

## CONTENTS

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### American National Standards

Project Initiation Notification System (PINS) .....	2
Call for Comment on Standards Proposals .....	11
Final Actions - (Approved ANS) .....	24
Call for Members (ANS Consensus Bodies) .....	29
American National Standards (ANS) Process .....	36
Accreditation Announcements (Standards Developers) .....	37
Meeting Notices (Standards Developers) .....	38
ANS Under Continuous Maintenance .....	39
ANSI-Accredited Standards Developer Contacts .....	40

### International Standards

ISO and IEC Draft Standards .....	43
ISO and IEC Newly Published Standards .....	46
Accreditation Announcements (U.S. TAGs to ISO) .....	49
International Organization for Standardization (ISO) .....	50

### Information Concerning

Registration of Organization Names in the United States .....	52
Proposed Foreign Government Regulations .....	53

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

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

### Revision

BSR/AHRI Standard 850 (SI/I-P)-202x, Performance Rating of Commercial & Industrial Air Filter Equipment (revision, redesignation and consolidation of ANSI/AHRI Standard 850-2013 (R2023) (I-P) and ANSI/AHRI Standard 851-2013)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors and users.

Project Need: To revise ANSI/AHRI Standard 850-2013 and ANSI/AHRI Standard 851-2013 to bring the standards up to date with the method of test (MOT) revisions for particle removal efficiency and ozone.

Interest Categories: Component Manufacturer, General Interest, Product Manufacturer, and Testing Laboratory

The purpose of this standard is to establish for commercial and industrial Air Filter Equipment: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions.

## ASA (ASC S3) (Acoustical Society of America)

Raegan Ripley <[standards@acousticalsociety.org](mailto:standards@acousticalsociety.org)> | 1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 [www.acousticalsociety.org](http://www.acousticalsociety.org)

### Revision

BSR/ASA S3.22-202x, Specification of Hearing Aid Characteristics (revision of ANSI/ASA S3.22-2014 (R2020))

Stakeholders: Hearing aid manufacturers, audiologists and dispensers, educators, consumers, US FDA

Project Need: Editorial and technical update; Harmonize with IEC 60118-0:2022; Include new information about OTC hearing aids, supplemental measurements, and measurement uncertainty

Interest Categories: Producer; User; General Interest

The standard describes measurement methods for air-conduction hearing aids suitable for specification and quality testing purposes. Test methods described include output sound pressure level (SPL) with a 90 dB input SPL, full-on gain, frequency response, harmonic distortion, equivalent input noise, current drain, and induction-coil sensitivity. Allowable tolerances in relation to values specified by the manufacturer are also provided for these parameters. Specific configurations are given for measuring the input SPL to a hearing aid. A normative annex describes calibration of the sound source. Informative annexes provide characteristics of battery simulators additional tests to evaluate the electroacoustic performance of hearing aids, and information about measurement uncertainty for quality assurance.

**ASABE (American Society of Agricultural and Biological Engineers)**

Jean Walsh <[walsh@asabe.org](mailto:walsh@asabe.org)> | 2950 Niles Road | Saint Joseph, MI 49085 <https://www.asabe.org/>

***New Standard***

BSR/ASABE S665 MONYEAR-202x, Crop Protection Equipment – Test methods for the evaluation of targeted spray application systems (new standard)

Stakeholders: Ag manufacturers, Pesticide manufacturers, regulators, farmers/growers

Project Need: Application technologies are rapidly changing, and multiple introductions of targeted spray technologies have outpaced the ability of plant protection product manufacturers and the EPA to recognize their advantages and opportunities in plant protection product labels. Opportunities to introduce new plant protection products, expand the use of current portfolios, and achieve environmental protection goals are missed pending revisions to current EPA risk assessment processes.

Interest Categories: Government, Producer, Safety, User

The scope of this work will define performance standard(s) for targeted spray application for row crop boom type sprayer configurations. These performance standard(s) will provide guidelines of plant protection product usage for registrants and regulators, e.g., EPA, when using this technology.

**ASSP (Safety) (American Society of Safety Professionals)**

Rick Blanchette <[rblanchette@assp.org](mailto:rblanchette@assp.org)> | 520 N. Northwest Highway | Park Ridge, IL 60068 [www.assp.org](http://www.assp.org)

***Revision***

BSR/ASSP Z244.1-202x, The Control of Hazardous Energy - Lockout, Tagout and Alternative Methods (revision and redesignation of ANSI/ASSP Z244.1-2016 (R2020))

Stakeholders: OSH professionals

Project Need: Based upon the consensus of the Z359 committee and the leadership of ASSP

Interest Categories: OSH professionals

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

**ATIS (Alliance for Telecommunications Industry Solutions)**

Drew Greco <[dgreco@atis.org](mailto:dgreco@atis.org)> | 1200 G Street NW, Suite 500 | Washington, DC 20005 [www.atis.org](http://www.atis.org)

***Revision***

BSR/ATIS 0300091-202x, Structure for Global Serialization of Information and Communications Technology (ICT) Network Infrastructure Equipment (revision of ANSI/ATIS 0300091-2018)

Stakeholders: Communications industry

Project Need: There is a need to update this Standard.

Interest Categories: General Interest Producer User

This standard provides a format and structure for assigning serial numbers to telecommunications infrastructure equipment.

**ATIS (Alliance for Telecommunications Industry Solutions)**

Drew Greco <[dgreco@atis.org](mailto:dgreco@atis.org)> | 1200 G Street NW, Suite 500 | Washington, DC 20005 [www.atis.org](http://www.atis.org)

**Revision**

BSR/ATIS 0300220-202x, Representation of the Communications Industry Manufactures, Suppliers, and Related Service Companies for Information Exchange (revision of ANSI/ATIS 0300220-2018)

Stakeholders: Communications industry

Project Need: There is a need to update this Standard.

Interest Categories: General Interest Producer User

This standard provides the code and format structure for the representation of the names of communications industry manufacturers, suppliers, and related service companies for the purpose of efficient information exchange.

**CRRC (Cool Roof Rating Council)**

Sarah Schneider <[sarah@coolroofs.org](mailto:sarah@coolroofs.org)> | 2435 N. Lombard Street | Portland, OR 97217 [www.coolroofs.org](http://www.coolroofs.org)

**Revision**

BSR/CRRC S100-202x, Standard Test Methods for Determining Radiative Properties of Materials (revision of ANSI/CRRC S100-2021)

Stakeholders: Roofing or exterior wall manufacturers; specifiers; architects; contractors; building owners and facility managers; testing laboratories; weathering farms; building enclosure consultants and engineers; code bodies; building officials; general interest

Project Need: A periodic update of the CRRC S100 is needed. The project will also introduce specimen preparation and test methods for determining the initial and aged solar reflectance and thermal emittance of exterior wall materials to the CRRC S100.

Interest Categories: Users, Producers, General Interest

CRRC S100 covers specimen preparation and test methods for determining the initial and aged solar reflectance and thermal emittance of roofing products.

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

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

**National Adoption**

BSR/INCITS/ISO 19150-6:2023 [202x], Geographic information - Ontology - Part 6: Service ontology register (identical national adoption of ISO 19150-6:2023)

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 standard registration and maintenance mechanism for the registration of ISO 19150-4-conformant geographic information service ontologies.

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

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

**National Adoption**

BSR/INCITS/ISO 19160-4:2023 [202x], Addressing - Part 4: International postal address components and template language (identical national adoption of ISO/IEC 19160-4:2023 and revision of INCITS/ISO 19160-4:2017 [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

Defines key terms for postal addressing, postal address components and constraints on their use. Specifically, this document specifies postal address components organized into three hierarchical levels: elements, such as organization name or postcode, which have well-defined conceptual meaning and are not themselves made up of subordinate components, though they can be subdivided for technical purposes; constructs, such as organization identification, which group elements into units form a logical portion of a postal address; segments, such as addressee specification, which group related postal address constructs and/or postal address elements into units with a specific defined function.

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

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

**National Adoption**

BSR/INCITS/ISO 19131:2022 [202x], Geographic information — Data product specifications (identical national adoption of ISO 19131:2022 and revision of INCITS/ISO 19131:2007 [R2022])

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 requirements for the specification of geographic data products, based upon the concepts of other International Standards in the ISO 19100 family of standards. It also provides guidance in the creation of data product specifications, so that they can be easily understood and fit for their intended purpose.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 7816-6:2023 [202x], Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange (identical national adoption of ISO/IEC 7816-6:2023 and revision of INCITS/ISO/IEC 7816-6:2016 [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

Specifies directly or by reference, data elements, including composite data elements that are applicable to interindustry interchange. It identifies the following characteristics of each data element: identifier; name; description and reference; format and coding (if not available in other ISO standards or parts of the ISO/IEC 7816 series). The layout of each data element is described as seen at the interface between the interface device and the card. This document provides the definition of data elements without consideration of any restrictions on the usage of the data elements.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 18013-2:2020/AM1:2023 [202x], Personal identification - ISO-compliant driving licence - Part 2: Machine-readable technologies - Amendment 1: DG11 length for compact encoding (identical national adoption of ISO/IEC 18013-2:2020/AM1:2023)

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 1 to ISO/IEC 18013-2:2020.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 18013-3:2017/AM2:2023 [202x], Information technology - Personal identification - ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation - Amendment 2: Updates for passive authentication (identical national adoption of ISO/IEC 18013-3:2017/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 18013-3:2017/AM2:2023.

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

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**National Adoption**

BSR/INCITS/ISO/IEC 23220-1:2023 [202x], Cards and security devices for personal identification - Building blocks for identity management via mobile devices - Part 1: Generic system architectures of mobile eID systems (identical national adoption of ISO/IEC 23220-1:2023)

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 generic system architectures and generic life-cycle phases of mobile eID systems in terms of building blocks for mobile eID system infrastructures. It standardizes interfaces and services for mdoc apps and mobile verification applications. It is applicable to entities involved in specifying, architecting, designing, testing, maintaining, administering and operating a mobile eID system in parts or entirely.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 23465-1:2023 [202x], Card and security devices for personal identification - Programming interface for security devices - Part 1: Introduction and architecture description (identical national adoption of ISO/IEC 23465-1:2023)

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

Introduces and describes the concept of the application programming interface (API) to security devices with the intention to simplify the usage of commands and mechanisms defined by the ISO/IEC 7816 series. This document gives guidelines on: the system overview and description of the system of the programming interface; the architecture description; the data model in general, used by the API; the use cases and the usage model of the API.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 8652:2023 [202x], Information technology - Programming languages - Ada (identical national adoption of ISO/IEC 8652:2023)

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 the form and meaning of programs written in Ada. Its purpose is to promote the portability of Ada programs to a variety of computing systems.

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

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

**National Adoption**

BSR/INCITS/ISO/IEC 23488:2022 [202x], Information technology - Computer graphics, image processing and environment data representation - Object/environmental representation for image-based rendering in virtual/mixed and augmented reality (VR/MAR) (identical national adoption of ISO/IEC 23488:2022)

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 an image-based representation model that represents target objects/environments using a set of images and optionally the underlying 3D model for accurate and efficient objects/environments representation at an arbitrary viewpoint. It is applicable to a wide range of graphic, virtual reality and mixed reality applications which require the method of representing a scene with various objects and environments.

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

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

### ***National Adoption***

BSR/INCITS/ISO/IEC 25059:2023 [202x], Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Quality model for AI systems (identical national adoption of ISO/IEC 25059:2023)

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

Outlines a quality model for AI systems and is an application-specific extension to the standards on SQuaRE. The characteristics and sub-characteristics detailed in the model provide consistent terminology for specifying, measuring and evaluating AI system quality. The characteristics and sub-characteristics detailed in the model also provide a set of quality characteristics against which stated quality requirements can be compared for completeness.

## **NISO (National Information Standards Organization)**

Keondra Bailey <[kbailey@niso.org](mailto:kbailey@niso.org)> | 3600 Clipper Mill Road, Suite 302 | Baltimore, MD 21211 [www.niso.org](http://www.niso.org)

### ***New Standard***

BSR/NISO Z39.107-202x, Accessibility Remediation Metadata (ARM) (new standard)

Stakeholders: metadata specialists, accessibility specialists, libraries, publishers and distributors of scholarly research outputs, DSOs participating in the FRAME project, remediation service providers

Project Need: Extend and refine the FRAME metadata model to meet the needs of the broader accessibility community, focused on individuals and organizations involved in the remediation of content for accessibility and the consumption of remediated content.

Interest Categories: producers; users; general interest

The Andrew W. Mellon Foundation-funded project, "FRAME: Federating Repositories of Accessible Materials for Education," was formed to eliminate redundant work and facilitate the sharing of remediated resources. As no standard metadata describing the process and results of remediation for accessibility in sufficient detail existed, the FRAME metadata model was developed to enable both discovery and deposit functions. It is proposed that a NISO Working Group be established to extend and refine the FRAME metadata model to meet the needs of the broader accessibility community, focused on individuals and organizations involved in the remediation of content for accessibility and the consumption of remediated content.

**RESOLVE (Resolve, Inc.)**

Mason Hines <[mhines@resolve.ngo](mailto:mhines@resolve.ngo)> | 2445 M Street, NW, Suite 550 | Washington, DC 20037 [www.resolve.ngo](http://www.resolve.ngo)

***New Standard***

BSR/RESOLVE RES-002-202x, Reusable packaging system design specifications and recommendations: Third-party washing, sanitization & handling of foodware (new standard)

Stakeholders: Businesses: Including consumer goods companies, restaurant and food service companies, retailers, reuse service providers, product manufacturers or component suppliers. Consumers: Individual consumers, organizations that represent consumers, or community groups. Workers: Individuals or organizations that represent formal or informal workers in roles related to or impacted by reusable packaging, including but not limited to workers at manufacturing facilities, food service and retail businesses, container sorting and washing facilities, transport and logistics companies, and workers in recycling or waste collection. Government: Representatives from national or local government agencies, including food and drug agencies, health or environmental agencies, public utilities, or other agencies that may be involved in aspects of packaging regulation, production, use, or end-of-life. Testing and Standards: Organizations that test and/or certify products, services, or systems covered by the standards, or that develop standards/codes related to the products, services, or systems covered by the standards. General interest: Community activists, academia, scientists, expert consultants, etc. that are not covered by the other participation categories, such as representatives from groups impacted by packaging production or waste, professional societies and trade associations, attorneys, or food safety experts.

Project Need: As reusable packaging systems have rapidly emerged in recent years, they have been designed independently and are mostly small-scale and disconnected. This standard will help align systems and infrastructure, creating interoperability, efficiencies, convenience, and cost savings.

Interest Categories: Businesses including consumer goods companies, restaurant and food service companies, retailers, reuse service providers, product manufacturers or component suppliers; Consumers; Workers; Government Testing and Standards (Organizations that test and/or certify products, services, or systems covered by the standards); General interest

This standard specifies minimum requirements and recommendations for washing, rinsing, sanitization, and drying of reusable foodware containers. It also provides requirements and recommendations for the handling processes for these containers during their collection and distribution.

