to “kill” (e.g., bactericide, fungicide, virucide).

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37  
38 **Dispose, disposal:** The process to transfer, to control or take responsibility of another and or dispose of and removing waste from the property by container to either landfill, facility, or other forms of discard. (e.g., solid and liquid waste, non-hazardous materials and or regulated hazardous waste.

39  
40  
41  
42 **FIFRA:** U.S. Federal Insecticide and Rodenticide Act (FIFRA) regulates the registration, distribution, use, and sale of pesticides within the United States. It is important to note: FIFRA is a federal regulator of pesticides, however, each state in the U.S. is required to interpret and enforce federal and state laws on the use of antimicrobials (biocides), including whether and when a user shall be licensed. Other nations may have regulations governing the registration, distribution, use, and sale of pesticides.

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45  
46  
47  
48 **Organic Vapor Respirator Cartridge:** a cartridge containing activated charcoal that reacts and reduces the concentration of organic vapors the respirator wearer is exposed to. carbon capable of removing most organic vapors from respired air.

49  
50  
51  
52 **Porous Type 1 (Contents)** Materials that easily absorb or adsorb moisture (e.g., clothing, and other textiles) that can be laundered or immersed in water- based cleaning solutions.

53  
54  
55 **Porous Type 1 (Structure):** Materials that absorb or adsorb moisture and can be immersed in a water-based cleaning solution.

1  
2 **Porous Type 2 (Contents):** Other sorbent material (e.g., padded, or upholstered items, leather, taxidermy,  
3 paper goods, and many types of fine art), pressboard/particleboard unprotected medium-density fiberboard  
4 (MDF).

5  
6 **Porous Type 2 (Structure):** Other sorbent material (e.g., carpet, pad or cushion, pressboard/particleboard  
7 unprotected medium-density fiberboard (MDF) and drywall.

8  
9 **Remediation:** the process of reversing or stopping damage to structing, contents, and the environment  
10 consistent with the Standard. ~~removing contamination consistent with this standard.~~

11  
12 **Saprophytic:** ~~those organisms which live on decaying or decomposing organic matter. They secrete~~  
13 ~~digesting enzymes to break down organic molecules and absorb the products of digestion for continued~~  
14 ~~growth.~~

15  
16 **Saturated:** penetrated to the backing or all the way through the material.

17  
18 **Spatter:** a spray, mist or splash that has not saturated the surface it is on and is cleanable from the surface.  
19 For purposes of this document, spatter and splatter are used interchangeably.

20  
21 **Splatter:** see spatter.

22  
23 **The Workplace Hazardous Materials Information System (WHMIS):** ~~is Canada's national hazard~~  
24 ~~communication standard. The key elements of the system are hazard classification, cautionary labeling of~~  
25 ~~containers, the provision of safety data sheets, and worker education and training programs.~~

26  
27 **Thermal Fogging:** the conversion of liquids into a smoke-like mist of finely divided droplets through the  
28 use of heat (e.g., odor counteractants).

29  
30 **Ultra-Low Volume (ULV) Fogging:** a device for dispersing aqueous solutions in extremely fine droplets  
31 (e.g., deodorants and disinfectants).

32  
33 **Universal Precautions:** an approach to infection control. ~~to treat all human blood and human body fluids~~  
34 ~~as if they were known to be infectious for HIV, HBV, and other bloodborne pathogens. According to the~~  
35 ~~concept of Universal Precautions, all human blood and certain human body fluids are treated as if known~~  
36 ~~to be infectious for HIV, HBV, and other bloodborne pathogens.~~

37  
38 **Volatile Organic Compounds (VOCs):** are emitted as gases from certain solids or liquids. VOCs include  
39 a variety of chemicals, some of which may have short-term or long-term adverse health effects. A wide  
40 variety of volatile organic compounds (VOCs) are formed during the decomposition process arising from  
41 degraded proteins, carbohydrates, and fat from the human body.

42  
43 **Section 1.1**

44 The employer shall verify that the required workplace hazard assessment has been performed. Only Indoor  
45 Environmental Professionals (IEPs) or other competent persons shall should perform a hazard or risk  
46 assessment prior to commencing work.

47  
48 **Section 1.2.2.2**

49 Physical removal and proper disposal of the human blood, body fluids, and OPIM contamination is the  
50 primary means of remediation. The contamination should be physically removed from the structure,  
51 systems, and contents. ~~It is recommended that when decontamination cannot be practically completed by~~  
52 ~~cleaning alone, that appropriate antimicrobial (biocide) or mechanical means be employed.~~

53  
54 When decontamination cannot be practically completed by cleaning alone, application of an appropriate  
55 antimicrobial (biocide) or mechanical means (e.g., sanding, scraping, media blasting) should be employed.  
56 An appropriate government-registered antimicrobial (biocide) shall be applied according to label directions.

