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

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

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

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**ASABE (American Society of Agricultural and Biological Engineers)**
2950 Niles Road | Saint Joseph, MI 49085  https://www.asabe.org/
Contact: Carla VanGilder; vangilder@asabe.org

**National Adoption**

Stakeholders: Combine manufacturers, independent research entities, and combine users/owners.

Project Need: ISO 6689 has content of ASABE S343 and additional content. As the latest and greatest terminology resource for Combines, it should be used. This adoption will further harmonize national and international standardization, a goal that facilitates manufacturing, safety advancements, and product marketing worldwide.

Scope: This document specifies terms and definitions related to combine harvesters and their component parts. It identifies dimensions and other characteristics aimed at allowing comparison of operations of the component parts, in association with ISO 8210, which lays down methods of measuring characteristics and performance requirements for the terms defined.

**ASABE (American Society of Agricultural and Biological Engineers)**
2950 Niles Road | Saint Joseph, MI 49085  https://www.asabe.org/
Contact: Carla VanGilder; vangilder@asabe.org

**National Adoption**

Stakeholders: Combine manufacturers, independent research entities, and combine users/owners.

Project Need: ISO 8210 has content of ASABE S396.3 and additional content. As the latest and greatest information for testing Combines, it should be used. This adoption will further harmonize national and international standardization, a goal that facilitates manufacturing, safety advancements, and product marketing worldwide.

Scope: This document specifies a test procedure for the measurement and testing of combine harvesters. It applies to either self-propelled or trailed type, either directly cutting the crop or picking it up from a windrow, for use in several crops. This document specifies the terminology and methods to be used for measuring important characteristics of combine harvesters. It includes both functional and capacity tests, in other words, those conducted over an extended period when ease of operation, ease of adjustment, rate of work, and general operating characteristics can be assessed, and those carried out on specific occasions for the determination of grain loss and capacity characteristics. It applies to all types of combine harvesters.
**ASC X9 (Accredited Standards Committee X9, Incorporated)**

275 West Street, Suite 107 | Annapolis, MD 21401  www.x9.org
Contact: Ambria Frazier; Ambria.frazier@x9.org

**National Adoption**

BSR X9.8-2-202x, Approved Algorithms for PIN Encipherment (national adoption with modifications of ISO 9564-2)

Stakeholders: Banks, software and hardware developers, payment networks, service providers, merchants, auditors

Project Need: Part 2 of the series for protecting PINs includes the permitted algorithms. There isn’t another U.S. standard that addresses this.

Scope: ISO 9564 is the series of international standards that govern security of the accountholder PIN used in retail payment transactions (e.g., at an ATM or merchant). ANSI X9.8 Part 1 exists as the U.S. version of ISO 9564 Part 1. This NWI is to adopt ISO 9564 Part 2, which identifies the algorithms permitted for use to encrypt PINs. The ANSI version (adoption with modification) would be ANSI X9.8 Part 2.

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

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

**New Standard**

BSR/ASME REMAP-202x, Reference Method Accuracy and Precision (ReMAP) (new standard)

Stakeholders: Designers, producers, manufacturers, constructors, owners, operators, state air pollution agencies, facility owners, testing companies.

Project Need: Emissions need to be measured with suitable confidence and even whether the data being used represented an ensemble of measurement results that were consistently biased toward the low side of precision confidence limits. At present, there is no code that defines the precision process to determine the best emission performance levels for different types of sources in different sectors.

Scope: This document will define the precision of measurements of manual testing methods used to measure emission compliance with USEPA and ASME Methods.

**ASTM (ASTM International)**

100 Barr Harbor Drive | West Conshohocken, PA 19428-2959  www.astm.org
Contact: Corice Leonard; accreditation@astm.org

**New Standard**

BSR/ASTM WK78609-202x, New Classification for Polyethylene Pressure Pipe Thermoplastic Material Designation Code (new standard)

Stakeholders: Olefin Based Pipe industry.

Project Need: Will also develop a suffix system to recognize improved performance and the requirements to meet the suffixes (e.g., -RT for raised HDB temperature performance).

Scope: Define the thermoplastic material designation code (defined in F412) as a new classification standard. Will define current TMDC in use (PE 1404, PE 2708, PE 3608, PE 3708, and PE 4710).
New Standard
BSR/ASTM WK78747-202x, New Guide for Forensic Examination of Fibers (new standard)

Stakeholders: Criminalistics industry.
Project Need: This document is not intended as a detailed process description or rigid scheme for the analysis and comparison of fibers but as a guide to the strengths and limitations of each analytical technique. The goal is to provide a consistent approach to forensic fiber analysis.
Scope: This document is an introduction to the fiber examinations in forensic casework. It is intended to assist individuals who conduct forensic fiber analyses in their evaluation, selection, and application of tests that can be of value to their examinations.

New Standard
BSR/ASTM WK78748-202x, New Practice for a Forensic Fiber Training Program (new standard)

Stakeholders: Criminalistics industry.
Project Need: It contains a list of training objectives with recommended reading assignments, processes of instruction, and structured exercises to provide practical experience for the trainee.
Scope: This practice is for use by laboratory personnel responsible for training examiners to perform forensic examinations and comparisons of fibers, fabrics, and rope/cordage.

New Standard
BSR/ASTM WK78749-202x, New Guide for Microspectrophotometry in Forensic Fiber Analysis (new standard)

Stakeholders: Criminalistics industry.
Project Need: This guide deals primarily with color measurements within the visible spectral range but will also include some details concerning measurements in the UV and NIR spectral ranges. The particular method(s) employed by each analyst depends upon available equipment, examiner training, sample suitability, and sample size.
Scope: This guide is intended to assist forensic examiners who conduct ultraviolet (UV), visible, near infrared (NIR), or fluorescence emission spectral analyses on single fibers. This guide is to be used as a part of a broader analytical scheme.
AWS (American Welding Society)
8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672  www.aws.org
Contact: Jennifer Rosario; jrosario@aws.org

Revision
Stakeholders: Manufacturers, welders, engineers, CWIs, accredited training facilities.
Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.
Scope: This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 3/4 inch [19 mm] in the post-weld heat-treated (PWHT) condition, using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

AWS (American Welding Society)
8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672  www.aws.org
Contact: Jennifer Rosario; jrosario@aws.org

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Stakeholders: Manufacturers, welders, engineers, CWIs, accredited training facilities.
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Scope: This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 1-1/2 inch [38 mm] in the post-weld heat treated (PWHT) condition, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.
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Revision
Stakeholders: Manufacturers, welders, engineers, CWIs, accredited training facilities.
Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.
Scope: This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 3/4 inch [19 mm] in the post-weld heat-treated (PWHT) condition, using manual gas tungsten arc welding with a consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.
AWS (American Welding Society)
8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672  www.aws.org
Contact: Jennifer Rosario; jrosario@aws.org

Revision
BSR/AWS B2.1-4-221-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-4/P-4, Group 1 or 2), IN515, ER80S-82, and E8018-82, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As- Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-4-221-2021)

Stakeholders: Manufacturers, welders, engineers, CWIs, accredited training facilities.
Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.
Scope: This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 1-1/2 inch [38 mm] in the post-weld heat treated (PWHT) condition, using manual gas tungsten arc welding with a consumable insert root, followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)
18927 Hickory Creek Drive, Suite 220 | Mokena, IL 60448  https://www.iapmostandards.org
Contact: Terry Burger; terry.burger@asse-plumbing.org; standards@iapmostandards.org

New Standard
BSR/ASSE 1104-202x, Performance Requirements for Commercial Dishwashing Machines (new standard)

Stakeholders: Manufacturers, users, inspectors, distributors, designers, and contractors.
Project Need: Needed for testing and certification purposes.
Scope: This Standard covers dishwasher-drain airgaps with single or multiple inlet ports intended for use with ordinary domestic-type automatic dishwashers connected to the sanitary waste system, and specifies requirements for materials, physical characteristics, performance testing, and markings. The backflow prevention device shall be (a) An air gap complying with ASME A112.1.3; (b) An atmospheric-type vacuum breaker complying with ASSE 1001; (c) A hose connection vacuum breaker complying with ASSE 1011; or (d) A hose-connection backflow preventer complying with ASSE 1052. The minimum air gap shall be two (2) times the diameter of the supply orifice, or 1.0 inch (25.4 mm), whichever is larger.

ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 1-1 defines the Common definitions, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 1-2 defines the Core-specification generic part, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 1-3 defines the Desktop specification generic part, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 1-4 defines the LSB Languages specification defines components for runtime languages which are found on an LSB conforming system.
**ITI (INCITS) (InterNational Committee for Information Technology Standards)**
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

**National Adoption**
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 1-5 is the Imaging module of the Linux Standard Base (LSB). This module provides the fundamental system interfaces, libraries, and runtime environment upon which conforming applications and libraries requiring the LSB Imaging module depend. Interfaces described in LSB Imaging are mandatory except where explicitly listed otherwise. Interfaces described in the LSB Imaging module supplement those described in the LSB Core module. They do not depend on other LSB modules.

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

**National Adoption**
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 2-2 defines the Core specification for X86-32 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

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**National Adoption**
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 2-3 defines the Desktop specification for X86-32 architecture, a system interface for compiled applications, and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
**ITI (INCITS) (InterNational Committee for Information Technology Standards)**
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

**National Adoption**

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 3-2 defines the Core specification for IA64 (Itanium™) architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

**National Adoption**

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 3-3 defines the Desktop specification for IA64 (Itanium™) architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

**ITI (INCITS) (InterNational Committee for Information Technology Standards)**
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

**National Adoption**
INCITS/ISO/IEC 23360-4-2:2021 [202x], Linux Standard Base (LSB) - Part 4-2: Core specification for AMD64 (X86-64) architecture (identical national adoption of ISO/IEC 23360-4-2:2021 and revision of INCITS/ISO/IEC 23360-4:2006 [R2020])

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 4-2 defines the Core specification for AMD64 (X86-64) architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
**National Adoption**

INCITS/ISO/IEC 23360-4-3:2021 [202x], Linux Standard Base (LSB) - Part 4-3: Desktop specification for AMD64 (X86-64) architecture (identical national adoption of ISO/IEC 23360-4-3:2021 and revision of INCITS/ISO/IEC 23360-4:2006 [R2020])

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Part 4-3 defines the Desktop specification for AMD64 (X86-64) architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

**National Adoption**


Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Part 5-2 defines the Core specification for PowerPC 32 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

**National Adoption**


Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry.

Scope: Part 5-3 defines the Desktop specification for PowerPC 32 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600 | Washington, DC 20001   www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 6-2 defines the Core specification for PowerPC 64 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600 | Washington, DC 20001   www.incits.org
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National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 6-3 defines the Desktop specification for PowerPC 64 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

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Contact: Deborah Spittle; comments@standards.incits.org

National Adoption
Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 7-2 defines the Core specification for S390 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 7-3 defines the Desktop specification for S390 architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 8-2 defines the Core specification for S390X architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.

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700 K Street NW, Suite 600 | Washington, DC 20001  www.incits.org
Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

Stakeholders: ICT industry.
Project Need: Adoption of this International Standard is beneficial to the ICT industry.
Scope: Part 8-3 defines the Desktop specification for S390X architecture, a system interface for compiled applications and a minimal environment for support of installation scripts. Its purpose is to enable a uniform industry standard environment for high-volume applications conforming to the LSB.
Reaffirmation
BSR/TAPPI T 815 om-2012 (R202x), Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method) (reaffirmation of ANSI/TAPPI T 815 om-2012 (R2018))
Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.
Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.
Scope: This method determines the coefficient of static friction of most packaging materials by measuring the angle at which one test surface begins to slide against another inclined surface as the incline is increased at a constant and prescribed rate.

Reaffirmation
BSR/TAPPI T 830 om-2018 (R202x), Ink rub test of container board and corrugated board (reaffirmation of ANSI/TAPPI T 830 om-2018)
Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.
Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.
Scope: Ink rub testers are designed to evaluate the scuffing or rubbing resistance of an ink film or fiber surface on container board and corrugated board. A variety of tests may be made, including: dry rub; wet rub; heated rub; wet bleed or transfer; wet smear; and functional rub.

Reaffirmation
BSR/TAPPI T 834 om-2012 (R202x), Determination of containerboard roll hardness (reaffirmation of ANSI/TAPPI T 834 om-2012 (R2018))
Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.
Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.
Scope: This test method describes a procedure to determine the uniformity in relative hardness of rolls of containerboard. Since several devices are currently available that use significantly differing technologies to determine hardness, this method only addresses the actual measurement process and not the test equipment specifically.
Reaffirmation

BSR/TAPPI T 839 om-2018 (R202x), Edgewise compressive strength of corrugated fiberboard using the clamp method (short column test) (reaffirmation of ANSI/TAPPI T 839 om-2018)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI Standard.

Scope: This method describes procedures for determining the edgewise compressive strength, with flutes vertical, loading perpendicular to the axis of the flutes, of a short column of single-, double-, or triple-wall corrugated fiberboard.
Call for Comment on Standards Proposals

American National Standards

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

Ordering Instructions for “Call-for-Comment” Listings

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

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

* Standard for consumer products

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Comment Deadline: December 26, 2021

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

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

Addenda


In the right climate, location, and application, natural ventilation can provide and enhance the healing environment. Natural ventilation has been successfully implemented in healthcare facilities throughout the world. This proposed addendum allows Natural Ventilation for certain limited healthcare spaces and under certain conditions. ASHRAE Standard 62.1’s natural ventilation procedure, which was completely revamped in 2019, was used as a starting point for this proposed addendum.