**SCTE (Society of Cable Telecommunications Engineers)**

Natasha Aden <[naden@scte.org](mailto:naden@scte.org)> | 140 Philips Road | Exton, PA 19341-1318 [www.scte.org](http://www.scte.org)

***New Standard***

BSR/SCTE DVS 1603-202x, MPEG DASH for IP-Based Cable Services Part 6: Low-latency Fast-Switching DASH Profile (new standard)

Stakeholders: Cable Telecommunications Industry

Project Need: Create new standard

Interest Categories: Producer, User, General Interest

This specification defines a profile of MPEG DASH along with several extensions, geared towards a low-latency applications where fast tune-in and/or fine-grain random access functionality is needed. This profile is written for MPEG DASH. It assumes compliance with SCTE 214-1, DASH-IF IOP v5, and ISO/IEC 23009-1 (5th ed and later) unless where explicitly stated otherwise.

**SDI (ASC A250) (Steel Door Institute)**

Linda Hamill <[leh@wherryassoc.com](mailto:leh@wherryassoc.com)> | 30200 Detroit Road | Westlake, OH 44145 [www.wherryassocsteeldoor.org](http://www.wherryassocsteeldoor.org)

**Revision**

BSR A250.13-202x, Severe Windstorm Resistant Components for Swinging Door Assemblies for Protection of Building Envelopes (Not applicable for FEMA 320/361 or ICC-500 Shelters (revision of ANSI/SDI/BHMA A250.13-2014 (R2018))  
Stakeholders: Manufacturers, building owners, AHJs,

Project Need: To reflect industry updates that may satisfy the standard's acceptance into the Florida Building Code.

Interest Categories: Producers, Consumers, General Interest

This standard provides procedures for testing and establishing design pressure ratings in pounds per square foot for components of exterior swinging door assemblies for purposes of protection of openings in building envelopes during severe windstorm conditions, such as a hurricane, that produces sustained wind speeds or gusts in a range of 110 to 150 miles per hour as defined by ASCE 7.

**TVC (ASC Z80) (The Vision Council)**

Michele Stolberg <[ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)> | 225 Reinekers Lane, Suite 700 | Alexandria, VA 22314 [www.z80asc.com](http://www.z80asc.com)

**Revision**

BSR Z80.10-202x, Ophthalmics - Ophthalmic Instruments - Tonometers (revision of ANSI Z80.10-2018)

Stakeholders: ophthalmologists, optometrists, FDA

Project Need: Begin updating for ANSI 5 year review.

Interest Categories: Nationwide organizations of manufacturers and ophthalmic laboratories, professional organizations of ophthalmologists, optometrists, and opticians, federal agencies that are purchasers of ophthalmic materials, and individual members, companies, and experts.

This standard, together with ISO 15004-1 Fundamental requirements and test methods – Part 1: General requirements applicable to all instruments, specifies minimum requirements and the design compliance procedure for tonometers intended for routine clinical use in the estimation of intraocular pressure (IOP) for the detection, diagnosis, and management of ocular abnormalities.

# 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 3, 2023

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

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

#### Addenda

BSR/ASHRAE Addendum o to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-474B to Tables 4-2 and D-2.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

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

#### Addenda

BSR/ASHRAE Addendum p to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-486A to Tables 4-2 and D-2.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

## Comment Deadline: September 3, 2023

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

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

#### **Addenda**

BSR/ASHRAE Addendum q to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-487A to Tables 4-2 and D-2.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

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

#### **Addenda**

BSR/ASHRAE Addendum r to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-455B to Tables 4-2 and D-2.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

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

#### **Addenda**

BSR/ASHRAE Addendum s to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-488A to Tables 4-2 and D-2.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

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

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

#### **Addenda**

BSR/ASHRAE Addendum t to ANSI/ASHRAE Standard 34-2022, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2022)

This proposed addendum adds the zeotropic refrigerant blend R-489A to Tables 4-2 and D-2, and adds or revises toxicity values for R-50, R-1150, and R-1270 in Table E-1.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Online Comment Database at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

## Comment Deadline: September 3, 2023

### 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 493-202X, Standard for Safety for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables (revision of ANSI/UL 493-2023)

Revised 4.3.1 based on changes to requirements in NEC related to copper-clad aluminum.

[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 493-202X, Standard for Safety for Thermoplastic-Insulated Underground Feeder and Branch-Circuit Cables (revision of ANSI/UL 493-2023)

Tag Marking, Revised 6.2.3 and 6.2.4.

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

Send comments (copy [psa@ansi.org](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)

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

#### Revision

BSR/UL 588-202x, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2022)

The following is being recirculated for your review: (1) Clarify requirements for series-connected lighting strings employing shrink tubing.

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

Revised 4.3.1 based on changes to requirements in NEC related to copper-clad aluminum.

[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>.

## Comment Deadline: September 3, 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 746A-202x, Standard for Safety for Polymeric Materials - Short Term Property Evaluations (revision of ANSI/UL 746A-2023)

This proposal involves the inclusion of requirements from Paragraph 9.9.3 into Table 9.1. The initial version of the proposal was posted by ULSE in CSDS for ballot on April 7, 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)

Revised 4.3.1 based on changes to requirements in NEC related to copper-clad aluminum.

[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)

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

#### Revision

BSR/UL 879A-202x, Standard for Safety for LED Sign and Sign Retrofit Kits (revision of ANSI/UL 879A-2016)

(1) Clarify the types of kits covered by the standard and (2) Add markings required by the NEC.

[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)

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

#### Revision

BSR/UL 1277-202X, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members (revision of ANSI/UL 1277-2022)

Revised 6.1 based on changes to requirements in NEC related to copper-clad aluminum.

[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>.

## Comment Deadline: September 18, 2023

### **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)

#### **Revision**

BSR/AHRI Standard 1201 SI-202x, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets (revision of ANSI/AHRI Standard 1201 (SI)-2013)

This standard applies to the following manufacturers' standard catalog Commercial Refrigerated Display Merchandisers and Storage Cabinets, provided that the cases are equipped and designed to work with electrically driven, direct expansion type systems: Self-contained and Remote Commercial Refrigerated Display Merchandisers and Storage Cabinets as well as Open and Closed Commercial Refrigerated Display Merchandisers.

Single copy price: Free

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [AHRI\\_Standards@ahrinet.org](mailto:AHRI_Standards@ahrinet.org)

### **ASA (ASC S12) (Acoustical Society of America)**

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | [standards@acousticalsociety.org](mailto:standards@acousticalsociety.org), [www.acousticalsociety.org](http://www.acousticalsociety.org)

#### **Reaffirmation**

BSR S12.1 (R202x), Guidelines for the Preparation of Standard Procedures to Determine the Noise Emission from Sources (reaffirmation of ANSI/ASA S12.1-1983 (R2020))

This Standard contains guidelines for the preparation of procedures (standards, test codes, recommended practices, etc.) for determination of noise emission from sources. Included are the general questions that need to be considered during development of a measurement procedure. Guidelines on the following subjects are included: prefatory material, measurement conditions, measurement operations, data reduction, preparation of a test report, and guidelines for the selection of a descriptor for noise emission.

Single copy price: \$110.00

Obtain an electronic copy from: [standards@acousticalsociety.org](mailto:standards@acousticalsociety.org)

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

### **ASC X9 (Accredited Standards Committee X9, Incorporated)**

275 West Street, Suite 107, Annapolis, MD 21401 | [Ambria.Calloway@X9.org](mailto:Ambria.Calloway@X9.org), [www.x9.org](http://www.x9.org)

#### **Revision**

BSR X9.100-188-202x, Return Reasons for Check Image Exchange and IRDs (revision of ANSI X9.100-188-2018)

This standard is a list of Return Reason codes that are used by the Financial Services industry for image exchange and the creation of IRDs. These codes are currently included within the ANSI X9.100-187 and ANSI X9.100-140 standards. The separation of the Return Reason Codes in its own standard would make updating and adding new codes easier for the X9 work group. It would help facilitate the implementation by banks and vendors when there are new return reason codes.

Single copy price: Free

Obtain an electronic copy from: [ambria.calloway@x9.org](mailto:ambria.calloway@x9.org)

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

## Comment Deadline: September 18, 2023

### **ASSP (Safety) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

#### **Revision**

BSR/ASSP Z359.15-202x, Safety Requirements for Single Anchor Lifelines and Fall Arresters for Personal Fall Arrest Systems (revision and redesignation of ANSI ASSE Z359.15-2014)

This standard establishes requirements for the design criteria, qualification testing (performance requirements), marking and instructions, user inspections, maintenance and storage, and removal from service of single anchor lifelines and fall arresters for users within the capacity range of 110 to 310 pounds (50 to 140 kg).

Single copy price: \$150.00

Obtain an electronic copy from: [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

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

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

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

#### **Revision**

BSR/AWS D14.9/D14.9M-202x-AMD1, Specification for the Welding of Hydraulic Cylinders (revision and redesignation of ANSI/AWS D14.9/D14.9M-2022)

This specification provides standards for the design and manufacture of pressure containing welded joints and structural welded joints used in the manufacture of hydraulic cylinders. Manufacturer's responsibilities are presented as they relate to the welding practices that have been proven successful within the industry in the production of hydraulic cylinders. Included are clauses defining procedure qualification, performance qualification, workmanship and quality requirements as well as inspection requirements and repair requirements.

Single copy price: \$33.00 member; \$44.00 non-member

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Kevin Bulger <[kbulger@aws.org](mailto:kbulger@aws.org)>

### **AWWA (American Water Works Association)**

6666 W. Quincy Avenue, Denver, CO 80235 | [polson@awwa.org](mailto:polson@awwa.org), [www.awwa.org](http://www.awwa.org)

#### **Revision**

BSR/AWWA B130-202x, Membrane Bioreactor Systems (revision of ANSI/AWWA B130-2017)

This standard sets minimum requirements for membrane bioreactor (MBR) membrane equipment systems for water reclamation, water recovery, and/or wastewater treatment systems.

Single copy price: Free

Obtain an electronic copy from: [ETSsupport@awwa.org](mailto:ETSsupport@awwa.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: AWWA, Paul J. Olson

### **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)

#### **Revision**

BSR/IES LM-85-23-202x, IES Approved Method: Optical and Electrical Measurements of LED Sources (revision of ANSI/IES LM-85-2020)

This document provides guidance for the measurement of light emitting diode (LED) sources such as LED packages and LED arrays. The output of an LED source is strongly dependent on its operating conditions— particular, the junction temperature (T<sub>J</sub>).

Single copy price: \$25.00

Obtain an electronic copy from: [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patricia McGillicuddy <[pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)>

## Comment Deadline: September 18, 2023

### ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | [lfranke@isa.org](mailto:lfranke@isa.org), [www.isa.org](http://www.isa.org)

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

BSR/ISA 75.25.01-202x, Test Procedure for Control Valve Response Measurement from Step Inputs (new standard)

This standard defines how to test, evaluate, and report the response of a control valve to a step input change. This standard is intended for use with throttling control valves in closed or open loop control applications. It may apply to other types of final control elements (for example, dampers, variable speed drives). The “control valve” in the context of this document includes the complete, ready-to-use assembly of the control valve body, actuator, and any required accessories. The standard was developed to address problems with automatic control caused by the response of control valves or other final control elements.

Single copy price: \$99.00

Obtain an electronic copy from: [lfranke@isa.org](mailto:lfranke@isa.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Lynne Franke, [lfranke@isa.org](mailto:lfranke@isa.org)

### NEMA (ASC C50) (National Electrical Manufacturers Association)

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

#### ***National Adoption***

BSR NEMA MG 60034-31-202x, Efficiency Application Guidelines for the Selection of Motors Including Variable Speed Applications (national adoption with modifications of IEC 60034-31:2021)

Provides a guideline of technical and economical aspects for the application of energy-efficient electric AC motors. Applies to motor manufacturers, OEMs (original equipment manufacturers), end users, regulators, legislators and other interested parties.

Single copy price: \$315.00

Obtain an electronic copy from: Michael Leibowitz <[mike.leibowitz@nema.org](mailto:mike.leibowitz@nema.org)>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Michael Leibowitz <[mike.leibowitz@nema.org](mailto:mike.leibowitz@nema.org)>

### OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

#### ***National Adoption***

BSR OEOSC ISO 10110-11-202x, Optics and Electro-Optical Instruments Preparation of drawings for optical elements and systems - Part 11: Non-toleranced data (identical national adoption of ISO 10110-11:2016)

This document is a part of the ISO 10110 series of technical drawing standards for optical elements and systems. It specifies the permissible deviations and material imperfections when these are not explicitly indicated.

Single copy price: \$40.00

Obtain an electronic copy from: [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patrick Augino <[paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)>

## Comment Deadline: September 18, 2023

### **OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

#### ***National Adoption***

BSR OEOSC ISO 10110-12-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 12: Aspheric surfaces (identical national adoption of ISO 10110-12:2019)

This document is a part of the ISO 10110 series of technical drawing standards for optical elements and systems. It specifies rules for presentation of aspheric surfaces and surfaces with low order symmetry, such as cylinders and toroids. It also specifies sign conventions and coordinate systems. This document does not apply to off-axis aspheric and discontinuous surfaces, such as Fresnel surfaces or gratings.

Single copy price: \$130.00

Obtain an electronic copy from: [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patrick Augino <[paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)>

### **OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

#### ***National Adoption***

BSR OEOSC ISO 10110-14-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 14: Wave front deformation tolerance (identical national adoption of ISO 10110-14:2018)

This document is a part of the ISO 10110 series of technical drawing standards for optical elements and systems. It specifies rules for the indication of the permissible deformation of a wavefront transmitted through or reflected from optical

components and systems. There is no requirement that a tolerance for the deformation be indicated. The tilt of a wavefront with respect to a reference surface is not addressed in this document.

Single copy price: \$65.00

Obtain an electronic copy from: [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patrick Augino <[paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)>

### **OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

#### ***National Adoption***

BSR OEOSC ISO 10110-19-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 19: General description of surfaces and components (identical national adoption of ISO 10110-19:2015)

This document is a part of the ISO 10110 series of technical drawing standards for optical elements and systems. It provides a general method of describing surfaces and components. It applies to continuous and discontinuous surfaces, but not to diffractive surfaces, Fresnel surfaces, ophthalmic glasses, and micro-optical surfaces. The method may be applied to any general surface or component, even rotationally symmetric surfaces, when they are defined in terms of NURBS, splines, point clouds, etc.

