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Project Initiation Notification System (PINS)

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

AAMI (Association for the Advancement of Medical Instrumentation)

Mike Miskell <mmiskell@aami.org> | 901 N. Glebe Road | Arlington, VA 22203 www.aami.org

National Adoption

BSR/AAMI/ISO 17665, Sterilization of health care products — Moist heat — Requirements for the development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 17665:202X, Ed. 2)
Stakeholders: Medical device manufacturers, sterilization equipment manufacturers, organizations responsible for sterilizing medical devices.

Project Need: This project provides updates and consolidates information from the current editions of the three additional parts of the ISO 17665 series.

Interest Categories: Industry, regulatory, general interest, user.

Provides requirements for the development, validation, and routine control of moist heat sterilization processes for medical devices. It also contains guidance which is intended to explain the requirements set forth in the normative sections. The guidance given is intended to promote good practice related to moist heat sterilization processes according to this document. The application within industrial and health care settings is considered.

API (American Petroleum Institute)

Grayson Ridgway <ridgwayg@api.org> | 200 Massachusetts Avenue NW | Washington, DC 20001 www.api.org

National Adoption

BSR/API Spec 19AC-202X, Completion Accessories (national adoption of ISO 14998:2013 with modifications and revision of ANSI/API Specification 19AC/ISO 14998, 1st Edition-2016 (R2022))
Stakeholders: Petroleum and natural gas equipment manufacturers-service suppliers, upstream oil and gas operators/users and consultants/contracted experts

Project Need: This project is a further revision of PK188227. The ISO document has not been revised, but API's document will be revised further.

Interest Categories: Manufacturers, operators/users, and general interest

This International Standard provides requirements and guidelines for completion accessories for use in the petroleum and natural gas industries. This International Standard provides requirements for the functional specification and technical specifications, including design, design verification and validation, materials, documentation and data control, quality requirements, redress, repair, shipment, and storage. This International Standard covers the pressure-containing, nonpressure-containing, load-bearing, disconnect/reconnect, tubing-movement, and opening-a-port functionalities of completion accessories.

API (American Petroleum Institute)

Grayson Ridgway <ridgwayg@api.org> | 200 Massachusetts Avenue NW | Washington, DC 20001 www.api.org

National Adoption

BSR/API Spec 19SS-202X, Sand Screens (national adoption of ISO 17824:2009 with modifications and revision of ANSI/API Specification 19SS/ISO 17824:2010)
Stakeholders: Petroleum and natural gas equipment manufacturers-service suppliers, upstream oil and gas operators/users and consultants/contracted experts

Project Need: This project is a further revision of PK 160385. The ISO document has not been revised, but API's document will be revised further.

Interest Categories: Manufacturers, operators/users, and general interest

This International Standard provides the requirements and guidelines for sand screens for use in the petroleum and natural gas industry. Included are the requirements for design, design validation, manufacturing, quality, storage and transport. The requirements of this International Standard are applicable to wire-wrap screens, pre-pack screens and metal-mesh screens. The following items are outside the scope of this International Standard:
- Expandable and/or compliant sand screens, slotted liners or tubing and accessory items such as centralizers or bull plugs;
- Shunt screen technology, inflow control devices, downhole sensors and selective isolation devices, even where they can be an integral part of the sand screen;
- analysis for sand retention efficiency;
- end connections of the basepipe.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ACCA/ASHRAE Standard 183-202x, Peak Cooling and Heating Load Calculations in Buildings Except Low-Rise Residential Buildings (revision of ANSI/ASHRAE/ACCA Standard 183-2007 (R2020))
Stakeholders: All building types and all building designers.

Project Need: All building types and all building designers.

Interest Categories: General, Producer, User

This standard establishes requirements for performing peak cooling and heating load calculations for buildings except low-rise residential buildings.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 20-202x, Methods of Laboratory Testing Remote Mechanical-Draft Air-Cooled Refrigerant Condensers (revision of ANSI/ASHRAE Standard 20-2019)
Stakeholders: Consumers, data centers, building owners, equipment manufacturers, etc.

Project Need: Revision is needed to update the normative references which have become out-of-date.

Interest Categories: General, Producer, User

This standard prescribes methods of laboratory testing remote mechanical-draft, air-cooled refrigerant condensers.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 24-202x, Methods of Testing for Rating Evaporators Used for Cooling Liquids (revision of ANSI/ASHRAE Standard 24-2019)
Stakeholders: Manufacturers and users of evaporators used for cooling liquids

Project Need: Update normative references and remove a normative reference to ASHRAE Guideline 2, which has been withdrawn.

Interest Categories: General Purpose, User

This standard prescribes methods of testing the thermal performance and liquid-side pressure drop of evaporators that operate at subcritical pressures of the evaporating refrigerant.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 25-202x, Methods of Testing Forced Convection and Natural Convection Air Coolers for Refrigeration (revision of ANSI/ASHRAE Standard 25-2018)
Stakeholders: Consumers, supermarkets, food & beverages, pharmaceuticals, equipment manufacturers, etc

Project Need: Revision is needed to update the normative references which have become out-of-date.

Interest Categories: General, Producer, User

This standard prescribes methods of testing the cooling capacities and air flow rates of forced convection and natural convection air coolers for refrigeration. It does not include air coolers of the recirculated primary liquid refrigerant type. It does not include air-conditioning units for which testing methods are given in other standards.

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

Tanisha Meyers-Lisle <tmlisle@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 63.2-202x, Method of Testing Liquid-Line Filter Drier Filtration Capability (revision of ANSI/ASHRAE Standard 63.2-2017)
Stakeholders: Manufacturers

Project Need: Provides a method to rate filtration of contaminates.

Interest Categories: General, Producer, User

The purpose of this standard is to prescribe a laboratory test method for evaluating the filtration capability of filters and filter driers used in liquid lines of refrigeration systems.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 84-202x, Method of Testing Air-to-Air Heat/Energy Exchangers (revision of ANSI/ASHRAE Standard 84-2020)
Stakeholders: HVAC industry and researchers.

Project Need: The standard is used as the basis for certification of energy recovery exchangers in the AHRI 1060 program, as well as providing a standard method of test and rating for exchangers in research and manufacturing.

Interest Categories: General, Producer, User

The purpose of this standard is to:
- Establish a uniform method of test for obtaining for the effectiveness of air-to-air heat/energy exchangers;
- Specify the test conditions, data required, uncertainty analysis to be performed, calculations to be used, and reporting procedures for testing the performance of an air-to-air heat/energy exchanger; and
- Specify the types of test equipment for performing such tests.

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

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Revision

BSR/ASHRAE Standard 126-202x, Methods of Testing HVAC Air Ducts (revision of ANSI/ASHRAE/SMACNA Standard 126-2020)
Stakeholders: Lindab Corp., SMACNA, United McGill, Sheet Metal Manufacturers, Duct Manufacturers

Project Need: References need to be updated per Staff recommendations. This project and standard are needed to assist in creating uniform evaluations when comparing air conveying ducts.

Interest Categories: General Purpose, User

This standard includes procedures to determine the structural strength, dimensional stability, durability, and leakage characteristics of HVAC air ducts.

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

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Revision

BSR/ASHRAE Standard 128-202x, Method of Rating Portable Air Conditioners (revision of ANSI/ASHRAE Standard 128 -2018)
Stakeholders: Small AC Unit Supplier

Project Need: This project was originally based on Canadian Standard CSA C370. Need to get copies of the updated versions of CSA 370, C368.1-M90, CSA C22.1, CSA C22.2, and CSA B52-05; AHAM RAC-1. All Standards are listed in Section 9, References.

Interest Categories: User, General, Producer

The purpose of this standard is to establish a uniform set of requirements for rating the cooling capacity of portable air conditioners.

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

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Revision

BSR/ASHRAE Standard 158.1-202x, Methods of Testing Capacity of Refrigerant Solenoid Valves (revision of ANSI/ASHRAE Standard 158.1-2019)
Stakeholders: Refrigerant controls manufacturers, HVAC system/component manufacturers, and test facilities.

Project Need: Standard 158.1 contains the test method for AHRI Standard 760.

Interest Categories: General, Producer, User

This standard prescribes a method of testing the capacity of refrigerant solenoid valves for use in refrigerating systems.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 200-202x, Methods of Testing Chilled Beams (revision of ANSI/ASHRAE Standard 200-2018)
Stakeholders: Test labs, manufacturers of chilled beams

Project Need: This standard was prepared in cooperation with the AHRI Chilled Beams Section, and it is referenced in AHRI Standards 1240 (I-P) and 1241 (SI), Performance Rating of Active Chilled Beams, as the method of test for the AHRI Active Chilled Beam (ACB) certification program.

Interest Categories: General, Producer , User

This standard specifies test instrumentation, facilities, installation methods and procedures for determining the performance of Chilled Beams.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 206-202x, Method of Testing for Rating of Multi-Purpose Heat Pumps for Residential Space Conditioning and Water Heating (revision of ANSI/ASHRAE Standard 206-2013 (R2017))
Stakeholders: Manufacturers

Project Need: Provide a method of test for this combination appliance

Interest Categories: General, Producer, User

This standard applies to electrically powered unitary heat pump equipment that provides both space conditioning and water heating functions, or that combines space conditioning and water heating with other functions, such as dehumidification and/or ventilation.

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

Carl Jordan <cjordan@ashrae.org> | 180 Technology Parkway | Peachtree Corners, GA 30092 www.ashrae.org

Revision

BSR/ASHRAE Standard 217-202x, Non-Emergency Ventilation in Enclosed Road, Rail and Mass Transit Facilities (revision of ANSI/ASHRAE Standard 217-2020)
Stakeholders: Owners, Designers, and Equipment Manufacturers

Project Need: The project committee needs to make revisions as noted in the ASHRAE staff review.

Interest Categories: Producer, User, General

This standard provides minimum ventilation requirements for ventilation systems within enclosed transportation facilities during non-emergency operating conditions.

AWS (American Welding Society)

Kevin Bulger <kbulger@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Revision

BSR/AWS D14.0/D14.0M-202x, Machinery and Equipment Welding Specification (revision of ANSI/AWS D14.0/D14.0M-2023)
Stakeholders: This publication would be used on a worldwide basis by specifiers, purchasers, designers, manufacturers and users of machinery and equipment.

Project Need: Updating for new practices for the design, fabrication, and inspection of welding for machinery and equipment

Interest Categories: User, Educator, Producer, General Interest

This specification establishes design, manufacture, quality, inspection, and repair requirements for carbon, low-alloy, and alloy steel welded connections in machinery and equipment. It addresses topics including weld joint design, workmanship, quality acceptance criteria, nondestructive examination methods (visual, radiographic, ultrasonic, magnetic particle, and liquid penetrant), repair of weld defects, and postweld heat treatment.

AWS (American Welding Society)

Kevin Bulger <kbulger@aws.org> | 8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Revision

BSR/AWS D14.9/D14.9M-202x, Specification for the Welding of Hydraulic Cylinders (revision of ANSI/AWS D14.9/D14.9M-2022)
Stakeholders: Manufacturers of equipment and machinery with hydraulic cylinder components.

Project Need: Updating for new practices for suppliers of hydraulic cylinder components.

Interest Categories: User, Educator, Producer, General Interest

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

ISA (Organization) (International Society of Automation)

Eliana Brazda <ebrazda@isa.org> | 3252 S. Miami Blvd, Suite 102 | Durham, NC 27703 www.isa.org

Revision

BSR/ISA 67.04.01-202x, Setpoints for Nuclear Safety-Related Instrumentation (revision of ANSI/ISA 67.04.01-2018)
Stakeholders: Intended for use primarily by owners of nuclear power plant facilities or their agents (nuclear steam system suppliers, architect/engineers, etc.)

Project Need: The purpose of this standard is to define the bases for establishing safety-related and other important instrument setpoints associated with nuclear power plants and nuclear reactor facilities.

Interest Categories: Architect-Engineers, Engineer-Constructors, Integrators; General; Producers; Regulatory/Government; Testing/Certification/Approval; and Users

This standard defines the requirements for assessing, establishing, and maintaining nuclear safety-related and other important instrument setpoints associated with nuclear power plants or nuclear reactor facilities. The scope includes instrumentation-based setpoints that assure compliance to one or more safety or design limits.

NAAMM (National Association of Architectural Metal Manufacturers)

Ike Flory <ifnaamm@gmail.com> | 1533 Pine Grove Lane | Chesapeake, VA 23321 www.naamm.org

Revision

BSR/NAAMM HMMA 862-202x, Guide Specifications for Forced Entry/Bullet Resistant (FE/BR) Security Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 862-2023)
Stakeholders: Engineers, architects, manufacturers, building owners, municipalities.

Project Need: The NAAMM Guide Specifications For Forced Entry/Bullet Resistant (FE/BR) Security Hollow Metal Doors and Frames offers NAAMM opinion and guidance on the specification and use of FE/BR security hollow metal doors and frames. It is necessary when writing a FE/BR security specification to keep in mind the security aspects of the entire opening - door, frame, hardware, glazing and wall construction. The test performance criteria set forth in this document simulates the “total opening” and its ability to frustrate forced entry, and ballistic penetration. This standard requires occasional maintenance to ensure that it is not in conflict with other standards issued by any third party listing agency.

Interest Categories: Producers: An individual or entity that manufactures architectural metal products. Users: Both individuals and representatives of organized groups that purchase, use, or specify architectural metal products. General Interest: This category includes, but is not limited to, inspectors, technical societies, regulatory agencies (state and federal), researchers, and educators.

The NAAMM Guide Specifications for Forced Entry/Bullet Resistant (FE/BR) Security Hollow Metal Doors and Frames provides architects and engineers the NAAMM opinion and guidance on the specification and use of FE/BR security hollow metal doors and frames. This standard contains advisory information only and is published as a public service by NAAMM and its HMMA Division.

NAAMM (National Association of Architectural Metal Manufacturers)

Ike Flory <ifnaamm@gmail.com> | 1533 Pine Grove Lane | Chesapeake, VA 23321 www.naamm.org

New Standard

BSR/NAAMM HMMA 865-202x, Guide Specifications for Sound Control Hollow Metal Doors and Frame Assemblies (new standard)
Stakeholders: Engineers, industries, building owners, municipalities.

Project Need: This proposed new ANS is intended to replace a previously issued ANS which expired on February 27, 2023.