Click here to view these changes in full

Send comments (copy psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts
Comment Deadline: December 26, 2021

NSF (NSF International)
789 N. Dixboro Road, Ann Arbor, MI 48105 | mmilla@nsf.org, www.nsf.org

Revision
BSR/NSF 53-202x (i140r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2020)
It is the purpose of this Standard to establish minimum requirements for materials, design, and construction, and performance of point-of-use and point-of-entry drinking-water treatment systems that are designed to reduce specific health-related contaminants in public or private water supplies. Such systems include point-of-entry drinking-water treatment systems used to treat all or part of the water at the inlet to a residential facility or a bottled water production facility, and includes the material and components used in these systems. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Monica Milla; mmilla@nsf.org

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

Revision
BSR/NSF/CAN 50-202x (i162r3), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021)
This Standard covers materials, chemicals, components, products, equipment, and systems, related to public and residential recreational water facility operation.

Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

UL (Underwriters Laboratories)
47173 Benicia Street, Fremont, CA 94538 | Derrick.L.Martin@ul.org, https://ul.org/

Revision
BSR/UL 67-202x, Standard for Safety for Panelboards (revision of ANSI/UL 67-2020)
This proposal covers the addition of requirements for Panelboards provided with active cooling.

Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

UL (Underwriters Laboratories)
47173 Benicia Street, Fremont, CA 94538 | Derrick.L.Martin@ul.org, https://ul.org/

Revision
BSR/UL 98-202x, Standard for Safety for Enclosed and Dead-Front Switches (revision of ANSI/UL 98-2019)
This proposal covers the following topics: (a) Barriers to address inadvertent contact on line side of service disconnect; (b) Revision of values for dielectric test frequencies in paragraphs 6.6.2.5, 7.5.1, and 7.6.1; and (c) Overload and endurance-time constant correction/addition.

Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx
Comment Deadline: December 26, 2021

UL (Underwriters Laboratories)
333 Pfingsten Road, Northbrook, IL 60062 | megan.monsen@ul.org, https://ul.org/

Revision

BSR/UL 1682-202x, Standard for Safety for Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type Configurations (revision of ANSI/UL 1682-2017)
This proposal for UL 1682 covers: Alternative terminal identifier for the connection of the grounded conductor.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

Comment Deadline: January 10, 2022

AAFS (American Academy of Forensic Sciences)
410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/ASB STD 100-202x, Standard Scale of Source Conclusions Criteria for Toolmark Examinations (new standard)
This standard provides a standard scale of conclusions and criteria to be used for all toolmark examinations and comparisons. These comparisons are conducted for the forensic purpose of determining if two or more toolmarks could have been created by the same tool. This document is limited to the process of developing source conclusions and does not address or consider other types of conclusions possible in the analysis of toolmark evidence.
Single copy price: Free
Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/
Order from: Document will be provided electronically on AAFS Standards Board website http://www.asbstandardsboard.org/ free of charge.
Send comments (copy psa@ansi.org) to: asb@aafs.org
Comment Deadline: January 10, 2022

ANS (American Nuclear Society)
555 North Kensington Avenue, La Grange Park, IL 60526 | kmurdoch@ans.org, www.ans.org

Revision

BSR/ANS 2.21-202x, Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink (revision of ANSI/ANS 2.21-2012 (R2016))
This standard establishes criteria for the use of meteorological and hydrological data by nuclear facilities to evaluate the atmospheric effects from meteorological parameters on ultimate heat sinks. These input parameters may include dry-bulb temperature; wet-bulb temperature; dewpoint, cloud-cover, relative humidity, precipitation, wind speed, incoming short-wave solar radiation, incoming long-wave radiation, surface water temperature, and atmospheric pressure.

Single copy price: $25.00
Obtain an electronic copy from: orders@ans.org
Order from: orders@ans.org
Send comments (copy psa@ansi.org) to: Patricia Schroeder; pschroeder@ans.org

ATIS (Alliance for Telecommunications Industry Solutions)
1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

New Standard

BSR/ATIS 0600038-202x, Intrusion Protection for Outside Plant (OSP) Enclosures (new standard)
This standard establishes criteria and test requirements for equipment enclosures and assemblies used in communications network equipment outside plant environments to provide protection from intrusion of dust, water, impact, and insects.

Single copy price: Free
Obtain an electronic copy from: dgreco@atis.org
Send comments (copy psa@ansi.org) to: Drew Greco; dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)
1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

New Standard

BSR/ATIS 0600041-202x, Security Requirements for Telecommunications Equipment Structures (new standard)
This standard covers the minimum criteria for securing and managing access to telecommunications equipment structures installed and utilized by service providers and others in outside plant (OSP) and indoor environments. These equipment structures include cabinet enclosures, huts, poles, pedestals, CEVs, etc.

Single copy price: Free
Obtain an electronic copy from: dgreco@atis.org
Send comments (copy psa@ansi.org) to: Drew Greco; dgreco@atis.org
Comment Deadline: January 10, 2022

**ATIS (Alliance for Telecommunications Industry Solutions)**
1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

**Reaffirmation**

This standard specifies Emergency Telecommunications Service (ETS) network element requirements for wireline access in support of ETS Voice and ETS Video. These requirements are based on the procedures defined in the ETS in IP Networks Phase 1 standard [ATIS-1000010]. In addition, Operations, Administration, Maintenance, and Provisioning (OAM&P) requirements are specified.
Single copy price: $145.00
Obtain an electronic copy from: akarditzas@atis.org
Send comments (copy psa@ansi.org) to: Anna Karditzas; akarditzas@atis.org

**ATIS (Alliance for Telecommunications Industry Solutions)**
1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

**Revision**

This document defines how to measure the Telecommunication Energy Efficiency Ratio (TEER) of Telecom Inverters for use in DC Power Plant configurations. The standard will also provide requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.
Single copy price: Free
Obtain an electronic copy from: dgreco@atis.org
Send comments (copy psa@ansi.org) to: Drew Greco; dgreco@atis.org

**ATIS (Alliance for Telecommunications Industry Solutions)**
1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

**Stabilized Maintenance**

BSR/ATIS 0900414-2012 (S202x), Network-to-Customer Installation Interfaces - Enhanced 911 Analog Voicegrade PSAP Access Using Loop Reverse-Battery Signaling (stabilized maintenance of ANSI/ATIS 0900414-2012 (R2017))
This standard provides network-to-customer installation (CI) interface requirements for the connection of a Public Safety Answering Point (PSAP) CI to a network providing access to an Enhanced 911 switching system. The interface uses loop reverse-battery signaling with a CI-provided battery source. The interface allows users of the Enhanced 911 system to communicate with the PSAP CI and allows the Enhanced 911 system to transmit the caller’s emergency service identification (CESID) information to the PSAP CI.
Single copy price: $145.00
Obtain an electronic copy from: akarditzas@atis.org
Send comments (copy psa@ansi.org) to: Anna Karditzas; akarditzas@atis.org
Comment Deadline: January 10, 2022

ATIS (Alliance for Telecommunications Industry Solutions)
1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

Stabilized Maintenance
BSR/ATIS 1000045-2012 (S202x), ATIS NGN Identity Management Mechanisms (stabilized maintenance of ANSI/ATIS 1000045-2012 (R2017))
This standard describes the specific IdM mechanisms and suites of options that should be used to meet the requirements defined in the ATIS IdM Requirements and Use Cases Standard.
Single copy price: $175.00
Obtain an electronic copy from: akarditzas@atis.org
Send comments (copy psa@ansi.org) to: Anna Karditzas; akarditzas@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)
1200 G Street NW, Suite 500, Washington, DC 20005 | akarditzas@atis.org, www.atis.org

Stabilized Maintenance
BSR/ATIS 1000050-2012 (S202x), Next Generation Network (NGN) Operator Regular Intercept Standard (stabilized maintenance of ANSI/ATIS 1000050-2012 (R2017))
This standard describes Next Generation Network (NGN) signaling support for Operator Regular Intercept. The service may be invoked when an NGN caller attempts to set up a call/session to an “intercepted number” where the address of the called party has changed. In the event that the old address has been replaced with multiple new addresses ("split referral"), interaction with the calling party is required to determine the appropriate new address ("referral number"). The scope of this standard includes: (1) SIP signaling for a call reaching an intercepted number in the NGN where all or part of the Intercept Service is provided by the Application Server associated with other terminating services for this destination; (2) SIP signaling for a call to an intercepted number in the NGN that is directed toward an application in the NGN, or in another NGN, which provides the Intercept Service.
Single copy price: $110.00
Obtain an electronic copy from: akarditzas@atis.org
Send comments (copy psa@ansi.org) to: Anna Karditzas; akarditzas@atis.org

AWS (American Welding Society)
8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | kbulger@aws.org, www.aws.org

Revision
BSR/AWS C3.6M/C3.6-202x AMD2, Specification for Furnace Brazing (revision and redesignation of ANSI/AWS C3.6M/C3.6:2016, ANSI/AWS C3.6M/C3.6-2019 AMD1)
This specification provides the minimum fabrication, equipment, material, process procedure requirements, as well as inspection requirements for the furnace brazing of steels, copper, copper alloys, and heat- and corrosion-resistant alloys, and other materials that can be adequately furnace brazed (the furnace brazing of aluminum alloys is addressed in AWS C3.7M/C3.7, Specification for Aluminum Brazing). This specification provides criteria for classifying furnace brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability in each class. This specification defines acceptable furnace brazing equipment, materials, and procedures, as well as the required inspection for each class of joint.
Single copy price: $36.00 non-member / $26.00 member.
Obtain an electronic copy from: kbulger@aws.org
Order from: Kevin Bulger; kbulger@aws.org
Send comments (copy psa@ansi.org) to: Same
Comment Deadline: January 10, 2022

CSA (CSA America Standards Inc.)
8501 East Pleasant Valley Road, Cleveland, OH 44131-5575 | ansi.contact@csagroup.org, www.csagroup.org

Revision

BSR/CSA HGV 4.2-202x, Hoses for dispensing compressed gaseous hydrogen (revision of ANSI/CSA HGV 4.2-2013 (R2019))
This standard specifies requirements for the materials, design, manufacture, and testing of hoses and hose assemblies used for dispensing compressed gaseous hydrogen to vehicles.
Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

CTA (Consumer Technology Association)
1919 S. Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

Revision

BSR/CTA 2056-A-202x, Physical Activity Monitoring for Step Counting (revision and redesignation of ANSI/CTA 2056)
This standard creates definitions and performance criteria for measuring step counting on consumer wearable or app-based Physical Activity Monitoring Devices.
Single copy price: Free
Obtain an electronic copy from: Catrina Akers; cakers@cta.tech
Order from: Catrina Akers; cakers@cta.tech
Send comments (copy psa@ansi.org) to: Same

LIA (ASC Z136) (Laser Institute of America)
12001 Research Parkway, Suite 210, Orlando, FL 32828 | lcaldero@lia.org, www.laserinstitute.org

Revision

This standard provides recommendations for the safe use of lasers and laser systems that operate at wavelengths between 180 nm and 1 mm. This revision will be a new horizontal standard that supports ANSI Z136.2, Z136.3, Z136.5, Z136.6, Z136.7, Z136.8, Z136.9, and proposed Z136.10 standards, as well as the ANSI Z136.4
Single copy price: $30.00
Obtain an electronic copy from: https://www.lia.org/store/product/bsrz1361202x-safe-use-lasers-draft-4-public-review
Send comments (copy psa@ansi.org) to: Liliana Caldero; lcaldero@lia.org
Comment Deadline: January 10, 2022

NENA (National Emergency Number Association)
1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | darnold@nena.org, www.nena.org

New Standard

BSR/NENA STA-024.1-202x, NENA Standard for the Conveyance of Emergency Incident Data Objects (EIDOs) between Next Generation (NG9-1-1) Systems and Applications (new standard)

Definition of the standard specification or information needed for an application developer to build the interface to receive and send Emergency Incident Data Objects (EIDOs) from their application to other vendor applications, enabling data exchange interoperability between i3-compliant PSAPs and their associated response agencies and other applications. This does not involve content or structure of the EIDO itself.

Single copy price: Free


Order from: download & comment at https://dev.nena.org/higherlogic/ws/public/document?document_id=24482&wg_id=39962138-43d1-4402-a475-6468db7effda or email darnold@nena.org

Send comments (copy psa@ansi.org) to: download & comment at https://dev.nena.org/higherlogic/ws/public/document?document_id=24482&wg_id=39962138-43d1-4402-a475-6468db7effda or email darnold@nena.org

NENA (National Emergency Number Association)
1700 Diagonal Road, Suite 500, Alexandria, VA 22314 | darnold@nena.org, www.nena.org

New Standard

BSR/NENA STA-034.1-202X, NENA Legacy Selective Router Gateway Standard (new standard)

The Legacy Selective Router Gateway (LSRG) will provide the needed functionality to facilitate emergency call handling during the transition from the current E9-1-1 system to the Next Generation 9-1-1 system. The LSRG is a signaling and media connection point between a legacy Selective Router (SR) and an NG9-1-1 Emergency Services Network. The LSRG allows calls routed via a legacy SR to terminate on to a Public Safety Answering Point (PSAP) that is served by an NG9-1-1 Emergency Services Network, as well as allowing calls routed via an NG9-1-1 Emergency Services Network to terminate to a legacy PSAP that is connected to a legacy SR. The LSRG also facilitates transfers of calls between PSAPs that are served by legacy SRs and PSAPs that are served by NG9-1-1 Emergency Services Networks, regardless of the type of network the call originated from. This standard will provide a complete technical specification for the LSRG, including all required functions and interfaces.