~~Structure, systems, and contents items or structures that cannot be cleaned shall be removed and shipped and disposed of to a regulated waste processing facility according to applicable governmental regulations.~~

### **Section 2.1.1**

~~A hazard and risk assessment shall be conducted to anticipate, recognize, evaluate, and control the physical hazards of the worksite.~~

~~A hazard assessment of the worksite shall should be performed by a competent person prior to commencing any remediation work.~~

~~Engineering controls reduce or prevent hazards from coming into contact with workers are designed to remove the hazard before it comes in contact with the technician/worker and can only address some risks.~~

### **Section 2.3.2**

~~Adequate training shall be a fundamental part of the implementation of universal precautions. Personnel should understand both the hazards they are being exposed to, and the proper way to equip themselves to prevent exposure to these hazards.~~

~~Universal precautions should be practiced for all bodily fluids including feces, nasal secretions, sputum, sweat, tears, urine, saliva, breast milk, and vomitus.~~

### **Section 2.7**

~~It is recommended that air conditioning and ventilation be operational to reduce the number of PPE changes. Operating the air conditioning system should be avoided if there is airborne contamination.~~

~~For more information on heat-related disorders, see OSHA Technical Manual TED 1-0.15A, Section III, Chapter 4, and OSHA NIOSH Heat Safety Tool App.~~

### **Section 2.11 – second set of bullets**

~~The company shall incorporate the following items into its remediation work procedures where appropriate:~~

- ~~▪ inspect PPE prior to use, when donning, during use, and when doffing;~~
- ~~▪ inspection of proper donning of PPE by the second party;~~

~~It is recommended that inspection of PPE donning and doffing be performed by a second party (e.g., buddy system).~~

### **Section 4.1 Administrative Procedures**

~~The company shall establish, implement, and consistently follow methods and procedures for:~~

~~Trauma and crime scene cleanup project administration shall include:~~

- ~~▪ compliance with all applicable governmental regulations, including state licenses as necessary;~~
- ~~▪ maintaining a written exposure control plan; and~~
- ~~▪ performing hazard or risk assessment and job hazard analysis as necessary.~~

~~In addition, trauma and crime scene cleanup project administration should include:~~

- ~~▪ use of written contracts;~~
- ~~▪ good communication between all involved parties including documenting the wishes of the client;~~
- ~~▪ maintaining a professional and ethical attitude, and business orientation; and~~
- ~~▪ thorough project documentation, monitoring, and recordkeeping.~~

#### **4.1.1 Work Authorization/Contract**

~~Although projects vary in size and scope and can have unique issues and complications, it is recommended that the contract may include but is not limited to the following:~~

- ~~▪ 'a good faith' estimate;~~

- 1 ~~▪ not to exceed price on services to be performed;~~
- 2 ~~▪ the price or fees for any changes or additions to the work, via change order;~~

3  
4 Some pricing methods are:

- 5
- 6 ~~▪ unit pricing or fixed rate;~~
- 7 ~~▪ 'a good faith' estimate;~~
- 8 ~~▪ not-to-exceed price on services to be performed;~~
- 9 ~~▪ the price or fees for any changes or additions to the work, via change order;~~

### 10 11 **Section 5.1.2 Worker Immunizations**

12 ~~Technicians and workers~~ All employees who have the potential for contact with bloodborne pathogens and  
13 OPIM should be vaccinated against the hepatitis A, hepatitis B virus, and tetanus, along with other  
14 vaccinations as prescribed by primary health care providers.

### 15 16 **Section 5.6 Work Zones**

17 Work zones are ~~recommended should~~ to be established with the appropriate control measures (e.g., hazard  
18 communication signage, isolation barriers, ventilation controls, PPE) to restrict work area access and  
19 mitigate exposures to safety and health hazards.

### 20 21 **Section 6.1 Extraction and Cleaning Equipment**

22 Companies, technicians, and workers should assess whether the extraction or cleaning units, tools, and  
23 attachments used can be adequately decontaminated after being used on a trauma and crime scene  
24 cleanup site.

### 25 26 **Section 6.5 Odor control**

27 When it comes to odor control in trauma and crime scene cleanup, there are several key principles to  
28 consider. These principles focus on effectively addressing and eliminating odors associated with traumatic  
29 events. The fundamental principles of odor control:

- 30 1. Identify and remove the source (i.e., the odor-causing fluids, other potentially infectious materials  
31 (e.g., tissue), and the by-products that result from putrefaction;
- 32 2. Clean the source area (e.g., cleaning agents);
- 33 3. Penetrate the source (e.g., liquid deodorants, oxidizers, enzymes, pairing agents, and  
34 biocides/antimicrobials), and.
- 35 4. Seal (e.g., encapsulants).