Interest Categories: Producers: An individual or entity that manufactures architectural metal products. Users: Both individuals and representatives of organized groups that purchase, use, or specify architectural metal products. General Interest: This category includes, but is not limited to, inspectors, technical societies, regulatory agencies (state and federal), researchers, and educators.

This manual was developed by representative members of the Hollow Metal Manufacturing Association (HMMA), a division of the National Association of Architectural Metal Manufacturers (NAAMM), to provide guide specifications which are intended to be used as the basis for developing project specifications regarding sound control hollow metal doors and frame assemblies and must be edited to fit specific project requirements.

NEMA (ASC C12) (National Electrical Manufacturers Association)

Paul Orr <Pau_orr@nema.org> | 1300 North 17th Street, Suite 900 | Rosslyn, VA 22209 www.nema.org

Revision

BSR C12.1-202x, Electric Meters—Code for Electricity Metering (revision of ANSI C12.1-2022)
Stakeholders: Meter manufacturers, Electric Utilities, Third party Test Labs

Project Need: Update requirements for Test No. 9 Heat Rise.

Interest Categories: Users, Producers, and General Interest

This standard establishes acceptable performance criteria for new types of AC watthour meters, demand meters, demand registers, pulse devices, and auxiliary devices. It also describes acceptable in-service performance levels for meters and devices used in revenue metering. It also includes information on related subjects, such as recommended measurement standards, installation requirements, test methods, and test schedules. This Code for Electricity Metering is designed as a reference for those concerned with the art of electricity metering, such as utilities, manufacturers, and regulatory bodies.

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

Comment Deadline: November 19, 2023

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

BSR/ASHRAE Addendum 62.2h-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2022)
This addendum would add language in the scope to describe that IAQ may be unacceptable even if all requirements are met, because of contaminant transport from adjacent spaces. The proposed addition is to recognize the impact of adjacent spaces on dwelling unit IAQ.
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

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

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

Addenda

BSR/ASHRAE/ASHE Addendum a to ANSI/ASHRAE/ASHE Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2021)
This addendum addresses the issue presented by patients or residents being in beds, chairs, or required fixed positions that would make it difficult to look up or out to gain the view fenestration.
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: November 19, 2023

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

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

Addenda

BSR/ASHRAE/ASHE Addendum f to ANSI/ASHRAE/ASHE Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2021)
This proposed addendum updates the publication years of several referenced standards to the most current editions.
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

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org

Revision

BSR/NSF 3-202x (i10r2), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2021)
This standard applies to commercial dishwashing; glasswashing; and pot, pan, and utensil washing machines that wash their contents by applying sprays of detergent solutions, with or without blasting media granules, and sanitize their contents by applying sprays of hot water or chemical sanitizing solutions.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

NSF (NSF International)

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

Revision

BSR/NSF 14-202x (i134r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)
The physical, performance, and health effects requirements in this standard apply to thermoplastic and thermoset plastic piping system components including, but not limited to, pipes, fittings, valves, joining materials, gaskets, and appurtenances.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org

Revision

BSR/NSF 49-202x (i190r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)
This standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to Biosafety Levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this standard.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Allan Rose <arose@nsf.org>

Comment Deadline: November 19, 2023

NSF (NSF International)

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

Revision

BSR/NSF/CAN 50-202x (i203r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2023)
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>

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | mleslie@nsf.org, www.nsf.org

Revision

BSR/NSF/CAN 61-202x (i174r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2022)
This standard is intended to cover specific materials or products that come into contact with: drinking water, drinking water treatment chemicals, or both. The focus of the standard is evaluation of contaminants or impurities imparted indirectly to drinking water.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Monica Leslie <mleslie@nsf.org>

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | standards-process@tiaonline.org, www.tiaonline.org

Revision

BSR/TIA 942-C-202x, Telecommunications Infrastructure Standard for Data Centers (revision and redesignation of ANSI/TIA 942-B-2017, ANSI/TIA 942-B-1-2022)
This Standard specifies the minimum requirements for telecommunications infrastructure of data centers and computer rooms, including edge data centers, enterprise data centers, managed services data centers, colocation data centers, and cloud data centers. The topology specified in this document is intended to be applicable to any size data center. Comments are limited to the text highlighted in yellow.
Click here to view these changes in full
Send comments (copy psa@ansi.org) to: Teesha Jenkins <standards-process@tiaonline.org>

Comment Deadline: November 19, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709 | anna.roessing-zewe@ul.org, https://ulse.org/

Revision

BSR/UL 155-202x, Standard for Tests for Fire Resistance of Vault and File Room Doors (revision of ANSI/UL 155 -2009 (R2023))
1.1 These requirements cover the test procedure applicable to the fire-resistance classification of doors intended for the protection of openings of vaults and file rooms. 1.2 Recommendations for record protection equipment and techniques, including the use and installation of vault or file room door assemblies, are contained in the Standard for Protection of Records, NFPA 232. 1.3 The terms "vault doors" and "file room doors" refer to assemblies consisting of doors, single or in pairs, the frame into which doors are hung, and the necessary hardware. These assemblies are intended to provide fire resistance and protection to contents from heat for periods designated by the classifications to an extent described in these requirements. 1.4 Vault doors are recommended for use on enclosures of limited volume [not exceeding 5,000 cubic feet (142 m3)], constructed so that no point on the interior surface will reach a temperature exceeding 350°F (177°C) when separate vault members or the vault as a whole are exposed to a fire regulated according to the standard time-temperature curve. See Figure 8.2.
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/ProposalAvailable

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | annemarie.jacobs@ul.org, https://ulse.org/

Revision

BSR/UL 1598-202x, Standard for Safety for Luminaires (revision of ANSI/UL 1598-2021)
Proposed revisions to edition 5 of UL 1598, which include the following changes in requirements: (f) Polymeric Recessed Luminaires Marking Clarification.
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/ProposalAvailable

Comment Deadline: December 4, 2023

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 173-202x, Standard for Education, Training, Continuing Education, and Certification of Forensic Toxicology Laboratory Personnel (new standard)
This document provides minimum requirements for educational qualifications, training, competency, experience, continuing education, and certification of laboratory personnel performing, interpreting, or overseeing forensic toxicology analyses, as well as anyone performing breath alcohol instrument calibration. This applies to the following sub-disciplines: postmortem toxicology, human performance toxicology (e.g., drug-facilitated crimes and driving-under-the-influence of alcohol or drugs), non-regulated employment drug testing, and other forensic testing (e.g., court-ordered toxicology, general forensic toxicology). The following are outside the scope of this document: laboratory personnel that exclusively perform administrative or non-technical duties; individuals working as breath alcohol instrument operators; individuals performing calibration adjustments to breath alcohol instruments, individuals who solely perform instrument maintenance activities, or individuals engaged in expert consultation outside of a forensic toxicology laboratory.
Single copy price: Free
Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: www.aafs.org/academy-standards-board.
Send comments (copy psa@ansi.org) to: asb@aafs.org

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

National Adoption

BSR/AAMI/ISO 11607-1-202x/A1, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems - Amendment 1 (identical national adoption of ISO 11607-1:2019/Amd 1:2023)
Amendment 1 adds Annexes F and G on risk management and related modifications to the text.
Single copy price: Free
Obtain an electronic copy from: Mike Miskell; mmiskell@aami.org
Send comments (copy psa@ansi.org) to: Mike Miskell; mmiskell@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

National Adoption

BSR/AAMI/ISO 11607-2-202x/A1, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes - Amendment 1 (identical national adoption of ISO 11607-2:2019/Amd 1:2023)
Amendment 1 adds Annex B on risk management and related modifications to the text.
Single copy price: Free
Obtain an electronic copy from: Mike Miskell; mmiskell@aami.org
Send comments (copy psa@ansi.org) to: Mike Miskell; mmiskell@aami.org

Comment Deadline: December 4, 2023

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

National Adoption

BSR/AAMI/ISO 22441-202x, Sterilization of health care products - Low temperature vaporized hydrogen peroxide - Requirements for the development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 22441:2022)
Provides requirements for the development, validation, and routine monitoring and control of a low-temperature sterilization process for medical devices using vaporized hydrogen peroxide (VH2O2) as the sterilizing agent. Intended to be applied by process developers, manufacturers of sterilization equipment, manufacturers of medical devices to be sterilized, organizations performing process validation of VH2O2 sterilization, and organizations responsible for sterilizing medical devices.
Single copy price: Free
Obtain an electronic copy from: Mike Miskell; mmiskell@aami.org
Send comments (copy psa@ansi.org) to: Mike Miskell; mmiskell@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

Reaffirmation

BSR/AAMI ST40, Ed. 2 (R202x), Table-top dry heat (heated air) sterilization and sterility assurance in health care facilities (reaffirmation of ANSI/AAMI ST40-2004 (R2018))
This recommended practice provides guidelines for decontamination and dry-heat sterilization procedures used in dentists' and physicians' offices, laboratories, ambulatory care clinics, and other health care facilities. These guidelines are intended to promote the assurance of sterility by identifying the special considerations that apply to this method of sterilization and by providing recommendations on the proper use of table-top dry-heat sterilization processing equipment. This recommended practice also covers facility design considerations, personnel considerations, work practices, and other variables that affect sterility assurance.
Single copy price: $249.00 ($142.00 with AAMI membership)
Obtain an electronic copy from: https://store.aami.org/s/store#/store/browse/detail/a152E000006j61tQAA
Send comments (copy psa@ansi.org) to: Mike Miskell, mmiskell@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

Reaffirmation

BSR/AAMI ST50, Ed. 2 (R202x), Dry heat (heated air) sterilizers (reaffirmation of ANSI/AAMI ST50-2004 (R2018))
This applies to dry-heat (heated air) sterilizers that are intended for use in dental and medical offices, laboratories, ambulatory-care clinics, hospitals, and other health care facilities. It covers minimum labeling, safety, performance, and testing requirements for convection-type dry-heat (heated air) sterilizers.
Single copy price: $177.00 ($102.00 with AAMI membership)
Obtain an electronic copy from: https://store.aami.org/s/store#/store/browse/detail/a152E000006j61vQAA
Send comments (copy psa@ansi.org) to: Mike Miskell, mmiskell@aami.org

Comment Deadline: December 4, 2023

ACP (American Clean Power Association)

1501 M Street NW, Suite 1000, Washington, DC 22205 | dbrown@cleanpower.org, www.cleanpower.org

New Standard

BSR/ACP OCRP-5-202x, Recommended Practice for Design, Deployment, and Operation of Submarine Cable in the United States (new standard)
This public review is of the limited revisions shown as tracked changes. Any comments on other sections will be considered outside of the scope of this review and will be tabled for consideration on the next review cycle. The recommended practice spans the submarine cable life cycle from design, material selection, specification, manufacturing, transportation, storage, handling, installation and commissioning, to operations, maintenance, integrity verification and decommissioning of submarine cable systems.
Single copy price: Free
Obtain an electronic copy from: standards@cleanpower.org
Send comments (copy psa@ansi.org) to: Same

AISI (American Iron and Steel Institute)

25 Massachusetts Avenue, NW, Suite 800, Washington, DC 20001 | jlarson@steel.org, www.steel.org

Revision

BSR/AISI S310-202x, North American Standard for the Design of Profiled Steel Diaphragm Panels (revision of ANSI/AISI S310-2020 and ANSI/AISI S310-2020/S1-2022)
This new edition would be a revision and combination of the two standards listed above that it supersedes for design of profiled steel diaphragm panels.
Single copy price: Free
Obtain an electronic copy from: hchen@steel.org
Send comments (copy psa@ansi.org) to: Same

ASA (ASC S1) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Reaffirmation

BSR/S1.11/Part 1/IEC 61260-1-2014 (R202x), Standard Electroacoustics - Octave-band and Fractional-octave-band Filters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.11-2014/Part 1/IEC 61260-1-2014 (R2019))
This standard provides performance requirements for analog, sampled-data, and digital implementations of band-pass filters that comprise a filter set or spectrum analyzer for acoustical measurements. It supersedes ANSI/ASA S1.11-2004 (R2009) standard, Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters, and is an identical national adoption of IEC 61260:2014, Electroacoustics – Octave-band and fractional-octave-band filters, Part 1: Specifications. Significant changes from previous versions is that IEC 61260 has been adopted in full: (1) the original test methods of IEC 61260 clause 5 that was moved to an informative annex was replaced as normative, (2) the term “band number,” was replaced, and (3) some references were removed.
Single copy price: $242.00
Obtain an electronic copy from: standards@acousticalsociety.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

ASA (ASC S3) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

Reaffirmation

BSR/ASA S3.55-2014/Part 5/IEC 60318-5:2006 (MOD) (R202x), Standard Electroacoustics - Simulators of Human Head and Ear - Part 5: 2 cm2 Coupler for the Measurement of Hearing Aids and Earphones Coupled to the Ear by Means of Ear Inserts. (a modified nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S3.55-2014/Part 5/IEC 60318-5:2006 (MOD) (R2019))
This part of ANSI/ASA S3.55/IEC 60318 describes an acoustic coupler for loading an earphone or hearing aid with a specified acoustic impedance when determining its physical performance characteristics, in the frequency range 125 Hz to 8 kHz. It is suitable for air conduction hearing aids and earphones, coupled to the ear by means of ear inserts e.g., ear molds or similar devices. The sound pressure developed by an earphone is not, in general, the same in the coupler as in a person's ear. However, it can be used as a simple and ready means for the exchange of specifications and of physical data on hearing aids and for the calibration of specified insert earphones used in audiometry.
Single copy price: $70.00
Obtain an electronic copy from: standards@acousticalsociety.org
Send comments (copy psa@ansi.org) to: Same

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

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

Revision

BSR/ASHRAE Standard 158.2-202x, Methods of Testing Capacity of Refrigerant Pressure Regulators (revision of ANSI/ASHRAE 158.2-2018)
This revision of ANSI/ASHRAE Standard 158.2-2018 provides methods of determining the mass flow capacity of refrigerant pressure regulators with sufficient accuracy to facilitate proper engineering application of the device in systems operating at various conditions.
Single copy price: $35.00
Obtain an electronic copy from: http://www.ashrae.org/standards-research--technology/public-review-drafts
Send comments (copy psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

Revision

BSR/EIA 364-65C-202x, Mixed Flowing Gas Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-65B-2009 (R2020))
This standard establishes the test procedure for producing environmentally related corrosive atmospheres to determine the reaction of plated or unplated surfaces when exposed to different concentrations of flowing gas mixtures.
Single copy price: $85.00
Obtain an electronic copy from: global.ihs.com
Send comments (copy psa@ansi.org) to: Ed Mikoski (emikoski@ecianow.org)

Comment Deadline: December 4, 2023

EOS/ESD (ESD Association, Inc.)