Single copy price: Free

Obtain an electronic copy from: download & comment at https://dev.nena.org/higherlogic/ws/public/document?document_id=24487&wg_id=eca27a3d-a4c7-4d67-bbb06-b3bb241df44e or email darnold@nena.org

Order from: darnold@nena.org

Send comments (copy psa@ansi.org) to: download & comment at https://dev.nena.org/higherlogic/ws/public/document?document_id=24487&wg_id=eca27a3d-a4c7-4d67-bbb06-b3bb241df44e or email darnold@nena.org
Comment Deadline: January 10, 2022

**NSF (NSF International)**
789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arise@nsf.org, www.nsf.org

**Revision**

BSR/NSF 25-202x (i10r5), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2021)

This Standard contains requirements for food and beverage vending machines, including those that vend packaged food and beverages and those that vend food and beverages in bulk.

Single copy price: Free


Send comments (copy psa@ansi.org) to: Allan Rose; arise@nsf.org

**NSF (NSF International)**
789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arise@nsf.org, www.nsf.org

**Revision**

BSR/NSF 170-202x (i30r3), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2021)

Definitions covered by this Standard consist of terminology related to food equipment, including terms describing equipment, materials, design, construction, and performance testing. This Standard includes common definitions of terms used throughout NSF Food Equipment and Sanitation Standards.

Single copy price: Free


Send comments (copy psa@ansi.org) to: Allan Rose; arise@nsf.org

**NSF (NSF International)**
789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

**Revision**

BSR/NSF/CAN 50-202x (i140r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

This Standard covers materials, chemicals, components, products, equipment and systems, related to public and residential recreational water facility operation.

Single copy price: Free


Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org
Comment Deadline: January 10, 2022

**TIA (Telecommunications Industry Association)**
1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | standards-process@tiaonline.org, www.tiaonline.org

**Revision**

BSR/TIA 568.3-E-202x, Optical Fiber Cabling Component Standard (revision and redesignation of ANSI/TIA 568.3-D-2016)

Revise TIA 568.3-D to include the content from TIA 568.3-D-1, Addendum 1: General Updates, and any additional content deemed appropriate by formulating subcommittee. Justification: Uphold a 5-year cadence on maintenance of standard, incorporate content from published addendum, and update pertinent content to reflect the latest technological updates and capabilities.

Single copy price: $174.00
Obtain an electronic copy from: TIA; standards-process@tiaonline.org
Order from: TIA; standards-process@tiaonline.org
Send comments (copy psa@ansi.org) to: standards-process@tiaonline.org

**UL (Underwriters Laboratories)**
12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | kelly.smoke@ul.org, https://ul.org/

**Reaffirmation**


Single copy price: Free
Order from: http://www.shopulstandards.com
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

**UL (Underwriters Laboratories)**
12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Tony.Partridge@ul.org, https://ul.org/

**Revision**


This proposal recirculates changes to the November 6, 2020 proposed Third Edition of UL 4248-1.

Single copy price: Free
Order from: http://www.shopulstandards.com
Send comments (copy psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

Call for Comment on Standards Proposals
Comment Deadline: January 25, 2022

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

**New Standard**

INCITS 542-202x, Information technology - Automation/Drive Interface Transport Protocol - 3 (ADT-3) (new standard)

Automation/Drive Interface Transport Protocol - 3 is the next generation of the transport and protocol portion of the current Automation/Drive Interface. It follows ADT-2, and ADT. The following items should be considered for inclusion in Automation/Drive Interface Transport Protocol - 3: (a) continued development of iADT for using Ethernet as the transport; (b) enhancements to bridging capabilities; (c) enhancements to the protocol; (d) corrections and clarifications; and (e) other capabilities that may fit within the scope of this project.

Single copy price: Free


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

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**UL (Underwriters Laboratories)**

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada | sabrina.khrebtov@ul.org, https://ul.org/

**Revision**


(1) Publish a new edition of UL 1565.

Single copy price: Free


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

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

B11 (B11 Standards, Inc.)
P.O. Box 690905, Houston, TX 77269 | cfelinski@b11standards.org, https://www.b11standards.org/

New Technical Report

B11.TR8, Guide to Inspection of Risk Reduction Measures (technical report)
The purpose of this Technical Report is to provide guidance for inspecting risk reduction measures as applied to existing safety systems to verify they are within the specified parameters. This Technical Report describes a scalable approach for applications based on the principles of Plan•Do•Check•Act (Adjust/Abandon), and henceforth, simply “PDCA (Adjust/Abandon).” This Technical Report introduces three categories of inspections; conversational inspections, visual inspections, and technical inspections. Applying the appropriate category to existing inspections improves communication, safety culture, and risk reduction measures. Although the three categories provide a benefit, it is not necessary for all categories to be used. The template checklists which are included may be modified to produce “organizational specific” checklists by either internal or external subject matter experts.

Notice of Withdrawal: ANS at least 10 years past approval date

The following American National Standards have not been revised or reaffirmed within ten years from the date of their approval as American National Standards and accordingly are withdrawn:

TAPPI (Technical Association of the Pulp and Paper Industry)
15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

ANSI/TAPPI T 519 om-2011, Diffuse opacity of paper (d/0 paper backing)
TAPPI intends to reinstate this standard as a newly proposed ANSI and a PINS announcement will be published in Standards Action - Dec-10th 2021.
Please send inquiries to standards@tappi.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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**ASABE (American Society of Agricultural and Biological Engineers)**
2950 Niles Road, Saint Joseph, MI  49085  | vangilder@asabe.org, https://www.asabe.org/

*Revision*

*Revision*
ANSI/ASABE S648-5.1 MONYEAR-2021, Agricultural Field Equipment Braking - Part 5: Requirements for the Interface between Towing Vehicle and Towed Vehicles (revision and redesignation of ANSI/ASABE S648-5 MAR2020) Final Action Date: 11/17/2021

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**ASC X9 (Accredited Standards Committee X9, Incorporated)**
275 West Street, Suite 107, Annapolis, MD  21401  | Ambria.frazier@x9.org, www.x9.org

*Revision*

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**ASTM (ASTM International)**
100 Barr Harbor Drive, West Conshohocken, PA  19428-2959  | accreditation@astm.org, www.astm.org

*New Standard*
ANSI/ASTM E2808-2021a, Standard Guide for Microspectrophotometry in Forensic Paint Analysis (new standard) Final Action Date: 11/16/2021

*Revision*

*Revision*

*Revision*

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**AWS (American Welding Society)**
8669 NW 36th Street, Suite 130, Miami, FL  33166-6672  | jrosario@aws.org, www.aws.org

*Revision*

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**AWWA (American Water Works Association)**
6666 W. Quincy Avenue, Denver, CO  80235  | polson@awwa.org, www.awwa.org

*Reaffirmation*
AWWA (American Water Works Association)
6666 W. Quincy Avenue, Denver, CO 80235 | polson@awwa.org, www.awwa.org

Reaffirmation
ANSI/AWWA C511-2017 (R2021), Reduced-Pressure Principle Backflow Prevention Assembly (reaffirmation of ANSI/AWWA C511-2017) Final Action Date: 11/18/2021

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)
18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | terry.burger@asse-plumbing.org; standards@iapmostandards.org, www.asse-plumbing.org

New Standard
ANSI/ASSE 1010-2021, Performance Requirements for Water Hammer Arresters (new standard) Final Action Date: 11/17/2021

New Standard
ANSI/ASSE 1012-2021, Performance Requirements for Backflow Preventers with an Intermediate Atmospheric Vent (new standard) Final Action Date: 11/17/2021

Revision
ANSI/ASSE-1001-2021, Performance Requirements for Performance Requirements for Atmospheric Type Vacuum Breakers (revision of ANSI/ASSE 1001-2017) Final Action Date: 11/17/2021

Revision

IES (Illuminating Engineering Society)
120 Wall Street, Floor 17, New York, NY 10005-4001 | pmcgillicuddy@ies.org, www.ies.org

Revision
ANSI/IES RP-8-2021, Recommended Practice: Design and Maintenance of Roadway and Parking Facility Lighting (revision of ANSI/IES RP-8-2018) Final Action Date: 11/18/2021

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

Revision
ANSI/NSF 14-2021 (i121r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020) Final Action Date: 11/16/2021

UL (Underwriters Laboratories)
12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Casey.Granata@ul.org, https://ul.org/

Reaffirmation
ANSI/UL 1077-2016 (R2021), Standard for Safety for Supplementary Protectors for Use in Electrical Equipment (reaffirmation of ANSI/UL 1077-2016) Final Action Date: 11/16/2021

Reaffirmation

Revision
ANSI/UL 797A-2021, Electrical Metallic Tubing - Aluminum and Stainless Steel (revision of ANSI/UL 797A-2020) Final Action Date: 11/17/2021
UL (Underwriters Laboratories)
12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Joshua.Johnson@ul.org, https://ul.org/

Revision
Call for Members (ANS Consensus Bodies)

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

**ASABE (American Society of Agricultural and Biological Engineers)**
2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, https://www.asabe.org/
Carla VanGilder; vangilder@asabe.org


**ASME (American Society of Mechanical Engineers)**
Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org
Terrell Henry; ansibox@asme.org

- BSR/ASME REMAP-202x, Reference Method Accuracy and Precision (ReMAP) (new standard)

**ATIS (Alliance for Telecommunications Industry Solutions)**
1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org
Drew Greco; dgreco@atis.org

- BSR/ATIS 0600038-202x, Intrusion Protection for Outside Plant (OSP) Enclosures (new standard)
- BSR/ATIS 0600041-202x, Security Requirements for Telecommunications Equipment Structures (new standard)

**AWS (American Welding Society)**
8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org
Jennifer Rosario; jrosario@aws.org


BSR/AWS B2.1-4-221-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-4/P-4, Group 1 or 2), IN515, ER80S-82, and E8018-82, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As- Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-4-221-2021)

BSR/CTA 2056-A-202x, Physical Activity Monitoring for Step Counting (revision and redesignation of ANSI/CTA 2056)

CTA is seeking new members to join the consensus body. CTA and R11 Health, Fitness & Wellness Committee are particularly interested in adding new members (called "users") who acquire health, fitness and wellness products from those who create them, and in adding new members who neither produce nor use health, fitness or wellness products, and others (called members with a "general interest").

INCITS 542-202x, Information technology - Automation/Drive Interface Transport Protocol - 3 (ADT-3) (new standard)


Call for Members (ANS Consensus Bodies)
ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600, Washington, DC  20001  | comments@standards.incits.org, www.incits.org


INCITS/ISO/IEC 23360-4-2:2021 [202x], Linux Standard Base (LSB) - Part 4-2: Core specification for AMD64 (X86-64) architecture (identical national adoption of ISO/IEC 23360-4-2:2021 and revision of INCITS/ISO/IEC 23360-4:2006 [R2020])

INCITS/ISO/IEC 23360-4-3:2021 [202x], Linux Standard Base (LSB) - Part 4-3: Desktop specification for AMD64 (X86-64) architecture (identical national adoption of ISO/IEC 23360-4-3:2021 and revision of INCITS/ISO/IEC 23360-4:2006 [R2020])


ITI (INCITS) (InterNational Committee for Information Technology Standards)
700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org


NSF (NSF International)
789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org
Allan Rose; arose@nsf.org

BSR/NSF 25-202x (i10r5), Vending Machines for Food and Beverages (revision of ANSI/NSF 25-2021)

BSR/NSF 53-202x (i140r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2020)

BSR/NSF 170-202x (i30r3), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2021)

BSR/NSF/CAN 50-202x (i140r4), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2020)

BSR/NSF/CAN 50-202x (i162r3), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021)

TAPPI (Technical Association of the Pulp and Paper Industry)
15 Technology Parkway, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org
Natasha Bush-Postell; standards@tappi.org

BSR/TAPPI T 815 om-2012 (R202x), Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method) (reaffirmation of ANSI/TAPPI T 815 om-2012 (R2018))

BSR/TAPPI T 830 om-2018 (R202x), Ink rub test of container board and corrugated board (reaffirmation of ANSI/TAPPI T 830 om-2018)

BSR/TAPPI T 834 om-2012 (R202x), Determination of containerboard roll hardness (reaffirmation of ANSI/TAPPI T 834 om-2012 (R2018))

BSR/TAPPI T 839 om-2018 (R202x), Edgewise compressive strength of corrugated fiberboard using the clamp method (short column test) (reaffirmation of ANSI/TAPPI T 839 om-2018)

TIA (Telecommunications Industry Association)
1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | standards-process@tiaonline.org, www.tiaonline.org
Teesha Jenkins; standards-process@tiaonline.org

BSR/TIA 568.3-E-202x, Optical Fiber Cabling Component Standard (revision and redesignation of ANSI/TIA 568.3-D-2016)
Call for Members (ANS Consensus Bodies)

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 affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information.