### 36 37 **Section 8.1 Categorization of Structural Materials**

38 Other ~~complications and~~ contamination may include but is not limited to:

- 39
- 40 ~~▪ asbestos and lead;~~
- 41 ~~▪ riot control agents, tear gas;~~
- 42 ~~▪ pests (e.g., insect, flies, maggots etc., and resulting excretion contamination);~~
- 43 ~~▪ related soils;~~
- 44 ~~▪ investigative materials and chemicals;~~
- 45 ~~▪ fingerprint dust and tape residues, and~~
- 46 ~~▪ pet/animal excrement.~~

### 47 48 **Section 8.5 HVAC Systems**

49 HVAC Systems can be a source or path of unpleasant odors in indoor environments. Several factors can  
50 contribute to odors in HVAC systems, and it's important to identify and address the underlying causes. It is  
51 recommended that a HVAC system, if determined to be a risk of cross contamination, be isolated from the  
52 areas of work.

### 53 54 **Section 8.13 Demobilization**

55 Upon completion of the project ~~time must be taken to conduct and,~~ it is recommended that an exit inventory  
56 be taken.

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**Section 10.2 Inspection and Evaluation for Restorability**

~~To determine the restorability of trauma and crime scene contents, technicians should evaluate the following:~~

The following conditions should be considered when determining the restorability of trauma and crime scene contents:

- the age and condition of the contents;
- the basic material composition of the contents;
- the cost of remediation;
- the financial value or cost of replacement;
- other types of value (e.g., sentimental, legal, artistic, cultural, historical);
- psychological considerations; and
- Porous Type 1 or Porous Type 2 and the level of contamination

**Section 10.3 Content Manipulation**

The company shall follow all regulations established by the local regulating authority when transporting contaminated contents.

**Section 12.2.3.1 Performance Observations**

It is recommended ~~observers (e.g., cleaning)~~ cleaning technicians or supervisors perform structured observations using checklists that are specific to the hazards identified, risk assessments, and required tasks.

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

## NSF/ANSI International Standard for Biosafety Cabinetry —

### Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

- 

#### 6 Performance

- 

**6.17.3** When the cabinet has been disconnected from power for a minimum of 5 minutes ~~4-hour~~, the cabinet inflow velocity (where applicable), or downflow velocity (where applicable), or both, shall not change by more than 3 ft/min (0.015 m/s) when power is restored. The cabinet shall come on in the same state it was in when power was lost (lights on, blower on, alarm parameters set, etc.) when power is restored. The cabinet shall provide the user with a visual indication that there was a power loss

- 
- 

#### Normative Annex 1 (formerly Annex A)

##### Performance tests

- 

##### N-1.13.3.3 Power failure stability

- 

c) Disconnect power to the cabinet for a minimum of 5 minutes ~~4 hr~~

*Rationale: 5 minutes is sufficient for any stored capacitance to dissipate and may save some time during the certification process..*



## BSR/UL 8802 Standard for Safety for Ultraviolet (UV) Germicidal Equipment and Systems

### 1. Proposed Adoption Of The First Edition Of The Standard For Ultraviolet (UV) Germicidal Equipment and Systems, UL 8802, As A UL Standard For The U.S. and Canada

#### PROPOSAL

4.2 The following standards are referenced in this standard. Portions of these referenced standards may be essential for compliance.

...

CAN/CSA C22.2 No. ~~60947-5~~

~~Low-voltage Switchgear and Controlgear; Control Circuit Devices and Switching Elements~~ [60947-1](#)  
[Low-voltage switchgear and controlgear - Part 1: General rules](#)

...

UL ~~60947-5~~<sub>1</sub>

~~Low-voltage Switchgear and Controlgear; Control Circuit Devices and Switching Elements~~ – [Part 1: General Rules](#)

...

CAN/ULC-~~S319~~  
[60839-11-1](#)

[Alarm and Electronic Security Systems - Part 11-1: Electronic Access Control Systems - System and Components Requirements](#)

#### 5 Glossary

5.1 For the purpose of this standard, the following definitions apply. ~~Defined terms are shown as bolded text throughout the standard.~~

5.15 **SAFE SHUTDOWN** – A safe state where a device ceases to operate due to an abnormal operating condition (for example, a fault), and one that requires the intervention of an instructed operator or qualified service person in order to restore normal equipment operation. ~~For example,~~ UV germicidal equipment and systems ~~should~~ not pose a risk of UV overexposure to occupants after a safe shutdown.

12.1 UV emitter assemblies shall comply with one of the applicable safety standards in [1.7](#) in addition to the requirements in Part 2 of this standard.