Single copy price: \$65.00

Obtain an electronic copy from: [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Patrick Augino <[paugino@optimaxsi.com](mailto:paugino@optimaxsi.com)>

## Comment Deadline: September 18, 2023

### **RVIA (Recreational Vehicle Industry Association)**

2465 J-17 Centreville Road, #801, Herndon, VA 20171 | [treamer@rvia.org](mailto:treamer@rvia.org), [www.rvia.org](http://www.rvia.org)

#### **Revision**

BSR/RVIA A119.5-202x, Park Model Recreational Vehicle Standard (revision of ANSI A119.5-2020)

This standard covers fire and life safety criteria and plumbing for Park Model Recreational Vehicles considered necessary to provide a reasonable level of protection from loss of life from fire and explosion. It reflects situations and the state of the art prevalent at the time the Standard was issued. Unless otherwise noted, it is not intended that the provisions of this document be applied to facilities, equipment, structures, or installations which were existing or approved for construction or installation prior to the effective date of the document, except in those cases where it is determined by the Authority Having Jurisdiction that the existing situation involves a distinct hazard to life or adjacent property.

Single copy price: Free

Obtain an electronic copy from: [treamer@rvia.org](mailto:treamer@rvia.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Tyler Reamer <[treamer@rvia.org](mailto:treamer@rvia.org)>

### **SAAMI (Sporting Arms and Ammunition Manufacturers Institute)**

6 Corporate Drive, Suite 650, Shelton, CT 06484 | [bosowiecki@saami.org](mailto:bosowiecki@saami.org), [www.saami.org](http://www.saami.org)

#### **Revision**

BSR/SAAMI Z299.5-202X, Voluntary Industry Performance Standards Criteria for Evaluation of New Firearms Designs Under Conditions of Abusive Mishandling for the Use of Commercial Manufacturers (revision of ANSI/SAAMI Z299.5-2016)

This Standard provides procedures for evaluating new firearms designs and applies to rifle, shotguns, pistols, and revolvers. In the interest of safety, these tests are structured to demonstrate to the designer of new firearms that the product will resist abusive mishandling. These procedures are specifically understood not to apply to muzzle loading and black powder firearms of any type.

Single copy price: \$ANSI Member 35.00; Non-member 45.00

Obtain an electronic copy from: [bosowiecki@saami.org](mailto:bosowiecki@saami.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Brian Osowiecki, [bosowiecki@saami.org](mailto:bosowiecki@saami.org)

### **TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

#### **Revision**

BSR/TIA 568.2-E-202x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (revision and redesignation of ANSI/TIA 568.2-D-2018, ANSI/TIA 568.2-D-2-2020)

This project will create ANSI/TIA-568.2-E, revision of ANSI/TIA-568.2-D. Known errors will be corrected, nomenclature will be updated, and any general needed updates will be made. The entire document is open for comment.

Single copy price: \$377.00

Obtain an electronic copy from: [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)

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

## Comment Deadline: September 18, 2023

### **TVC (ASC Z80) (The Vision Council)**

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org), [www.z80asc.com](http://www.z80asc.com)

#### **Reaffirmation**

BSR Z80.17-2013 (R202x), Ophthalmics - Focimeters (reaffirmation of ANSI Z80.17-2013 (R2018))

This standard specifies requirements for continuously indicating and digitally rounding focimeters with which the vertex powers and prismatic powers of spherical and astigmatic lenses, including lenses mounted in frames, can be measured and with which lenses can be oriented and marked.

Single copy price: \$70.00

Obtain an electronic copy from: <https://www.z80asc.com/> or email: [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)

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

### **TVC (ASC Z80) (The Vision Council)**

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org), [www.z80asc.com](http://www.z80asc.com)

#### **Reaffirmation**

BSR Z80.23-2018 (R202x), Ophthalmics - Corneal Topography And Tomography Systems - Standard Terminology, Requirements (reaffirmation of ANSI Z80.23-2018)

This standard applies to instruments, systems and methods that are intended to measure the shape of the cornea of the human eye over a majority of its central anterior surface. The measurements may be of the curvature of the surface in local areas, three-dimensional topographical measurements of the surface or other more global parameters used to characterize the surface.

Single copy price: \$80.00

Obtain an electronic copy from: <https://www.z80asc.com/> or email: [ascz80@thevisioncouncil.org](mailto:ascz80@thevisioncouncil.org)

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

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

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

#### **New Standard**

BSR/UL 2011-202x, Standard for Industrial and General Use Machines (new standard)

These requirements cover industrial machines intended for ordinary (unclassified) locations use, and for hazardous (classified) locations use, operating from a voltage of 1000 V or less. This equipment is intended for installation, in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, where the ambient temperature shall be between 5 °C (41 °F) and 40 °C (104 °F) maximum, unless otherwise specified.

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 at the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/ProposalAvailable>.

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

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

#### **Reaffirmation**

BSR/UL 542-2005 (R202x), Fluorescent Lamp Starters (reaffirmation of ANSI/UL 542-2005 (R2018))

Reaffirm UL 542

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 at: <https://csds.ul.com/ProposalAvailable>

## Comment Deadline: September 18, 2023

### ULSE (UL Standards & Engagement)

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

#### Revision

BSR/UL 73-202x, Standard for Motor-Operated Appliances (revision of ANSI/UL 73-2022)

(1) Addition of Supplement SB covering commercial germicidal appliances with contained UV sources; (2) Addition of shorter cord Length requirements for indoor, household use, countertop, or tabletop carbonators.

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)

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

#### Revision

BSR/UL 567A-202x, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 567A-2019)

New joint standard, UL/ULC 567A Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85).

Single copy price: Free

Obtain an electronic copy from: <https://www.shopulstandards.com/>

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

#### Revision

BSR/UL 567B-202x, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 567B-2020)

New joint standard, UL/ULC 567B, Standard for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil.

Single copy price: Free

Single copy price: Free

Obtain an electronic copy from: <https://www.shopulstandards.com/>

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 3, 2023

**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)

***New Standard***

BSR/CSA B44.10/ASME A17.10-202x, Escalator and moving walk braking systems (new standard)

This Standard covers escalator and moving walk driving machine brake and driving machine motor-controlled dynamic braking systems in accordance with ASME A17.1/CSA B44, Safety Code for Elevators and Escalators.

Single copy price: Free

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Geraldine Burdeshaw <[burdeshawg@asme.org](mailto:burdeshawg@asme.org)>

**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)).

**ASSP (Safety) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

***New Technical Report***

ASSP TR-Z590.9, Protecting Temporary Workers: Best Practices for Host Employers (technical report)

The future of work brings new challenges to occupational safety and health, including how to best protect and promote the safety and health of a workforce employed through a variety of non-standard work arrangements. Whether workers are permanent or temporary, unsafe working conditions, unclear job assignments, inadequate training, and poor hazard communication put all workers at risk for being injured or becoming ill at work. The best practices in this document are organized into three sections: (1) Evaluation and Contracting; (2) Training for Temporary Workers and Their Worksite Supervisors; and (3) Injury and Illness Reporting, Response, and Recordkeeping. By integrating these best practices into their safety management systems and going beyond compliance with OSHA laws and regulations, host employers can do their part to ensure a safe, healthy, and productive workforce, which may ultimately contribute to an increased competitive advantage.

**Project Withdrawn**

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

**ASTM (ASTM International)**

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

BSR/ASTM WK78477-202x, New Practice for Using a High-Resolution Optical Microscope and a Mini-tensile Tester for Quantifying Surface Cracking Propensity of Photovoltaic Backsheets (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Laura Klineburger <[accreditation@astm.org](mailto:accreditation@astm.org)>

## Project Withdrawn

### **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)

BSR/CSA C22.2 No 348-202x, Electric vehicle power export equipment (EVPE) (new standard)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Debbie Chesnik <[ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)>

### **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 9075-3:2016 [R202x], Information technology - Database languages - SQL - Part 3: Call-Level Interface (SQL/CLI) (reaffirmation of INCITS/ISO/IEC 9075-3:2016 [2018])

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Spittle <[comments@standards.incits.org](mailto:comments@standards.incits.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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## **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)

ANSI/AAMI ST108-2023, Water for the processing of medical devices (new standard) Final Action Date: 7/27/2023 | *New Standard*

## **ABYC (American Boat and Yacht Council)**

613 Third Street, Suite 10, Annapolis, MD 21403 | [eparks@abycinc.org](mailto:eparks@abycinc.org), [www.abycinc.org](http://www.abycinc.org)

ANSI/ABYC C-7-2023, Battery Switches (revision of ANSI/ABYC C-7-2021) Final Action Date: 7/27/2023 | *Revision*

ANSI/ABYC H-32-2023, Ventilation of Boats using Diesel Fuel (revision of ANSI/ABYC H-32-2013 (R2018)) Final Action Date: 7/27/2023 | *Revision*

## **AMCA (Air Movement and Control Association)**

30 West University Drive, Arlington Heights, IL 60004-1893 | [shrutik@amca.org](mailto:shrutik@amca.org), [www.amca.org](http://www.amca.org)

ANSI/AMCA 320-2023, Laboratory Method of Sound Testing of Fans Using Sound Intensity (revision of ANSI/AMCA 320-2013) Final Action Date: 7/28/2023 | *Revision*

## **API (American Petroleum Institute)**

200 Massachusetts Avenue NW, Suite 1100, Washington, DC 20001-5571 | [pinto@api.org](mailto:pinto@api.org), [www.api.org](http://www.api.org)

ANSI/API 13M/ISO 13503-1-2004 (R2023), Recommended Practice for the Measurement of Viscous Properties of Completion Fluids (reaffirm a national adoption ANSI/API 13M/ISO 13503-1-2004 (R2018)) Final Action Date: 7/31/2023 | *Reaffirmation*

## **ASA (ASC S3) (Acoustical Society of America)**

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | [standards@acousticalsociety.org](mailto:standards@acousticalsociety.org), [www.acousticalsociety.org](http://www.acousticalsociety.org)

ANSI ASA S3.21-2004 (R2023), Methods for Manual Pure-Tone Threshold Audiometry (reaffirmation of ANSI/ASA S3.21-2004 (R2019)) Final Action Date: 7/31/2023 | *Reaffirmation*

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

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

ANSI/ASHRAE Addendum 62.2k-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2019) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ab to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ac to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/ICC/IES/USGBC Addendum ag to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 7/25/2023 | *Addenda*

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

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

ANSI/ASHRAE/ICC/IES/USGBC Addendum z to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum ca to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum d to ANSI/ASHRAE/IES Standard 100-2018, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum f to ANSI/ASHRAE/IES Standard 90.2-2018, High-Performance Energy Design of Residential Buildings (addenda to ANSI/ASHRAE Standard 90.2-2018) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE/IES Addendum i to ANSI/ASHRAE/IES Standard 100-2018, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018) Final Action Date: 7/25/2023 | *Addenda*

ANSI/ASHRAE Standard 514P-2023, Risk Management for Building Water Systems: Physical, Chemical, and Microbial Hazards (new standard) Final Action Date: 7/25/2023 | *New Standard*

**ASNT (American Society for Nondestructive Testing)**

1711 Arlingate Lane, Columbus, OH 43228-0518 | [mthomas@asnt.org](mailto:mthomas@asnt.org), [www.asnt.org](http://www.asnt.org)

ANSI/ASNT ILI-PQ-2023, ASNT In-Line Inspection Personnel Qualification and Certification (revision of ANSI/ASNT ILI-PQ-2017) Final Action Date: 7/27/2023 | *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 E1350-2018 (R2023), Guide for Testing Sheathed Thermocouples, Thermocouple Assemblies, and Connecting Wires Prior to and After Installation or Service (reaffirmation of ANSI/ASTM E1350-2018) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F783-1988 (R2023), Specification for Staple, Handgrab, Handle, and Stirrup Rung (reaffirmation of ANSI/ASTM F783-1988 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F985-2018 (R2023), Specification for Pilot Platform (reaffirmation of ANSI/ASTM F985-2018) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1019M-2000 (R2023), Specification for Steel Deck Gear Stowage Box (Metric) (reaffirmation of ANSI/ASTM F1019M-2000 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1068-1990 (R2023), Specification for Doors, Double, Gastight/Airtight, Individually Dogged, for Marine Use (reaffirmation of ANSI/ASTM F1068-1990 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1071-1994 (R2023), Specification for Expanded-Metal Bulkhead Panels (reaffirmation of ANSI/ASTM F1071-1994 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1072-1994 (R2023), Specification for Expanded-Metal Doors (reaffirmation of ANSI/ASTM F1072-1994 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1074-1987 (R2023), Specification for Cleats, Welded Horn Type (reaffirmation of ANSI/ASTM F1074-1987 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1106-1987 (R2023), Specification for Warping Heads, Rope Handling (Gypsy Head, Capstan Head) (reaffirmation of ANSI/ASTM F1106-87 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

**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 F1244-2008 (R2023), Specification for Berths, Marine (reaffirmation of ANSI/ASTM F1244-2008 (R2018))  
Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F1385-2007 (R2023), Practice for Platforms in Cargo Tanks (reaffirmation of ANSI/ASTM F1385-2007 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F2207-2006 (R2023), Specification For Cured-In-Place Pipe Lining System For Rehabilitation Of Metallic Gas Pipe (reaffirmation of ANSI/ASTM F2207-2006 (R2019)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F2817-2013 (R2023), Specification for Poly(Vinyl Chloride) (PVC) Gas Pressure Pipe and Fittings For Maintenance or Repair (reaffirmation of ANSI/ASTM F2817-2013 (R2019)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F2818-2010 (R2023), Specification for Specification for Crosslinked Polyethylene (PEX) Material Gas Pressure Pipe and Tubing (reaffirmation of ANSI/ASTM F2818-2010 (R2019)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM F3040 (R2023), Test Method for Mechanical Static Load Testing of Non-Structural Marine Joiner Bulkheads (reaffirmation of ANSI/ASTM F3040-2013 (R2018)) Final Action Date: 7/18/2023 | *Reaffirmation*

ANSI/ASTM D2466-2023, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 40 (revision of ANSI/ASTM D2466-2021) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM D6299-2023, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance (revision of ANSI/ASTM D6299-2022E1) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM D6300-2023, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products, Liquid Fuels, and Lubricants (revision of ANSI/ASTM D6300-2021) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM E235-2023, Specification for Type K and Type N Mineral-Insulated, Metal-Sheathed Thermocouples for Nuclear or for Other High-Reliability Applications (revision of ANSI/ASTM E235-2019) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM E696-2023, Specification for Tungsten-Rhenium Alloy Thermocouple Wire (revision of ANSI/ASTM E696-2017 (R2018)) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM E1355-2023, Guide for Evaluating the Predictive Capability of Deterministic Fire Models (revision of ANSI/ASTM E1355-2012 (R2018)) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM F628-2023, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe With a Cellular Core (revision of ANSI/ASTM F628-2022) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM F1281-2023a, Specification for Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene (PEX-AL-PEX) Pressure Pipe (revision of ANSI/ASTM F1281-2023) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM F1282-2023a, Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe (revision of ANSI/ASTM F1282-2023) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM F1387-2023, Specification For Performance Of Piping And Tubing Mechanically Attached Fittings (revision of ANSI/ASTM F1387-2019) Final Action Date: 7/18/2023 | *Revision*