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

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

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

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities. Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE’s membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE’s membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.
American National Standards (ANS) Process

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

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

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

- ANSI 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
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- Information about standards Incorporated by Reference (IBR): https://ibr.ansi.org/
- ANSI - Education and Training: www.standardslearn.org
American National Standards Under Continuous Maintenance

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

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

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

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select “American National Standards Maintained Under Continuous Maintenance.” Questions? psa@ansi.org.
## ANSI-Accredited Standards Developers (ASD) Contacts

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

<table>
<thead>
<tr>
<th>Organization</th>
<th>Address</th>
<th>Website</th>
<th>Contact Person</th>
<th>Email Address</th>
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<tr>
<td><strong>AAFS</strong></td>
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<td><strong>CSA</strong></td>
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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); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted. Those regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI’s New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

**ORDERING INSTRUCTIONS**

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

### ISO Standards

**Additive manufacturing (TC 261)**

ISO/ASTM DIS 52908, Additive manufacturing of metals - Finished part properties - Post-processing, inspection and testing of parts produced by powder bed fusion - 2/7/2022, $82.00

**Air quality (TC 146)**

ISO/DIS 8518, Workplace air - Determination of particulate lead and lead compounds - Flame or electrothermal atomic absorption spectrometric method - 2/7/2022, $98.00

**Aircraft and space vehicles (TC 20)**

ISO/DIS 4358, Test methods for civil multi-copter unmanned aircraft system - 2/7/2022, $88.00

ISO/DIS 14619, Space systems - Space experiments - General requirements - 2/7/2022, $58.00

ISO/DIS 16378, Space systems - Measurements of thermo-optical properties of thermal control materials - 2/7/2022, $107.00

ISO/DIS 17401, Space systems - Spacecraft interface requirements document for launch vehicle services - 2/7/2022, $82.00

ISO/DIS 22010, Space systems - Mass properties control - 2/7/2022, $58.00

ISO/DIS 24411, Space systems - Micro-vibration testing - 2/7/2022, $77.00

ISO/DIS 23629-5, Unmanned aircraft systems - UAS traffic management (UTM) - Part 5: UTM functional structure - 2/7/2022, $67.00

**Applications of statistical methods (TC 69)**

ISO/DIS 5725-3, Accuracy (trueness and precision) of measurement methods and results - Part 3: Intermediate precision and alternative designs for collaborative studies - 2/7/2022, $125.00

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

ISO/DIS 10993-17, Biological evaluation of medical devices - Part 17: Toxicological risk assessment of medical device constituents - 2/7/2022, $125.00

**Biotechnology (TC 276)**

ISO/DIS 20399, Biotechnology - Ancillary materials present during the production of cellular therapeutic products and gene therapy products - 2/7/2022, $98.00

**Building construction machinery and equipment (TC 195)**

ISO/DIS 21467, Drilling and foundation machinery - Horizontal directional drilling (HDD) machines - Commercial specifications - 2/7/2022, $62.00

**Dentistry (TC 106)**

ISO/DIS 7551, Dentistry - Absorbent points - 2/7/2022, $53.00

ISO/FDIS 20126, Dentistry - Manual toothbrushes - General requirements and test methods - 2/7/2022, $58.00

ISO/DIS 21606, Dentistry - Elastomeric auxiliaries for use in orthodontics - 2/7/2022, $46.00

ISO/DIS 3630-2, Dentistry - Endodontic instruments - Part 2: Enlargers - 2/7/2022, $62.00

**Documents and data elements in administration, commerce and industry (TC 154)**

ISO/DIS 14533-1, Processes, data elements and documents in commerce, industry and administration - Long-term signature - Part 1: Profiles for CMS Advanced Electronic Signatures (CAdES) - 2/7/2022, $77.00

**Equipment for fire protection and fire fighting (TC 21)**

ISO/FDIS 6183, Fire protection equipment - Carbon dioxide extinguishing systems for use on premises - Design and installation - 2/7/2022, $134.00
Fasteners (TC 2)
ISO/DIS 14581, Fasteners - Hexalobular socket countersunk flat head screws (common head style) with reduced loadability - 2/7/2022, $53.00

Fire safety (TC 92)
ISO/DIS 24678-9, Fire safety engineering - Requirements governing algebraic equations - Part 9: Ejected flame from an opening - 2/7/2022, $88.00

Gas cylinders (TC 58)
ISO/FDIS 14246, Gas cylinders - Cylinder valves - Manufacturing tests and examinations - 2/7/2022, $46.00

Hydrometric determinations (TC 113)
ISO/DIS 4359, Flow measurement structures - Rectangular, trapezoidal and U-shaped flumes - 2/7/2022, $146.00

Information and documentation (TC 46)
ISO/FDIS 15924, Information and documentation - Codes for the representation of names of scripts - 2/7/2022, $53.00
ISO/FDIS 24229, Information and documentation - Codes for written language conversion systems - 2/7/2022, $67.00

Laboratory glassware and related apparatus (TC 48)
ISO/FDIS 8655-1, Piston-operated volumetric apparatus - Part 1: Terminology, general requirements and user recommendations - 2/7/2022, $58.00
ISO/FDIS 8655-2, Piston-operated volumetric apparatus - Part 2: Pipettes - 2/7/2022, $67.00
ISO/FDIS 8655-3, Piston-operated volumetric apparatus - Part 3: Burettes - 2/7/2022, $40.00
ISO/FDIS 8655-4, Piston-operated volumetric apparatus - Part 4: Dilutors - 2/7/2022, $40.00
ISO/FDIS 8655-5, Piston-operated volumetric apparatus - Part 5: Dispensers - 2/7/2022, $46.00
ISO/FDIS 8655-6, Piston-operated volumetric apparatus - Part 6: Gravimetric reference measurement procedure for the determination of volume - 2/7/2022, $67.00
ISO/FDIS 8655-7, Piston-operated volumetric apparatus - Part 7: Alternative measurement procedures for the determination of volume - 2/7/2022, $119.00
ISO/FDIS 8655-8, Piston-operated volumetric apparatus - Part 8: Photometric reference measurement procedure for the determination of volume - 2/7/2022, $71.00
ISO/FDIS 8655-9, Piston-operated volumetric apparatus - Part 9: Manually operated precision laboratory syringes - 2/7/2022, $46.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)
ISO/DIS 13703-2, Petroleum, petrochemical and natural gas industries - Piping systems on offshore platforms and onshore plants - Part 2: Materials - 2/7/2022, $215.00
ISO/DIS 15589-2, Petroleum, petrochemical and natural gas industries - Cathodic protection of pipeline transportation systems - Part 2: Offshore pipelines - 2/7/2022, $134.00

Mechanical testing of metals (TC 164)
ISO/DIS 3785, Metallic materials - Designation of test specimen axes in relation to product texture - 2/7/2022, $46.00

Metallic and other inorganic coatings (TC 107)
ISO/DIS 24674, Method and requirement of plasma nitriding and follow-up PVD hard coatings on cold-work mould steels - 2/7/2022, $40.00
ISO/DIS 24688, Determination of modulation period of nano-multilayer coatings by low-angle X-ray methods - 2/7/2022, $46.00

Non-destructive testing (TC 135)
ISO/DIS 18251-2, Non-destructive testing - Infrared thermography - Part 2: Test method for integrated performance - 2/7/2022, $58.00

Optics and optical instruments (TC 172)
ISO/FDIS 21395-2, Optics and photonics - Test method for refractive index of optical glasses - Part 2: V-block refractometer method - 2/7/2022, $88.00

Paints and varnishes (TC 35)
ISO/DIS 16053, Paints and varnishes - Coating materials and coating systems for exterior wood - Natural weathering test - 2/7/2022, $93.00
ISO/FDIS 22553-10, Paints and varnishes - Electro-deposition coatings - Part 10: Edge protection - 2/7/2022, $40.00

Paper, board and pulps (TC 6)
ISO/DIS 187, Paper, board and pulps - Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples - 2/7/2022, $46.00
ISO/DIS 3688, Pulps - Preparation of laboratory sheets for the measurement of optical properties - 2/7/2022, $46.00
ISO/DIS 9184-1, Paper, board and pulps - Fibre furnish analysis - Part 1: General method - 2/7/2022, $53.00
ISO/DIS 24118-1, Paper and board - Stylus contact method - Part 1: Determination of surface roughness - 2/7/2022, $46.00
ISO/DIS 12625-15, Tissue paper and tissue products - Part 15: Determination of optical properties - Measurement of brightness and colour with C/2° (indoor daylight) illuminant - 2/7/2022, $53.00

Petroleum products and lubricants (TC 28)
ISO/DIS 7278-2, Petroleum measurement systems - Part 2: Pipe prover design, calibration and operation - 2/7/2022, $165.00

Pigments, dyestuffs and extenders (TC 256)
ISO/DIS 3262-6, Extenders - Specifications and methods of test - Part 6: Precipitated calcium carbonate - 2/7/2022, $40.00
ISO/DIS 18314-3, Analytical colorimetry - Part 3: Special indices - 2/7/2022, $40.00

Plastics (TC 61)
ISO/DIS 306, Plastics - Thermoplastic materials - Determination of Vicat softening temperature (VST) - 2/7/2022, $67.00
ISO/FDIS 3146, Plastics - Determination of melting behaviour (melting temperature or melting range) of semi-crystalline polymers by capillary tube and polarizing-microscope methods - 2/7/2022, $53.00
ISO/FDIS 3915, Plastics - Measurement of resistivity of conductive plastics - 2/7/2022, $40.00
ISO/FDIS 17194, Structural adhesives - Standard database of properties - 2/7/2022, $46.00
ISO/FDIS 19712-3, Plastics - Decorative solid surfacing materials - Part 3: Determination of properties - Solid surface shapes - 2/7/2022, $112.00
ISO/FDIS 6721-12, Plastics - Determination of dynamic mechanical properties - Part 12: Compressive vibration - Non-resonance method - 2/7/2022, $46.00

Road vehicles (TC 22)
ISO/DIS 24089, Road vehicles - Software update engineering - 2/7/2022, $88.00
ISO/DIS 18418-2, Gasoline engines - Medium pressure liquid fuel supply connections - Part 2: Pipe assemblies - 2/7/2022, $58.00
ISO/DIS 27145-6, Road vehicles - Implementation of World-Wide Harmonized On-Board Diagnostics (WWH-OBD) communication requirements - Part 6: External test equipment - 2/7/2022, $98.00

Robots and robotic devices (TC 299)
ISO/FDIS 11593, Robots for industrial environments - Automatic end effector exchange systems - Vocabulary - 2/7/2022, $77.00

Rubber and rubber products (TC 45)
ISO 249:2016/DAmd 1, Rubber, raw natural - Determination of dirt content - Amendment 1 - 2/7/2022, $29.00

ISO/DIS 1138, Rubber compounding ingredients - Carbon black - Determination of sulfur content - 2/7/2022, $33.00

Ships and marine technology (TC 8)
ISO/FDIS 1704, Ships and marine technology - Stud-link anchor chains - 2/7/2022, $102.00
ISO/DIS 24132, Ships and marine technology - Design and testing of marine transfer arms for liquefied hydrogen - 2/7/2022, $134.00
ISO/DIS 23780-1, Ships and marine technology - Procedure for testing the performance of continuous monitoring TRO sensors used in ships - Part 1: DPD sensors - 2/7/2022, $77.00

Soil quality (TC 190)
ISO/DIS 5120, Soil quality - Determination of perchlorate in soil using liquid chromatography-tandem mass spectrometry (LC-MS/MS) - 2/7/2022, $53.00
ISO/DIS 11268-2, Soil quality - Effects of pollutants on earthworms - Part 2: Determination of effects on reproduction of Eisenia fetida/Eisenia andrei - 2/7/2022, $102.00

Sports and recreational equipment (TC 83)
ISO/DIS 7152, Camping tents and caravan awnings - Vocabulary and list of equivalent terms - 2/7/2022, $98.00
ISO/DIS 9523, Touring ski-boots for adults - Interface with touring ski-bindings - Requirements and test methods - 2/7/2022, $82.00
ISO/DIS 11088, Alpine ski/boarding/boot (S-B-B) system - Assembly, adjustment and inspection - 2/7/2022, $62.00
ISO/DIS 10256-1, Protective equipment for use in ice hockey - Part 1: General requirements - 2/7/2022, $40.00
ISO/DIS 10256-2, Protective equipment for use in ice hockey - Part 2: Head protection for skaters - 2/7/2022, $77.00
ISO/DIS 10256-3, Protective equipment for use in ice hockey - Part 3: Face and eye protectors for skaters - 2/7/2022, $88.00
ISO/DIS 10256-4, Protective equipment for use in ice hockey - Part 4: Head and face protection for goalkeepers - 2/7/2022, $62.00

Steel (TC 17)
ISO/FDIS 16573-2, Steel - Measurement method for the evaluation of hydrogen embrittlement resistance of high-strength steels - Part 2: Slow stain rate test - 2/7/2022, $58.00

Surface chemical analysis (TC 201)
ISO/DIS 24417, Surface chemical analysis - Analysis of metallic nanolayers on iron based substrates by glow-discharge optical-emission spectrometry - 2/7/2022, $98.00

Sustainable development in communities (TC 268)
ISO/FDIS 37166, Smart community infrastructures - Urban data integration framework for smart city planning (SCP) - 2/7/2022, $93.00
ISO & IEC Draft International Standards

Sustainable finance (TC 322)
ISO/DIS 32210, Sustainable finance - Principles and guidance - 2/7/2022, $88.00

Technical drawings, product definition and related documentation (TC 10)
ISO/FDIS 10209, Technical product documentation - Vocabulary - Terms relating to technical drawings, product definition and related documentation - 2/7/2022, $125.00

Textiles (TC 38)
ISO/DIS 4465, Textiles - Animal welfare in the supply chain - General requirements for the production, preparation and traceability of Angora rabbit fibre, including ethical claims and supporting information - 2/7/2022, $77.00