218 W. Court Street, Rome, NY 13440 | jkirk@esda.org, https://www.esda.org

Reaffirmation

BSR/ESD STM3.1-2015 (R202x), ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Ionization (reaffirmation of ANSI/ESD STM3.1-2015)
This document provides test methods and procedures for evaluating and selecting air ionization equipment and systems (ionizers).
Single copy price: Hard Cover: $145.00 List/$115.00 Member; Soft Cover: $135.00 List/$105.00 Member
Obtain an electronic copy from: cearl@esda.org
Send comments (copy psa@ansi.org) to: Same

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | Kyle.Krueger@necanet.org, www.neca-neis.org

Revision

BSR/NECA 1-202X, Standard for Good Workmanship in Electrical Construction (revision of ANSI/NECA 1-2023)
This Standard addresses the mechanical execution of work that is an integral part of the installation of electrical equipment and systems, describes what constitutes “good workmanship,” and includes accepted industry practices used to install equipment in a professional and skillful manner as addressed in the NEC, Section 110.12.
Single copy price: $30.00 Member/$60.00 Nonmember
Obtain an electronic copy from: NEIS@NECAnet.org OR https://neca-neis.org/consensusbodypublicrequestform
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 326-202x, Standard for the Safeguarding of Tanks and Containers for Entry, Cleaning, or Repair (revision of ANSI/NFPA 326-2020)
This standard shall apply to the safeguarding of tanks or containers operating at nominal atmospheric pressure that contain or have contained flammable or combustible liquids or other hazardous substances and related vapors or residues. A. The procedures in this standard can also apply to pressurized tanks or pressurized containers that have been taken out of service and have had their operating pressure reduced to atmospheric pressure and are vented to atmosphere. This standard shall not apply to tank vehicles or tank cars; tanks, bunkers, or compartments on ships or barges or in a shipyard; gas plant equipment or gas distribution systems for natural or manufactured gas; or compressed or liquefied gas cylinders. A. Procedures for making some of the tanks and containers listed in safe are covered separately in the following publications: (1) AGA, Purging Principles and Practices; (2) ANSI Z117.1, Safety Requirements for Confined Spaces; (3) API 1631, Interior Lining and Periodic Inspection of Underground Storage Tanks; (4) API 2009, Safe Welding, Cutting, and Hot Work Practices in the Petroleum and Petrochemical Industries; (5) API 2015, Requirements for Safe Entry and Cleaning of Petroleum Storage Tanks; (6) API 2016, Guidelines...
Obtain an electronic copy from: www.nfpa.org/326Next
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 329-202x, Recommended Practice for Handling Releases of Flammable and Combustible Liquids and Gases (revision of ANSI/NFPA 329-2020)
This recommended practice provides methods for responding to fire and explosion hazards resulting from the release of a flammable or combustible liquid, gas, or vapor that can migrate to a subsurface structure. Although this recommended practice is intended to address only fire and explosion hazards, other authorities should be consulted regarding the environmental and health impacts and other hazardous conditions of such releases. This recommended practice outlines options for detecting and investigating the source of a release, for mitigating the fire and explosion hazards resulting from the release, and for tracing the release back to its source. The options outlined in this recommended practice are not intended to be, nor should they be considered to be, all inclusive or mandatory in any given situation. If better or more appropriate alternative methods are available, they should be used. The procedures outlined in this recommended practice can apply to hazardous substances other than flammable and combustible liquids that might have adverse human health effects.However, the physical characteristics of the specific hazardous substance released must be understood before any action is taken. A. Guidance regarding maximum acceptable...
Obtain an electronic copy from: www.nfpa.org/329Next
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 921-202x, Guide for Fire and Explosion Investigations (revision of ANSI/NFPA 921-2021)
This document is designed to assist individuals who are charged with the responsibility of investigating and analyzing fire and explosion incidents and rendering opinions as to the origin, cause, responsibility, or prevention of such incidents, and the damage and injuries which arise from such incidents.
Obtain an electronic copy from: www.nfpa.org/921Next
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1010-202x, Standard for Firefighter, Fire Apparatus Driver/Operator, Airport Firefighter, and Marine Firefighting for Land-Based Firefighters Professional Qualifications (revision, redesignation and consolidation of NFPA 1001, NFPA 1002, NFPA 1003 and NFPA 1005)
This standard provides minimum requirements for professional qualifications for positions identified in this standard.
Obtain an electronic copy from: www.nfpa.org/1010Next
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1081-202x, Standard for Facility Fire Brigade Member Professional Qualifications (revision of ANSI/NFPA 1081-2018)
This standard identifies the minimum job performance requirements (JPRs) necessary to perform the duties as a member of an organized industrial fire brigade providing services at a specific facility or site. This standard is intended to comply with the industrial fire brigade–related requirements of 29 CFR 1910.156, Subpart L and the industrial fire brigade–related requirements of 29 CFR 1910.134 (2 in/2 out rule). Further, this standard is intended to ensure the industrial fire brigade member has the appropriate degree of occupational safety and health while performing industrial fire brigade duties, just as NFPA 1500, Standard on Fire Department Occupational Safety and Health Program, ensures an appropriate degree of occupational safety and health for municipal fire department members. For support functions beyond the scope of this document, see Annex B.
Obtain an electronic copy from: www.nfpa.org/1081Next
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1550-202x, Standard for Emergency Responder Health and Safety (revision, redesignation and consolidation of NFPA 1500, NFPA 1521 and NFPA 1561)
1.1 Scope. This standard identifies the minimum job performance requirements (JPRs) for a health and safety officer (HSO) and an incident safety officer (ISO) for a fire department and contains minimum requirements for a fire service–related occupational safety, health, and wellness program and an incident management system to be used by emergency services to manage all emergency incidents.
Obtain an electronic copy from: www.nfpa.org/1550Next
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1930-202x, Standard on Fire and Emergency Service Use of Thermal Imagers, Two-Way Portable RF Voice Communication Devices, Ground Ladders, and Fire Hose, and Fire Hose Appliances (revision, redesignation and consolidation of NFPA 1801, NFPA 1802, NFPA 1932, NFPA 1937 and NFPA 1962)
1.1 Scope. This standard defines the minimum requirements for thermal imagers for the fire service; two-way, portable RF voice communications devices for use by emergency services personnel in the hazard zone; the use, maintenance, and service testing of in-service fire department ground ladders; the selection, care, and maintenance of rescue tools; and the care, use, inspection, testing, and replacement of fire hose, couplings, nozzles, and fire hose appliances.
Obtain an electronic copy from: www.nfpa.org/1930Next
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1950-202x, Standard on Protective Clothing, Ensembles, and Equipment for Technical Rescue Incidents, Emergency Medical Operations, and Wildland Firefighting, and Urban Interface Firefighting (revision, redesignation and consolidation of NFPA 1951, NFPA 1977 and NFPA 1999)
1.1 Scope. This standard provides minimum requirements for the design, performance, testing, and certification of the following: (1) Technical rescue protective ensembles for use by emergency services personnel during technical rescue incidents; (2) New single-use and new multiple-use emergency medical operations protective clothing, including garments, helmets, gloves, footwear, and face protection devices, used by emergency medical responders prior to arrival at medical care facilities, used by medical first receivers at medical care facilities during emergency medical operations, and used by health care workers providing medical and supportive care; (3) Items of wildland firefighting and urban interface firefighting protective clothing and equipment, including protective garments, protective helmets, protective gloves, protective footwear, protective goggles, and protective chain saw protectors, as well as items for load-carrying equipment. This standard shall not be construed as addressing all the safety concerns associated with the use of compliant protective ensembles or elements. It shall be the responsibility of the persons and organizations that use compliant protective ensembles or elements to establish safety and health practices and to determine the applicability of regulatory limitations prior to use.
Obtain an electronic copy from: www.nfpa.org/1950Next
Send comments (copy psa@ansi.org) to: Same

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1955-202x, Standard on Surface Water Operations Protective Clothing and Equipment and Protective Ensembles for Contaminated Water Diving (revision, redesignation and consolidation of NFPA 1952 and NFPA 1953)
1.1 Scope. This standard provides minimum design, performance, testing, and certification requirements for the following: (1) New protective clothing and equipment items, including full body suits, helmets, gloves, footwear, and personal flotation devices designed to provide limited protection from physical, environmental, thermal, and certain common chemical and biological hazards for emergency services personnel during surface water operations; (2) New protective clothing and equipment items, including dry suits, dry-suit gloves, and dry-suit footwear designed to provide limited protection from physical, environmental, and certain chemical and biological hazards that are listed herein for emergency services personnel during contaminated water dive operations. This standard shall specify requirements for protective clothing and protective equipment used during operations in contaminated water dive operations.
Obtain an electronic copy from: www.nfpa.org/1955Next
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 1970-202x, Standard on Protective Ensembles for Structural and Proximity Firefighting, Work Apparel and Open-Circuit Self-Contained Breathing Apparatus (SCBA) for Emergency Services, and Personal Alert Safety Systems (PASS) (revision, redesignation and consolidation of NFPA 1971, NFPA 1975, NFPA 1981 and NFPA 1982)

1.1 Scope. This standard provides minimum design, performance, testing, and certification requirements for the following: (1) New structural and proximity firefighting protective ensembles and ensemble elements that include coats, trousers, coveralls, helmets, gloves, footwear, and hoods, which further include optional requirements for structural firefighting protective garments and proximity firefighting garments that provide limited protection from liquid and particulate hazards; (2) New nonprimary work apparel and individual garments composing work apparel, which further include optional requirements for the following where such options are specified or claimed to be used in the construction of work apparel: (a) Flame resistance; (b) Water resistance; (c) Insect repellency; (3) New compressed breathing air open-circuit self-contained breathing apparatus (SCBA) and compressed breathing air combination open-circuit self-contained breathing apparatus and supplier air respirators (SCBA/SARs); (4) New personal alert safety systems (PASS) for emergency services personnel that include stand-alone PASS, integrated PASS, and RF PASS in addition to PASS or RF PASS devices certified to an earlier edition of NFPA 1982 that incorporate parts, components, or software to meet the 2024 edition of NFPA 1970.

Obtain an electronic copy from: www.nfpa.org/1970Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 2400-202x, Standard for Small Unmanned Aircraft Systems (sUAS) Used for Public Safety Operations (revision of ANSI/NFPA 2400-2019)

This standard shall cover the minimum requirements relating to the operation, deployment, and implementation of small unmanned aircraft systems (sUAS) for public safety operations.

Obtain an electronic copy from: www.nfpa.org/2400Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 3000-202x, Standard for an Active Shooter/Hostile Event Response (ASHER) Program (revision of ANSI/NFPA 3000-2021)

1.1 Scope. The scope of this standard is limited to the necessary functions and actions related to preparedness, response, and recovery from an active shooter/hostile event response (ASHER). 1.2 Purpose. The purpose of this standard is to identify the program elements necessary to develop, plan, coordinate, evaluate, revise, and sustain an ASHER program. 1.2.1 Determining specific policies, tactics, and protocols shall be the responsibility of the authority having jurisdiction (AHJ). 1.3 Equivalency. Nothing in this standard is intended to prevent the use of systems, methods, or devices of equivalent or superior quality, strength, resistance, effectiveness, durability, and safety over those prescribed by this standard.

Obtain an electronic copy from: www.nfpa.org/3000Next

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

Comment Deadline: December 4, 2023

NSF (NSF International)

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

Revision

BSR/NSF/CAN 50-202x (i130r5.1), 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.
Single copy price: Free
Obtain an electronic copy from: https://standards.nsf.org/higherlogic/ws/public/download/71196/50i130r5.1%20-%20JC%20memo%20%26%20ballot.pdf
Send comments (copy psa@ansi.org) to: Jason Snider <jsnider@nsf.org>

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

BSR Z80.3-2018 (R202x), Ophthalmics - Nonprescription Sunglass And Fashion Eyewear Requirements (reaffirmation of ANSI Z80.3-2018)
This standard applies to all nonprescription sunglasses and fashion eyewear, normally used for casual, dress, and recreational purposes, having lenses of substantially plano power. This standard specifically excludes products covered by ANSI Z87.1, ANSI Z80.1, ASTM F803, and high-impact resistance eyewear designed exclusively for designated sports use. Sunglass needs for aphakics may not be met by this standard.
Single copy price: $60.00
Obtain an electronic copy from: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org
Send comments (copy psa@ansi.org) to: Same

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

BSR Z80.7-2013 (R202x), Ophthalmic Optics - Intraocular Lenses (reaffirmation of ANSI Z80.7-2013 (R2018))
This standard applies to monofocal intraocular lenses (IOLs) whose primary indication is the correction of aphakia. This standard addresses the vocabulary, optical properties and test methods, mechanical properties and test methods, biocompatibility, sterility, shelf-life and transport stability, and clinical investigations necessary for this type of device.
Single copy price: $55.00
Obtain an electronic copy from: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org
Send comments (copy psa@ansi.org) to: Same

Comment Deadline: December 4, 2023

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

BSR Z80.10-2018 (R202x), Ophthalmics - Ophthalmic Instruments - Tonometers (reaffirmation of ANSI Z80.10 -2018)
This standard, together with ISO 15004-1, Fundamental requirements and test methods – Part 1: General requirements applicable to all instruments, specifies minimum requirements and the design compliance procedure for tonometers intended for routine clinical use in the estimation of intraocular pressure (IOP) for the detection, diagnosis, and management of ocular abnormalities.
Single copy price: $60.00
Obtain an electronic copy from: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org
Send comments (copy psa@ansi.org) to: Same

TVC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

BSR Z80.30-2018 (R202x), Ophthalmics -Toric Intraocular Lenses (reaffirmation of ANSI Z80.30-2018)
This standard applies to any monofocal intraocular lens (IOL) whose primary indication is the reduction of astigmatism either with the correction of aphakia or the modification of the refractive power of a phakic eye. It does not include IOLs used to correct presbyopia.
Single copy price: $85.00
Obtain an electronic copy from: https://www.z80asc.com/ or email: ascz80@thevisioncouncil.org
Send comments (copy psa@ansi.org) to: Same

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | mitchell.gold@ul.org, https://ulse.org/