ANSI/ASTM F1974-2023, Specification For Metal Insert Fittings For Polyethylene/Aluminum/Polyethylene And Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe (revision of ANSI/ASTM F1974-2009 (R2020)) Final Action Date: 7/18/2023 | *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 F2654-2023, Specification for Airsoft Gun Warnings (revision of ANSI/ASTM F2654-2016 (R2020)) Final Action Date: 7/15/2023 | *Revision*

ANSI/ASTM F2897-2023, Specification for Tracking and Traceability Encoding System of Natural Gas Distribution Components (Pipe, Tubing, Fittings, Valves, and Appurtenances) (revision of ANSI/ASTM F2897-2021) Final Action Date: 7/18/2023 | *Revision*

**AWWA (American Water Works Association)**

6666 W. Quincy Avenue, Denver, CO 80235 | [polson@awwa.org](mailto:polson@awwa.org), [www.awwa.org](http://www.awwa.org)

ANSI/AWWA C206-2023, Field Welding of Steel Water Pipe (revision of ANSI/AWWA C206-2016) Final Action Date: 7/27/2023 | *Revision*

ANSI/AWWA C207-2023, Steel Pipe Flanges for Waterworks Service, Sizes 4 In. Through 144 In. (100 mm Through 3,600 mm) (revision of ANSI/AWWA C207-2018) Final Action Date: 7/27/2023 | *Revision*

ANSI/AWWA C220-2023, Stainless-Steel, Pipe, 1/2 In. (13 mm) and Larger (revision of ANSI/AWWA C220-2017) Final Action Date: 7/28/2023 | *Revision*

**ECIA (Electronic Components Industry Association)**

13873 Park Center Road, Suite 315, Herndon, VA 20171 | [ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org), [www.ecianow.org](http://www.ecianow.org)

ANSI/EIA 364-42C-2012 (R2023), Impact Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-42C-2012 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

ANSI/EIA 364-54A-1999 (R2023), Magnetic Permeability Test Procedure for Electrical Connectors, Contacts, and Sockets (reaffirmation of ANSI/EIA 364-54A-1999 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

ANSI/EIA 364-95-1999 (R2023), Full Mating and Mating Stability Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-95-1999 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

ANSI/EIA 364-99-1999 (R2023), Gage Location and Retention Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-99-1999 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

ANSI/EIA 364-102-1998 (R2023), Rise Time Degradation Test Procedure for Electrical Connectors, Sockets, Cable Assemblies or Interconnection Systems (reaffirmation of ANSI/EIA 364-102-1998 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

ANSI/EIA 364-103-1998 (R2023), Propagation Delay Test Procedure for Electrical Connectors, Sockets, Cable Assemblies or Interconnection Systems (reaffirmation of ANSI/EIA 364-103-1998 (R2018)) Final Action Date: 7/28/2023 | *Reaffirmation*

**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 27009:2016 [2019], Information technology - Security techniques - Sector-specific application of ISO/IEC 27001 - Requirements (withdrawal of INCITS/ISO/IEC 27009:2016 [2019]) Final Action Date: 7/28/2023 | *Withdrawal*

**NEMA (ASC C136) (National Electrical Manufacturers Association)**

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

ANSI C136.31-2023, Roadway and Area Lighting Equipment - Luminaire Vibration (revision of ANSI C136.31-2018) Final Action Date: 7/28/2023 | *Revision*

**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 AB 4-2023, Guidelines for Inspection and Preventive Maintenance of Molded-Case Circuit Breakers Used in Commercial and Industrial Applications (new standard) Final Action Date: 7/27/2023 | *New Standard*

ANSI/NEMA AB 3-2013 (R2023), Molded-Case Circuit Breakers and Their Application (reaffirmation of ANSI/NEMA AB 3-2013) Final Action Date: 7/27/2023 | *Reaffirmation*

ANSI/NEMA KS 2-2013 (R2023), Distribution Equipment Switch Application Guide, A Users Reference (reaffirmation of ANSI/NEMA KS 2-2013) Final Action Date: 7/27/2023 | *Reaffirmation*

ANSI/NEMA PB 1.1-2023, General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less (revision and redesignation of ANSI/NEMA PB 1.1-2013) Final Action Date: 7/27/2023 | *Revision*

ANSI/NEMA PB 2.1-2023, General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less (revision and redesignation of ANSI/NEMA PB 2.1-2013) Final Action Date: 7/27/2023 | *Revision*

**PMMI (PMMI - The Association for Packaging and Processing Technologies)**

12930 Worldgate Dr, Suite 200, Herndon, VA 20170-6037 | [walsh@asabe.org](mailto:walsh@asabe.org), [www.pmmi.org](http://www.pmmi.org)

ANSI/PMMI B155.1-2023, Safety Requirements for Packaging and Processing Machinery (revision of ANSI/PMMI B155.1-2016) Final Action Date: 7/28/2023 | *Revision*

**SDI (ASC A250) (Steel Door Institute)**

30200 Detroit Road, Westlake, OH 44145 | [leh@wherryassoc.com](mailto:leh@wherryassoc.com), [www.wherryassocsteeldoors.org](http://www.wherryassocsteeldoors.org)

ANSI A250.14-2023, Hardware Preparation in Steel Doors and Steel Frames (revision and redesignation of ANSI/BHMA A156.115-2016) Final Action Date: 7/28/2023 | *Revision*

**ULSE (UL Standards & Engagement)**

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

ANSI/UL 1004-4-2018 (R2023), Standard for Safety for Electric Generators (reaffirmation of ANSI/UL 1004-4-2018) Final Action Date: 7/27/2023 | *Reaffirmation*

# 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.

The INCITS Executive Board serves as the consensus body with oversight of its 40+ Technical Committees. Additionally, the INCITS Executive Board has the international leadership role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

Membership in the INCITS Executive Board is open to all directly and materially interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at [jgarner@itic.org](mailto:jgarner@itic.org) or visit <http://www.incits.org/participation/membership-info> for more information.

Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following underrepresented categories:

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

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

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

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

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

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

## ANSI Accredited Standards Developer

### AGSC - Auto Glass Safety Council

#### Request for Consensus Body Members

ANSI/AGSC/AGRSS 005-2022, Auto Glass Safety Council/Automotive Glass Replacement Safety Standard  
Interest Categories: Request additional participation from Auto Glass Manufacturers, Insurance (companies that insure or provide services to companies that insure automobiles)

ANSI/AGSC/NWRD/ROLAGS 002-2022, Auto Glass Safety Council/National Windshield Repair Division/Repair of Laminated Automotive Glass Standard

Interest Categories: Request additional participation from Auto Glass Manufacturer, Insurance Company/Claims Administrator

For inquiries please contact: Kathy Bimber, Auto Glass Safety Council (AGSC) | PO Box 569, Suite 201, Garrisonville, VA 22463 | (540) 720-7484, [kbimber@glass.com](mailto:kbimber@glass.com), [www.agsc.org](http://www.agsc.org), [www.nwrassn.org](http://www.nwrassn.org)

## ANSI Accredited Standards Developer

### AHRI - Air-Conditioning, Heating, and Refrigeration Institute

#### AHRI Consensus Bodies seeking Regulatory Agency Interest Category Representation

- AHRI Applied Consensus Body - Applicable AHRI Standards (an edition is a current ANS or proposed ANS, and is of interest to a Regulatory Agency)

AHRI Standard 1550 (SI/I-P), Performance Rating of Liquid-Chilling and Heat Pump Liquid-Heating Packages Using the Vapor Compression Cycle

AHRI Standard 920 (I-P), Performance Rating of DX-dedicated Outdoor Air System Units

- AHRI Heating Consensus Body - Applicable AHRI Standards

AHRI Standard 1160 (I-P), Performance Rating of Heat Pump Pool Heaters

AHRI Standard 1400, Indirect Fired Water Heater Ratings

AHRI Standard 1500 (SI), Method to Determine Efficiency of Commercial Space Heating Boilers

- AHRI Multi-sector Consensus Body - Applicable AHRI Standard

AHRI Standard 110 (SI/I-P), Air-Conditioning, Heating and Refrigerating Equipment Nameplate Voltages

- AHRI Refrigeration Consensus Body - Applicable AHRI Standards

AHRI Standard 1200 (I-P), Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets

AHRI Standard 1250 (I-P), Performance Rating of Walk-in Coolers and Freezers

AHRI Standard 810 (SI/I-P), Performance Rating of Automatic Commercial Ice-Makers

- AHRI Unitary Consensus Body - Applicable AHRI Standards

AHRI Standard 310/380 (SI/I-P), Packaged Terminal Air-conditioners and Heat Pumps

AHRI Standard 390 (I-P), Performance Rating of Single Package Vertical Air-conditioners and Heat Pumps

AHRI Standard 1230 (I-P), Performance Rating of Variable Refrigerant Flow (VRF) Multi-split Air-conditioning and Heat Pump Equipment

AHRI Standard 210/240 (I-P), Performance Rating of Unitary Air-conditioning and Air-source Heat Pump Equipment

AHRI Standard 600 (I-P), Standard for Performance Rating of Water/Brine to Air Heat Pump Equipment

Application process: Applicants should send their name, resume, Interest Category, and which AHRI Consensus Body(ies) they are interested in to [AHRI\\_Standards@ahrinet.org](mailto:AHRI_Standards@ahrinet.org). The contact person for questions should be Karl Best [kbest@ahrinet.org](mailto:kbest@ahrinet.org) 703-293-4887. More info: <https://www.ahrinet.org/standards/how-participate>

AHRI Consensus Bodies are composed of experts, both AHRI members and non-members, who provide the final review and approval to publish an approved AHRI standard as an American National Standard. Each Consensus Body has eight to 12 members. Employment by an AHRI member company is not required for membership in the Consensus Body. A balance of interests is required among the Consensus Body membership. As such, AHRI invites and welcomes participation by a broad range of stakeholder interests, especially those outside of AHRI's membership which is primarily

**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 850 (SI/I-P)-202x, Performance Rating of Commercial & Industrial Air Filter Equipment (revision, redesignation and consolidation of ANSI/AHRI Standard 850-2013 (R2023) (I-P) and ANSI/AHRI Standard 851-2013)

**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 1201 SI-202x, Performance Rating of Commercial Refrigerated Display Merchandisers and Storage Cabinets (revision of ANSI/AHRI Standard 1201 (SI)-2013)

**ASA (ASC S12) (Acoustical Society of America)**

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | [standards@acousticalsociety.org](mailto:standards@acousticalsociety.org), [www.acousticalsociety.org](http://www.acousticalsociety.org)

BSR S12.1 (R202x), Guidelines for the Preparation of Standard Procedures to Determine the Noise Emission from Sources (reaffirmation of ANSI/ASA S12.1-1983 (R2020))

**ASABE (American Society of Agricultural and Biological Engineers)**

2950 Niles Road, Saint Joseph, MI 49085 | [walsh@asabe.org](mailto:walsh@asabe.org), <https://www.asabe.org/>

BSR/ASABE S665 MONYEAR-202x, Crop Protection Equipment - Test methods for the evaluation of targeted spray application systems (new standard)

**ASC X9 (Accredited Standards Committee X9, Incorporated)**

275 West Street, Suite 107, Annapolis, MD 21401 | [Ambria.Calloway@X9.org](mailto:Ambria.Calloway@X9.org), [www.x9.org](http://www.x9.org)

BSR X9.100-188-202x, Return Reasons for Check Image Exchange and IRDs (revision of ANSI X9.100-188-2018)

**ASSP (Safety) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [rblanchette@assp.org](mailto:rblanchette@assp.org), [www.assp.org](http://www.assp.org)

BSR/ASSP Z244.1-202x, The Control of Hazardous Energy - Lockout, Tagout and Alternative Methods (revision and redesignation of ANSI/ASSP Z244.1-2016 (R2020))

**ASSP (Safety) (American Society of Safety Professionals)**

520 N. Northwest Highway, Park Ridge, IL 60068 | [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org), [www.assp.org](http://www.assp.org)

BSR/ASSP Z359.15-202x, Safety Requirements for Single Anchor Lifelines and Fall Arresters for Personal Fall Arrest Systems (revision and redesignation of ANSI ASSE Z359.15-2014)

**ATIS (Alliance for Telecommunications Industry Solutions)**

1200 G Street NW, Suite 500, Washington, DC 20005 | [dgreco@atis.org](mailto:dgreco@atis.org), [www.atis.org](http://www.atis.org)

BSR/ATIS 0300091-202x, Structure for Global Serialization of Information and Communications Technology (ICT) Network Infrastructure Equipment (revision of ANSI/ATIS 0300091-2018)

**ATIS (Alliance for Telecommunications Industry Solutions)**

1200 G Street NW, Suite 500, Washington, DC 20005 | [dgreco@atis.org](mailto:dgreco@atis.org), [www.atis.org](http://www.atis.org)

BSR/ATIS 0300220-202x, Representation of the Communications Industry Manufacturers, Suppliers, and Related Service Companies for Information Exchange (revision of ANSI/ATIS 0300220-2018)

**AWS (American Welding Society)**

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

BSR/AWS D14.9/D14.9M-202x-AMD1, Specification for the Welding of Hydraulic Cylinders (revision and redesignation of ANSI/AWS D14.9/D14.9M-2022)

**CRRC (Cool Roof Rating Council)**

2435 N. Lombard Street, Portland, OR 97217 | [sarah@coolroofs.org](mailto:sarah@coolroofs.org), [www.coolroofs.org](http://www.coolroofs.org)

BSR/CRRC S100-202x, Standard Test Methods for Determining Radiative Properties of Materials (revision of ANSI/CRRC S100-2021)

Interest Categories: The CRRC is accepting applications for the Consensus Body until September 22, 2023. Interested applicants can download the application forms at <https://coolroofs.org/resources/ansi-crrc-s100> or email [sarah@coolroofs.org](mailto:sarah@coolroofs.org) with questions.