Thermal insulation (TC 163)
ISO/DIS 24144, Thermal insulation - Test method for Specific heat capacity of thermal insulation for buildings in the high temperature range - DSC method - 2/7/2022, $82.00

Tractors and machinery for agriculture and forestry (TC 23)
ISO/FDIS 24649, Agricultural irrigation equipment - Manually and hydraulically operated plastics valves - 2/7/2022, $62.00

Traditional Chinese medicine (TC 249)
ISO/DIS 5227, Traditional Chinese Medicine - Safety controls of cupping device - 2/7/2022, $40.00

Transfusion, infusion and injection equipment for medical use (TC 76)
ISO 8362-2:2015/DAmd 1, Injection containers and accessories - Part 2: Closures for injection vials - Amendment 1 - 2/7/2022, $33.00
ISO/DIS 8872, Aluminium caps and aluminium/plastic caps for infusion bottles and injection vials - General requirements and test methods - 2/7/2022, $62.00

Transport information and control systems (TC 204)
ISO/DIS 14906, Electronic fee collection - Application interface definition for dedicated short-range communication - 2/7/2022, $175.00

Valves (TC 153)
ISO/DIS 5640, Industrial valves - Mounting kits for part-turn valve actuator attachment - 2/7/2022, $67.00

Waste collection and transportation management (TC 297)
ISO/DIS 24161, Waste collection and transportation management - Vocabulary - 2/7/2022, $67.00

ISO/IEC JTC 1, Information Technology
ISO/IEC 23009-8/DAmd 1, Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 8: Session-based DASH operations - Amendment 1: URL customization and other extensions - 2/7/2022, $58.00
ISO/IEC 23090-6:2021/DAmd 1, Information technology - Coded representation of immersive media - Part 6: Immersive media metrics - Amendment 1: Immersive media metrics for V3C Data and OMAF - 2/7/2022, $40.00
ISO/IEC DIS 8652, Information technology - Programming languages - Ada - 2/7/2022, $323.00
ISO/IEC DIS 3532-1, Information technology - 3D Printing and scanning - Medical image-based modelling - Part 1: General requirement - 2/7/2022, $58.00
ISO/IEC DIS 15444-9, Information technology - JPEG 2000 image coding system - Part 9: Interactivity tools, APIs and protocols - 2/7/2022, $175.00
ISO/IEC DIS 18047-3, Information technology - Radio frequency identification device conformance test methods - Part 3: Test methods for air interface communications at 13.56 MHz - 2/7/2022, $112.00
ISO/IEC DIS 21122-5, Information technology - JPEG XS low-latency lightweight image coding system - Part 5: Reference software - 2/7/2022, $62.00
ISO/IEC DIS 21559-2, Telecommunications and information exchange between systems - Future network protocols and mechanisms - Part 2: Proxy model based quality of service - 2/7/2022, $112.00
ISO/IEC DIS 23093-1, Information technology - Internet of media things - Part 1: Architecture - 2/7/2022, $82.00
ISO/IEC DIS 23093-2, Information technology - Internet of media things - Part 2: Discovery and communication API - 2/7/2022, $62.00
ISO/IEC DIS 23200-2, Information technology - Radio frequency identification for item management - Part 2: Interference rejection performance test method between an Interrogator as defined in ISO/IEC 18000-63 and a heterogeneous wireless system - 2/7/2022, $62.00
ISO/IEC DIS 30105-4, Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Terms and concepts - 2/7/2022, $88.00
ISO/IEC DIS 30105-8, Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 8: Continual Performance Improvement (CPI) of ITES-BPO - 2/7/2022, $88.00
IEC Standards

23B/1368/NP, PNW 23B-1368 ED1: Plugs and socket-outlets for household and similar purposes - Particular requirements for accessories incorporating electronic components to perform additional functions, 02/11/2022

23B/1369/NP, PNW 23B-1369 ED1: Plugs and socket-outlets for household and similar purposes - Particular requirements for socket-outlets for furniture, 02/11/2022

40/2888/CDV, IEC 60384-1-1 ED1: Fixed capacitors for use in electronic equipment - Part 1-1: Generic blank detail specification, 02/11/2022

46F/590/CD, IEC 61169-72 ED1: Radio-frequency connectors - Part 72: Sectional specification for precision SMP3 series coaxial connectors as test connector, 02/11/2022

48B/2912(FC)/CDV, IEC 61169-72 ED1: Connectors for electrical and electronic equipment - Part 5: Detail specification for 2-way M8 and M12 circular connectors, shielded or unshielded, free and fixed - Mechanical mating information, pin assignment and additional requirements for Type 5, 01/07/2022

48B/2932/CD, IEC 60352-2 ED3: Solderless connections - Part 2: Crimped connections - General requirements, test methods, and practical guidance, 02/11/2022

48D/747/CD, IEC 63171-5 ED1: Mechanical structures for electrical and electronic equipment - Outdoor enclosures - Part 3: Environmental requirements, tests, and safety aspects, 02/11/2022

65E/806/CDV, IEC 62453-71 ED1: Field device tool (FDT) interface specification - Part 71: OPC UA Information Model for FDT, 02/11/2022

86B/4555/FDIS, IEC 61753-091-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 091-02: Non-connectorized 3-port incompletely circulated single-mode fibre optic circulators for category C - Controlled environments, 12/31/2021

94/587/CD, IEC 61810-7-36 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-36: Fire hazard, 01/14/2022

94/592/NP, PNW 94-592 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-9: Climatic tests, 01/14/2022

94/593/NP, PNW 94-593 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-29: Capacitance, 01/14/2022

94/594/NP, PNW 94-594 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-31: Magnetic Remanence, 01/14/2022

94/595/NP, PNW 94-595 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-32: Acoustic Noise, 01/14/2022

103/228/CD, IEC 62803-3 ED1: Transmitting and receiving equipment for radiocommunication - Frequency response of optical-to-electric conversion device in high-frequency radio over fibre systems - Part 3: Measurement method of nonlinear response of optical-to-electric converter, 02/11/2022

111/646/CD, IEC 63366 ED1: Product category rules for life cycle assessment of electrical and electronic products and systems, 02/11/2022

120/251/DTR, IEC TR 62933-4-200 ED1: Electrical energy storage (EES) systems - Part 4-200: Guidance on environmental issues - Greenhouse gas (GHG) emission assessment by electrical energy storage (EES) systems, 01/14/2022

124/166/CD, IEC 63203-402-2 ED1: Wearable electronic devices and technologies - Part 402-2: Performance measurement of fitness wearables - Step counting, 01/14/2022


Alarm systems (TC 79)

79/651/CD, IEC 62820-1-1 ED2: Building intercom systems - Part 1-1: System requirements - General, 02/11/2022

Audio, video and multimedia systems and equipment (TC 100)

100/3670/CDV, IEC 62702-1-1 ED2: Audio archive system - Part 1-1: DVD disk and data migration for long term audio data storage, 02/11/2022

100/3671/CDV, IEC 62702-1-2 ED2: Audio archive system - Part 1-2: BD disk and data migration for long-term audio data storage, 02/11/2022

Capacitors and resistors for electronic equipment (TC 40)

40/2886/CDV, IEC 60286-2 ED5: Packaging of components for automatic handling - Part 2: Tape packaging of components with unidirectional leads on continuous tapes, 02/11/2022

40/2887/CDV, IEC 62391-1 ED3: Fixed electric double-layer capacitors for use in electric and electronic equipment - Part 1: Generic specification, 02/11/2022

Electrical apparatus for explosive atmospheres (TC 31)

31/1595(F)/FDIS, IEC 60079-31 ED3: Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t", 12/03/2021

Electromechanical components and mechanical structures for electronic equipments (TC 48)

48D/746/CD, IEC 61969-1 ED4: Mechanical structures for electrical and electronic equipment - Outdoor enclosures - Part 1: Design guidelines, 02/11/2022
Fibre optics (TC 86)
86B/4531/CDV, IEC 61753-051-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 051-02: Plug-receptacle style single-mode fibre fixed optical attenuators for category C - Controlled environments, 02/11/2022
86B/4532/CDV, IEC 61753-053-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 053-02: Non-connectorized single-mode fibre, electrically controlled, variable optical attenuator for category C - Controlled environments, 02/11/2022

Flat Panel Display Devices (TC 110)
110/1366(F)/FDIS, IEC 62906-5-7 ED1: Laser displays - Part 5-7: Measuring methods of image quality affected by speckle for scanning laser displays, 12/10/2021
110/1378/CD, IEC 62908-12-10 ED2: Touch and interactive displays - Part 12-10: Measurement methods of touch displays - Touch and electrical performance, 01/14/2022

Industrial-process measurement and control (TC 65)
65B/1210(F)/FDIS, IEC 60751 ED3: Industrial platinum resistance thermometers and platinum temperature sensors, 12/10/2021

Insulating materials (TC 15)
15/958/CD, IEC 60684-2 ED4: Flexible insulating sleeving - Part 2: Methods of test, 01/14/2022

Lamps and related equipment (TC 34)
34/879/CDV, IEC 62386-202 ED2: Digital addressable lighting interface - Part 202: Particular requirements for control gear - Self-contained emergency lighting (device type 1), 02/11/2022

Measuring equipment for electromagnetic quantities (TC 85)
85/815/CD, IEC TS 63383 ED1: Cybersecurity aspects of devices used for power metering and monitoring, power quality monitoring, data collection and analysis, 02/11/2022

Methods for the Assessment of Electric, Magnetic and Electromagnetic Fields Associated with Human Exposure (TC 106)
106/561/CD, IEC TR 63424-1 ED1: Validation of dynamic power control and exposure time-averaging algorithms, Part 1: Cellular network implementations for SAR at frequencies below 6 GHz, 01/14/2022

Nuclear instrumentation (TC 45)
45B/990/NP, PNW 45B-990 ED1: Radiation protection instrumentation - Radon and radon decay product measuring instruments - Part 6 Passive integrating radon measurement systems using solid-state nuclear track detectors, 02/11/2022

Performance of household electrical appliances (TC 59)
59A/249/CD, IEC TS 63331 ED1: Electric dishwashers for household use - Methods for measuring the microbiological efficacy of the dishwashing process, 02/11/2022

Power system control and associated communications (TC 57)
57/2429/CDV, IEC 61970-302 ED2: Energy management system application program interface (EMS-API) - Part 302: Common information model (CIM) dynamics, 02/11/2022
57/2465/CDV, IEC 61970-457 ED2: Energy management system application program interface (EMS-API) - Part 457: Dynamics profile, 02/11/2022
57/2439/FDIS, IEC 61970-301/AMD1 ED7: Amendment 1 - Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base, 12/03/2021
57/2446/FDIS, IEC 61968-100 ED2: Application integration at electric utilities - System interfaces for distribution management - Part 100: Implementation profiles, 12/31/2021

Solar photovoltaic energy systems (TC 82)
82/1973(F)/FDIS, IEC 62788-5-1/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 5-1: Edge seals - Suggested test methods for use with edge seal materials, 12/17/2021

Standard voltages, current ratings and frequencies (TC 8)
8A/94/CD, IEC TR 63401-2 ED1: Sub- and Super-synchronous Control Interactions, 01/14/2022
8A/95/CD, IEC TR 63401-4 ED1: Behaviour of Inverter-Based Resources in Response to Bulk Grid Faults, 01/14/2022

CISPR
Newly Published ISO & IEC Standards

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

ISO Standards

Additive manufacturing (TC 261)
ISO/ASTM 52900:2021, Additive manufacturing - General principles - Fundamentals and vocabulary, $48.00

Ageing societies (TC 314)
ISO 25551:2021, Ageing societies - General requirements and guidelines for carer-inclusive organizations, $149.00

Agricultural food products (TC 34)
ISO 6079:2021, Instant tea in solid form - Specification, $48.00
ISO 20836:2021, Microbiology of the food chain - Polymerase chain reaction (PCR) for the detection of microorganisms - Thermal performance testing of thermal cyclers, $175.00

Aircraft and space vehicles (TC 20)
ISO 5224:2021, Rotorcrafts - Flight dynamics - Vocabulary, $48.00

Banking and related financial services (TC 68)
ISO 4914:2021, Financial services - Unique product identifier (UPI), $73.00

Biological evaluation of medical and dental materials and devices (TC 194)
ISO 10993-10:2021, Biological evaluation of medical devices - Part 10: Tests for skin sensitization, $200.00

Fluid power systems (TC 131)
ISO 23840:2021, Water hydraulics - Water-hydraulic pumps - Methods of testing and representing basic steady-state performance, $111.00

Footwear (TC 216)
ISO 21061:2021, Footwear - Chemical tests - General principles on the preparation of samples, $111.00

Glass in building (TC 160)
ISO 21690:2021, Glass in building - Glass blocks - Specification and test methods, $73.00

Implants for surgery (TC 150)
ISO 5832-3:2021, Implants for surgery - Metallic materials - Part 3: Wrought titanium 6-aluminium 4-vanadium alloy, $73.00

Innovation management (TC 279)
ISO 56006:2021, Innovation management - Tools and methods for strategic intelligence management - Guidance, $73.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)
ISO 6368:2021, Petroleum, petrochemical and natural gas industries - Dry gas sealing systems for axial, centrifugal, and rotary screw compressors and expanders, $48.00
ISO 19901-5:2021, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 5: Weight management, $225.00

Plain bearings (TC 123)
ISO 6691:2021, Thermoplastic polymers for plain bearings - Classification and designation, $175.00