New Standard

BSR/UL 1976-202x, Standard for Crimp Tools for Use with Connecting Devices (new standard)
These requirements cover Original Equipment Manufacturer (OEM) and non-OEM crimp tools that have been evaluated for use with the following types of specified connecting devices (a) Grounding and bonding equipment; (b) Electrical quick-connect terminals; (c) Wire connectors; (d) Wire-connector adapters; (e) Ferrules; and (f) Lightning protection components.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Follow the instructions at the following website to enter comments into the CSDS Work Area: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards & Engagement)

47173 Benicia Street, Fremont, CA 94538 | Derrick.L.Martin@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 1692-2019 (R202x), Standard for Safety for Polymeric Materials - Coil Forms (reaffirmation of ANSI/UL 1692-2019)
This proposal involves the reaffirmation of the Second Edition of UL 1692 as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: Derrick Martin; Derrick.L.Martin@ul.org

Comment Deadline: December 4, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 61010-2-081-2019 (R202x), Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes (reaffirm a national adoption ANSI/UL 61010-2-081-2019)
Reaffirmation and continuance of the Third Edition of the Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-081: Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes, UL 61010-2-081, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 61010-2-091-2019 (R202x), Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-091: Particular Requirements for Cabinet X-Ray Systems (reaffirm a national adoption ANSI/UL 61010-2-091-2019)
Reaffirmation and continuance of the Second Edition of the Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-091: Particular Requirements for Cabinet X-Ray Systems, UL 61010-2-091, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 61010-2-101-2019 (R202x), Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment (reaffirm a national adoption ANSI/UL 61010-2-101-2019)
Reaffirmation and continuance of the Third Edition of the Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment, UL 61010-2-101, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/ProposalAvailable
Send comments (copy psa@ansi.org) to: https://csds.ul.com/ProposalAvailable

Comment Deadline: December 4, 2023

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, https://ulse.org/

Reaffirmation

BSR/UL 62841-3-14-2019 (R202x), Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-14: Particular Requirements for Transportable Drain Cleaners (reaffirm a national adoption ANSI/UL 62841-3-14-2019)
Reaffirmation and continuance of the 1st Edition of the Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety – Part 3-14: Particular Requirements for Transportable Drain Cleaners, UL 62841-3-14, as an standard.
Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx.
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 19, 2023

ASME (American Society of Mechanical Engineers)

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

Revision

BSR/ASME B18.6.3-202x, Machine Screws, Tapping Screws, and Metallic Drive Screws (Inch Series) (revision of ANSI/ASME B18.6.3-2013 (R2017))
This Standard is intended to cover the complete general and dimensional data for the various types of slotted and recessed head machine screws, tapping screws, and metallic drive screws.
Single copy price: Free
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (copy psa@ansi.org) to: Robert Ryan, ryanr@asme.org

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

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

National Adoption

BSR/INCITS/ISO/IEC 4005-1:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 1: Communication model and requirements (identical national adoption of ISO/IEC 4005-1:2023)
Describes a communication model and requirements for unmanned aircraft area network (UAAN), which is a wireless distributed communication network for units related with UA services in level II. It describes: the communication structure and operation; the purpose of the three types of communication and related services; the interoperation of the three types of communication; the interworking with upper layers.
Single copy price: $157.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: December 19, 2023

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

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

National Adoption

BSR/INCITS/ISO/IEC 4005-2:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 2: Physical and data link protocols for shared communication (identical national adoption of ISO/IEC 4005-2:2023)
Describes communication protocols for the physical and data link layer of shared communication, which is a wireless distributed communication network for units related with UAs in level II. Physical layer includes frame structure, encoding procedure, physical layer procedure and coexistence operations. Data link layer includes channel and slot, resource management, broadcast and exchange of data, synchronization, security, and interface with upper layer and other communication layers.
Single copy price: $237.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 4005-3:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 3: Physical and data link protocols for control communication (identical national adoption of ISO/IEC 4005-3:2023)
Specifies communication protocols for the physical and data link layer for control communication, which is wireless distributed communication network for units related with unmanned aircrafts (UAs) in level II. This document describes control communication, which is one-to-one communication between a UA and a controller.
Single copy price: $237.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 4005-4:2023 [202x], Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 4: Physical and data link protocols for video communication (identical national adoption of ISO/IEC 4005-4:2023)
Specifies communication protocols for the physical and data link layer of video communication, which is a wireless distributed communication network for units related with unmanned aircrafts (UAs) in level II. This document describes video communication, which is one-to-one communication that transmits video from a UA to a video receiver. For the specific use of video communication, video can be transmitted from a UA to multiple receivers.
Single copy price: $237.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: December 19, 2023

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

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

National Adoption

BSR/INCITS/ISO/IEC 5021-1:2023 [202x], Telecommunications and information exchange between systems - Wireless LAN access control - Part 1: Networking architecture (identical national adoption of ISO/IEC 5021 -1:2023)
Specifies a cloud AC-based wireless local area network (WLAN) networking architecture, defines the cloud access controller dispatch platform (CADP) operating mechanism and the interaction between the network elements such as CADPs, access points (APs), cloud access controllers (ACs) and the WLAN network management system (NMS), and specifies the main functional requirements of each network element. This document applies to public WLAN networking scenarios.
Single copy price: $77.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 18033-5:2015/AM1:2021 [202x], Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers - Amendment 1: SM9 mechanism (identical national adoption of ISO/IEC 18033-5:2015/AM1:2021)
Amendment 1 to ISO/IEC 18033-5:2015.
Single copy price: $22.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 20008-2:2013/AM1:2021 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 1 (identical national adoption of ISO/IEC 20008-2:2013/AM1:2021)
Amendment 1 to ISO/IEC 20008-2:2013.
Single copy price: $22.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: December 19, 2023

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

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

National Adoption

BSR/INCITS/ISO/IEC 20008-2:2013/AM2:2023 [202x], Information technology - Security techniques - Anonymous digital signatures - Part 2: Mechanisms using a group public key - Amendment 2 (identical national adoption of ISO/IEC 20008-2:2013/AM2:2023)
Amendment 2 to ISO/IEC 20008-2:2013.
Single copy price: $157.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 29128-1:2023 [202x], Information security, cybersecurity and privacy protection - Verification of cryptographic protocols - Part 1: Framework (identical national adoption of ISO/IEC 29128-1:2023)
Establishes a framework for the verification of cryptographic protocol specifications according to academic and industry best practices.
Single copy price: $116.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

National Adoption

BSR/INCITS/ISO/IEC 8183:2023 [202x], Information technology - Artificial intelligence - Data life cycle framework (identical national adoption of ISO/IEC 8183:2023)
Defines the stages and identifies associated actions for data processing throughout the artificial intelligence (AI) system life cycle, including acquisition, creation, development, deployment, maintenance and decommissioning. This document does not define specific services, platforms or tools. This document is applicable to all organizations, regardless of type, size or nature, that use data in the development and use of AI systems.
Single copy price: $77.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Comment Deadline: December 19, 2023

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

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

National Adoption

BSR/INCITS/ISO/IEC 29134:2023 [202x], Information technology - Security techniques - Guidelines for privacy impact assessment (identical national adoption of ISO/IEC 29134:2023 and revision of INCITS/ISO/IEC 29134:2017 [2019])
Guidelines for a process on privacy impact assessments, and a structure and content of a PIA report. It is applicable to all types and sizes of organizations, including public companies, private companies, government entities and not-for-profit organizations. This document is relevant to those involved in designing or implementing projects, including the parties operating data processing systems and services that process PII.
Single copy price: $210.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

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

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

Withdrawal

BSR/INCITS/ISO/IEC 29128:2011 [R2022], Information technology - Security techniques - Verification of cryptographic protocols (withdrawal of INCITS/ISO/IEC 29128:2011 [R2022])
Establishes a technical base for the security proof of the specification of cryptographic protocols. It specifies design evaluation criteria for these protocols, as well as methods to be applied in a verification process for such protocols. It also provides definitions of different protocol assurance levels consistent with evaluation assurance components in ISO/IEC 15408.
Single copy price: $210.00
Obtain an electronic copy from: http://webstore.ansi.org
Order from: http://webstore.ansi.org
Send comments (copy psa@ansi.org) to: Barbara Bennett <comments@standards.incits.org>

Technical Reports Registered with ANSI

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

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | cmaguwah@aami.org, www.aami.org

Reaffirmation

AAMI/ISO TIR 10993-20, Biological evaluation of medical devices - Part 20: Principles and methods for immunotoxicology testing of medical devices (reaffirmation of technical report AAMI/ISO TIR 10993-20)
AAMI/ISO/TIR 10993-20 presents an overview of immunotoxicology with particular reference to the potential immunotoxicity of medical devices. It gives guidance on methods for testing for immunotoxicity of various types of medical devices.
Send comments (copy psa@ansi.org) to: Chenai Maguwah <cmaguwah@aami.org>

Technical Reports Registered with ANSI

NEMA (ASC C12) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | Pau_orr@nema.org, www.nema.org

New Technical Report

NEMA C12.31G, Guide for the Measurement of Voltage, Current, Power, Energy and Power Factor (technical report)
This document establishes definitions of AC electrical power (active, reactive, and apparent), AC electrical energy (active, reactive, and apparent) and power factor in terms of sampled voltage and current measurements. The definitions are provided to facilitate uniform comparison of the power, energy and power factor measurement values reported by electricity meters in comparison to equipment used as reference standards that implement these definitions for the determination of meter accuracy in the time domain and frequency domain.
Send comments (copy psa@ansi.org) to: Same

Project Withdrawn

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

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Suite 1100, Washington, DC 20001-5571 | pintoi@api.org, www.api.org

BSR/API RP 2GEN/ISO 19900-202x, Petroleum and natural gas industries - General requirements for offshore structures (national adoption with modifications of ISO 19900:2013)
Send comments (copy psa@ansi.org) to: Ivan Pinto <pintoi@api.org>

NEMA (ASC C12) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 | Pau_orr@nema.org, www.nema.org

BSR C12.31-202x, Electricity Meters - Measurement of VA and Power Factor (new standard)
Send comments (copy psa@ansi.org) to: Paul Orr <Pau_orr@nema.org>

Withdrawal of an ANS by ANSI-Accredited Standards Developer

In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

ANSI/HL7 V3 RXCMET, R1-2014 (R2019), HL7 Version 3 Standard: Pharmacy CMETs, Release 1 (reaffirmation of ANSI/HL7 V3 RXCMET, R1-2014)
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karen Van Hentenryck <Karenvan@HL7.org>

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

ANSI/HL7 V3 RXMDSEVNT, R2-2014 (R2019), HL7 Version 3 Standard: Pharmacy; Medication Dispense and Supply Event, Release 2 (reaffirmation of ANSI/HL7 V3 RXMDSEVNT, R2-2014)
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karen Van Hentenryck <Karenvan@HL7.org>

Withdrawal of an ANS by ANSI-Accredited Standards Developer

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

ANSI/HL7 V3 RXMEDORDER, R2-2014 (R2019), HL7 Version 3 Standard: Pharmacy; Medication Order, Release 2 (reaffirmation of ANSI/HL7 V3 RXMEDORDER, R2-2014)
Send comments (copy psa@ansi.org) to: Questions may be directed to: Karen Van Hentenryck <Karenvan@HL7.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.

ASME (American Society of Mechanical Engineers)

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

ANSI/ASME PTC 25-2023, Performance Test Codes - Pressure Relief Devices (revision of ANSI/ASME PTC 25-2018) Final Action Date: 10/16/2023 | *Revision*

AWC (American Wood Council)

222 Catoctin Circle , Suite 201, Leesburg, VA 20175 | bdouglas@awc.org, www.awc.org

ANSI/AWC NDS-2024, National Design Specification® for Wood Construction (revision and redesignation of ANSI/AWC NDS-2018) Final Action Date: 10/16/2023 | *Revision*

CTA (Consumer Technology Association)

1919 South Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

ANSI/CTA 2107-A-2023, The Use of Artificial Intelligence in Health Care: Managing, Characterizing, and Safeguarding Data (revision and redesignation of ANSI/CTA 2107-2022) Final Action Date: 10/13/2023 | *Revision*

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

ANSI/EIA 887-B-2023, Thin Film Resistor Network Specification (revision and redesignation of ANSI/EIA 887-A-2015) Final Action Date: 10/12/2023 | *Revision*

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

1750 K Street NW, Suite 460, Washington, DC 20006 | chris.merther@itsdf.org, www.indtrk.org

ANSI/ITSDF B56.11.5-2014 (R2023), Measurement of Sound Emitted by Low Lift, High Lift, and Rough Terrain Powered Industrial Trucks (reaffirmation of ANSI/ITSDF B56.11.5-2014 (R2018)) Final Action Date: 10/10/2023 | *Reaffirmation*

ANSI/ITSDF B56.11.8-2023, Seat Belt (Lap-Type) Anchorage Systems for Powered Industrial Trucks (revision of ANSI/ITSDF B56.11.8-2019) Final Action Date: 10/10/2023 | *Revision*

ANSI/ITSDF B56.11.1-2012 (R2018), Double Race or Bi-Level Swivel and Rigid Industrial Casters (withdrawal of ANSI/ITSDF B56.11.1-2012 (R2018)) Final Action Date: 10/10/2023 | *Withdrawal*

NSF (NSF International)

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

ANSI/NSF 14-2023 (i130r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2022) Final Action Date: 10/12/2023 | *Revision*

ANSI/NSF 14-2023 (i135r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2022) Final Action Date: 10/10/2023 | *Revision*

ANSI/NSF 14-2023 (i136r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2022) Final Action Date: 10/10/2023 | *Revision*

ANSI/NSF 455-1-2023 (i5r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2018) Final Action Date: 10/4/2023 | *Revision*

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | rbrooker@nsf.org, www.nsf.org

ANSI/NSF 455-1-2023 (i7r1), Terminology for the NSF 455 Portfolio of Standards (revision of ANSI/NSF 455-1-2018) Final Action Date: 10/10/2023 | *Revision*

ANSI/NSF/CAN 61-2023 (i167r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61 -2022) Final Action Date: 10/7/2023 | *Revision*