**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-85-23-202x, IES Approved Method: Optical and Electrical Measurements of LED Sources (revision of ANSI/IES LM-85-2020)

**ISA (International Society of Automation)**

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | [lfranke@isa.org](mailto:lfranke@isa.org), [www.isa.org](http://www.isa.org)

BSR/ISA 75.25.01-202x, Test Procedure for Control Valve Response Measurement from Step Inputs (new standard)

**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 19150-6:2023 [202x], Geographic information - Ontology - Part 6: Service ontology register (identical national adoption of ISO 19150-6:2023)

**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 19160-4:2023 [202x], Addressing - Part 4: International postal address components and template language (identical national adoption of ISO/IEC 19160-4:2023 and revision of INCITS/ISO 19160-4:2017 [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 19131:2022 [202x], Geographic information - Data product specifications (identical national adoption of ISO 19131:2022 and revision of INCITS/ISO 19131:2007 [R2022])

**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 7816-6:2023 [202x], Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange (identical national adoption of ISO/IEC 7816-6:2023 and revision of INCITS/ISO/IEC 7816-6:2016 [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 18013-2:2020/AM1:2023 [202x], Personal identification - ISO-compliant driving licence - Part 2: Machine-readable technologies - Amendment 1: DG11 length for compact encoding (identical national adoption of ISO/IEC 18013-2:2020/AM1:2023)

**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 18013-3:2017/AM2:2023 [202x], Information technology - Personal identification - ISO-compliant driving licence - Part 3: Access control, authentication and integrity validation - Amendment 2: Updates for passive authentication (identical national adoption of ISO/IEC 18013-3:2017/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 23220-1:2023 [202x], Cards and security devices for personal identification - Building blocks for identity management via mobile devices - Part 1: Generic system architectures of mobile eID systems (identical national adoption of ISO/IEC 23220-1:2023)

**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 23465-1:2023 [202x], Card and security devices for personal identification - Programming interface for security devices - Part 1: Introduction and architecture description (identical national adoption of ISO/IEC 23465-1:2023)

**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 8652:2023 [202x], Information technology - Programming languages - Ada (identical national adoption of ISO/IEC 8652:2023)

**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 23488:2022 [202x], Information technology - Computer graphics, image processing and environment data representation - Object/environmental representation for image-based rendering in virtual/mixed and augmented reality (VR/MAR) (identical national adoption of ISO/IEC 23488:2022)

**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 25059:2023 [202x], Software engineering - Systems and software Quality Requirements and Evaluation (SQuaRE) - Quality model for AI systems (identical national adoption of ISO/IEC 25059:2023)

**NEMA (ASC C50) (National Electrical Manufacturers Association)**

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

BSR NEMA MG 60034-31-202x, Efficiency Application Guidelines for the Selection of Motors Including Variable Speed Applications (national adoption with modifications of IEC 60034-31:2021)

**NISO (National Information Standards Organization)**

3600 Clipper Mill Road, Suite 302, Baltimore, MD 21211 | [kbailey@niso.org](mailto:kbailey@niso.org), [www.niso.org](http://www.niso.org)

BSR/NISO Z39.107-202x, Accessibility Remediation Metadata (ARM) (new standard)

**OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

BSR OEOSC ISO 10110-11-202x, Optics and Electro-Optical Instruments Preparation of drawings for optical elements and systems - Part 11: Non-toleranced data (identical national adoption of ISO 10110-11:2016)

**OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

BSR OEOSC ISO 10110-12-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 12: Aspheric surfaces (identical national adoption of ISO 10110-12:2019)

**OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

BSR OEOSC ISO 10110-14-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 14: Wave front deformation tolerance (identical national adoption of ISO 10110-14:2018)

**OEOSC (ASC OP) (Optics and Electro-Optics Standards Council)**

75 Barrett Drive, #1190, Webster, NY 14580 | [paugino@optimaxsi.com](mailto:paugino@optimaxsi.com), [www.OEOSC.org](http://www.OEOSC.org)

BSR OEOSC ISO 10110-19-202x, Optics and Electro-Optical Instruments - Preparation of drawings for optical elements and systems - Part 19: General description of surfaces and components (identical national adoption of ISO 10110-19:2015)

**RESOLVE (Resolve, Inc.)**

2445 M Street, NW, Suite 550, Washington, DC 20037 | [mhines@resolve.ngo](mailto:mhines@resolve.ngo), [www.resolve.ngo](http://www.resolve.ngo)

BSR/RESOLVE RES-002-202x, Reusable packaging system design specifications and recommendations: Third-party washing, sanitization & handling of foodware (new standard)

**SDI (ASC A250) (Steel Door Institute)**

30200 Detroit Road, Westlake, OH 44145 | [leh@wherryassoc.com](mailto:leh@wherryassoc.com), [www.wherryassocsteeldoor.org](http://www.wherryassocsteeldoor.org)

BSR A250.13-202x, Severe Windstorm Resistant Components for Swinging Door Assemblies for Protection of Building Envelopes (Not applicable for FEMA 320/361 or ICC-500 Shelters (revision of ANSI/SDI/BHMA A250.13-2014 (R2018))

**TIA (Telecommunications Industry Association)**

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | [standards-process@tiaonline.org](mailto:standards-process@tiaonline.org), [www.tiaonline.org](http://www.tiaonline.org)

BSR/TIA 568.2-E-202x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (revision and redesignation of ANSI/TIA 568.2-D-2018, ANSI/TIA 568.2-D-2-2020)

# 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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## Approval of Reaccreditation – ASD

### **SAIA (ASC A11) - Scaffold & Access Industry Association Design, Manufacturing and Performance Testing related to Scaffolding, Shoring and Forming Products and Related Components and Accessories**

**Effective July 28, 2023**

The reaccreditation of **SAIA - Scaffold & Access Industry Association**, sponsor of **ASC A11, Design, Manufacturing and Performance Testing related to Scaffolding, Shoring and Forming Products and Related Components and Accessories** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on SAIA /ASC A11-sponsored American National Standards, effective **July 28, 2023**. For additional information, please contact: Celeste Ortiz, Scaffold & Access Industry Association | 400 Admiral Boulevard, Kansas City, MO 64106 | (816) 595-4840, [celeste@saiaonline.org](mailto:celeste@saiaonline.org)

# Meeting Notices (Standards Developers)

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## **ANSI Accredited Standards Developer**

### **AGSC - Auto Glass Safety Council**

**Meeting Time: September 2023**

*Committee Meeting:*

AGSC ROLAGS 2 (Repair of Laminated Automotive Glass Standard 2) Standards Committee

Monday, September 18, 2023 10:00 a.m. – 12:30 p.m. and 6:00 p.m. – 9:00 p.m. (if additional time is needed)

Virginia Beach Convention Center, Virginia Beach, Virginia

*Committee Meeting:*

AGSC AGRSS (Auto Glass Replacement Safety Standard) Standards Committee

Tuesday, September 19, 2023 11:00 a.m. – 1:00 p.m.

Virginia Beach Convention Center, Virginia Beach, Virginia

For inquiries please contact: Kathy Bimber, Auto Glass Safety Council (AGSC) | PO Box 569, Suite 201, Garrisonville, VA 22463 | (540) 720-7484, [kbimber@glass.com](mailto:kbimber@glass.com)

# 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).

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# ISO & IEC Draft International Standards

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

## COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team ([isot@ansi.org](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

### Agricultural food products (TC 34)

ISO/DIS 20122, Vegetable oils - Determination of mineral oil saturated hydrocarbons (MOSH) and aromatic hydrocarbons (MOAH) with online coupled HPLC-GC-FID analysis - Method for low limit of quantification - 10/12/2023, \$112.00

### Aircraft and space vehicles (TC 20)

ISO/DIS 16694, Space systems - Measured parameters at firing bench and flight tests of liquid rocket engines - 10/19/2023, \$71.00

### Anaesthetic and respiratory equipment (TC 121)

IEC/DIS 80601-2-71,, \$119.00

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

ISO/DIS 16784-2, Corrosion of metals and alloys - Corrosion and fouling in industrial cooling water systems - Part 2: Evaluation of the performance of cooling water treatment programmes using a pilot-scale test rig - 10/12/2023, \$82.00

### Gas cylinders (TC 58)

ISO/DIS 19016, Gas cylinders - Cylinders and tubes of composite construction - Modal acoustic emission (MAE) testing for periodic inspection and testing - 10/13/2023, \$93.00

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

ISO/DIS 10426-5, Oil and gas industries including lower carbon energy - Cements and materials for well cementing - Part 5: Determination of shrinkage and expansion of well cement formulations - 10/15/2023, \$82.00

### Optics and optical instruments (TC 172)

ISO/DIS 14889, Ophthalmic optics - Spectacle lenses - Fundamental requirements for uncut finished lenses - 10/15/2023, \$53.00

### Paints and varnishes (TC 35)

ISO/DIS 19403-2, Paints and varnishes - Wettability - Part 2: Determination of the surface free energy of solid surfaces by measuring the contact angle - 10/19/2023, \$62.00

ISO/DIS 19403-3, Paints and varnishes - Wettability - Part 3: Determination of the surface tension of liquids using the pendant drop method - 10/19/2023, \$58.00

ISO/DIS 19403-4, Paints and varnishes - Wettability - Part 4: Determination of the polar and dispersive fractions of the surface tension of liquids from an interfacial tension - 10/16/2023, \$46.00

ISO/DIS 19403-5, Paints and varnishes - Wettability - Part 5: Determination of the polar and dispersive fractions of the surface tension of liquids from contact angles measurements on a solid with only a disperse contribution to its surface energy - 10/15/2023, \$40.00

ISO/DIS 19403-6, Paints and varnishes - Wettability - Part 6: Measurement of dynamic contact angle - 10/19/2023, \$58.00

ISO/DIS 19403-7, Paints and varnishes - Wettability - Part 7: Measurement of the dynamic contact angles and the roll-off angle on a tilt stage - 10/19/2023, \$62.00

### Paper, board and pulps (TC 6)

ISO/DIS 22206, Kraft lignin - Glass transition temperature by differential scanning calorimetry - 10/14/2023, \$82.00

ISO/DIS 22207, Kraft lignin - Determination of thermal stability by Thermogravimetry - 10/14/2023, \$88.00

**Road vehicles (TC 22)**

ISO/SAE DIS 12906, Road vehicles - Test procedures for electrical vehicles to determine charging performance - 10/16/2023, \$71.00

**Ships and marine technology (TC 8)**

ISO/DIS 15016, Ships and marine technology - Specifications for the assessment of speed and power performance by analysis of speed trial data - 10/19/2023, \$165.00

**Technical drawings, product definition and related documentation (TC 10)**

ISO/DIS 24096-1, Technical product documentation (TPD) - Classification of requirements - Part 1: Framework - 10/13/2023, \$58.00

ISO/DIS 24096-2, Technical product documentation (TPD) - Classification of requirements - Part 2: Classification based on severity and susceptibility - 10/16/2023, \$82.00

**Tourism and related services (TC 228)**

ISO/DIS 11956, Adventure tourism - Cyclotourism - Requirements and recommendations - 10/13/2023, \$107.00

**Water quality (TC 147)**

ISO/DIS 5667-27, Water quality - Sampling - Part 27: Guidance on sampling for microplastics in water - 10/19/2023, \$93.00

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

ISO/IEC DIS 15415, Information technology, Automatic identification and data capture techniques - Bar code symbol print quality test specification - Two-dimensional symbols - 10/13/2023, \$119.00

ISO/IEC DIS 23415, Information technology - Data Format Description Language (DFDL) v1.0 Specification - 10/12/2023, \$215.00

ISO/IEC DIS 22460-1, Cards and security devices for personal identification - ISO UAS license and drone/UAS security module - Part 1: Physical characteristics and basic data sets for UAS licence - 10/13/2023, \$125.00

ISO/IEC DIS 29794-4, Information technology - Biometric sample quality - Part 4: Finger image data - 10/16/2023, \$119.00

ISO/IEC DIS 23090-25, Information technology - Coded representation of immersive media - Part 25: Conformance and reference software for carriage of visual volumetric video-based coding data - 10/15/2023, \$67.00

**IEC Standards****Audio, video and multimedia systems and equipment (TC 100)**

100/3983/CD, IEC 62394 ED5: Service diagnostic interface for consumer electronics products and networks - Implementation for ECHONET, 10/20/2023

100/3984/NP, PNW 100-3984 ED1: Active wideband equipment for cable networks with digital signals only, 09/22/2023

**Capacitors and resistors for electronic equipment (TC 40)**

40/3070/CD, IEC 62391-2 ED2: Fixed electric double-layer capacitors for use in electronic equipment - Part 2: Sectional specification - Electric double layer capacitors for power application, 10/20/2023

**Electric cables (TC 20)**

20/2125/FDIS, IEC 60228 ED4: Conductors of insulated cables, 09/08/2023

**Electric road vehicles and electric industrial trucks (TC 69)**

69/907/FDIS, IEC 61851-23 ED2: Electric vehicle conductive charging system - Part 23: DC electric vehicle supply equipment, 09/08/2023

**Electrical accessories (TC 23)**

23B/1462(F)/CDV, IEC 60670-21 ED2: Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means, 09/22/2023

23B/1461(F)/CDV, IEC 60670-22 ED2: Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 22: Particular requirements for connecting boxes and enclosures, 09/22/2023

23E/1327/CD, IEC 63508 ED1: CDD Database - Circuit-breakers and similar equipment for household use, 10/20/2023

**Electrical equipment in medical practice (TC 62)**

62C/883/CD, IEC 63465 ED1: Calibration and quality control in the use of radionuclide calibrators, 10/20/2023

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

104/1006/CDV, IEC 60721-3-9 ED2: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 9: Microclimates inside products, 10/20/2023

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

111/719/CD, IEC 62321-14 ED1: DETERMINATION OF CERTAIN SUBSTANCES IN ELECTROTECHNICAL PRODUCTS - Part 14: Determination of short-chain chlorinated paraffins (SCCPs) and medium-chain chlorinated paraffins (MCCPs) in electrotechnical products by gas chromatography-negative chemical ionization-mass spectrometry (GC-NCI-MS), 10/20/2023

**Fibre optics (TC 86)**

86A/2368(F)/FDIS, IEC 60794-1-306 ED1: Optical fibre cables - Part 1-306: Generic specification - Basic optical cable test procedures - Cable element test methods - Ribbon torsion, Method G6, 09/01/2023

86B/4789/CD, IEC 61753-022-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 022-02: Multimode fibre optic connectors terminated as pigtails and patchcords for category C - Controlled environment, 10/20/2023

**Fuses (TC 32)**

32C/619/CD, IEC 60691/AMD1 ED5: Amendment 1 - Thermal-links - Requirements and application guide, 10/20/2023

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

65A/1098(F)/CDV, IEC 63303 ED1: Human-Machine Interfaces for Process Automation Systems, 10/13/2023

65/1019/CD, IEC TR 63283-2 ED2: Industrial-process measurement, control and automation - Smart manufacturing - Part 2: Use cases, 09/22/2023

65/1018/CD, IEC TS 63069 ED1: Framework for safety and security, 09/22/2023

**Lamps and related equipment (TC 34)**

34/1072/NP, PNW 34-1072 ED1: Active airborne pathogen inactivation by Germicidal Ultraviolet (GUV) luminaires, 10/20/2023

**Maritime navigation and radiocommunication equipment and systems (TC 80)**

80/1077/CDV, IEC 61097-4 ED4: Global maritime distress and safety system (GMDSS) - Part 4: Inmarsat-C ship earth station and Inmarsat enhanced group call (EGC) equipment - Operational and performance requirements, methods of testing and required test results, 10/20/2023