Road vehicles (TC 22)
ISO 20080-2019/Amd 1:2021, Road vehicles - Information for remote diagnostic support - General requirements, definitions and use cases - Amendment 1, $200.00

Rubber and rubber products (TC 45)
ISO 23508:2021, Solution-polymerized SBR - Evaluation methods of viscoelastic properties, $111.00

Ships and marine technology (TC 8)
ISO 23314-2:2021, Ships and marine technology - Ballast water management systems (BWMS) - Part 2: Risk assessment and risk reduction of BWMS using electrolytic methods, $175.00

Traditional Chinese medicine (TC 249)
ISO 18666:2021, Traditional Chinese medicine - General requirements of moxibustion devices, $73.00
Newly Published ISO & IEC Standards

Transport information and control systems (TC 204)
ISO 20529-2:2021, Intelligent transport systems - Framework for Green ITS (G-ITS) standards - Part 2: integrated mobile service applications, $225.00

Tyres, rims and valves (TC 31)
ISO 15222:2021, Truck and bus tyres - Method for measuring relative wet grip performance - Loaded new tyres, $149.00

Water quality (TC 147)
ISO 8466-1:2021, Water quality - Calibration and evaluation of analytical methods - Part 1: Linear calibration function, $200.00

Welding and allied processes (TC 44)

ISO Technical Reports
Nanotechnologies (TC 229)
ISO/TR 22455:2021, Nanotechnologies - High throughput screening method for nanoparticles toxicity using 3D model cells, $149.00

ISO Technical Specifications
Health Informatics (TC 215)
ISO/TS 24289:2021, Health informatics - Hierarchical file structure specification for secondary storage of health-related information, $111.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)
ISO/TS 18683:2021, Guidelines for safety and risk assessment of LNG fuel bunkering operations, $200.00

Security (TC 292)

Small tools (TC 29)
ISO/TS 13399-2:2021, Cutting tool data representation and exchange - Part 2: Reference dictionary for the cutting items, $250.00
ISO/TS 13399-4:2021, Cutting tool data representation and exchange - Part 4: Reference dictionary for adaptive items, $250.00

ISO/IEC JTC 1, Information Technology
ISO/IEC 18000-63:2021, Information technology - Radio frequency identification for item management - Part 63: Parameters for air interface communications at 860 MHz to 960 MHz Type C, $250.00
ISO/IEC 23001-16:2021, Information technology - MPEG systems technologies - Part 16: Derived visual tracks in the ISO base media file format, $111.00

IEC Standards
Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)
IEC 62037-1 Ed. 2.0 b:2021, Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods, $89.00
IEC 62037-2 Ed. 2.0 b:2021, Passive RF and microwave devices, intermodulation level measurement - Part 2: Measurement of passive intermodulation in coaxial cable assemblies, $25.00
IEC 62037-3 Ed. 2.0 b:2021, Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors, $51.00
IEC 62037-5 Ed. 2.0 b:2021, Passive RF and microwave devices, intermodulation level measurement - Part 5: Measurement of passive intermodulation in filters, $89.00
S+ IEC 62037-1 Ed. 2.0 en:2021 (Redline version), Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods, $115.00
S+ IEC 62037-3 Ed. 2.0 en:2021 (Redline version), Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors, $66.00
S+ IEC 62037-5 Ed. 2.0 en:2021 (Redline version), Passive RF and microwave devices, intermodulation level measurement - Part 5: Measurement of passive intermodulation in filters, $115.00

Electric cables (TC 20)
IEC 60800 Ed. 4.0 b:2021, Heating cables with a rated voltage up to and including 300/500 V for comfort heating and prevention of ice formation, $259.00
Newly Published ISO & IEC Standards

S+ IEC 60800 Ed. 4.0 en:2021 (Redline version), Heating cables with a rated voltage up to and including 300/500 V for comfort heating and prevention of ice formation, $338.00

Electromagnetic compatibility (TC 77)

IEC 61000-2-10 Ed. 2.0 en:2021, Electromagnetic compatibility (EMC) - Part 2-10: Environment - Description of HEMP environment - Conducted disturbance, $310.00

Fibre optics (TC 86)

IEC 61280-1-3 Ed. 3.0 b:2021, Fibre optic communication subsystem test procedures - Part 1-3: General communication subsystems - Measurement of central wavelength, spectral width and additional spectral characteristics, $183.00

IEC 61300-3-7 Ed. 3.0 b:2021, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-7: Examinations and measurements - Wavelength dependence of attenuation and return loss of single mode components, $259.00

IEC 60794-1-219 Ed. 1.0 b:2021, Optical fibre cables - Part 1-219: Generic specification - Basic optical cable test procedures - Material compatibility test, method F19, $89.00

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

IEC 60335-2-107 Amd.2 Ed. 2.0 en:2021, Amendment 2 - Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers, $25.00

IEC 60335-2-107 Ed. 2.2 en:2021, Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical lawnmowers, $696.00

IEC Technical Specifications

Fibre optics (TC 86)

IEC/TS 63334 Ed. 1.0 en:2021, Fibre optic interconnecting devices and passive components - Conditions for testing the protection against dust and water ingress of passive optical protective housings and hardened fibre optic connectors (IP5X, IPX4, IPX5, IPX6), $183.00

Solar photovoltaic energy systems (TC 82)

IEC/TS 63217 Ed. 1.0 en:2021, Utility-interconnected photovoltaic inverters - Test procedure for over voltage ride-through measurements, $183.00

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

IEC/TS 60947-7-5 Ed. 1.0 b:2021, Low-voltage switchgear and controlgear - Part 7-5: Ancillary equipment - Terminal blocks for aluminium conductors, $259.00

IEC Technical Reports

Fibre optics (TC 86)

IEC/TR 63367 Ed. 1.0 en:2021, Fibre optic interconnecting devices and passive components - Summarising results of round robin on connector end face scratch recognition and verification by automated microscopes, $259.00

Nuclear instrumentation (TC 45)

IEC/TR 63400 Ed. 1.0 en:2021, Nuclear facilities - Instrumentation, control and electrical power systems important to safety - Structure of the IEC SC 45A standards series, $392.00
Public Review of Revised Operating Procedures for a U.S. TAG to ISO

TC 150, Implants for surgery

Public Comments Deadline Due by December 28, 2021

ASTM, in its role as the TAG Administrator for the US TAG to ISO TC 150, Implants for surgery, has submitted revisions to its currently accredited operating procedures. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised TAG procedures or to offer comments, please contact: Kate Chalfin, Director, Technical Committee Operations, ASTM, 100 Barr Harbor Drive, W. Conshohocken, PA 19428-2959; phone: 610.832.9717; email: kchalfin@astm.org

Click here to view/download a copy of the revisions during the public review period.

Please submit any public comments on the revised procedures to ASTM by December 28, 2021, with a copy to the ExSC Recording Secretary in ANSI’s New York Office (jthomps@ANSI.org).
ISO New Work Item Proposal

Driver Training - Intelligent Training System for Vehicle Driving

Comment Deadline: December 31, 2021

SAC, the ISO member body for China, has submitted to ISO a new work item proposal for the development of an ISO standard on Driver training — Intelligent training system for vehicle driving, with the following scope statement:

*The document specifies the terms and definitions, requirements (including the function requirements and performance requirements), test methods, packaging, transportation and storage of the intelligent training system for vehicle driving, not including the equipments of this system. This document is applicable to the design, development and delivery of the intelligent training system for vehicle driving.*

Anyone wishing to review the proposal can request a copy by contacting ANSI’s ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, December 31, 2021.
Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

When organization names are submitted to ANSI for registration, they will be listed here alphabetically. 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.
Call for Comment

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

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BSR/ASHRAE/ASHE Addendum e to ANSI/ASHRAE/ASHE Standard 170-2021

Public Review Draft

Proposed Addendum e to Standard 170-2021, Ventilation of Health Care Facilities

First Public Review (November 2021)
(Draft shows Proposed Changes to Current Standard)

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

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

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ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092
In the right climate, location and application, natural ventilation can provide and enhance the healing environment. Natural ventilation has been successfully implemented in healthcare facilities throughout the world. This proposed addendum allows Natural Ventilation for certain limited healthcare spaces and under certain conditions. ASHRAE Standard 62.1’s natural ventilation procedure which was completely revamped in 2019 was used as a starting point for this proposed addendum.

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

Addendum e to 170-2021

Add a new Section 6.10 as shown below.

6.10 Fan-Assisted Natural Ventilation

6.10.1 General Requirements. Any zone designed for natural ventilation shall include a mechanical ventilation system designed in accordance with this Standard except as noted below. Using outside air through natural ventilation intakes as a means of supply air is acceptable for spaces listed in Table 6-3, provided that the air is mechanically removed from the space, and meets pressure relationships, minimum total ach, and design temperature and humidity ranges listed in the Reference Table column.

<table>
<thead>
<tr>
<th>Reference Table</th>
<th>Function of Space</th>
</tr>
</thead>
<tbody>
<tr>
<td>7-1</td>
<td>General Patient Room; General exam room; physical therapy; Patient bedroom, resident room</td>
</tr>
<tr>
<td>8-1</td>
<td>Examination/Observation</td>
</tr>
<tr>
<td>8-2</td>
<td>Urgent care exam; Urgent care observation; General examination room; Psychiatric examination room; Psychiatric consultation room; Psychiatric group room; Psychiatric seclusion room; Physical therapy individual room; Physical therapy exercise area; Hydrotherapy; Physical therapeutic pool; Speech therapy room; Occupational therapy room; Prosthetics and orthotics room; Dental treatment; Other dental treatment areas; Toilet room</td>
</tr>
</tbody>
</table>
**6.10.2 Intakes.** In this section, an intake is defined as a device that is located in the outside of the building through which air is taken from the outdoors and introduced into the building. Fan-assisted natural ventilation intakes shall meet the following requirements:

a. Intakes shall be at least 10 times the crack/leakage area of the room, and have a maximum face velocity of 100 fpm at the minimum total air change rate required by this Standard. *(Informative Note: The 100 fpm is a sizing criterion, not an operational limit.)*

b. The device that is mechanically removing the air shall remain operational when the intake is open.

c. Intakes shall be limited to those dimensions allowable by the local authority having jurisdiction.

d. The natural ventilation design shall maintain the required pressure relationships with adjacent spaces.

e. Intakes shall protect from intrusion by insects and vermin.

f. Intakes shall be located such that the minimum separation distance between the intake to any specific potential outdoor contaminant source shall be equal to or greater than the separation distance listed in Table 6-1.

**Exceptions to 6.10.2f:**

1. As allowed by 6.3.1.1 Exception 3

2. The minimum separation distance between landscaped grade and a natural ventilation air intake shall be 3 ft (1 m).

**6.10.3 Filtration.** Fan-assisted natural ventilation air introduced in accordance with Section 6.10.1 is exempt from meeting the requirements of Section 6.4 provided it is part of a system meeting the requirements in this section.

**6.10.4 Condensation Mitigation.** Effective interior air barriers, insulation, or other means that separate fan-assisted naturally ventilated spaces from mechanically-cooled spaces shall be provided, such that condensation does not occur on indoor surfaces.

**6.10.5 Outdoor Air Quality.** Fan-assisted natural ventilation air introduced in accordance with Section 6.10.1 shall meet the following requirements:


b. Compliance with ASHRAE Standard 62.1, Section 4.3.b.8 shall include identification of potential biological contaminant sources.

*Informative Note:* For more information, see US EPA (2006). Facilities implementing natural ventilation are encouraged to monitor PM10 and/or PM2.5 via local sensors.
NSF/ANSI Standard for Drinking Water Treatment Units —

Drinking Water Treatment Units — Health Effects

7 Elective performance claims – Test methods

7.4 Metals reduction testing

7.4.2 General metals reduction

7.4.2.1 General metals reduction testing

Claims for chemical reduction may be made for the specific metal contaminants shown in Table 7.8 when tested in accordance with Section 7.4.2.1. To qualify for a metal reduction claim, the system shall reduce the influent concentration(s) so that all effluent concentrations are less than or equal to the maximum effluent concentrations shown in Table 7.11.
### Table 7.11
General metals reduction requirements

<table>
<thead>
<tr>
<th>Substance</th>
<th>Individual influent sample point limits¹ (mg/L)</th>
<th>Average influent challenge² (mg/L)</th>
<th>Maximum effluent concentration (mg/L)</th>
<th>US EPA Method(s)</th>
<th>Compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>barium</td>
<td>10.0 ± 25%</td>
<td>10.0 ± 10%</td>
<td>2</td>
<td>200.8</td>
<td>BaCl₂</td>
</tr>
<tr>
<td>cadmium</td>
<td>0.03 ± 25%</td>
<td>0.03 ± 10%</td>
<td>0.005</td>
<td>200.8</td>
<td>CdCl₂</td>
</tr>
<tr>
<td>chromium (hexavalent)</td>
<td>0.3 ± 25%</td>
<td>0.3 ± 10%</td>
<td>0.1</td>
<td>SM3500-CrD</td>
<td>Na₂Cr₂O₇·2H₂O</td>
</tr>
<tr>
<td>chromium (trivalent)</td>
<td>0.3 ± 30%</td>
<td>0.3 ± 10%</td>
<td>0.1</td>
<td>200.8³</td>
<td>CrCl₃·6H₂O</td>
</tr>
<tr>
<td>chromium (hexavalent and trivalent)</td>
<td>0.3 ± 25%</td>
<td>0.3 ± 10% (added as hexavalent)</td>
<td>0.05 (for each species)</td>
<td>SM3500-CrD and 200.8³</td>
<td>—</td>
</tr>
<tr>
<td>copper</td>
<td>3.0 ± 25%</td>
<td>3.0 ± 10%</td>
<td>1.3</td>
<td>200.8</td>
<td>CuSO₄·5H₂O</td>
</tr>
<tr>
<td>mercury</td>
<td>0.006 ± 25%</td>
<td>0.006 ± 10% (added as inorganic mercury)</td>
<td>0.002</td>
<td>200.8</td>
<td>Hg(NO₃)₂·H₂O</td>
</tr>
<tr>
<td>selenium</td>
<td>0.10 ± 25%</td>
<td>0.10 ± 10% (added as 0.05 selenite and 0.05 selenate)</td>
<td>0.05</td>
<td>200.8</td>
<td>50/50 mix Na₂SeO₃ / Na₂SeO₄</td>
</tr>
</tbody>
</table>

¹ Equals average influent challenge concentration variability plus one of the following, in order of availability:
   1. Acceptable continuing calibration verification (CCV) limits stated in the appropriate US EPA Method.
   2. Acceptable spike recoveries as stated in the appropriate US EPA Method.