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

100 Clemson Research Blvd., Anderson, SC 29625 | KSimpson@tileusa.com, www.tcnatile.com

ANSI A108.1A-2023, Installation of Ceramic Tile in the Wet-Set Method, with Portland Cement Mortar (revision of ANSI A108.1A-2017 (R2022)) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.1B-2023, Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set, Modified Dry-Set, or Improved Modified Dry-Set Cement Mortar (revision of ANSI A108.1B-2017) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.1C-2023, Contractors Option: Installation of Ceramic Tile in the Wet-Set Method with Portland Cement Mortar or Installation of Ceramic Tile on a Cured Portland Cement Mortar Setting Bed with Dry-Set, Modified Dry-Set, or Improved Modified Dry-Set Cement Mortar (revision of ANSI A108.1C-1999 (R2021)) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.02-2023, General Requirements: Workmanship for Tile Installation (revision of ANSI A108.02-2019) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.4-2023, Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive (revision of ANSI A108.4-2019) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.5-2023, Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar (revision of ANSI A108.5-2021) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.6-2023, Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy (revision of ANSI A108.6-1999 (R2019)) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.9-2023, Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout (revision of ANSI A108.9 -1999 (R2019)) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.11-2023, Interior Installation of Cementitious Backer Units (revision of ANSI A108.11-2018) Final Action Date: 10/13/2023 | *Revision*

ANSI A108.12-2023, Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Modified Dry-Set Mortar (revision of ANSI A108.12-1999 (R2019)) Final Action Date: 10/13/2023 | *Revision*

ANSI A118.4-2023, Specifications for Modified Dry-Set Cement Mortar (revision of ANSI A118.4-2019) Final Action Date: 10/13/2023 | *Revision*

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Jonette.A.Herman@ul.org, https://ulse.org/

ANSI/UL 60335-2-29-2023, Standard for Household and Similar Electrical Appliances - Safety - Part 2-29: Particular Requirements for Battery Chargers (national adoption of IEC 60335-2-29 with modifications and revision of ANSI/UL 60335-2-29-2020) Final Action Date: 9/29/2023 | *National Adoption*

ULSE (UL Standards & Engagement)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, https://ulse.org/

ANSI/UL 62841-4-6-2023, UL Standard for Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-6: Particular requirements for garden blowers, garden vacuums and garden blower/vacuums (identical national adoption of IEC 62841-4-6) Final Action Date: 9/29/2023 | *National Adoption*

ANSI/UL 1201-2018 (R2023), Standard For Safety for Sensor Operated Backwater Prevention Systems (reaffirmation of ANSI/UL 1201-2018) Final Action Date: 10/11/2023 | *Reaffirmation*

ANSI/UL 61010-2-010-2019 (R2023), Standard for Safety for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-010: Particular Requirements for Laboratory Equipment for the Heating of Materials (reaffirmation of ANSI/UL 61010-2-010-2019) Final Action Date: 9/29/2023 | *Reaffirmation*

ANSI/UL 61010-2-051-2019 (R2023), Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-051: Particular Requirements for Laboratory Equipment for Mixing and Stirring (reaffirmation of ANSI/UL 61010-2-051-2019) Final Action Date: 9/29/2023 | *Reaffirmation*

ANSI/UL 61010-2-061-2019 (R2023), Standard for Safety for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-061: Particular Requirements for Laboratory Atomic Spectrometers with Thermal Atomization and Ionization (reaffirmation of ANSI/UL 61010-2-061-2019) Final Action Date: 9/29/2023 | *Reaffirmation*

ANSI/UL 174-2023, Standard for Safety for Household Electric Storage Tank Water Heaters (revision of ANSI/UL 174 -2021) Final Action Date: 10/12/2023 | *Revision*

ANSI/UL 864-2023, Standard for Safety for Control Units and Accessories for Fire Alarm Systems (revision of ANSI/UL 864-2020) Final Action Date: 10/9/2023 | *Revision*

ANSI/UL 1256-2023, Standard for Fire Test of Roof Deck Constructions (revision of ANSI/UL 1256-2013 (R2018)) Final Action Date: 10/11/2023 | *Revision*

Call for Members (ANS Consensus Bodies)

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

ANSI Accredited Standards Developer

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

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

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

Membership in the INCITS Executive Board is open to all directly and materially interested parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, contact Jennifer Garner at jgarner@itic.org or visit http://www.incits.org/participation/membership-info for more information.
Membership in all interest categories is always welcome; however, the INCITS Executive Board seeks to broaden its membership base in the following underrepresented categories:

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

SCTE, an ANSI-accredited SDO, is the primary organization for the creation and maintenance of standards for the cable telecommunications industry. SCTE's standards mission is to develop standards that meet the needs of cable system operators, content providers, network and customer premises equipment manufacturers, and all others who have an interest in the industry through a fair, balanced and transparent process.
SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.
Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures.
More information is available at www.scte.org or by e-mail from standards@scte.org.

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI ST40, Ed. 2 (R202x), Table-top dry heat (heated air) sterilization and sterility assurance in health care facilities (reaffirmation of ANSI/AAMI ST40-2004 (R2018))

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI ST50, Ed. 2 (R202x), Dry heat (heated air) sterilizers (reaffirmation of ANSI/AAMI ST50-2004 (R2018))

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI/ISO 11607-1-202x/A1, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging systems - Amendment 1 (identical national adoption of ISO 11607 -1:2019/Amd 1:2023)

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI/ISO 11607-2-202x/A1, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes - Amendment 1 (identical national adoption of ISO 11607-2:2019/Amd 1:2023)

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI/ISO 17665, Sterilization of health care products - Moist heat - Requirements for the development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 17665:202X, Ed. 2)

AAMI (Association for the Advancement of Medical Instrumentation)

901 N. Glebe Road, Arlington, VA 22203 | mmiskell@aami.org, www.aami.org

BSR/AAMI/ISO 22441-202x, Sterilization of health care products - Low temperature vaporized hydrogen peroxide - Requirements for the development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 22441:2022)

ACP (American Clean Power Association)

1501 M Street NW, Suite 1000, Washington, DC 22205 | dbrown@cleanpower.org, www.cleanpower.org

BSR/ACP OCRP-5-202x, Recommended Practice for Design, Deployment, and Operation of Submarine Cable in the United States (new standard)

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Washington, DC 20001 | ridgwayg@api.org, www.api.org

BSR/API Spec 19AC-202X, Completion Accessories (national adoption of ISO 14998:2013 with modifications and revision of ANSI/API Specification 19AC/ISO 14998, 1st Edition-2016 (R2022))

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Washington, DC 20001 | ridgwayg@api.org, www.api.org

BSR/API Spec 19SS-202X, Sand Screens (national adoption of ISO 17824:2009 with modifications and revision of ANSI/API Specification 19SS/ISO 17824:2010)

ASA (ASC S1) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR/S1.11/Part 1/IEC 61260-1-2014 (R202x), Standard Electroacoustics - Octave-band and Fractional-octave-band Filters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.11-2014/Part 1/IEC 61260-1-2014 (R2019))

ASA (ASC S3) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org

BSR/ASA S3.55-2014/Part 5/IEC 60318-5:2006 (MOD) (R202x), Standard Electroacoustics - Simulators of Human Head and Ear - Part 5: 2 cm2 Coupler for the Measurement of Hearing Aids and Earphones Coupled to the Ear by Means of Ear Inserts. (a modified nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S3.55-2014/Part 5/IEC 60318-5:2006 (MOD) (R2019))

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | kbulger@aws.org, www.aws.org

BSR/AWS D14.0/D14.0M-202x, Machinery and Equipment Welding Specification (revision of ANSI/AWS D14.0/D14.0M-2023)

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | kbulger@aws.org, www.aws.org

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 364-65C-202x, Mixed Flowing Gas Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-65B-2009 (R2020))

EOS/ESD (ESD Association, Inc.)

218 W. Court Street, Rome, NY 13440 | jkirk@esda.org, https://www.esda.org

BSR/ESD STM3.1-2015 (R202x), ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Ionization (reaffirmation of ANSI/ESD STM3.1-2015)

ISA (International Society of Automation)

3252 S. Miami Blvd, Suite 102, Durham, NC 27703 | ebrazda@isa.org, www.isa.org

BSR/ISA 67.04.01-202x, Setpoints for Nuclear Safety-Related Instrumentation (revision of ANSI/ISA 67.04.01 -2018)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

BSR/INCITS/ISO/IEC 29128:2011 [R2022], Information technology - Security techniques - Verification of cryptographic protocols (withdrawal of INCITS/ISO/IEC 29128:2011 [R2022])

NAAMM (National Association of Architectural Metal Manufacturers)

1533 Pine Grove Lane, Chesapeake, VA 23321 | ifnaamm@gmail.com, www.naamm.org

BSR/NAAMM HMMA 862-202x, Guide Specifications for Forced Entry/Bullet Resistant (FE/BR) Security Hollow Metal Doors and Frames (revision of ANSI/NAAMM HMMA 862-2023)

NAAMM (National Association of Architectural Metal Manufacturers)

1533 Pine Grove Lane, Chesapeake, VA 23321 | ifnaamm@gmail.com, www.naamm.org

BSR/NAAMM HMMA 865-202x, Guide Specifications for Sound Control Hollow Metal Doors and Frame Assemblies (new standard)

NECA (National Electrical Contractors Association)

1201 Pennsylvania Avenue, Suite 1200, Washington, DC 20004 | Kyle.Krueger@necanet.org, www.neca-neis.org

BSR/NECA 1-202X, Standard for Good Workmanship in Electrical Construction (revision of ANSI/NECA 1-2023)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org

BSR/NSF 3-202x (i10r2), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2021)

NSF (NSF International)

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

BSR/NSF 14-202x (i134r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14 -2022)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | arose@nsf.org, www.nsf.org

BSR/NSF 49-202x (i190r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2022)

NSF (NSF International)

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

BSR/NSF/CAN 50-202x (i203r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2023)

NSF (NSF International)

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

BSR/NSF/CAN 50-202x (i130r5.1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF/CAN 50-2021)

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | mleslie@nsf.org, www.nsf.org

BSR/NSF/CAN 61-202x (i174r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2022)

TIA (Telecommunications Industry Association)

1320 North Courthouse Road, Suite 200, Arlington, VA 22201-2598 | standards-process@tiaonline.org, www.tiaonline.org

BSR/TIA 942-C-202x, Telecommunications Infrastructure Standard for Data Centers (revision and redesignation of ANSI/TIA 942-B-2017, ANSI/TIA 942-B-1-2022)

ULSE (UL Standards & Engagement)

333 Pfingsten Road, Northbrook, IL 60062-2096 | mitchell.gold@ul.org, https://ulse.org/

BSR/UL 1976-202x, Standard for Crimp Tools for Use with Connecting Devices (new standard)

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 linkis 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 Essential Requirements: Due process requirements for American National Standards (always current edition):

www.ansi.org/essentialrequirements

• ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures):

www.ansi.org/standardsaction

• Accreditation information – for potential developers of American National Standards (ANS):

www.ansi.org/sdoaccreditation

• ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form):

www.ansi.org/asd

• Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS:

www.ansi.org/asd

• American National Standards Key Steps:

www.ansi.org/anskeysteps

• American National Standards Value:

www.ansi.org/ansvalue

• ANS Web Forms for ANSI-Accredited Standards Developers:

https://www.ansi.org/portal/psawebforms/

• Information about standards Incorporated by Reference (IBR):

https://ibr.ansi.org/

• ANSI - Education and Training:

www.standardslearn.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

November and December 2023 Virtual Meetings

The Joint Binational (U.S. and Canada) Technical Committee for Carbon Intensity of Hydrogen will hold a committee meeting on the following dates:

November 14th, 2023 at 1 PM - 4 PM ET WebEx meeting
For more information contact Anna Copeland, CSA Group at anna.copeland@csagroup.org

December 12th, 2023 at 1 PM - 4 PM ET WebEx meeting
For more information contact Anna Copeland, CSA Group at anna.copeland@csagroup.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)

NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)

NCPDP (National Council for Prescription Drug Programs)

NEMA (National Electrical Manufacturers Association)

NFRC (National Fenestration Rating Council)

NISO (National Information Standards Organization)

NSF (NSF International)

PRCA (Professional Ropes Course Association)

RESNET (Residential Energy Services Network, Inc.)

SAE (SAE International)

TCNA (Tile Council of North America)

TIA (Telecommunications Industry Association)

TMA (The Monitoring Association)

ULSE (UL Standards & Engagement)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, 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.

AAFS
American Academy of Forensic Sciences
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ASHRAE
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ASME
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Two Park Avenue, M/S 6-2B
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Terrell Henry
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AWC
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222 Catoctin Circle , Suite 201
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Bradford Douglas
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AWS
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8669 NW 36th Street, Suite 130
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CTA
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3252 S. Miami Blvd, Suite 102
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ITI (INCITS)
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ITSDF
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Christopher Merther
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NAAMM
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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

Agricultural food products (TC 34)

ISO/DIS 18716, Professional farmer organization - Guidelines - 12/28/2023, $58.00

Aircraft and space vehicles (TC 20)

ISO/DIS 17981, Space systems - CubeSat interface - 1/1/2024, $93.00

Biotechnology (TC 276)

ISO/DIS 24479, Biotechnology - Cellular morphological analysis - General requirements and considerations for cell morphometry to quantify cell morphological features - 12/30/2023, $112.00

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

ISO/DIS 13628-1, Oil and gas industries including low carbon energy - Design and operation of subsea production systems - Part 1: General requirements and recommendations - 12/30/2023, $119.00

Other

ISO/DIS 3379, Leather - Determination of distension and strength of surface (Ball burst method) - 12/28/2023, $40.00

Petroleum products and lubricants (TC 28)

ISO/DIS 10050, Lubricants, industrial oils and related products (class L) - Family T (Turbines) - Specifications of triaryl phosphate ester turbine control fluids (category ISO-L-TCD) - 12/30/2023, $40.00

Powder metallurgy (TC 119)

ISO/DIS 13947, Metallic powders - Test method for the determination of non-metallic inclusions in metal powders using a powder-forged specimen - 1/4/2024, $40.00

Small craft (TC 188)

ISO/DIS 16315, Small craft - Electrical systems used for electrical propulsion - 12/31/2023, $93.00

Terminology (principles and coordination) (TC 37)

ISO/DIS 5078, Management of terminology resources - Terminology extraction - 12/29/2023, $88.00

Tourism and related services (TC 228)

ISO/DIS 9468, Tourism and related services - Online travel agency (OTA) - Guidelines for online accommodation booking platform services - 12/30/2023, $62.00

Tractors and machinery for agriculture and forestry (TC 23)

ISO/DIS 20599, Forestry machinery - Manually portable (hand-held) powered lawn and garden equipment and forest machinery - Engine performance and fuel consumption - 12/29/2023, $40.00

Welding and allied processes (TC 44)