18.5 System components that comply with one of the following standards are considered to comply with 18.4 when they are used in accordance with their ratings, markings and intended use:

a) In Canada:

- 1) ~~CAN/ULC-S319~~; [ULC 60839-11-1](#)
- 2) CSA C22.2 No. 14;
- 3) ULC S306;
- 4) CSA C22.2 No. 205;
- 5) CSA E60730-1;
- 6) CSA C22.2 No. 60947-1, including the Part standards that corresponds to the system component;
- 7) CSA C22.2 No. 61058-1, including the Part standards that corresponds to the system

component; or

8) CSA-E61496-1, including the Part standards that corresponds to the system component.

b) In the United States:

1) UL 294;

2) UL 508;

3) UL 639;

4) UL 916;

5) UL 60730-1;

6) UL 60947-1, including the Part standards that corresponds to the system component;

7) UL 61058-1, including the Part standards that corresponds to the system component; or

8) UL 61496-1, including the Part standards that corresponds to the system component.

Examples of such components include switches, relays, sensors, controls, electrically operated door locks and emergency stop devices.

19.4 With regard to 19.3(a), internal electrical faults are not required on controls that comply with one of the following:

a) Type 2 protective controls or Type 2 operating controls that comply with CSA E60730-1 or UL 60730-1, and the Part 2 standard applicable to the component;

b) Safety controls that comply with CSA C22.2 No. 205 or UL 916;

c) Controls with an access control endurance rating of IV that comply with ULC ~~S349~~[60839-11-1](#) or UL 294;

d) Switches, contactors or industrial control relays that comply with their applicable standard in 18.5 with a minimum 100,000 cycle endurance rating for their intended load in the germicidal system; or

e) Type 4 electro-sensitive protective equipment (ESPE) that comply with CSA E61496-1 or UL 61496-1.

## E3.4 Test procedure

### E3.4.1 General

E3.4.1.1 To normalize motion detectors that have different thresholds for on and off state, all motion detectors shall be tested [both](#) in the "ON" [and](#) "OFF" state, as long as there is a visible indication of motion detection.

[E3.4.1.4 Compliance is determined by conducting both the Radial and Tangential Motion Test methods in turn.](#)

## BSR/UL 8803, Standard for Safety for Portable UV Germicidal Equipment With Uncontained UV Sources

### 1. Proposed Adoption Of The First Edition Of The Standard For Portable UV Germicidal Equipment With Uncontained UV Sources, UL 8803, As A UL Standard For The U.S. and Canada

## PROPOSAL

### 1 Scope

1.1 These requirements apply to portable germicidal equipment intended to expose the air and surfaces within an unoccupied area with uncontained ultraviolet (UV) energy. These requirements address equipment intended to remain stationary while in operation, and intended for use by ordinary persons ~~in household and similar environments~~. The equipment may also produce visible light.

1.3 These requirements do not cover:

- a) Hand-held equipment;
- b) Equipment that does not use a motion detection function as a safeguard; ~~or~~
- c) Equipment that uses a wireless or remote control (i.e.: a control not physically part of the same device) to initiate or extend an operating cycle; ~~or~~ NOTE: wireless/remote controls are still allowed to terminate an operating cycle.

d) devices intended for sterilization of equipment covered by other standards, such as UL 8802.

1.6 These requirements address risk of personal injury due to overexposure to UV emissions. To address other safety considerations (e.g.: risk of fire or electric shock, or personal injury risks besides UV) this Standard shall be used in conjunction with CSA C22.2 No. 250.4 / UL 153, Portable Luminaires. All construction, performance and marking requirements in ~~this standard~~ those standards apply unless specifically exempted or superseded by a requirement in this Standard.

1.7 ~~UV germicidal equipment~~ Equipment that emit electromagnetic energy with wavelengths ~~greater than 700 nm outside of the 200-400 nm or less than 200 nm range~~ are not fully addressed by this ~~S~~ standard, and may require an additional evaluation.

### 2 Components

~~2.1 Except as indicated in 2.2, a component of equipment covered by this Standard shall comply with the requirements for that component.~~

~~2.2 A component is not required to comply with a specific requirement that:~~

- ~~a) Involves a feature or characteristic not required in the application of the component in the product covered by this Standard; or~~
- ~~b) Is superseded by a requirement in this Standard.~~

~~2.3 A component shall be used in accordance with its rating established for the intended conditions of use.~~

2.3 Specific components are incomplete in construction features or restricted in performance capabilities. Such components are intended for use only under limited conditions, such as certain temperatures not exceeding specified limits, and shall be used only under those specific conditions.