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

59L/241/NP, PNW 59L-241 ED1: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-21: Particular requirements for coffee preparation appliances, 10/20/2023

**Printed Electronics (TC 119)**

119/450/CD, IEC 62899-302-7 ED1: Printed electronics - Part 302-7: Equipment -Measurement methods for Inkjet printing dot placement evaluation for printed electronics, 09/22/2023

**Safety of machinery - Electrotechnical aspects (TC 44)**

44/1010/CD, IEC 62745 ED2: Safety of machinery - Requirements for cableless control systems of machinery, 09/22/2023

**Semiconductor devices (TC 47)**

47/2808/CDV, IEC 63150-3 ED1: Semiconductor devices - Measurement and evaluation methods of kinetic energy harvesting devices under practical vibration environment - Part 3: Human foot impact motion, 10/20/2023

47F/439/NP, PNW 47F-439 ED1: Semiconductor devices - Micro-electromechanical devices - Part 49: Reliability test methods of electro-mechanical conversion characteristics of piezoelectric MEMS cantilever, 09/22/2023

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

121B/183(F)/FDIS, IEC 61439-4 ED2: Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS), 08/11/2023

121B/185/CD, IEC 61439-8 ED1: Low-voltage switchgear and controlgear assemblies - Part 8: Assemblies for use in photovoltaic installations, 10/20/2023

**(TC )**

CIS/A/1402/CD, CISPR 16-1-1/AMD1/FRAG2 ED5: Amendment 1 - Fragment 2: Discontinuous Analyzers, 09/22/2023

CIS/A/1406/CD, CISPR 16-1-6/AMD3/FRAG4 ED1: Amendment 3 - Fragment 4: NSA, 09/22/2023

CIS/A/1404/CD, CISPR 16-1-6/AMD3/FRAG5 ED1: Amendment 3 - Fragment 5: C-SAM, 09/22/2023



# 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

### Agricultural food products (TC 34)

[ISO 9232:2003/Amd 1:2023](#), - Amendment 1: Yogurt -

Identification of characteristic microorganisms (Lactobacillus delbrueckii subsp. bulgaricus and Streptococcus thermophilus) - Amendment 1: Inclusion of performance testing of culture media and reagents, \$22.00

### Cleaning equipment for air and other gases (TC 142)

[IEC/PAS 63086-3-1:2023](#), \$222.00

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

[ISO 5668:2023](#), Corrosion of metals and alloys - Guidelines and requirements for corrosion testing in simulated environment of deep-sea water, \$116.00

### Ergonomics (TC 159)

[ISO 7933:2023](#), Ergonomics of the thermal environment - Analytical determination and interpretation of heat stress using calculation of the predicted heat strain, \$183.00

### Gas cylinders (TC 58)

[ISO 407:2023](#), Small medical gas cylinders - Pin-index yoke-type valve connections, \$157.00

### Geotechnics (TC 182)

[ISO 22477-2:2023](#), Geotechnical investigation and testing - Testing of geotechnical structures - Part 2: Testing of piles: Static tension load testing, \$157.00

### Human resource management (TC 260)

[ISO 30435:2023](#), Human resource management - Workforce data quality, \$116.00

### Implants for surgery (TC 150)

[ISO 22926:2023](#), Implants for surgery - Specification and verification of synthetic anatomical bone models for testing, \$116.00

### Mechanical testing of metals (TC 164)

[ISO 204:2023](#), Metallic materials - Uniaxial creep testing in tension - Method of test, \$210.00

### Metallic and other inorganic coatings (TC 107)

[ISO 5154:2023](#), Decorative metallic coatings for radio wave transmissive application products - Designation and characterization method, \$157.00

### Nanotechnologies (TC 229)

[ISO 80004-1:2023](#), Nanotechnologies - Vocabulary - Part 1: Core vocabulary, \$51.00

### Nuclear energy (TC 85)

[ISO 18589-3:2023](#), Measurement of radioactivity in the environment - Soil - Part 3: Test method of gamma-emitting radionuclides using gamma-ray spectrometry, \$183.00

### Optics and optical instruments (TC 172)

[ISO 8424:2023](#), Raw optical glass - Resistance to attack by aqueous acidic solutions - Test method and classification, \$116.00

[ISO 9022-2:2015/Amd 1:2023](#), - Amendment 1: Optics and photonics - Environmental test methods - Part 2: Cold, heat and humidity - Amendment 1, \$22.00

### Paints and varnishes (TC 35)

[ISO 4626:2023](#), Volatile organic liquids - Determination of boiling range of organic solvents used as raw materials, \$157.00

### Pigments, dyestuffs and extenders (TC 256)

[ISO 3262-18:2023](#), Extenders - Specifications and methods of test - Part 18: Precipitated sodium aluminium silicate, \$77.00

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

[ISO 10468:2023](#), Glass-reinforced thermosetting plastics (GRP) pipes - Determination of the ring creep properties under wet or dry conditions, \$77.00

### Pulleys and belts (including veebelts) (TC 41)

[ISO 22721:2023](#), Conveyor belts - Specification for rubber- or plastics-covered conveyor belts of textile construction for underground mining, \$116.00

### Railway applications (TC 269)

[ISO 22163:2023](#), Railway applications - Railway quality management system - ISO 9001:2015 and specific requirements for application in the railway sector, \$237.00

**Road traffic safety management systems (TC 241)**

[ISO 39003:2023](#), Road traffic safety (RTS) - Guidance on ethical considerations relating to safety for autonomous vehicles, \$210.00

**Road vehicles (TC 22)**

[ISO 8714:2023](#), Electric road vehicles - Reference energy consumption and range - Test procedures for passenger cars and light commercial vehicles, \$116.00

[ISO 1726-3:2023](#), Road vehicles - Mechanical couplings between tractors and semi-trailers - Part 3: Requirements for semi-trailer contact area to fifth wheel, \$77.00

[ISO 16750-3:2023](#), Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 3: Mechanical loads, \$263.00

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

[ISO 13145:2023](#), Rubber - Determination of viscosity and stress relaxation using a rotorless sealed shear rheometer, \$116.00

**Ships and marine technology (TC 8)**

[ISO 5694:2023](#), Ships and marine technology - Deck covering, \$77.00

[ISO 22554:2023](#), Ships and marine technology - Propeller shaft revolution indicators - Electric type and electronic type, \$77.00

**Traditional Chinese medicine (TC 249)**

[ISO 5228:2023](#), Traditional Chinese medicine - Rheum palmatum, Rheum tanguticum and Rheum officinale root and rhizome, \$157.00

**Tyres, rims and valves (TC 31)**

[ISO 5775-1:2023](#), Bicycle tyres and rims - Part 1: Tyre designations and dimensions, \$157.00

**Welding and allied processes (TC 44)**

[ISO 14172:2023](#), Welding consumables - Covered electrodes for manual metal arc welding of nickel and nickel alloys - Classification, \$157.00

**ISO Technical Reports****Carbon dioxide capture, transportation, and geological storage (TC 265)**

[ISO/TR 27925:2023](#), Carbon dioxide capture, transportation and geological storage - Cross cutting issues - Flow assurance, \$237.00

**Industrial automation systems and integration (TC 184)**

[ISO/TR 3151-1:2023](#), Visualization elements of PLM-MES interface - Part 1: Overview, \$183.00

**Sludge recovery, recycling, treatment and disposal (TC 275)**

[ISO/TR 22707:2023](#), Sludge recovery, recycling, treatment and disposal - Information on the processes and technologies for inorganic substance and nutrient recovery, \$210.00

**ISO Technical Specifications****Agricultural food products (TC 34)**

[ISO/TS 4985:2023](#), Milk and milk products - Determination of alkaline phosphatase activity - Fluorimetric microplate method, \$157.00

**Biological evaluation of medical and dental materials and devices (TC 194)**

[ISO/TS 11796:2023](#), Biological evaluation of medical devices - Requirements for interlaboratory studies to demonstrate the applicability of validated in vitro methods to assess the skin sensitization of medical devices, \$183.00

**Fertilizers and soil conditioners (TC 134)**

[ISO/TS 20917:2023](#), Fertilizers, soil conditioners and beneficial substances - Determination of ammonium citrate, disodium-EDTA soluble phosphorus and potassium by ICP-OES in inorganic fertilizers, \$157.00

**Governance of organizations (TC 309)**

[ISO/TS 37008:2023](#), Internal investigations of organizations - Guidance, \$157.00

**Nanotechnologies (TC 229)**

[ISO/TS 23690:2023](#), Nanotechnologies - Multiwall carbon nanotubes - Determination of carbon impurity content by thermogravimetric analysis, \$157.00

**Road vehicles (TC 22)**

[ISO/TS 20458:2023](#), Road vehicles - Design and performance specifications for advanced Pedestrian Legform Impactor (aPLI), \$263.00

[ISO/TS 21957:2023](#), Road vehicles - Visibility - Specifications and test procedures for head-up displays (HUD), \$237.00

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

[ISO/IEC 8183:2023](#), Information technology - Artificial intelligence - Data life cycle framework, \$77.00

[ISO/IEC 5021-1:2023](#), Telecommunications and information exchange between systems - Wireless LAN access control - Part 1: Networking architecture, \$77.00

[ISO/IEC 19763-1:2023](#), Information technology - Metamodel framework for interoperability (MFI) - Part 1: Framework, \$116.00

[ISO/IEC 19763-10:2023](#), Information technology - Metamodel framework for interoperability (MFI) - Part 10: Core model and basic mapping, \$157.00

# Accreditation Announcements (U.S. TAGs to ISO)

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## Public Review of Application for Accreditation of a U.S. TAG to ISO

### TC 338, Menstrual products

**Comment Deadline: September 5, 2023**

The American National Standards Institute has submitted an Application for Accreditation for a new proposed U.S. Technical Advisory Group (TAG) to ISO TC 338, Menstrual products, and a request for approval as TAG Administrator. The proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. To obtain a copy of the TAG application or to offer comments, please contact: Rachel Hawthorne, American National Standards Institute: 25 West 43rd Street - 4th Floor New York, NY 10036, P: (212) 642-4938 E: [rhawthorne@ansi.org](mailto:rhawthorne@ansi.org). Please submit any comments to American National Standards Institute by September 5, 2023 (please copy [jthompso@ANSI.org](mailto:jthompso@ANSI.org))

# International Organization for Standardization (ISO)

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## Call for U.S. TAG Administrator

### ISO/TC 218 – Timber

**Comment Deadline: August 11, 2023**

ANSI has been informed that the American Society of Civil Engineers (ASCE), the ANSI-accredited U.S. TAG Administrator for ISO/TC 218 – *Timber*, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 218 operates under the following scope:

*Standardization of round, sawn and processed timber, and timber materials in and for use in all applications, including terminology, specifications and test methods.*

*Excluded: Those applications of timber as covered by ISO/ TC 165 "Timber structures".*

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

## Establishment of ISO Technical Committee

### ISO/TC 345 – Specialty metals and minerals

**Comment Deadline: August 11, 2023**

A new Technical Committee, ISO/TC 345 – *Specialty metals and minerals*, has been formed. The Secretariat has been assigned to China (SAC).

ISO/TC 345 operates under the following scope:

*Standardization in the field of specialty metals and minerals. It includes: terminology, classification, sampling, testing and chemical analysis methods, and delivery conditions. A list of specialty metals and minerals is included as follows: antimony, beryllium, cobalt, chromium, graphite, niobium, platinum group metals.*

*Excluded: Finished products; Sustainability issues; Mining, already covered by ISO/TC 82 "Mining"; Elements already covered by existing ISO technical committees: ISO/TC 18 "Zinc and zinc alloys", ISO/TC 20/SC 18 "Materials" (under ISO/TC 20 "Aircraft and space vehicles"), ISO/TC 26 "Copper and copper alloys", ISO/TC 79 "Light metals" (aluminum, titanium, magnesium), ISO/TC 132 "Ferroalloys" (manganese, chrome in ferroalloys), ISO/TC 155 "Nickel and nickel alloys", ISO/TC 183 "Copper, lead, zinc and nickel ores and concentrates", ISO/TC 298 "Rare earth", ISO/TC 333 "Lithium".*

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

# 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).



**BSR/ASHRAE Addendum o  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum o to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

**First Public Review (August 2023)  
(Draft shows Proposed Changes to Current Standard)**

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

This standard is under continuous maintenance. To propose a change to the current standard, follow the instructions on the ASHRAE website at <https://www.ashrae.org/technical-resources/standards-and-guidelines/standards-and-guidelines-under-continuous-maintenance>.

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-474B to Tables 4-2 and D-2.*

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

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### Addendum o to Standard 34-2022

***Modify Tables 4-2 and D-2 as shown.***

#### Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 474B

Composition (Mass %) = R-1132(E)/1234yf (31.5/68.5)

Composition tolerances = ±2.0/±2.0

OEL = 420 ppm v/v

Safety Group = A2L

RCL = 13,000 ppm v/v; 3.0 lb/1000 ft<sup>3</sup>; 47 g/m<sup>3</sup>

LFL = 51,000 ppm v/v; 12.0 lb/1000 ft<sup>3</sup>; 189 g/m<sup>3</sup>

BV = 4.0 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

#### Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 474B

Composition (Mass %) = R-1132(E)/1234yf (31.5/68.5)

Average Relative Molar Mass = 91.5 g/mol

Bubble Point (°F) = -50.4

Dew Point (°F) = -37.1

Bubble Point (°C) = -45.8

Dew Point (°C) = -38.4



**BSR/ASHRAE Addendum p  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum p to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

**First Public Review (August 2023)  
(Draft shows Proposed Changes to Current Standard)**

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BSR/ASHRAE Addendum p to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants*  
First Public Review Draft

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-486A to Tables 4-2 and D-2.*

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

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### Addendum p to Standard 34-2022

***Modify Tables 4-2 and D-2 as shown.***

#### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 486A

Composition (Mass %) = R-1234yf/134a/131i/1234ze(E) (21.9/6.3/38.0/33.8)

Composition tolerances = ±0.2/±0.1/±0.3/±0.3

OEL = 620 ppm v/v

Safety Group = A1

RCL = 7,300 ppm v/v; 2.5 lb/1000 ft<sup>3</sup>; 40 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 486A

Composition (Mass %) = R-1234yf/134a/131i/1234ze(E) (21.9/6.3/38.0/33.8)

Average Relative Molar Mass = 134.39 g/mol

Bubble Point (°F) = -14.3

Dew Point (°F) = -12.8

Bubble Point (°C) = -25.7

Dew Point (°C) = -24.9



**BSR/ASHRAE Addendum q  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum q to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

**First Public Review (August 2023)  
(Draft shows Proposed Changes to Current Standard)**

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-487A to Tables 4-2 and D-2.*

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

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### Addendum q to Standard 34-2022