ISO 7287:2002/DAmd 1, - Amendment 1: Graphical symbols for thermal cutting equipment - Amendment 1 - 1/1/2024, $29.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 17839-2, Information technology - Biometric System-on-Card - Part 2: Physical characteristics - 12/30/2023, $62.00

ISO/IEC DIS 19785-4.2, Information technology - Common biometric exchange formats framework - Part 4: Security block format specifications - 10/21/2023, $82.00

IEC Standards

All-or-nothing electrical relays (TC 94)

94/954/CDV, IEC 61810-7-29 ED1: Electrical relays - Tests and Measurements - Part 7-29: Capacitance, 01/05/2024

94/955/CDV, IEC 61810-7-31 ED1: Electrical relays - Tests and Measurements - Part 7-31: Magnetic Remanence, 01/05/2024

94/956/CDV, IEC 61810-7-32 ED1: Electrical relays - Tests and Measurements - Part 7-32: Acoustic Noise, 01/05/2024

94/953/CDV, IEC 61810-7-9 ED1: Electrical relays - Tests and Measurements - Part 7-9: Climatic tests, 01/05/2024

Electrical apparatus for explosive atmospheres (TC 31)

31M/211/CD, ISO/IEC 80079-38 ED2: Explosive atmospheres - Part 38: Equipment and components in explosive atmospheres in underground mines, 01/05/2024

Electrical equipment in medical practice (TC 62)

62D/2096/FDIS, IEC 80601-2-58 ED3: Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery, 11/24/2023

62D/2085A(F)/FDIS, IEC 80601-2-78/AMD1 ED1: Amendment 1 - Medical electrical equipment - Part 2-78: Particular requirements for basic safety and essential performance of medical robots for rehabilitation, assessment, compensation or alleviation, 11/10/2023

Electrical installations of buildings (TC 64)

64/2642/CD, IEC 60364-6 ED3: Low voltage electrical installations - Part 6: Verification, 02/02/2024

Fibre optics (TC 86)

86A/2390/NP, PNW 86A-2390 ED1: Optical fibre cables - Part 1 -136: Generic specification - Basic optical cable test procedures - Determination of the maximum applicable push force during cable installation by blowing, 01/05/2024

Fluids for electrotechnical applications (TC 10)

10/1207/FDIS, IEC 60567 ED5: Oil-filled electrical equipment - Sampling of free gases and analysis of free and dissolved gases in mineral oils and other insulating liquids - Guidance, 11/24/2023

Hydraulic turbines (TC 4)

4/479/CD, IEC 63230 ED1: Fatigue assessment of hydraulic turbine runners: from design to quality assurance, 01/05/2024

Laser equipment (TC 76)

76/746/DTS, IEC TS 60825-19 ED1: Safety of laser products - Part 19: Moving platform laser products, 12/08/2023

76/745/NP, PNW TS 76-745 ED1: Safety of Laser Products - Part 21: Automatic Emission Control (AEC), 01/05/2024

Lightning protection (TC 81)

81/735/CDV, IEC 62305-3 ED3: Protection against lightning - Part 3: Physical damage to structures and life hazard, 12/08/2023

81/738(F)/FDIS, IEC 62561-5 ED3: Lightning protection system components (LPSC) - Part 5: Requirements for earth electrode inspection housings and earth electrode seals, 11/03/2023

Magnetic components and ferrite materials (TC 51)

51/1459/CD, IEC 63093-15 ED1: Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 15: U-cores, 01/05/2024

Maritime navigation and radiocommunication equipment and systems (TC 80)

80/1094(F)/FDIS, IEC 61162-450 ED3: Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection, 10/27/2023

Power electronics (TC 22)

22G/479/CD, IEC 61800-5-2/AMD1 ED2: Amendment 1 - Adjustable speed electrical power drive systems - Part 5-2: Safety requirements - Functional, 01/05/2024

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

116/693/FDIS, IEC 62841-3-4/AMD2 ED1: Amendment 2 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders, 11/24/2023

Safety of household and similar electrical appliances (TC 61)

61/7011(F)/FDIS, IEC 60335-2-109 ED2: Household and similar electrical appliances - Safety - Part 2-109: Particular requirements for UV radiation water treatment appliances, 10/27/2023

61/7010(F)/FDIS, IEC 60335-2-122 ED1: Household and similar electrical appliances - Safety - Part 122: Particular requirements for commercial washing machines, 10/27/2023

61/7007(F)/FDIS, IEC 60335-2-41 ED5: Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps, 10/27/2023

61/7008(F)/FDIS, IEC 60335-2-51 ED5: Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations, 10/27/2023

61/7012(F)/FDIS, IEC 60335-2-65 ED3: Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances, 10/27/2023

61/7016(F)/FDIS, IEC 60335-2-97 ED4: Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment, 11/03/2023

Semiconductor devices (TC 47)

47F/451/CD, IEC 62047-4 ED2: Semiconductor devices - Micro-electromechanical devices - Part 4: Generic specification for MEMS, 01/05/2024

Solar photovoltaic energy systems (TC 82)

82/2186/NP, PNW TS 82-2186 ED1: Photovoltaic (PV) module safety qualification for DC system voltage up to 3 000 V DC - Part 1: Requirements for construction, 12/08/2023

82/2187/NP, PNW TS 82-2187 ED1: Photovoltaic (PV) module safety qualification for DC system voltage up to 3 000 V DC - Part 2: Requirements for testing, 12/08/2023

Standard voltages, current ratings and frequencies (TC 8)

8C/86/CD, IEC TR 63530 ED1: Market Catalogue for Stable Grid Operation, 01/05/2024

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

121B/190/CD, IEC TS 61641 ED1: Low-voltage switchgear and controlgear assemblies - Internal arc-fault protection of power switchgear and controlgear assemblies (PSC-assemblies according to IEC 61439-2), 01/05/2024

(TC 127)

127/50/CD, IEC TS 63346-2-1 ED1: Low-voltage auxiliary power systems - Part 2-1: Design criteria - General requirements, 01/05/2024

Winding wires (TC 55)

55/2010/NP, PNW TS 55-2010 ED1: Winding wires - Test methods - Electrical endurance under high frequency voltage impulses, 01/05/2024

Newly Published ISO & IEC Standards

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

ISO Standards

Agricultural food products (TC 34)

ISO 7251:2005/Amd 1:2023, - Amendment 1: Microbiology of food and animal feeding stuffs - Horizontal method for the detection and enumeration of presumptive Escherichia coli - Most probable number technique - Amendment 1: Inclusion of performance testing of culture media and reagents, $22.00

ISO 8024:2023, Concentrated black mulberry juice - Specifications, $51.00

Aircraft and space vehicles (TC 20)

ISO 27025:2023, Space systems - Programme management - Product quality assurance requirements, $210.00

ISO 14624-1:2023, Space systems - Safety and compatibility of materials - Part 1: Determination of upward flammability of materials, $157.00

ISO 14624-2:2023, Space systems - Safety and compatibility of materials - Part 2: Determination of flammability of electrical-wire insulation and accessory materials, $157.00

ISO 14624-3:2023, Space systems - Safety and compatibility of materials - Part 3: Determination of off-gassed compounds from materials and assembled articles, $116.00

Building environment design (TC 205)

ISO 11855-3:2021/Amd 1:2023, - Amendment 1: Building environment design - Embedded radiant heating and cooling systems - Part 3: Design and dimensioning - Amendment 1, $22.00

Cleanrooms and associated controlled environments (TC 209)

ISO 14644-18:2023, Cleanrooms and associated controlled environments - Part 18: Assessment of suitability of consumables, $210.00

Dentistry (TC 106)

ISO 4865-1:2023, Dentistry - General requirements of hand instruments - Part 1: Non-hinged hand instruments, $51.00

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

ISO 34000:2023, Date and time - Vocabulary, $51.00

Information and documentation (TC 46)

ISO 21127:2023, Information and documentation - A reference ontology for the interchange of cultural heritage information, $263.00

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

ISO 25457:2023, Oil and gas industries including lower carbon energy - Flare details for general refinery and petrochemical service, $51.00

ISO 13703-2:2023, Oil and gas industries including lower carbon energy - Piping systems on offshore platforms and onshore plants - Part 2: Materials, $263.00

Mechanical testing of metals (TC 164)

ISO 6507-1:2023, Metallic materials - Vickers hardness test - Part 1: Test method, $183.00

Metallic and other inorganic coatings (TC 107)

ISO 8181:2023, Atomic layer deposition - Vocabulary, $51.00

Microbeam analysis (TC 202)

ISO 29301:2023, Microbeam analysis - Analytical electron microscopy - Methods for calibrating image magnification by using reference materials with periodic structures, $210.00

Paints and varnishes (TC 35)

ISO 4628-6:2023, Paints and varnishes - Evaluation of quantity and size of defects, and of intensity of uniform changes in appearance - Part 6: Assessment of degree of chalking by tape method, $51.00

Petroleum products and lubricants (TC 28)

ISO 11158:2023, Lubricants, industrial oils and related products (class L) - Family H (hydraulic systems) - Specifications for categories HH, HL, HM, HV and HG, $157.00

Plastics (TC 61)

ISO 14126:2023, Fibre-reinforced plastic composites - Determination of compressive properties in the in-plane direction, $183.00

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

ISO 2505:2023, Thermoplastics pipes - Longitudinal reversion - Test method and parameters, $51.00

Road vehicles (TC 22)

ISO 22241-4:2023, Diesel engines - NOx reduction agent AUS 32 - Part 4: Refilling interface, $116.00

Springs (TC 227)

ISO 26910-1:2023, Springs - Shot peening - Part 1: General procedures, $116.00

Textiles (TC 38)

ISO 5533:2023, Textiles - Quantification of carbon fibre constituent element - Elemental analyser method, $51.00

Tobacco and tobacco products (TC 126)

ISO 9322:2023, Material used for producing wrappings for cigarette filters, cigarettes and other tobacco products - Determination of acetate and citrate content - Ion chromatographic method, $77.00

Water quality (TC 147)

ISO 4722-1:2023, Water quality - Thorium 232 - Part 1: Test method using alpha spectrometry, $116.00

ISO Technical Specifications

Collaborative business relationship management -- Framework (TC 286)

ISO/TS 44006:2023, Collaborative business relationship management - Guidelines for university-business collaboration, $116.00

Industrial automation systems and integration (TC 184)

ISO/TS 10303-4439:2023, Industrial automation systems and integration - Product data representation and exchange - Part 4439: Application domain model: Product life cycle support, $263.00

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 6114:2023, Cybersecurity - Security considerations throughout the product life cycle, $210.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 10373-1:2020/Amd 1:2023, - Amendment 1: Cards and security devices for personal identification - Test methods - Part 1: General characteristics - Amendment 1: Clarification of peel strength test method to be used for ISO/IEC 7810 conformance testing, $22.00

ISO/IEC 15444-8:2023, Information technology - JPEG 2000 image coding system - Part 8: Secure JPEG 2000, $263.00

ISO/IEC 23003-4:2020/Amd 2:2023, - Amendment 2: Information technology - MPEG audio technologies - Part 4: Dynamic range control - Amendment 2: Loudness leveling, $22.00

IEC Standards

Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)

IEC 61196-8-1 Ed. 2.0 en:2023, Coaxial communication cables - Part 8-1: Blank detail specification for semi-flexible cables with fluoropolymer dielectric, $51.00

IEC 61196-9-1 Ed. 2.0 en:2023, Coaxial communication cables - Part 9-1: Blank detail specification for flexible RF coaxial cables, $51.00

Lightning protection (TC 81)

IEC 62561-4 Ed. 3.0 b:2023, Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners, $190.00

S+ IEC 62561-4 Ed. 3.0 en:2023 (Redline version), Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners, $247.00

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

IEC 61095 Ed. 3.0 b:2023, Electromechanical contactors for household and similar purposes, $481.00

S+ IEC 61095 Ed. 3.0 en:2023 (Redline version), Electromechanical contactors for household and similar purposes, $625.00

Accreditation Announcements (U.S. TAGs to ISO)

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

TC 347, Data-Driven Agrifood Systems

Comment Deadline: November 20, 2023

The American Society of Agricultural and Biological Engineers (ASABE) has submitted an Application for Accreditation for a new proposed U.S. Technical Advisory Group (TAG) to ISO TC 347, Data-Driven Agrifood Systems, and a request for approval as TAG Administrator. The proposed TAG intends to operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. To obtain a copy of the TAG application or to offer comments, please contact: Scott Cedarquist, American Society of Agricultural and Biological Engineers: 2950 Niles Road St. Joseph, MI 49085-9659, P: (269) 429-0300 Ext 331 E: cedarq@asabe.org. Please submit any comments to ASABE by November 20, 2023 (please copy (jthompso@ANSI.org)

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 34/SC 17 – Management systems for food safety

ANSI has been informed that the American Society of Agricultural and Biological Engineers (ASABE), the ANSI-accredited U.S. TAG Administrator for ISO/TC 34/SC 17, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 34/SC 17 operates under the following scope:

Standardization in the field of food safety management systems, covering the food supply chain from primary production to consumption, human and animal foodstuffs as well as animal and vegetable propagation materials.

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

ISO Proposal for a New Field of ISO Technical Activity

Consumer protection – privacy by design for consumer goods and services

Comment Deadline: November 17, 2023

ISO Project Committee 317 (Consumer protection – privacy by design for consumer goods and services) has submitted a proposal to expand its work program and convert the PC into a new ISO technical committee, with the following scope statement:

Standardization of consumer protection in the field of privacy by design for products, including goods, services, and data lifecycles enabled by such products.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on **Friday, November 17, 2023**.