## 4 Referenced Publications

[IEC 62471-6](#)

[Photobiological safety of lamps and lamp systems – Part 6: Ultraviolet lamp products](#)

[IES \(Illuminating Engineering Society\)](#)

[ANSI/IES RP-27.1](#)

[Recommended Practice for Photobiological Safety for Lamps & Lamp Systems – General Requirements](#)

[ANSI/IES RP-44](#)

[Recommended Practice: Ultraviolet Germicidal Irradiation \(UVGI\)](#)

5.5 EXEMPT PERIMETER – The boundary, ~~as declared by the manufacturer and verified by test,~~ around the equipment formed by the line-of-sight distance from its geometric center to ~~the horizontal~~ points where UV emissions are considered Risk Group 0 (~~exempt) for actinic and near UV, when these~~ ~~Exempt~~). ~~These~~ points are drawn on the horizontal plane formed by the floor. See Figure 5.1 for a graphical representation of this perimeter.

~~NOTE 1:~~NOTE 1: This boundary is declared by the manufacturer and verified by test. By definition, persons standing at the edge of this boundary do not require additional safeguards against UV overexposure, as defined by IEC 62471, [CSA-C22.2 No. 62471](#), or [ANSI/IES RP-27.1](#), when the emitter is operating.

NOTE 2: Figure 5.1 is for reference purposes only. The perimeter's shape will depend on device design and may not be circular or symmetrical. In addition, when the line-of-sight distances for actinic and near UV are different, the ~~smaller~~ [larger](#) of the two values are used to determine the exempt perimeter.

## 7 Photobiological Hazards

### 7.1 Photobiological Assessment

7.1.1 The equipment shall be subjected to a photobiological assessment for actinic and near UV hazards from 200 nm through 400 nm in accordance with the requirements in CSA C22.2 No. 62471 (in Canada) or IEC 62471 (in the United States). [At the manufacturer's request, the photobiological assessment may alternatively be conducted in accordance with ANSI/IES RP-27.1.](#)

7.1.3 Controls intended to interrupt equipment operation (e. g. motion detectors, etc.) shall be bypassed or disabled so that the equipment will operate continuously during the photobiological assessment, except ~~as noted~~ [for controls of the types identified](#) in 7.1.4.

7.1.5 The result of the assessment in 7.1.1 – 7.1.4 is considered acceptable if the equipment achieves a classification of Risk Group 0 (Exempt) for actinic and near UV hazards at the exempt perimeter.

~~Equipment classified as Risk Group 1, 2 or 3 at the exempt perimeter is not permitted.~~

Table 7.1

~~Required~~ Maximum [Allowed](#) Operating Cycle Time by Risk Group at 200 mm

Risk Group	Cycle Time
3	1 hour
2	3 hours
1	8 hours
0	Unlimited

9.5 For all equipment, the safety instructions shall include the following safeguards verbatim or in equally definitive terminology. If a specific safeguard does not apply to a particular type of equipment, the safeguard may be modified or deleted as appropriate:

### IMPORTANT SAFEGUARDS

When using electrical equipment, basic safety precautions should always be followed including the following:

- a) READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- b) This equipment uses ~~a~~an ultraviolet (UV) source and must be used in compliance with its markings and instructions to prevent the user's eye and bare skin from exposure to harmful UV or optical radiation. Follow the instructions for correct placement of the equipment and the precautions for securing the area before initiating equipment operation.
- c) IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT PERSONS WILL NOT BE EXPOSED TO EXCESSIVE UV RADIATION DURING EQUIPMENT OPERATION. THIS WILL REQUIRE THE USER TO ENSURE THAT THE SPACE BEING TREATED HAS BEEN VACATED PRIOR TO ENGAGING THE EQUIPMENT.
- d) THIS DEVICE IS EQUIPPED WITH SAFEGUARDS TO DISENGAGE THE UV SOURCE WHEN MOTION IS DETECTED IN THE VICINITY OF THE DEVICE. DO NOT TAMPER WITH, MODIFY OR DISABLE ANY SAFEGUARD OR OPERATIONAL FEATURE OF THIS DEVICE. STOP USING THIS DEVICE AND CONTACT THE MANUFACTURER IF YOU SUSPECT THAT THE MOTION DETECTOR IS NOT FUNCTIONING PROPERLY.
- e) IF USED IMPROPERLY THIS DEVICE MAY POSE A RISK OF PERSONAL INJURY FROM UV OVEREXPOSURE. IT IS THE RESPONSIBILITY OF THE USER TO READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
- f) To reduce the risk of injury, close supervision is necessary when this device is used near children.
- g) When replacing lamps, ~~1) unplug this device from the electrical outlet, or UV sources, disconnect power~~ and ~~2)~~ replace only with the lamps for which the equipment is marked and intended.  
NOTE: Item (g) applies only to equipment with user-replaceable lamps.
- h) Always ~~unplug~~disconnect this device from the ~~electrical outlet~~power source immediately after use.
- i) The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- j) Do not use this equipment for other than its intended use.