² Reason for influent challenge levels: challenge concentrations should be selected to simulate what a system will be challenged with in the field and to provide an accurate and reproducible indicator of performance. The following sequence of criteria is used to select challenge concentrations:
   a) The upper percentile concentration of available occurrence data (the concentration for which there is high probability [P < 0.05] that 95% of the population will be exposed to waters of lower concentration). Occurrence data shall come from national monitoring programs administered by the US EPA or the USGS. Other occurrence data shall be accepted by the Joint Committee on Drinking Water Treatment Units.
   b) The concentration obtained by multiplying the US EPA’s published maximum contaminant level by three. This concentration will not be adequate when US EPA MCL is very low.

³ Measured as total chromium by US EPA Method 200.8 minus hexavalent chromium as measured by Standard Methods 3500-CrD.

NOTE 1 — Contaminants not listed in this Table should be added in their molecular form.

NOTE 2 — Metal salts using alternate counter ions may be used if interferences and synergistic effects are avoided.
7.4.3 Lead reduction testing

7.4.3.5 Metals reduction waters for lead

7.4.3.5.2 Test water for lead pH 8.5 testing

7.4.3.5.2.3 Lead pH 8.5 reduction test water

The lead pH 8.5 reduction test water shall be prepared as follows:

a) A water supply shall be treated by reverse osmosis and then shall be treated with deionization (RO/DI water) and shall have a conductivity of less than 2 µS/cm. A test equipment tank shall be filled with the RO/DI water.

b) Use reagent grade chemicals for all additions to adjust the RO/DI water to meet the following specific characteristics:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Target value</th>
<th>Overall average tolerance</th>
<th>Single point tolerance</th>
</tr>
</thead>
<tbody>
<tr>
<td>hardness (as CaCO₃)</td>
<td>100 mg/L</td>
<td>± 10%</td>
<td>± 20%</td>
</tr>
<tr>
<td>alkalinity (as CaCO₃)</td>
<td>100 mg/L</td>
<td>± 10%</td>
<td>± 20%</td>
</tr>
<tr>
<td>total chlorine</td>
<td>0.50 mg/L</td>
<td>± 0.25 mg/L</td>
<td>± 0.25 mg/L</td>
</tr>
<tr>
<td>pH</td>
<td>8.5</td>
<td>8.30 to 8.60</td>
<td>8.25 to 8.75</td>
</tr>
<tr>
<td>temperature</td>
<td>20.0 °C</td>
<td>± 2.5 °C</td>
<td>± 2.5 °C</td>
</tr>
</tbody>
</table>

7.4.3.5.2.3.1 Solution preparation

The solutions for generating the lead pH 8.5 test water shall be prepared as follows:

— **Calcium chloride solution**: add calcium chloride (CaCl₂·2H₂O) to RO/DI H₂O to obtain a solution concentration of 38 g/L.

— **Magnesium sulfate solution**: add magnesium sulfate (MgSO₄·7H₂O) to RO/DI H₂O to obtain a solution concentration of 32 g/L.

— **Sodium bicarbonate solution**: add sodium bicarbonate (NaHCO₃) to RO/DI H₂O to obtain a solution concentration of 63 g/L.

— **Sodium hypochlorite solution**: commercial grade bleach solution may be used with a concentration between 5 to 7% NaClO.

— **Soluble lead stock solution**: 4 mL 1:1 diluted concentrated nitric acid to 1 L RO/DI H₂O; then add 3.6 g Pb(NO₃)₂. Store the solution in a plastic container for no more than 90 d.

— **Insoluble lead stock solution**: add 1.6 g Pb(NO₃)₂ to 1 L RO/DI H₂O (RO/DI pH should be already below 6.5; if it is not, let the water sit with exposure to the atmosphere until its pH is below 6.5). Store the solution in a plastic container for no more than 30 d.

Rationale:
The subscript 2 was missing from Pb(NO₃)₂ as a typographical error.
7.4.4 Mercury reduction testing

7.4.4.1 Mercury reduction claim

Claims for mercury reduction may be made when tested in accordance with Section 7.4.4.1. To qualify for a mercury reduction claim, the system shall reduce the influent concentration(s) so that all effluent concentrations are less than or equal to the maximum effluent concentrations shown in Table 7.13.

<table>
<thead>
<tr>
<th>Substance</th>
<th>Individual influent sample point limit(^1) (mg/L)</th>
<th>Influent Average influent challenge(^2) (mg/L)</th>
<th>Maximum effluent concentration (mg/L)</th>
<th>US EPA Method(s)</th>
<th>Compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>mercury</td>
<td>0.006 ± 25%</td>
<td>0.006 ± 10% (added as inorganic mercury)</td>
<td>0.002</td>
<td>200.8</td>
<td>Hg(NO(_3))(_2) \cdot H(_2)O</td>
</tr>
</tbody>
</table>

\(^1\) Equals average influent challenge concentration variability plus one of the following, in order of availability:

5. Acceptable spike recoveries as stated in the appropriate US EPA Method.

\(^2\) Reason for influent challenge levels: challenge concentrations should be selected to simulate what a system will be challenged with in the field and to provide an accurate and reproducible indicator of performance. The following sequence of criteria is used to select challenge concentrations:

a) The upper percentile concentration of available occurrence data (the concentration for which there is high probability \([P < 0.05]\) that 95% of the population will be exposed to waters of lower concentration). Occurrence data shall come from national monitoring programs administered by the US EPA or the USGS. Other occurrence data shall be accepted by the Joint Committee on Drinking Water Treatment Units.

b) The concentration obtained by multiplying the US EPA’s published maximum contaminant level by three. This concentration will not be adequate when US EPA MCL is very low.

Rationale:

The “Individual influent sample point limit” column and footnote were added from Table 7.11 for consistency. “Average” was added to the third column for consistency with Table 7.11.
3 Definitions

3.8 automated controller: A system of at least one chemical probe, a controller, and auxiliary or integrated component, that senses the level of one or more swimming pool or spa / hot tub water parameters and provides a signal to other equipment to maintain the parameter(s) within a user-established range.

3.9 automated valve: A valve that switches flow paths without manual human interaction and contains at least one input that senses the level of one or more swimming pool or spa / hot tub parameters and provides a signal to other equipment to maintain the parameter(s) within a user-established range.

3.10 backwash: Flow of water through filter element(s) or media in a reverse direction to dislodge accumulated dirt or filter aid and remove them from the filter tank.

Subsequent definitions will be renumbered accordingly.

3.154 valve: A device used to direct flow to, through, and from a body of recreational water.

Subsequent definitions will be renumbered accordingly.
9 Valves

9.1 Scope

This section contains requirements for valves, automated valves, and manufactured manifolds used on filters in public and residential swimming pools and spas / hot tubs. The requirements apply to the housing, valve, handle, or valve mechanism and other components that are integral parts of the valve or multiport valve.

An automated valve with integrated automated controller functions shall also comply to Section 19.

9.2 General

9.2.1 Valves and component parts that may require inspection and service shall be accessible.

9.2.2 Valves shall be marked or keyed for proper assembly and operation.

9.2.3 Valves shall be designed so that parts may be replaced without drilling or otherwise altering the multiport valve or replacement part.

9.23 Positive indexing

9.23.1 Valves shall be marked or have a suitable display so that the position of the operating handle or valve mechanism clearly indicates each operation.

9.23.2 Valves shall be designed so that the position of the operating handle or valve mechanism can only be changed intentionally.

9.23.3 Valves shall be designed so that the operating handle or valve mechanism, if removed, may only be properly realigned.

9.34 Design pressure

9.4.1 The working pressure of a pressure service valve or manufactured manifold or operational system associated with single or multiple tank filter system shall be 50 psi (344 kPa) or greater. The design burst pressure of a pressure service valve or operational system associated with single or multiple tank filter system shall be designed to have a burst pressure of at least four times the working pressure (i.e., minimum safety factor = 4:1).

9.45 Pressure service

The valve or manufactured manifold and its integral components shall not rupture, leak, burst, or sustain permanent deformation when subject to the following conditions in accordance with the following: (Annex N-4):

- a hydrostatic pressure equal to 1.5 times the working pressure for 300 s;
- 20,000 consecutive pressure cycles per Section N-2.1.4.d; and
- a hydrostatic pressure equal to two times the working pressure per Section N-2.1.4.e.

9.56 Valve leakage
Filter system valves and manufactured manifolds, when operating at the test pressure and maximum design flow rate, shall not leak in excess of 3 mL from the waste port and 30mL from the return-to-pool port in the 5 min test.

9.67 Head loss curve

9.67.1 The manufacturer shall make available a head loss curve for both the filter and backwash positions.

9.67.2 The actual head loss across a multiport valve shall not exceed the head loss indicated by the manufacturer’s head loss curve by more than 5% (see Section N-4.4).

9.67.3 The head loss curve for manufactured manifolds may be calculated using a standard friction loss table and actual valve head loss data.

9.78 Waste port seal

The filter system valve or manufactured manifold shall not leak more than 3 mL in a 5 min test through the waste port when the valve is set in the position and a static pressure of 0 to 10 psi (70 kPa) is applied to the return port (Section N-4.5).

9.89 Vacuum service

9.89.1 The design collapse pressure of a vacuum service valve shall be at least 1.5 times the pressure developed by the weight of the water in the tank (i.e., minimum safety factor = 1.5).

9.89.2 Vacuum service valves shall not rupture, leak, collapse, or sustain permanent deformation when subjected to a vacuum of 25 in Hg (85 kPa) for 300 s in accordance with Section N-2.2.

9.89.3 Vacuum service valves are exempt from port leakage testing.

9.910 Installation and operating instructions

The manufacturer shall provide a manual with each valve or manufactured manifold. The manual shall include operating instructions, installation instructions, design head loss curve and parts lists, and any drawings or charts necessary to permit proper installation, operation, and maintenance.

9.4011 Identification

The multiport valve shall be clearly and permanently marked or labeled with the following:

— manufacturer name and contact information (address, phone number, website, or prime supplier);
— model number;
— working pressure;
— vacuum pressure, if applicable;
— operating setting; and
— special requirements for switching between settings (e.g., the pump shall be shut off prior to switching the valve position).
19 Automated controllers

19.1 Scope

Automated controllers are used to monitor water conditions such as pH, ORP, free chlorine or other parameters specified by the manufacturer and to control equipment such as chemical feeders and pumps. Equipment covered by this section includes the controller and the chemical probes, and flow cells. Water contact components and materials of automated controllers shall be evaluated to the health effects criteria of Section 4. Mechanical chemical feeders are covered in Section 11, and flow-through chemical feeders are covered in Section 12.

An automated controller that has been incorporated into a valve shall also comply with the requirements of Section 9.
BSR/UL 67, Standard for Safety for Panelboards

1. Addition of Requirements for Panelboards Provided with Active Cooling

5.29A ACTIVE COOLING – A method to increase the heat transfer capabilities of a panel board through the use of an additional active system. The active system could be represented by fans or other cooling means that requires additional energy to operate.

5.47A PASSIVE COOLING – A method to increase the heat transfer capabilities of a panel through the use of passive elements requiring little to no energy consumption.

6.8 Active Cooling

6.8.1 A panelboard that has an active cooling solution shall meet the following criteria:

a) Requirements for panelboards provided with active cooling described in 7.4

b) Requirements for panelboards with active cooling described in 34.19

c) In the event of an active cooling system failure, the equipment shall provide the means to automatically reduce the load to its passive cooled rating or less.

Source: Clause 4.16.3, CSA C22.2 No. 31-18, Switchgear assemblies © 2018 Canadian Standards Association. Please visit store.csagroup.org.

NOTE: Please refer to Forced Ventilation test, 21.8.

7.4 Panelboards provided with active cooling

7.4.1 If equipment is supplied with active cooling means, it shall be equipped with monitoring equipment to determine that the cooling operation remain functional.

7.4.2 The temperature test as defined in Section 21 shall be performed at both the active cooling and passive cooling load points as defined by the product ratings.

Source: Clause 4.16.1, CSA C22.2 No. 31-18, Switchgear assemblies © 2018 Canadian Standards Association. Please visit store.csagroup.org.