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 alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

Public Review

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, trade associations, U.S domiciled standards development organizations and conformity assessment bodies, consumers, or U.S. government agencies may be interested in proposed foreign technical regulations notified by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to notify to the WTO Secretariat in Geneva, Switzerland proposed technical regulations that may significantly affect trade. In turn, the Secretariat circulates the notifications along with the full texts. The purpose of the notification requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final. The USA Enquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Enquiry Point relies on the WTO's ePing SPS&TBT platform to distribute the notified proposed foreign technical regulations (notifications) and their full texts available to U.S. stakeholders. Interested U.S. parties can register with ePing to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. The USA WTO TBT Enquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance prior to submitting comments. For non-notified foreign technical barriers to trade for non-agricultural products, stakeholders are encouraged to reach out as early as possible to the Office of Trade Agreements Negotiations and Compliance (TANC) in the International Trade Administration (ITA) at the Department of Commerce (DOC), which specializes in working with U.S. stakeholders to remove unfair foreign government-imposed trade barriers. The U.S. Department of Agriculture's Foreign Agricultural Service actively represents the interests of U.S. agriculture in the WTO committees on Agriculture, Sanitary and Phytosanitary (SPS) measures and Technical Barriers to Trade (TBT). FAS alerts exporters to expected changes in foreign regulations concerning food and beverage and nutrition labeling requirements, food packaging requirements, and various other agriculture and food related trade matters. Working with other Federal agencies and the private sector, FAS coordinates the development and finalization of comments on measures proposed by foreign governments to influence their development and minimize the impact on U.S. agriculture exports. FAS also contributes to the negotiation and enforcement of free trade agreements and provides information about tracking regulatory changes by WTO Members. The Office of the United States Trade Representative (USTR) WTO & Multilateral Affairs (WAMA) office has responsibility for trade discussions and negotiations, as well as policy coordination, on issues related technical barriers to trade and standards-related activities.

Online Resources:
WTO's ePing SPS&TBT platform: https://epingalert.org/
Register for ePing: https://epingalert.org/en/Account/Registration
WTO committee on Agriculture, Sanitary and Phytosanitary (SPS) measures:
https://www.wto.org/english/tratop_e/sps_e/sps_e.htm
WTO Committee on Technical Barriers to Trade (TBT): https://www.wto.org/english/tratop_e/tbt_e/tbt_e.htm
USA TBT Enquiry Point: https://www.nist.gov/standardsgov/usa-wto-tbt-enquiry-point
Comment guidance:
https://www.nist.gov/standardsgov/guidance-us-stakeholders-commenting-notifications-made-wto-members-tbt-committee
NIST: https://www.nist.gov/
TANC: https://www.trade.gov/office-trade-agreements-negotiation-and-compliance-tanc
Examples of TBTs: https://tcc.export.gov/report_a_barrier/trade_barrier_examples/index.asp.
Report Trade Barriers: https://tcc.export.gov/Report_a_Barrier/index.asp.
USDA FAS: https://www.fas.usda.gov/about-fas
FAS contribution to free trade agreements: https://www.fas.usda.gov/topics/trade-policy/trade-agreements
Tracking regulatory changes: https://www.fas.usda.gov/tracking-regulatory-changes-wto-members
USTR WAMA: https://ustr.gov/trade-agreements/wto-multilateral-affairs/wto-issues/technical-barriers-trade
Contact the USA TBT Enquiry Point at (301) 975-2918; E usatbtep@nist.gov or notifyus@nist.gov.

BSR/ASHRAE Addendum h
to ANSI/ASHRAE Standard 62.2-2022

Public Review Draft

Proposed Addendum h to Standard 62.2-2022, Ventilation and Acceptable Indoor Air Quality in Residential Buildings

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

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at 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

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

FOREWORD

This addendum would add language in the scope to describe that IAQ may be unacceptable even if all requirements are met, because of contaminant transport from adjacent spaces. The proposed addition is to recognize the impact of adjacent spaces on dwelling unit IAQ.

[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 h to 62.2-2022

Revise Section 2 Scope as shown below.

1. PURPOSE

This standard defines the roles and minimum requirements for mechanical and natural ventilation systems and other measures intended to provide acceptable indoor air quality (IAQ) in individual dwelling units.

2. SCOPE

This standard applies to dwelling units in residential occupancies in which the occupants are nontransient.

2.1 This standard considers chemical, physical, and biological contaminants that can affect air quality. Thermal comfort requirements are not included in this standard.

Informative Note: See ANSI/ASHRAE Standard 55, *Thermal Environmental Conditions for Human Occupancy*, for thermal comfort requirements.

2.2 While acceptable IAQ is the goal of this standard, it will not necessarily be achieved even if all requirements are met

a. because of the diversity of sources and contaminants in indoor air and the range of susceptibility in the population;
b. because of the many other factors that may affect occupant perception and acceptance of IAQ, such as air temperature, humidity, noise, lighting, and psychological stress;
c. if the ventilation air is unacceptable and this air is brought into the dwelling unit without first being cleaned;
d. because of contaminant transport from adjacent spaces;
~~d.~~ e. if the system or systems are not operated and maintained as designed; or
~~e.~~ f. when high-polluting events occur.

BSR/ASHRAE/ASHE Addendum a
to ANSI/ASHRAE/ASHE Standard 189.3-2021

Public Review Draft

Proposed Addendum a to Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities

Third Public Review (October 2023)
(Draft Shows Proposed Independent Substantive Changes to Previous Public Review Draft)

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

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ASHRAE, 180 Technology Parkway NW, Peachtree Corners, GA 30092

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

FOREWORD

This addendum addresses the issue presented by patients or residents being in beds, chairs, or required fixed positions that would make it difficult to look up or out to gain the view fenestration. Additionally, it adjusts the line-of-sight distance for the additional area generally utilized in assisted living facilities. However, proximity of staff to the patient and the typical arrangement of the nurse station to the patients is in conflict, as that would be considered an office. This provides the flexibility to the design professional to arrange for the best patient care. Providing staff views to the exterior is strongly encouraged whenever possible.

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

Addendum a to Standard 189.3-2021

Revise Section 8 as shown. The remainder of Section 8 is unchanged.

8. INDOOR ENVIRONMENTAL QUALITY

[…]

8.3.8.1 Patient and Resident Rooms. Not less than 50% of the net floor area of each patient room and resident room within hospitals and residential health, care, and support facilities shall have a direct line-of-sight to view fenestration meeting the criteria of Section 8.3.8, originating at a height of not more than 36 inches (0.9 m) above the finished floor. The line-of-sight distance to view fenestration shall not exceed 20 ft (6.1 m) and the view fenestration shall not be less than 8%~~5%~~ of the floor area.

BSR/ASHRAE/ASHE Addendum f
to ANSI/ASHRAE/ASHE Standard 189.3-2021

Public Review Draft

Proposed Addendum f to Standard 189.3-2021, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities

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

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

This proposed addendum updates the publication years of several referenced standards to the most current editions. Several hospitals in the northwestern United States have studied the clinical use of nitrous oxide in comparison to the purchase and found significant (approximately 90%) waste from the central supply system (liquid or compressed gas). Nitrous oxide is regarded as the predominant greenhouse gas for the 21st century. Nitrous oxide has a global warming potential (GWP) 300 times that of CO_2 and persist in the atmosphere for 114 years. Once common use for anesthesia, the demand for N_2O has waned considerably with the advent of new anesthetics and changes in practice. Some facilities continue to use N_2O for self-administered conscious sedation during childbirth or for pain control in emergency departments.

Note: 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 f to Standard 189.3-2021

Modify Section 11 as shown. The remainder of Section 11 is unchanged.

11. [189.3] EMISSIONS, EFFLUENT, AND POLLUTION CONTROL

[…]

11.3.1.4 Gases and Vacuum Systems

11.3.1.4 Nitrous Oxide. Where required, nitrous oxide shall only be provided via point-of-use cylinders.

[…]

Modify Section 12 as shown. The remainder of Section 12 is unchanged.

12. [189.3] NORMATIVE REFERENCES

Section numbers indicate where the reference occurs in the document.

[…]

Reference	Title	Section

[…]

ASHRAE
180 Technology Parkway NW
Peachtree Corners, GA 30092, United States
1-404-636-8400
http://www.ashrae.org

[…]

Reference	Title	Section
ANSI/ASHRAE 62.1-2022~~2019~~	Ventilation for Acceptable Indoor Air Quality	Foreword
ANSI/ASHRAE/IES 90.1-2022~~2019~~	Energy Standard for Buildings Except Low-Rise Residential Buildings	3.1, 5.3.3.1, 7.3.1, 7.4.3, 7.4.3.4, 7.4.3.6, 7.4.3.8, 7.4.6, 7.5.2
ANSI/ASHRAE/ASHE 170-2021~~2017~~	Ventilation of Health Care Facilities	7.4.3, 7.4.3.8 Exception, 8.3.1, 8.3.1.1
ANSI/ASHRAE/ICC/USGBC/IES Standard 189.1-2023~~2020~~	Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings	4.1, Sections 5 through 10

[…]

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

NSF/ANSI Standard
for Food Equipment –

Commercial Warewashing Equipment

6 Performance

6.4 Rinse Effectiveness

6.4.1 Performance Requirement

When operated in accordance with manufacturer's instructions, the rinse spray shall remove the challenge test mixture described in Normative Annex 3 from the plates.

6.4.2 Application

The following models are not required to be subjected to this test:

a) Dump and fill,
b) Pot, Pan & Utensil,
c) Glasswasher,
d) Bottlewashers,
e) Multiple tank rack conveyor,
f) Rackless conveyor.

Rationale: These models are not typically subject to poor rinsability due to soil redeposition since;

- *Dump and Fill machines discharge all wash water after each cycle.*
- *Pot, Pan and Utensil machines are mostly used for washing ware that is then used to cook or prepare food for the cooking process,*
- *Glasswashers and bottle washers are not usually encumbered with excessive food soil,*
- *Multiple tank rack conveyor models have an extra power rinse tank to help remove redeposit, and*
- *Rackless conveyor machines are usually provided with large tanks and are not often subject to soil redeposition*

6.4.3 Test Method

a) The rinse effectiveness of dishwashing machines shall be evaluated by observing the machine's rinse ability to remove the challenge test mixture, which is intended to mimic soil redeposition from wash water.

b) The warewashing machine shall be operated with only the final rinse in operation. Auxiliary rinses (if equipped) shall also be operational during evaluation.

c) The challenge test mixture and plates (Corelle Winter Frost White or equivalent) shall be prepared in accordance with Normative Annex 3.

d) The dishwashing machine shall be conditioned in accordance with the manufacturer's instructions to the manufacturer's specified pressures and temperatures.

e) The rinse cycle shall be tested at a pressure of 20 ± 2.0 psi or the manufacturer's specified pressure ± 2.0 psi, if applicable. Does not apply to models with pumped rinse. The final rinse temperature must be no more than 2° F (1° C) above the nameplate minimum.

f) A rack of challenge test mixture coated plates shall be tested through one rinse cycle.

g) The plates shall be inspected for residual challenge test mixture in a darkroom using a long wave UV light with a nominal wavelength of 366 ± 30 nm and a UV radiant intensity of 480 mW ± 30 mW. The UV light source shall have a UV irradiance of 2200 uW / cm^2 and be placed no greater than 24 in (61 cm) from the plates.

Note – The UV light specifications described here have been demonstrated to fluoresce the Fluorescein in the challenge test mixture. Other lights capable of fluorescing the Fluorescein may be used.

h) The top surface of the plates only shall be evaluated in accordance with this procedure. Any challenge test mixture remaining on the back shall be disregarded.

6.4.4 Acceptance Criteria

The top surface of the three test plates shall be free of visible challenge test mixture when observed using the UV light.

The presence of residual challenge test mixture is not grounds for immediate test failure. In the case of residual challenge test mixture on any or all of the plates, the test shall be repeated on a new set of plates per section 6.4.2.
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Normative Annex 3 – Ingredients and Procedure for Rinse Effectiveness Challenge Test Mixture

The following procedure describes the preparation and execution of challenge test mixture to be used in the evaluation of rinse effectiveness of commercial warewashing machines.

N-3.1 Ingredients

— Xanthan gum powder (Lab Quality, CAS #11138-66-2) – 0.18 oz (5.0 g)
— Distilled Water – 5.0 gal (19.2 L) at 70° ± 5° F (21° ± 3° C)
— Fluorescein, water soluble (CAS #518-47-8) – 0.004 oz (0.1 g)

N-3.1 Preparation Procedure

Thoroughly mix xanthan gum and approximately 0.26 gal (1.0 L) distilled water first with a handheld blender in a beaker to homogenize the mixture completely.

Add above mixture to remaining distilled water and Fluorescein and mix with a handheld blender until completely blended. This may take several minutes.

Allow this mixture to rest for 2 h at room temperature.

Briefly stir the mixture again prior to application to the test plates to ensure consistent blend of ingredients.

Prior to application of the Challenge Test Mixture, the plates shall be washed and rinsed five times in a hot water sanitizing dishmachine without detergent or rinse aid and dried.

Immediately prior to the application of the challenge test mixture, the mixture shall be stirred for one minute with a drill and stirrer attachment.

Plates shall be dipped in the mixture until completed submerged and placed on a peg type rack. Three plates positioned according to Figure 6 shall be used for each test. In a dark room, use the UV light to verify the presence of the challenge mixture on the plates.

The rack of test plates shall be subjected to one rinse cycle.

Once the rinse is complete, in a dark room using the UV light according to the performance testing procedures, verify the presence of any remaining challenge test mixture on the front of the plates. This evaluation must take place within 5 minutes of cycle completion.

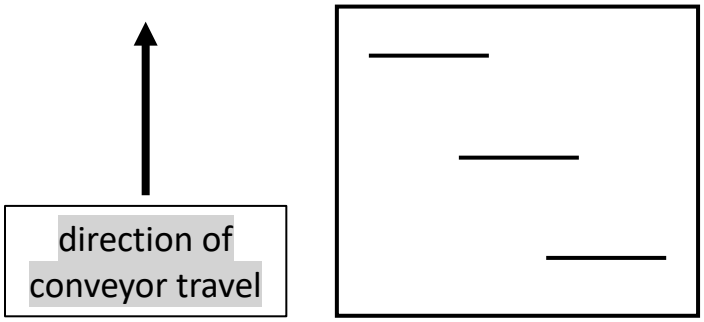

Figure 6 - Plate locations for rinse effectiveness test

Rationale*: this newly developed procedure will provide an objective means to measure how reducing rinse water volume influences the rinseability of possible soil redeposition in certain warewashing equipment.*

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

NSF/ANSI Standard
for Plastics —

Plastics Piping System Components and Related Materials

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2 Normative references

The following documents contain requirements that, by reference in this text, constitute requirements of this standard. At the time of publication, the indicated editions were valid. All of the documents are subject to revision and parties are encouraged to investigate the possibility of applying the most recent editions of the documents indicated below. ~~It is the responsibility of the user of this standard to determine the acceptance of the referenced standards to the application and requirements of the local jurisdictions~~. The most recent published edition of the document shall be used for undated references.

Rationale: removed as it is not part of the boilerplate language used in NSF Standards.