### SAVE THESE INSTRUCTIONS

**D2.7 Motion Detector** – The integral control employed to detect motion. This control can be implemented using a single detector or with a system of multiple detectors. The detectors can consist of one or a combination of various sensing technologies (e.g. passive infrared, ultrasonic, microwave).

NOTE: In some standards, this device may be referred to as a “occupancy detector.”

D3.3.1 The test subject (e.g., person) for the testing shall meet the following criteria:

- a) A height of 1.57 – 1.85 m (62 – 73 inches);
- b) A mass of 77 ± 9 kg (170 ± 20 pounds); and

c) Dressed in a short-sleeved shirt, long pants, and shoes, with their head and hands exposed. The person shall not wear a coat or other insulated garments. Clothing shall fit the person with no hanging or swaying material.

NOTE: The manufacturer may consider additional testing at different statures.

D3.4.1.1 To normalize motion detectors that have different thresholds for on and off state, all motion detectors shall be tested in both the "ON" and "OFF" state, as long as there is a visible indication of motion detection.

D3.4.1.4 Compliance is determined by conducting both the Radial and Tangential Motion Test methods in turn.

D3.4.3.4 The test is considered complete once motion has been detected across the entire HFOV of the sample's detector. For each positive **cell**, the distance from the center of the cell to the center of the sample shall be measured and recorded, in turn. A tabulation or plot of this data shall be used to determine the motion detector's coverage area. See Table 3D3.2 for a determination example.

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## **BSR/UL 514C, Standard for Safety for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers**

### **1. Topic – Addition of requirements for Deck Boxes and Rooftop Deck Boxes**

## **PROPOSAL**

### **1 Scope**

[1.4 These requirements do not cover junction boxes for swimming pool luminaires.](#)

### **3 Glossary**

[3.15 DECK BOX - A box provided with means for flush mounting in outdoor deck applications.](#)

[3.16 ROOFTOP DECK BOX - A box provided with means for flush mounting in an outdoor raised deck that is located directly above a roof structure.](#)

### **93 Instructions**

[93.7 A Deck Box or Rooftop Deck Box shall have installation instructions that specify that the Deck Box or Rooftop Deck Box is not for use as a junction box for swimming pool luminaires.](#)

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## BSR/UL 719, Standard for Safety for Nonmetallic-Sheathed Cables

### 1. Tag Marking, New 6.21 (f) and Revised 6.2.3 and 6.2.9

#### PROPOSALS

**Note from the TC Project Manager: For brevity only part of the 6.2.1 clause and new item are shown.**

6.2.1 A tag on which the following information is indicated plainly (the sequence of the items is not specified) shall be tied to every shipping length of finished cable. However, where the cable is wound on a reel or coiled in a carton, it is appropriate for the tag to be glued, tied, stapled, or otherwise attached to the reel or carton instead of to the cable, or for the tag to be eliminated and the information printed or stenciled directly onto the reel or carton. Other information, where added, shall not confuse or mislead (see 6.2.4 – 6.2.6) and shall not conflict with these requirements. See 6.2.10 for date marking.

f) "Verify terminations are suitable for use with the conductor material"

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

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

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

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

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

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

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



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

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

## PROPOSAL

**Table 21.6**  
**Typical Number of Specimens Required for Thermal Aging of Film Materials**

Test			Specimens				
Test material	Property	Method	Thickness mm	Number per set	Number for initial tests	Number for all temperatures	Total <sup>d, e, f</sup>
Candidate (proposed)	Tensile strength and/or elongation <sup>e, f, g</sup>	UL 746A	MT <sup>a</sup>	5	10	220	230
			ST-Candidate <sup>a</sup> MT <sup>b</sup>	5	10	110	120
	Dielectric strength <sup>f, h</sup>	UL 746A	MT <sup>a</sup> MT <sup>b</sup>	5	10	220	230
			MT <sup>a</sup> MT <sup>b</sup>	40 5	10	160	170
Control (known)	Tensile strength and/or elongation <sup>e, f, g</sup>	UL 746A	MT <sup>a</sup>	5	10	220	230
			ST-Control <sup>c</sup>				
	Dielectric strength <sup>f, h</sup>	UL 746A	MT <sup>a</sup>	5	10	220	230
			ST-Control <sup>c</sup>				

<sup>a</sup> MT represents the minimum thickness evaluated. ST-Candidate: Any thickness below 0.25 mm for films and below 0.99 mm for thin sheets that undergoes 4 point aging program for the candidate

<sup>b</sup> It is recommended to prepare samples in excess of more than this total in case there is a dispute of the results and a reevaluation is considered necessary. MT: Minimum thickness evaluated for the candidate

<sup>c</sup> For example, 5 specimens per 5 initial sets (B – F) plus 5 specimens per 3 delayed sets (G – I) plus 5 specimens for 3 extra sets (J – L) equals 55 specimens, multiplied by 4 temperatures equals 220 specimens plus 10 unaged (set A) specimens equals 230 total specimens. ST-Control: Thickness at which control was evaluated for 4 point aging to get its RTI rating.