21.8 Forced ventilation test

21.8.1 A device having forced ventilation shall be operated with the fan disconnected. For a device having more than one fan, the test shall be conducted with each fan disconnected, one at a time, or with two or more fans disconnected if they are controlled or powered by the same connection.
21.8.2 A device having filters over ventilation openings shall be operated with the openings blocked to represent clogged filters. The test shall be conducted initially with the ventilation openings blocked 50 percent, shall then be repeated under fully blocked condition.

31.8 Active cooled and passive cooled current ratings for panelboards provided with active cooling shall appear as described in 34.19.

34.19 Panelboards with active cooling

34.19.1 The equipment shall be marked with two current ratings:

a) Active cooled rating and

b) Passive cooled rating

Source: Clause 4.16.2, CSA C22.2 No. 31-18, Switchgear assemblies © 2018 Canadian Standards Association. Please visit store.csagroup.org.
BSR/UL 98, Standard for Safety for Enclosed and Dead-Front Switches

1. Barriers to Address Inadvertent Contact on Line Side of Service Disconnect

6.4 Accessibility of live parts

6.4.1 Openings in enclosures that provide access to live parts shall be evaluated in accordance with Annex A, Ref. No. 4.

6.4.2 Enclosed switches marked for service equipment use shall be constructed such that, with the switch in the off position, no ungrounded uninsulated live part is exposed to inadvertent contact by persons while servicing any field connected load terminal or fuseholder, including a neutral load terminal, an equipment grounding terminal, or the neutral disconnect link. Exposure to inadvertent contact is determined by use of the probe illustrated in Figure 6. If restriction to the line-side of the service disconnect is dependent on the installation of field installed service conductors, conductors sized in accordance with Table 8 shall be installed in the terminals when determining exposure to inadvertent contact. All live parts of the line side service terminal, including the connector body and pressure screw shall be evaluated. For enclosed switches suitable for more than one type of fuse or terminals, the evaluation shall be conducted with all types of fuses and terminals.

NOTE: In accordance with the Standard for Electrical Safety in the Workplace, NFPA 70E, an electrically safe work condition should be established prior to working on electrical equipment. Accessibility requirements do not endorse working on energized electrical equipment. In Canada, refer to CSA Z462, Workplace electrical safety.

6.4.3 Metal barriers provided to limit exposure to inadvertent contact shall:

   a) Have a thickness not less than 0.032 inch (0.81 mm) if uncoated, not less than 0.034 inch (0.86 mm) if galvanized, and not less than 0.050 inch (1.27 mm) if aluminum.

   b) Be constructed so that it can be readily removed or repositioned, and then reinstalled, without the likelihood of contacting bare live parts or damage the insulation of any insulated live part.

NOTE: Factory installed barriers that limit access to factory installed wiring and terminations are not required to be constructed so that they can be removed or repositioned.

6.4.4 Nonmetallic barriers provided to limit exposure to inadvertent contact shall:

   a) Comply with requirements in 6.6.2.6 for barriers used in conjunction with a minimum air space of 0.013 inch (0.33 mm).
b) Be constructed so that it can be readily removed or repositioned, and then reinstalled, to allow access to the terminal for servicing.

NOTE: Factory installed barriers that limit access to factory installed wiring and terminations are not required to be constructed so that they can be removed or repositioned.

6.4.5 Enclosed switches marked “Suitable for use as service equipment” shall be permitted to provide the protection from inadvertent contact in 6.4.2 in a field installable kit when marked in accordance with 9.2.64.

9.2.64 Enclosed switches marked “Suitable for use as service equipment” and provided with protection from inadvertent contact in a field installable kit, as permitted in 6.4.5, shall be marked “Install Service Barrier Kit, Cat. Number ____” or equivalent.

---

2. Revision of Values for Dielectric Test Frequencies in Paragraphs 6.6.2.5, 7.5.1, and 7.6.1

6.6.2.5 A barrier of insulating material other than vulcanized fiber may have a thickness less than 0.71 mm (0.028 inch) if it withstands a 60 48 - 62 Hz dielectric-withstand voltage of 5 000 V applied in accordance with 7.14.
7.5.1 A single-throw switch (with fuses, if any, in place) shall withstand for 1 minute without breakdown the application of a 60 48 - 62 Hz essentially sinusoidal voltage of 1 000 V plus twice the maximum rated voltage:

a) Between live parts and the enclosure with the switch closed,

b) Between terminals of opposite polarity with the switch closed, and

c) Between the line and load terminals with the switch open.

7.6.1 A clamped joint between two insulators (reference 6.6.1.18) shall be tested using two samples:

a) The clamped joint on the first sample shall be opened up to produce a space 3.2 mm (1/8 inch) wide. This may be accomplished by loosening the clamping means or by drilling a 3.2 mm (1/8 inch) diameter hole at the joint between the insulators at a point of minimum spacing between the metal parts on the opposite sides of the joint. The drilled hole shall not decrease spacings between the opposite polarity parts as measured through the crack between the insulators. The 60 48 - 62 Hz dielectric breakdown voltage through this hole shall then be determined by applying a gradually increasing voltage (500 V per second) until breakdown occurs.

b) The second sample, with the clamped joint intact, shall be subjected to a gradually increasing 60 48 - 62 Hz voltage until 110 percent of the breakdown voltage of item (a) has been reached. If the breakdown voltage of item (a) is less than 4 600 V rms, the voltage to be applied to the second sample shall be further increased to 5 000 V rms and held for 1 second. There shall be no electrical breakdown of the second sample.

3. Overload and Endurance Time Constant Correction/Addition

7.3.1.1 A general-use switch shall perform successfully when operated:

a) For 50 cycles,

b) Making and breaking 150 percent of its rated current, except as noted in 7.3.1.3 and 7.3.2.10,

c) With the rate of speed being the number of cycles per minute given in Table 19,

d) At the test voltage described in 7.3.2.4,
e) For ac rated switches, a load with a power factor (for an ac switch) of 0.75 - 0.80 maximum; and

f) For dc rated switches, a load with a time constant of not less than 0.003 seconds.

There shall not be any electrical or mechanical malfunction of the device or welding of the contacts. The ground fuse shall not have opened. Burning or pitting of the contacts shall be considered to be acceptable, but line-to-line breakdown shall be considered to be unacceptable.

7.4.1 The same switch previously subjected to the overload test shall perform successfully when operated:

a) For the number of cycles and rate of speed indicated in Table 19,

b) Making and breaking 100 percent of its rated current. Switches for isolating use only, rated at more than 1200 A at 250 V or less, and switches rated at more than 600 A at more than 250 V may be operated without current, if the switch is marked in accordance with 9.2.12,

c) With the test potential as described in 7.3.2.4 for an ac switch and within 5 percent of the rated voltage of the switch if direct current is used, and

d) For ac rated switches, a load with a power factor (for an ac switch) of 0.75 - 0.80 maximum, and

e) For dc rated switches, a load with a time constant of not less than 0.003 seconds.

There shall not be any electrical or mechanical malfunction of the device or welding of the contacts. The ground fuse shall not have opened. Burning or pitting of the contacts shall be considered to be acceptable, but line-to-line breakdown shall be considered to be unacceptable.
BSR/UL 1682, Standard for Plugs, Receptacles, and Cable Connectors of the Pin and Sleeve Type

1. Alternative terminal identifier for the connection of the grounded conductor

Table 19
Identification of wiring terminals
(See Clause 7.2.2.1 and Figure 5)

<table>
<thead>
<tr>
<th>Identification by:</th>
<th>Grounded/bonded terminal</th>
<th>Grounding/bonding terminal</th>
<th>All other terminals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wire-binding screw</td>
<td>White or silver-colored metal or plating on screw head. In Mexico, the letter &quot;N&quot; adjacent to the wire binding screw may be used instead.</td>
<td>Hexagonal, green-colored nut or slotted screw head. In Mexico, the ground symbol adjacent to the wire binding screw may be used instead.</td>
<td>Other than white, silver, gray, or green circular screw head</td>
</tr>
<tr>
<td>Pressure wire terminal-visible</td>
<td>White or silver-colored metal or plating on connector. In Mexico, the letter &quot;N&quot; adjacent to the pressure wire terminal may be used instead.</td>
<td>Green-colored connector or appendage. In Mexico, the ground symbol adjacent to the wire binding screw may be used instead.</td>
<td>Other than white, silver, gray, or green colored terminal</td>
</tr>
<tr>
<td>Pressure wire terminal-concealed</td>
<td>Distinct white-colored area adjacent to wire entrance hole, or the word &quot;white&quot;, or the letter &quot;W&quot; distinctly marked adjacent to wire entrance hole. In Mexico, the letter &quot;N&quot; adjacent to the pressure wire terminal may be used instead.</td>
<td>Distinct green-colored area adjacent to wire entrance hole, or the word &quot;green&quot; or &quot;ground&quot;, the letters &quot;G&quot; or &quot;GR&quot;, or the grounding/bonding symbol distinctly marked adjacent to wire entrance hole.</td>
<td>Other than white, silver, gray, or green area adjacent to wire entrance hole</td>
</tr>
<tr>
<td>Set screw</td>
<td>Distinct white-colored area adjacent to wire entrance hole, the word &quot;white&quot;, or the letter &quot;W&quot; distinctly marked adjacent to wire entrance hole. In Mexico, the letter &quot;W&quot; adjacent to the set screw may be used instead.</td>
<td>Distinct green-colored area adjacent to wire entrance hole, or the word &quot;green&quot; or &quot;ground&quot;, the letters &quot;G&quot; or &quot;GR&quot;, or the grounding/bonding symbol distinctly marked adjacent to wire entrance hole.</td>
<td>Other than white, silver, gray, or green area adjacent to wire entrance hole</td>
</tr>
<tr>
<td>Terminal plate</td>
<td>White or silver-colored metal or plating.</td>
<td>-</td>
<td>Other than white, silver, gray, or green metal or plating</td>
</tr>
<tr>
<td>Insulating enclosure or terminal</td>
<td>The word &quot;white&quot; or the letter &quot;W&quot;, marked on or directly adjacent to terminal. In Mexico, the letter &quot;N&quot; adjacent to the wire binding screw may be used instead.</td>
<td>The word &quot;green&quot;, the word &quot;ground&quot;, or the letters &quot;G&quot; or &quot;GR&quot; marked on or directly adjacent to terminal, or green-colored terminal, or the grounding/bonding symbol.</td>
<td>Other than white, silver, gray, or green-colored terminal</td>
</tr>
</tbody>
</table>

a Only if all line-terminal binding screws are of the same color.
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>b</td>
<td>Not readily removable. See Clause 7.2.2.2.</td>
</tr>
<tr>
<td>c</td>
<td>In letters at least 1.6 mm (1/16 inch) high.</td>
</tr>
<tr>
<td>d</td>
<td>The grounding/bonding symbol shown in Figure 5 is permitted, with or without the circle.</td>
</tr>
<tr>
<td>e</td>
<td>The use of terminals in their natural metallic color (i.e., silver) is allowed, provided the Grounded/Bonded and Grounding/Bonding terminals are identified by means other than terminal screw, setscrew or terminal color.</td>
</tr>
</tbody>
</table>
BSR/UL 4248-5, Standard for Fuseholders - Part 5: Class G


PROPOSAL

9.2.6 An observed temperature shall be corrected by addition [if the ambient temperature is lower than 25°C (77°F)] or subtraction (if the ambient temperature is higher than 25°C) of the difference between 25°C and the ambient temperature.

Table 9.2
Maximum Temperature

<table>
<thead>
<tr>
<th>Materials and components</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. COMPONENTS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Any bus, strap, or fuse clip</td>
<td>55</td>
<td>131</td>
</tr>
<tr>
<td>2. Pressure terminal connectors for field installed conductors.</td>
<td>55&lt;sup&gt;a&lt;/sup&gt;</td>
<td>131&lt;sup&gt;a&lt;/sup&gt;</td>
</tr>
<tr>
<td><strong>B. ELECTRICAL INSULATION - GENERAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Wire insulation or insulating tubing</td>
<td>40&lt;sup&gt;b&lt;/sup&gt;</td>
<td>104&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>2. Electrical tape</td>
<td>60&lt;sup&gt;b&lt;/sup&gt;</td>
<td>140&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>3. Varnished cloth insulation</td>
<td>65&lt;sup&gt;b&lt;/sup&gt;</td>
<td>149&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>4. Fiber employed as electrical insulation</td>
<td>70&lt;sup&gt;b&lt;/sup&gt;</td>
<td>158&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>5. Sealing compound</td>
<td>55&lt;sup&gt;b&lt;/sup&gt;</td>
<td>131&lt;sup&gt;b&lt;/sup&gt;</td>
</tr>
<tr>
<td>6. Polymeric materials employed as electrical insulation or as a part the deterioration of which would result in a risk of fire, electric shock, or injury to persons</td>
<td>RTI-20&lt;sup&gt;c&lt;/sup&gt;</td>
<td>RTI-68&lt;sup&gt;c&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>a</sup> Applicable to a connector for copper wire; also applicable to a connector for aluminum wire or an aluminum-bodied connector if the connector has a temperature rating of 90°C (194°F).

<sup>b</sup> This limitation for an insulated conductor or other material that has been investigated and found acceptable at a higher temperature shall be that higher temperature less 20 °C (to represent the additional heating effect contributed by the use of actual fuses).

<sup>c</sup> RTI is the higher of the mechanical and electrical relative thermal Indices for the polymeric material used or, for those materials lacking published RTI ratings, the generic thermal index, corresponding to the material used; in accordance with CSA 22.2 No. 0.17 or UL 746C.