***Modify Tables 4-2 and D-2 as shown.***

#### Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 487A

Composition (Mass %) = R-170/1270 (20.0/80.0)

Composition tolerances = +2.0, -1.0/+1.0, -2.0

OEL = 570 ppm v/v

Safety Group = A3

RCL = 1,300 ppm v/v; 0.13 lb/1000 ft<sup>3</sup>; 2.1 g/m<sup>3</sup>

LFL = 22,000 ppm v/v; 2.2 lb/1000 ft<sup>3</sup>; 35 g/m<sup>3</sup>

Highly Toxic or Toxic Under Code Classification = Neither

#### Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 487A

Composition (Mass %) = R-170/1270 (20.0/80.0)

Average Relative Molar Mass = 39.0 g/mol

Bubble Point (°F) = -91.3

Dew Point (°F) = -63.8

Bubble Point (°C) = -68.5

Dew Point (°C) = -53.2



**BSR/ASHRAE Addendum r  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum r to  
Standard 34-2022, Designation and  
Safety Classification of  
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**First Public Review (August 2023)  
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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-455B to Tables 4-2 and D-2.*

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

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### Addendum r to Standard 34-2022

***Modify Tables 4-2 and D-2 as shown.***

#### Table 4-2 Data and Safety Classifications for Refrigerant Blends

Refrigerant Number = 455B

Composition (Mass %) = R-744/32/1234yf (6.0/42.0/52.0)

Composition tolerances = ±0.5/±1.0/±1.0

OEL = 800 ppm v/v

Safety Group = A2L

RCL = 28,000 ppm v/v; 5.2 lb/1000 ft<sup>3</sup>; 81 g/m<sup>3</sup>

LFL = 110,000 ppm v/v; 20.6 lb/1000 ft<sup>3</sup>; 324 g/m<sup>3</sup>

BV = <4.0 cm/s

Highly Toxic or Toxic Under Code Classification = Neither

#### Table D-2 Data Classifications for Refrigerant Blends

Refrigerant Number = 455B

Composition (Mass %) = R-744/32/1234yf (6.0/42.0/52.0)

Average Relative Molar Mass = 71.4 g/mol

Bubble Point (°F) = -72.4

Dew Point (°F) = -52.1

Bubble Point (°C) = -58.0

Dew Point (°C) = -46.7



**BSR/ASHRAE Addendum s  
to ANSI/ASHRAE Standard 34-2022**

**Public Review Draft**

**Proposed Addendum s to  
Standard 34-2022, Designation and  
Safety Classification of  
Refrigerants**

**First Public Review (August 2023)  
(Draft shows Proposed Changes to Current Standard)**

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

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-488A to Tables 4-2 and D-2.*

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

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### Addendum s to Standard 34-2022

***Modify Tables 4-2 and D-2 as shown.***

#### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 488A

Composition (Mass %) = R-32/1234yf/152a/1234ze(E) (6.0/50.0/3.0/41.0)

Composition tolerances =  $\pm 1.0/\pm 2.0/+1.0,-0.5/\pm 2.0$

OEL = 650 ppm v/v

Safety Group = A2L

RCL = 16,000 ppm v/v; 4.3 lb/1000 ft<sup>3</sup>; 68 g/m<sup>3</sup>

LFL = 63,000 ppm v/v; 17.1 lb/1000 ft<sup>3</sup>; 270 g/m<sup>3</sup>

BV =  $\leq 4.0$  cm/s

Highly Toxic or Toxic Under Code Classification = Neither

#### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 488A

Composition (Mass %) = R-32/1234yf/152a/1234ze(E) (6.0/50.0/3.0/41.0)

Average Relative Molar Mass = 104.3 g/mol

Bubble Point (°F) = -31.1

Dew Point (°F) = -18.4

Bubble Point (°C) = -35.1

Dew Point (°C) = -28.0



**BSR/ASHRAE Addendum t  
to ANSI/ASHRAE Standard 34-2022**

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## FOREWORD

*This proposed addendum adds the zeotropic refrigerant blend R-489A to Tables 4-2 and D-2, and adds or revises toxicity values for R-50, R-1150, and R-1270 in Table E-1.*

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

### Addendum t to Standard 34-2022

#### *Modify Tables 4-1 as shown.*

##### **Table 4-1 Refrigerant Data and Safety Classifications**

Refrigerant Number = 1150  
 Chemical Name = ethene (ethylene)  
 Chemical Formula = CH<sub>2</sub> = CH<sub>2</sub>  
 OEL = 200 ppm v/v  
 Safety Group = ~~B3A3~~  
 LFL = 31,000 ppm v/v; 2.2 lb/1000 ft<sup>3</sup>; 36 g/m<sup>3</sup>  
 BV = 80 cm/s  
 Highly Toxic or Toxic Under Code Classification = Neither

#### *Modify Tables 4-2 and D-2 as shown.*

##### **Table 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 489A  
 Composition (Mass %) = R-50/1150/600 (1.5/22.0/76.5)  
 Composition tolerances = ±0.3/±2.0/±2.0  
 OEL = 410 ppm v/v  
 Safety Group = A3  
 RCL = 1,000 ppm v/v; 0.12 lb/1000 ft<sup>3</sup>; 1.9 g/m<sup>3</sup>  
 LFL = 20,000 ppm v/v; 2.4 lb/1000 ft<sup>3</sup>; 38 g/m<sup>3</sup>  
 Highly Toxic or Toxic Under Code Classification = Neither

##### **Table D-2 Data Classifications for Refrigerant Blends**

Refrigerant Number = 489A  
 Composition (Mass %) = R-50/1150/600 (1.5/22.0/76.5)  
 Average Relative Molar Mass = 45.58 g/mol  
 Bubble Point (°F) = -192.5  
 Dew Point (°F) = 8.1  
 Bubble Point (°C) = -124.7  
 Dew Point (°C) = -13.3

BSR/ASHRAE Addendum t to ANSI/ASHRAE Standard 34-2022, *Designation and Safety Classification of Refrigerants*

First Public Review Draft

**Modify Table E-1 as shown. The remainder of Table E-1 remains unchanged.**

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

**INFORMATIVE APPENDIX E—TOXICITY AND FLAMMABILITY DATA FOR SINGLE-COMPOUND REFRIGERANTS****Table E-1 Toxicity Table for Standard 34—ATEL, ODL, FCL, and RCL Values for Single-Compound Refrigerants<sup>a</sup> (ppm v/v)**

Refrigerant R- <sup>b</sup>	Chemical Name	LC <sub>50</sub> <sup>c,d</sup>	Cardiac Sensitization		Anesthesia			Other <sup>i</sup>	ATEL	ODL	FCL	RCL	LFL	ATEL Source	RCL Source
			LOEL <sup>e</sup>	NOEL <sup>e</sup>	EC <sub>50</sub> <sup>f</sup>	LOEL <sup>g</sup>	NOEL <sup>h</sup>								
[ ... ]															
50	methane	140,000 <sup>v</sup>		1000			140,000 <sup>v</sup>		1000	140,000				100% Cardiac NOEL	
[ ... ]															
1150	ethene (ethylene)	57,000		1000			10,000		1000	140,000				100% Cardiac NOEL	
[ ... ]															
1270	propene (propylene)	>490,000 <sup>t</sup>	ND	ND	ND	ND	10,000	ND 7200	1000	140,000	6700	1000	27,000	Sect 7.1.1 (b)	ATEL
[ ... ]															

ND: None determined or not adequately defined according to criteria of this standard.

NA: Not applicable.

Note: The data shown in this table are rounded to three significant digits to avoid suggestion of artificial precision, but actual calculations used the data as published or converted to avoid propagation of errors in calculations, especially for blends. The ATEL and RCL concentrations are rounded to two significant figures.

[ ... ]

<sup>v</sup>. Simple asphyxiant. Special case where no adjustment to the LC<sub>50</sub> or anesthesia value is needed. The ATEL for both mortality and anesthetic effects is equal to the ODL of 140,000 ppm.

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

### **PROPOSAL**

#### **1. Revised 4.3.1 Based on Changes to Requirements in NEC Related to Copper-Clad Aluminum**

##### **4.3 Conductors**

4.3.1 Only soft-annealed copper, copper-clad aluminum, or an acceptable aluminum alloy shall be used for the conductor or conductors in a cable. Soft-annealed copper shall comply with the ~~Standard Specification for Soft or Annealed Copper Wire, ASTM B3.~~ Solid aluminum conductors in size 12 – 8 AWG shall comply with the requirements for aluminum-wire stock (aluminum-alloy conductor material). All other aluminum conductors shall comply with the requirements for semi-annealed 8000 series aluminum conductors in Section 10 of UL 1581. Copper-clad aluminum conductors shall comply with the Requirements for Copper-Clad Aluminum Conductors Used in Building Wire requirements in Section 44 12 of UL 1581. In a given cable, all conductors shall be of the same metal.

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

### PROPOSALS

6.2.1 A tag on which the following information is indicated plainly (the sequence of the items is not specified) shall be attached to every shipping length of finished cable. Where the cable is wound on a reel or coiled in a carton, the tag may be eliminated and the information printed or stenciled directly onto the reel or carton. Other information, where added, shall not confuse or mislead (see [6.2.5](#) – [6.2.7](#)) and shall not conflict with these requirements. See [6.2.8](#) for date marking.

- a) "600 volts" or "600 V".
- b) The name of the cable manufacturer, that manufacturer's trade name for the cable, or both, or any other appropriate distinctive marking by means of which the organization responsible for the cable is readily identifiable. Where the organization that is responsible for the cable is different from the actual manufacturer, both the responsible organization and the actual manufacturer shall be identified by name or by appropriate coding such as by trade name, trademark, the assigned electrical reference number, or the assigned combination of colored marker threads. The meaning of any coded identification shall be made available by the organization responsible for the cable. It is appropriate also to identify a private labeler; the means is not specified.
- c) The marking "UF-B" for multiple-conductor cable with 90°C insulation and "UF" for all other multiple-conductor cable and for single-conductor cable (see [6.1.12](#)).
- d) The AWG size of the circuit conductors and the quantity of circuit conductors.
- e) 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), shall be followed by one of the designations, "AL (CU-CLAD)", "ALUMINUM (COPPER-CLAD)", "CU-CLAD AL", or "COPPER-CLAD ALUMINUM". Tags, reels, and cartons for copper-clad aluminum cable shall have the following markings:

- a) ~~"Copper-clad aluminum shall be used only with equipment marked to indicate that it is for use with copper-clad aluminum conductors. Terminate copper-clad aluminum with pressure-wire connectors marked 'AL-CU' or 'CC-CU'."~~
- b) ~~For 12—10 AWG solid copper-clad aluminum "May be used with switches and receptacles with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with solid copper conductors."~~
- c) ~~For 12—10 AWG stranded copper-clad aluminum "May be used with receptacles with wirebinding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors."~~
- d) ~~For 12—10 AWG stranded copper-clad aluminum "May be used with switches with wire-binding screws or pressure-plate connecting mechanisms that are acceptable for use with stranded copper conductors, if indicated either on the device or in the installation instructions."~~
- e) ~~"Where physical contact between any combination of copper-clad aluminum, copper, and aluminum conductors occurs in a wire connector, the connector shall be of a type marked for such intermixed use and the connection shall be limited to dry locations only."~~

6.2.4 If a compact-stranded copper conductor is used, the AWG size of the conductor – wherever the size appears (on the tag, reel, or carton) – shall be followed by COMPACT COPPER or COMPACT CU. The word COMPACT may be abbreviated CMPCT. Tags, reels, and cartons for compact-stranded copper wire

shall have the following marking: "~~Terminate with connectors identified for use with compact stranded copper conductors~~".

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## BSR/UL 588, Standard for Safety for Seasonal and Holiday Decorative Products

### 1. Clarify requirements for series-connected lighting strings employing shrink tubing

#### PROPOSAL

22.2.1.2 The body of a lampholder which is less than 0.15 inch<sup>3</sup> (2500 mm<sup>3</sup>) shall: meet the requirements in either 22.2.1.2A or 22.2.1.2B.

22.2.1.2A a) Be ~~The body of a lampholder shall be~~ molded of a material that has a flammability rating of SC-0 or SC-1 in accordance with the Standard for Tests for Flammability of Small Polymeric Component Materials, UL 1694, when testing is performed on standardized flame bars of 55 (±0.5) × 13.0 (±0.5) mm at a thickness of 0.8 (±0.1) mm or less, ~~or~~

22.2.1.2B b) For non-replaceable lamps that are not of a molded construction, ~~the body of the lampholder is permitted to consist of a tubing material that has been determined suitable for use in the Standard for Seasonal and Holiday Decorative Products, UL 588, that complies with the requirements described in the Standard for Extruded Insulated Tubing, UL 224, as well as and the tubing shall:~~

- ~~1) A minimum of two layers of tubing shall be used.~~
- ~~2) One layer of tubing with double the required minimum thickness specified in UL 224, or~~
- ~~3) One layer with additional protection against abrasion such as a polymeric material surrounding the one layer.~~

- a) Be rated 90°C,
- b) Comply with the Tensile Strength requirements in the Standard for Extruded Insulated Tubing, UL 224,
- c) If in direct contact with uncoated copper, comply with the Copper Corrosion Test in the Standard for Extruded Insulated Tubing, UL 224, and
- d) Be provided with a polymeric material enclosing tubing and the lamp leads. The polymeric material shall be rated 90°C and have a flammability rating of SC-0 or SC-1 in accordance with the Standard for Tests for Flammability of Small Polymeric Component Materials, UL 1694, when testing is performed on standardized flame bars of 55 (±0.5) × 13.0 (±0.5) mm at a thickness of 0.8 (±0.1) mm or less.

22.2.1.2C The lampholder must comply with the Flammability Test for Small Components specified in the Standard for Tests for Flammability of Small Polymeric Component Materials, UL 1694, except that the bottom of the lampholder shall be located 11.8 ±0.39 inch (300 ±10 mm) above the cotton indicator and the flame application time shall be 10 seconds. Total consumption of the component or specimen or ignition of the cotton indicator by flaming particles or drops shall not be allowed. ~~The abrasion resistance protection in 22.2.1.2(b)(3) shall be removed prior to small-scale flame testing.~~

22.2.2.3 A material used for the body of a series-connected lampholder or a polymeric material described in 22.2.1.2B intended for outdoor use shall be resistant to Ultraviolet (UV) weathering

and exposure to water as determined by compliance with the Ultraviolet (UV) Light Exposure and Water Immersion Tests, Section 94.