<sup>d</sup> It is recommended to prepare samples in excess of this total in case there is a dispute of the results and re-evaluation is considered necessary.

Test			Specimens				
Test material	Property	Method	Thickness mm	Number per set	Number for initial tests	Number for all temperatures	Total <sup>d,e,f</sup>
<p><sup>e,g</sup> For example, 5 specimens per 5 initial sets (B - F) plus 5 specimens per 3 delayed sets (G - I) plus 5 specimens for 3 extra sets (J - L) equals 55 specimens, multiplied by 4 temperature equals 220 specimens plus 10 unaged (set A) specimens equals 230 total specimens.</p> <p><sup>d,f</sup> <u>For anisotropic materials, total number of samples are cut in each machine and transverse direction.</u></p> <p><sup>e,g</sup> Test specimens cut in the form of rectangular strips of dimension 25.4 mm (1.0 in.) by 203.2 mm (8.0 in.) are found to be useful in accordance with the Standard Test Method for Tensile Properties of Thin Plastic Sheeting, ASTM D882 or Plastics – Determination of tensile properties – Part 3: Test conditions for films and sheets, ISO 527-3.</p> <p><sup>f,h</sup> In accordance with the Standard Test Method for Thermal Endurance of Flexible Sheet Materials Used for Electrical Insulation by the curved Electrode Method, ASTM D1830 or the Standard Test Method for Dielectric Breakdown Voltage and Dielectric Strength of Solid Electrical Insulating Materials at Commercial Power Frequencies, ASTM D149 or Electric strength of insulating materials – Test methods – Part 1: Tests at power frequencies, IEC 60243-1.</p>							

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## BSR/UL 854, Standard for Safety for Service-Entrance Cables

### 1. Tag Marking, Revised 45.5 and Addition of New 47.1 (k)

#### PROPOSALS

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

- ~~a) "Copper-clad aluminum shall be used only with equipment marked to indicate that it is for use with aluminum conductors. Terminate copper-clad aluminum with pressure wire connectors marked 'AL-CU' or 'CC-CU'."~~
- ~~b) For 12—10 AWG solid copper-clad aluminum "May be used with switches and receptacles with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with solid copper conductors".~~
- ~~c) For 12—10 AWG stranded copper-clad aluminum "May be used with receptacles with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors"~~
- ~~d) For 12—10 AWG stranded copper-clad aluminum "May be used with switches with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors, if indicated either on the device or in the installation instructions".~~
- ~~e) "Where physical contact between any combination of copper-clad aluminum, copper, and aluminum conductors occurs in a wire connector, the connector shall be of a type marked for such intermixed use and the connection shall be limited to dry locations only".~~

**Note from the TC Project Manager: For brevity only part of the clause 47.1 and new item are shown.**

47.1 A tag on which the following information is indicated plainly (the sequence of the items is not specified) shall be tied to every shipping length of finished cable. However, where the cable is wound on a reel or coiled in a carton, it is appropriate for the tag to be glued, tied, stapled, or otherwise attached to the reel or carton rather than to the cable, or for the tag to be eliminated and the information printed or stenciled directly onto the reel or carton. Other information where added shall not confuse or mislead and shall not conflict with these requirements. See 39.1.1 for date marking. See 37.5.

- k) "Verify terminations are suitable for use with the conductor material."

**BSR/UL 1026, Standard for Household Electric Cooking and Food Serving Appliances****2. Clarify Strain Relief Test Requirement****PROPOSAL**

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

10.2.2.6 The cord shall be cut closest to the electrical connections to allow visibility to the conductors within the jacket. The specified force is to be applied to the cord and supported by the appliance so that the strain-relief means will be is stressed from any angle that the construction of the appliance permits. The means of affording strain relief is not acceptable if either:-

- a) at the point of disconnection of the conductors, there is such movement of the cord to indicate that stress would have resulted on the connections. The cord jacket has moved such that it cannot meet the electrical connections without stress; or
- b) The cord shall not have internal displacement lengthwise conductors have been displaced by more than 0.078 in (2 mm) within the cord jacket .