*Exception No. 1: Materials that comply with the outdoor use requirements described in the Standard for Safety for Polymeric Materials – Use in Electrical Equipment Evaluations, UL 746C, do not need to be subjected to the tests in Section 94.*

*Exception No. 2: If Extruded Insulated Tubing is used as the lampholder, it shall comply with the outdoor use requirements described in the Standard for Extruded Insulating Tubing, UL 224. The suitability of the extruded tubing and the elongation properties after UV conditioning shall be determined in end use.*

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## **BSR/UL 719, Standard for Safety for Nonmetallic-Sheathed Cables**

### **PROPOSAL**

#### **1. Revised 4.3.1 Based on Changes to Requirements in NEC Related to Copper-Clad Aluminum**

### **PROPOSAL**

#### **4.3 Conductors**

4.3.1 Only soft-annealed copper, copper-clad aluminum, or an acceptable aluminum alloy shall be used for the conductor or conductors in a cable. Soft-annealed copper shall comply with ~~the Standard Specification for Soft or Annealed Copper Wire, ASTM B3.~~ Solid aluminum conductors in size 12 – 8 AWG shall comply with the requirements for aluminum-wire stock (aluminum-alloy conductor material). All other aluminum conductors shall comply with the "Requirements for Aluminum Conductors of an 8000 Series Alloy", Section in the Reference Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581. Copper-clad aluminum conductors shall comply with the Requirements for Copper-Clad Aluminum Conductors Used in Building Wire, Section ~~44~~ 12 in UL 1581. In a given cable, all conductors shall be of the same metal.

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## BSR/UL 746A, Standard for Safety for Polymeric Materials – Short Term Property Evaluations

## 1. Inclusion of Requirements from Paragraph 9.9.3 into Table 9.1

## PROPOSAL

Note from the TC Project Manager: The version of Table 9.1 shown in this proposal does not represent the complete version of Table 9.1. The version of Table 9.1 shown in this proposal only includes the suggested revisions of the Table.

Note from the TC Project Manager: This proposal includes the removal of the final row of the Blowing Agent Additive provided in Table 9.1.

**Table 9.1**  
**Test considerations based upon compound variations**

Additive	Addition		Deletion		Replacement <sup>(5)</sup>		Change in Level <sup>(6)</sup>		
	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	(normalized %)	Table 9.2
Acid Acceptor (Scavenger)	–	–	–	–	–	–	–	≤30	A
	≤2	A	≤2	A	≤2	A	≤2	>30	A
	>2 but ≤5	BE	>2 but ≤5	BE	>2 but ≤5	BE	>2 but ≤5	>30	BE
	>5	BDE	>5	BDE	>5	BDE	>5	≥ <del>30</del>	BDE
Antioxidant	–	–	–	–	–	–	–	Increase ≤30	A
	≤0.5	A	≤0.5	AD	≤0.5	AD	≤0.5	Increase >30	A
							≤0.5	Decrease >30	AD
	–	–	–	–	–	–	–	Decrease ≤30	AD
	>0.5	B	>0.5	BDE	>0.5	BDE	>0.5	Increase >30	B
>0.5							Decrease >30	BDE	
Antistatic Agent	–	–	–	–	–	–	–	≤30	A
	≤5	A	≤5	A	≤5	A	≤5	>30	A
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE <sup>(3)</sup>
Compatibilizer	–	–	–	–	–	–	–	≤30	A
	≤5	A	≤5	A	≤5	A	≤5	>30	A
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE <sup>(3)</sup>
Halogen Scavenger	–	–	–	–	–	–	–	≤30	A
	≤5	A	≤5	A	≤5	A	≤5	>30	A
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE <sup>(3)</sup>
Low Wear Additive	–	–	–	–	–	–	–	≤30	A
	≤5	A	≤5	A	≤5	A	≤5	>30	A
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE <sup>(3)</sup>

Additive	Addition		Deletion		Replacement <sup>(5)</sup>		Change in Level <sup>(6)</sup>		
	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	(normalized %)	Table 9.2
Lubricant or Release Agent	-	-	-	-	-	-	=	≤30	A
	≤5	A	≤5	A	≤5	A	≤5	>30	<u>A</u>
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE <sup>(3)</sup>
Processing Aid or Dispersing Agent	=	=	=	=	=	=	=	≤30	<u>A</u>
	≤5	<u>A</u>	≤5	<u>A</u>	≤5	<u>A</u>	≤5	>30	<u>A</u>
	≥5	<u>BDE</u>	≥5	<u>BDE</u>	≥5	<u>BDE</u>	≥5	>30	<u>BDE<sup>(3)</sup></u>
Blowing Agent <sup>(2)</sup>	-	-	Any	O	-	-	-	All Any Decrease	O
	-	-			-	-	Increase ≤30	O	
	≤1	O			≤1	O	≤1	Increase >30	C
	>1	CDE			>1	CDE	>1	Increase >30	CDE
	-	-			-	-	-	-	-
Corrosion Inhibitor	-	-	-	-	-	-	-	≤30	A
	≤1	A	≤1	A	≤1	A	≤1	>30	<u>A</u>
	>1 but ≤2	BE	>1 but ≤2	BE	>1 but ≤2	BE	>1 but ≤2	>30	BE
	>2	BDE	>2	BDE	>2	BDE	>2	>30	BDE
Coupling Agent	-	-	-	-	-	-	-	≤30	A
	≤1	AD	≤1	AD	≤1	AD	≤1	>30	AD
	>1	BDE	>1	BDE	>1	BDE	>1	>30	BDE
Drip Inhibitor	-	-	-	-	-	-	-	≤30	A
	≤1	A	≤1	A	≤1	A	≤1	>30	A
	>1	BDE	>1	BDE	>1	BDE	>1	>30	BDE
Nucleating Agent	-	-	-	-	-	-	-	≤30	A
	≤1	A	≤1	A	≤1	<u>A</u>	≤1	>30	A
	>1	BDE	>1	BDE	>1	BDE	>1	>30	BDE
Filler <sup>(4)</sup>	-	-	-	-	-	-	-	≤30	BM
	≤5	BM	≤5	BM	≤5	BM	≤5	>30	M
	>5	CDE	>5	CDE	>5	CDE	>5	>30	CDE
Reinforcement <sup>(4)</sup>	-	-	-	-	-	-	-	≤30	BM
	≤5	BM	≤5	BM	≤5	BM	≤5	>30	BM
	>5	CDE	>5	CDE	>5	CDE	>5	>30	CDE
Heat Stabilizer	-	-	-	-	-	-	-	Increase ≤30	A

Additive	Addition		Deletion		Replacement <sup>(5)</sup>		Change in Level <sup>(6)</sup>		
	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	Table 9.2	(absolute %)	(normalized %)	Table 9.2
	≤0.5	A	≤0.5	AD	≤0.5	AD	≤0.5	Increase >30	A
							≤0.5	Decrease >30	AD
	>0.5	B	>0.5	BDE	>0.5	BDE	–	Decrease ≤30	AD
							>0.5	Increase >30	B
Hydrolytic Stabilizer	–	–	–	–	–	–	–	≤30	A
	≤0.5	A	≤0.5	A	≤0.5	A	≤0.5	>30	A
	>0.5	BDE	>0.5	BDE	>0.5	BDE	>0.5	>30	BDE
Plasticizer	–	–	–	–	–	–	–	≤30	A
	≤1	A	≤1	A	≤1	A	≤1	>30	A
	>1 but ≤5	BE	>1 but ≤5	BE	>1 but ≤5	BE	>1 but ≤5	>30	BE
	>5	BDE	>5	BDE	>5	BDE	>5	>30	BDE
UV stabilizer	–	–	–	–	–	–	–	Increase ≤30	A
	≤0.5	A	≤0.5	AD <sup>8</sup>	≤0.5	AD <sup>8</sup>	≤0.5	Increase >30	A
							≤0.5	Decrease >30	AD <sup>8</sup>
	–	–	–	–	–	–	–	Decrease ≤30	AD <sup>8</sup>
	>0.5	B	>0.5	BD <sup>8</sup> E	>0.5	BD <sup>8</sup> E	>0.5	Increase >30	B
>0.5							Decrease >30	BD <sup>8</sup> E	

9.9.3 When a Change in Level occurs at a level less than the threshold of an absolute Addition or Deletion (as applicable), the appropriate test program may be based on the less extensive Program Code that is stated for either the Addition/Deletion or Change in Level circumstance. For example, if a lubricant is increased in level from 1% to 4%, the two potential Program Codes are A (Addition ≤5% Absolute) and BDE (Change in Level >30% Normalized, actually 300%). The appropriate test program would be Program Code A as it is less extensive compared to Program Code BDE.

Note: The logic of this paragraph is already included in Table 9.1.

## **BSR/UL 854, Standard for Safety for Service Entrance Cables**

### **PROPOSAL**

#### **1. Revised 6.3.1 Based on Changes to Requirements in NEC Related to Copper-Clad Aluminum**

### **PROPOSAL**

#### **6.3 Copper-clad aluminum**

6.3.1 Copper-clad aluminum conductors shall comply with the Requirements for Copper-Clad Aluminum Conductors Used in Building Wire, Section 44 12 of UL 1581.

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## BSR/UL 879A, Standard for Safety for LED Sign Retrofit Kits

### 1. Clarify the types of kits covered by the standard

#### PROPOSAL

#### 1 Scope

##### 1.1 General

1.1.1 This standard covers LED (light emitting diode) kits intended for field installation to retrofit a host sign ~~signs~~ already installed in the field and LED kits intended for installation in new signs.

#### 5 Glossary

5.6A GENERAL USE RETROFIT KIT - A kit that includes some but not all parts needed to replace the illumination system of a host sign, and installation instructions that identify the parts required to complete the subassembly in the field.

5.7A HOST SIGN - A sign or outline lighting system already installed in the field that is designated by a retrofit kit for field conversion of the illumination system.

~~5.10 RETROFIT KIT - A general term for a complete subassembly of parts and devices for field conversion of utilization equipment.~~

5.11A SIGN SPECIFIC RETROFIT KIT - A kit consisting of all necessary parts and hardware to allow for field installation in a host sign, based on the included installation instructions.

26.2 The instructions are to include the following information:

- a) Kit parts list;
- b) Identification and preparation of host sign;
- c) Identify what parts to remove;
- d) Determine if disconnect switch needs to be installed (for example a switch may be integral to a neon power supply) and where to locate it, if needed;
- e) Repair and seal any unused openings in the electrical enclosure of a wet or outdoor sign;
- f) Determine required number of LED's for illumination;
- g) Determine number of power ~~units~~ supplies;
- h) Determine the load limit ~~Loading~~ of power units;
- i) Mounting of LEDs;
- j) Wiring from power unit to LEDs (including any bonding instructions);
- k) Supply wiring to power unit(s) (including any grounding instructions); and
- l) Mounting of disconnect switch ~~For a general use retrofit kit, a list of components required to be supplied by the installer.~~

### 2. Add markings required by the NEC

#### PROPOSAL

## 24 Required Markings

24.1 The following markings are required:

a) Company name;

Note: The retrofit kit provider's name is required for compliance with NEC 600.4(B)(2).

b) Model designation;

c) Factory Identification – A component produced or assembled at more than one factory shall have a distinctive marking, which may be in code, by which it is able to be identified as manufactured at a particular factory;

d) Date of manufacture;

e) Input; volts and amps;

f) Output ~~per circuit~~, volts and amps, per circuit;

g) Total output current; in amps;

h) Fuse Replacement Marking – the fuse type identification and ampere rating shall be marked on, or adjacent to, the fuse and fuseholder. Wording shall be equivalent to the following: "Caution – For continued protection against risk of fire or shock replace only with same type and rating of fuse";

i) Electrical enclosures with ventilation openings shall be marked to indicate the top surface of the enclosure by the word "TOP";

j) Electrical enclosures shall be marked for installation in dry, damp, or wet locations as determined by investigation. Enclosures identified as Type 3, 3R, 3S, or 4X are suitable for wet location and may be so marked;

k) For Class 2 or limited power outputs the following shall be marked verbatim: "Class 2" or "LPS" or "Limited Power Source" as appropriate; and

l) For Class 2 or limited power outputs the following shall be marked verbatim when the power supply has multiple Class 2 or limited power source outputs: "Warning: Risk of electric shock or fire, do not connect outputs in series or parallel."; and

m) For field installed kits, a separate, field-installable label to indicate that the illumination system has been replaced. See Table 26.1, Item J.

24.2 Other than the label specified in 24.1(m) markings shall be located on the component where visible during servicing after installation in a sign, and, where the user marking is also to be a user marking for a sign, be located where visible during servicing after installation on a sign when the component is installed as intended.

## 26 LED Kits for Field Installation in Existing Signs a Host Sign

26.1 Each general use or sign specific retrofit kit packaging shall include a set of installation instructions. Multiple LED kits identified on a bulk packing list for a single sign or job location shall include at least one set of the installation instructions.

**Table 26.1**  
**Markings for installation instructions**

Item	Text	Reference
A.	WARNING – Risk of fire or electric shock. LED Retrofit Kit installation	26.4

Item	Text	Reference
	requires knowledge of sign electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.	
B.	WARNING – Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign.	26.4
C.	WARNING – Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.	26.4
D.	Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.	26.5
E.	Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.	26.6
F.	WARNING – To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.	26.7
G.	"Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation."	26.8
H.	"Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk."	26.9
I.	WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit with existing shunted bi-pin lampholders in the host sign. Note: Shunted lampholders are found only in fluorescent signs with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED retrofit kit manufacturer.	26.10
J.	"This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign" shall be marked on the retrofitted sign where readily visible by the user during normal maintenance including relamping. " * " shall be replaced by the original illumination type such as "fluorescent," "HID," etc. This marking shall be provided on a separate permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use. <u>Note: This marking is required for compliance with NEC 600.4(B)(1) and (B)(3).</u>	26.11
<p>Note:</p> <p>1) Except for marking item "J", all text shall be clearly incorporated in the installation instructions and shall be legible.</p>		

Item	Text	Reference
	<p>2) The marking for item "J" shall have a minimum letter height of 2.4 mm (3/32 in) and shall be in Univers Bold, Arial Bold, Helvetica Bold, or Zurich BT Bold or equivalent font.</p> <p>3) Markings that are within quotation marks shall be provided verbatim.</p>	

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**BSR/UL 1277, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members**

**PROPOSAL**

**1. Revised 6.1 Based on Changes to Requirements in NEC Related to Copper-Clad Aluminum**

**6 All Conductors**

6.1 Except for the thermocouple alloy for thermocouple-extension cables, only copper, copper-clad aluminum, or an acceptable aluminum alloy shall be used for the conductors in a cable. Soft-annealed copper shall comply with ASTM B 3. Solid aluminum conductors in sizes 12 – 8 AWG shall comply with the requirements for aluminum-wire stock (aluminum-alloy conductor material). All other aluminum conductors shall comply with the requirements for semi-annealed 8000 series aluminum conductors in Requirements for Aluminum Conductors of an 8000 Series Alloy, Section 10, of the Reference Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581. Copper-Clad aluminum conductors shall comply with the requirements in Requirements for Copper-Clad Aluminum Conductors Used in Building Wire, Section 12 of UL 1581.

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