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## BSR/UL 1581, Standard for Safety for the Reference Standard for Electrical Wires, Cables, and Flexible Cords

### PROPOSALS

#### 1. Update Outside References Throughout the Standard

10.2 The wire shall be of a registered 8000 series electrical-conductor-grade aluminum alloy complying with ASTM B 800-05. The conductor diameter and cross-sectional area shall comply with Conductor Diameter and Cross-Sectional Area, Section 20. The d-c resistance of the conductors shall comply with DC Conductor Resistance, Section 30.

10.3 The temper of the wire of the finished conductor shall be annealed (-0) or intermediate (-H1X) or (-H2X). The tensile strength and elongation (see note b to Table 10.1) of the finished stranded conductor tested as a unit or of the individual strands removed from the finished conductor or of the finished solid conductor shall comply with Table 10.1 when specimens are tested at a speed of 1 in/min or 25 mm/min using the equipment and procedure described in ASTM B 557-06.

**NOTE from the STP Project Manager: Below is revised note a in Table 10.1. For brevity, the rest of the table is not included.**

<sup>a</sup> For the purpose of determining compliance with the tabulated limits, test results are to be rounded as follows after specimens are tested at a speed of 1 in/min or 25 mm/min using the equipment and procedure described in ASTM B 557-06:

- 1) Each calculated value of tensile strength is to be rounded to the nearest 100 lbf/in<sup>2</sup> or 1 MPa.
- 2) Each value of elongation is to be rounded to the nearest 0.5 percent as described in the rounding method in ASTM E 29-06b.

**NOTE from the STP Project Manager: Below are revised notes a and b in Table 50.133. For brevity, the rest of the table is not included.**

<sup>a</sup> LDFRPE designates a compound whose characteristic constituent is thermoplastic polyethylene, with the base resin (uncolored material) having a nominal density in the range of 0.910 – 0.925 g/cm<sup>3</sup> (resin identified as Type I in ASTM D 1248-05) and a high molecular weight.

<sup>b</sup> HDFRPE designates high-density polyethylene, a compound whose characteristic constituent is thermoplastic polyethylene, with a base resin (uncolored material) having a nominal density in the range of 0.941 – 0.959 g/cm<sup>3</sup> (resin identified as Type III in ASTM D 1248-05) and a high molecular weight.

**NOTE from the STP Project Manager: Below is revised note a in Table 50.135. For brevity, the rest of the table is not included.**

<sup>a</sup> HDPE designates a high-density-polyethylene compound whose characteristic constituent is thermoplastic polyethylene, with the base resin (uncolored, unfilled material) having a nominal density in the range 0.941– 0.959 g/cm<sup>3</sup> (resin identified as Type III in ASTM D 1248-05) and a high molecular weight.

**NOTE from the STP Project Manager: Below are revised notes a and b in Table 50.136. For brevity, the rest of the table is not included.**

<sup>a</sup> LDPE designates a compound whose characteristic constituent is thermoplastic polyethylene, with the base resin (uncolored, unfilled material) having a nominal density in the range of 0.910 – 0.925 g/cm<sup>3</sup> (resin identified as Type I in ASTM D 1248-05) and a high molecular weight.

<sup>b</sup> HDPE designates a high-density-polyethylene compound whose characteristic constituent is thermoplastic polyethylene, with the base resin (uncolored, unfilled material) having a nominal density in the range of 0.941 – 0.959 g/cm<sup>3</sup> (resin identified as Type III in ASTM D 1248-05) and a high molecular weight.

480.9 The specifications for this test are located in Physical Properties, Gasoline Resistance, in the Standard for Wire and Cable Test Methods, UL 2556. The immersion vessel and specimens for the immersion tests of gasoline-resistant Type TFN and TFFN fixture wires are to be as indicated in 480.8, with 1 inch or 25 mm of tap water at the bottom and the remainder of the vessel filled with ASTM Reference Fuel C, which is described in ASTM D 471-06.

**NOTE from the STP Project Manager: Below is the revised portion of 1090.14. For brevity, the rest of the clause is not included.**

1090.1 A horizontal specimen of finished appliance wire:

- a) Shall not convey flame along its length, and
- b) Shall not convey flame to combustible materials in its vicinity after a single 30-s application of a 225-W test flame (770 Btu/h) nominally 50 mm high. This test is to be conducted as described in 1090.2 – 1090.6 (specimen supported horizontally) using one of the fuels described in 1090.1.1 and the standard laboratory burner described in ASTM D 5025-05. The gas flame produced by the burner is to be calibrated as described in ASTM D 5207-03 with the following modifications to adapt the procedure for the 125-mm flame to the 50-mm flame...

## **2. Add New 3.2 to Clarify that “Elongation” and “Ultimate Elongation” are Interchangeable**

NEW

3.2 The term “ultimate elongation and “elongation” are to be interpreted as interchangeable throughout the standard.

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