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2.1 Normative references for plastic pipe and related components

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ASTM F2263-14(2019) - *Standard Test Method for Evaluating the Oxidative Resistance of Polyethylene (PE) Pipe to Chlorinated Water*[5]

Rationale: referenced in 3.21

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ASTM F2619-20 - *Standard Specification for High-Density Polyethylene (PE) Line Pipe*[5]

Rationale: referenced in 9.11B

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CSA B181.0-21 - *Definitions, general requirements, and methods of testing for thermoplastic nonpressure piping*[7]

Rationale: referenced in Table 9.33

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NSF 358-1 - *Polyethylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems*

NSF 358-2 - *Polypropylene Pipe and Fittings for Water-Based Ground-Source "Geothermal" Heat Pump Systems*

NSF 358-3 - *Cross-linked Polyethylene (PEX) Pipe and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems*

NSF 358-4 - *Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems*

Rationale: The suite of NSF 358 standards is referenced in Table 9.35

2.2 Normative references for compounds and other materials

UL 157-96 - *Standard for Gaskets and Seals*[10]

Rationale: referenced in 9.30

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5 Physical and performance requirements

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5.7 Chlorine resistance – Oxidative equivalency requirements

For a material that already has a chlorine resistance classification (denoted original material), oxidative equivalency is required on pipe or material comprised of a different color from the original material or when the production site differs from that of the original material. When the pipe or material production site differs from that of the original material, a minimum of one color shall be selected from the production site being assessed.

This requirement does not apply to changes in color of an external, coextruded polymer layer which is separate and distinct from the pipe polymer matrix.

Qualified pipe shall meet the minimum requirements of Sections 5.7.1, ~~and~~ 5.7.2 or 5.7.3.

Rationale: Section 5.7.3 was incorporated in the 2022 version of NSF/ANSI 14, but this language was not updated to reflect the additional section.

5.7.1 Solid wall pipe with optional inner or outer polymeric layer

— three data points at one hoop stress level at one of the temperature conditions as for the original data set;

— two data points at a second hoop stress level at least 80 psi lower than the first stress level and at the same temperature conditions as for the first stress level;

— the 95% lower prediction limit (LPL) shall be calculated for the original material data at these temperatures / stress conditions; and

— all five data points (failure times) shall meet or exceed the LPL for that condition.

5.7.2 Pipe with middle polymeric layer

— five data points at one hoop stress level at the highest temperature conditions as for the original data set;

— the 95% LPL shall be calculated for the original material data at these temperatures / stress conditions; and

— all five data points (failure times) shall meet or exceed the LPL for that condition.

The hoop stress level shall be chosen so that there are no mixed mode failures. In the occurrence of such failures, the testing shall be repeated at a lower stress that would generate brittle failures.

5.7.3 Pipe with middle metal layer

— two data points at the highest pressure/temperature conditions (for example 115 °C/60 psi) as for the solid wall data set;

— two data points at a pressure condition higher than above but at the next lower temperature condition (for example 105 °C/80 psi) as for the solid wall data set. Pressures shall be separated by at least 20 psi; and

— all four data points shall meet or exceed the EFT of the inner layer at each of the conditions.

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7 Requirements for potable water plastic piping system components and related materials

7.1 General

Materials, compounds, products, and formulations shall comply with the applicable requirements of NSF/ANSI/CAN 61 as referenced in Section 2 of this standard.

7.2 Requirements for generic ingredients

Generic ingredients for use in PVC potable water pipe and fitting compounds shall meet the requirements of this Section.

7.2.1 Calcium carbonates

Calcium carbonates shall comply with the requirements contained in Section 7.2.1.1, 7.2.1.2, or 7.2.1.3.

7.2.1.1 Calcium carbonates and titanium dioxides that comply with the following exposure conditions and toxicology review are acceptable:

— analytes of interest shall be identified in accordance with ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3 *Toxicology review and evaluation procedures*;

Rationale: Annex I-1 was removed from NSF/ANSI/CAN 61 and incorporated into NSF/ANSI/CAN 600.

— exposure water conditions (pH and temperature) shall be selected in accordance with the procedures in NSF/ANSI/CAN 61, Annex N-1: *Product / material evaluation*;

— a minimum of 1 g of the ingredient shall be placed in 1 L of the appropriate exposure water. After 24 h, the solution shall be decanted and the extractant water discarded. The ingredient sample shall be exposed for an additional 24 h in a second 1-L sample of the appropriate exposure water. After 24 h of exposure, this solution shall be decanted and the extractant water discarded. The ingredient sample shall then be placed in a third 1-L sample of the appropriate exposure water. After 72 h of exposure, the extractant water shall be decanted, filtered through a 4.5×10^{-7} m (0.45-µm) membrane filter, and then chemically analyzed for those analytes of interest. Table 9.1 summarizes this exposure schedule;

— the resulting extractant water shall be analyzed in accordance with the procedures described in NSF/ANSI/CAN 61, Annex N-1; and

— the health effects evaluation of analyte concentrations in the extractant water shall be conducted in accordance with ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3

7.2.1.2 Calcium carbonates and titanium dioxides that comply with the applicable requirements of NSF/ANSI/CAN 61 are acceptable. PVC pipe, fittings, injection molded plaques, and compression molded plaques that are formulated to contain the ingredient at the maximum use level shall be subjected to the extraction testing methods described in NSF/ANSI/CAN 61, Section 4.5: *Extraction procedures*. Analytes of interest measured in the extractant water shall conform to the health effects evaluation requirements in ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3.

7.2.1.3 Calcium carbonates that comply with the applicable requirements of NSF/ANSI/CAN 60 are acceptable.

7.2.2 Calcium stearates

Calcium stearates shall be tested in accordance with NSF/ANSI/CAN 61. PVC pipe, fittings, injection molded plaques, and compression molded plaques that are formulated to contain the ingredient at the maximum use level shall be subjected to the extraction testing methods described in NSF/ANSI/CAN 61, Section 4.5. Analytes of interest measured in the extractant water shall conform to the health effects evaluation requirements in ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3.

7.2.3 Hydrocarbon waxes

Hydrocarbon waxes shall comply with 21 C.F.R. § 178.37[11] and shall be tested in accordance with NSF/ANSI/CAN 61. PVC pipe, fittings, injection molded plaques, and compression molded plaques that are formulated to contain the ingredient at the maximum use level shall be subjected to the extraction testing methods described in NSF/ANSI/CAN 61, Section 4.5. Analytes of interest measured in the extractant water shall conform to the health effects evaluation requirements in ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3.

7.2.4 Oxidized polyethylene waxes

Oxidized polyethylene waxes shall comply with 21 C.F.R. § 172.260[11] or shall be tested in accordance with NSF/ANSI/CAN 61 and comply with 21 C.F.R. § 177.1620.[11] PVC pipe, fittings, injection molded plaques, and compression molded plaques that are formulated to contain the ingredient at the maximum use level shall be subjected to the extraction testing methods described in NSF/ANSI/CAN 61, Section 4.5. Analytes of interest measured in the extractant water shall conform to the health effects evaluation requirements in ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3.

7.2.5 Titanium dioxides

Titanium dioxides shall comply with 21 C.F.R. § 73.575[11] or the requirements contained in Section 7.2.1.1 or 7.2.1.2.

7.2.6 Other PVC ingredients

Ingredients, other than generic ingredients (titanium dioxides, calcium stearates, calcium carbonates, paraffinic hydrocarbon waxes, and polyethylene waxes), intended for use in PVC pipe or fittings shall be tested in accordance with NSF/ANSI/CAN 61. PVC pipe, fittings, injection molded plaques, and compression molded plaques formulated to contain the ingredient at the maximum use level shall be subjected to the extraction testing methods described in NSF/ANSI/CAN 61, Section 4.5. Analytes of interest measured in the extractant water shall conform to the health effects evaluation requirements of ~~NSF/ANSI/CAN 61, Annex I-1~~: NSF/ANSI/CAN 600, Section 3.

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

NSF/ANSI International Standard for Biosafety Cabinetry —

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

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Normative Annex 1
(formerly Annex A)

Performance tests

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N-1.6.3 Personal Protection Test (system challenged with 1 × 10^8 to 8 × 10^8 *B. subtilis* spores in 5.

N-1.6.3.1 Method

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f) Filter the sampling fluid from all of the AGI-30 samplers[33] through a 47 mm diameter ~~0.2 to 0.22 µm~~ 0.45 µm membrane filter, remove the filter aseptically, and place it on appropriate media. Incubate plates containing the filters and plates from the slit-type air samplers at 97 ± 2 °F (36.1 ± 1 °C). Read plates at 44 to 48 hours of incubation. If plates are overgrown with a contaminant other than the challenge organism, the test shall be considered invalid and retested.

***Rationale**: this will standardize the filter pore size used for the same organism across other NSF / ANSI Standards.*

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

NSF/ANSI/CAN Standard

Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and other Recreational Water Facilities

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

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Normative Annex 1
(formerly Annex A)

Materials review and qualification methods

N-1.1 Purpose

The purpose of these methods is to document that the materials used in contact with pool or spa / hot tub (product) water do not impart undesirable levels of contaminants or color to the product water.

It is recognized that the product water is not intended for human consumption; that it is not feasible or cost-effective to identify every contaminant that might be contributed to the product water; and that there may not be complete toxicological information available on each contaminant identified. Therefore, these methods are designed to:

—determine from the material formulation those contaminants of toxicological concern likely to be contributed to the product water;

—determine the general level of contaminants contributed to the product water by the material, using screening tests; and

—determine the levels of specific contaminants, particularly regulated metals and organics, contributed to the product water by the material.

N-1.2 Formulation review

Where required for conformance to Section 4.1, complete material formulation information shall be reviewed to determine whether a material is suitable for contact with the product water, to assess the potential for contaminants to be contributed to the product water from the material, to determine whether extraction testing is warranted, and to select the appropriate extraction testing parameters.

The complete formulation information may be omitted for a component material if:

—the generic material type is contained in NSF/ANSI/CAN 61, Table 3.1, and the material is not a coating or filtration media, and the material is tested to the requirements of NSF/ANSI/CAN, Table 3.1; or

—if the material is not listed in NSF/ANSI/CAN 61, Table 3.1 and the material is not a coating or filtration media, and the material is tested to the requirements of NSF 61/ANSI/CAN, Table 3.2.

N-1.3 Exposure testing

N-1.3.1 General description

When extraction testing is warranted based on a material formulation, a multiple exposure procedure shall be followed. Under this procedure, material samples shall be submerged for specific durations in water having defined characteristics (exposure water). Upon completion of the exposures, the water (extraction water) shall be analyzed for the selected contaminants of concern. The contaminant concentrations observed shall be normalized to represent exposure conditions in the field. The normalized concentration (estimated exposure level or remove this statement) shall be compared to an established maximum contaminant level or a level of toxicological concern for drinking water. Chemical feeders and generators may be tested according to the requirements of NSF/ANSI/CAN 61 utilizing tap water and the manufacturer's recommended chemicals, or specific components requiring testing may be evaluated to this Annex.

Alternately, multiple materials warranting extraction testing may be exposed in the finished product by filling the product with exposure water described in N-1.3.3. Multiple water changes shall occur per the schedule in N-1.3.4. Contaminant concentrations observed shall be normalized to represent exposure conditions in the field.

N-1.3.2 Selection of parameters for exposure testing

The selection of potential contaminants for which testing is warranted shall be based on the review of the material formulation, the toxicological significance of the ingredients, and the likelihood of their migration. Analysis for phenolic substances and total organic carbon (TOC) may be used as screening tests to determine whether additional testing is warranted for specific potential contaminants. Exposure testing may also be conducted to determine whether a material may impart color to water.

If the formulation has been omitted for a component material as allowed through Section N-1.2, testing shall include the material specific analyses in NSF/ANSI/CAN 61, Table 3.1, or as directed in NSF/ANSI/CAN 61. Table 3.2. Specific analysis shall be modified such that nitrosamines, when required for a material, shall be analyzed using EPA Method 625.

N-1.3.3 Exposure water

The condition of exposure water shall be based on the nature of the contaminant of concern. Exposure water having the following characteristics shall be prepared (note that parameters, especially temperature, may change during the exposure period):

	Extraction of metals / inorganics / organics

pH range	7.2 to 7.4
chlorine	2.0 ± 0.2 mg/L
hardness (as $CaCO_3$)	150 ± 10 mg/L
temperature	100 ± 10 °F (38 ± 5 °C)

N-1.3.4 Exposure conditions

Samples shall be exposed to exposure water in three successive intervals according to the following schedule:

1	24 ± 1 h
2	24 ± 1 h
3	72 ± 4 h

After each of the first two exposure periods, the extraction water shall be discarded, and the sample exposed to fresh exposure water. The extraction water from the third exposure interval shall be analyzed for the selected contaminants. All exposures shall be conducted at an ambient air temperature of 73 ± 3 °F (23 ± 2 °C).

N-1.3.5 Ratio of sample surface area to exposure water volume

When material or component samples are evaluated the ratio of the sample surface area to the volume of exposure water shall be 1,000 in^2 (6,500 cm^2) to 1 gal (4 L)), or as near as is reasonably achievable.

Materials exposed in the finished product shall be exposed at the normally wetted field surface area. The volume of exposure water shall be the volume of the product. Product samples that are connected to pipe or tubing under normal installation conditions shall be sealed or covered with inert materials (e.g. glass, teflon), and left open to the air if normally installed open to the air. In-product exposure shall ensure all bubbles and air pockets are removed prior to beginning the test.

Filtration and adsorption medias shall be exposed at the manufacturer's recommended use ratio of weight of media per unit void volume.

Precoat media shall be exposed at 10 times the manufacturer's recommended use ratio.

N-1.3.6 Analytical methods

Analyses of extraction water shall be conducted in accordance with the procedures in the following:

—APHA/AWWA/WEF, *Standard Methods for the Examination of Water and Wastewater*;[5]

—U.S. EPA-600/4-79-020, *Methods for Chemical Analysis of Water and Wastes*;

— US EPA-600/4-84-053. *Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater;*

—U.S. EPA, *Methods for the Determination of Organic Compounds in Drinking Water, Supplement 1*; or

—U.S. EPA, *Methods for the Determination of Inorganic Substances in Environmental Samples*.

N-1.3.7 Normalization

The normalized extraction level for a contaminant shall be calculated by:

$$C_F = C_L\ (SA_F / V_F)\ (V_L / SA_L)$$

where:

C_F = contaminant concentration in field
C_L = contaminant concentration in lab
SA_F = surface area of material in the field (units in the field)
SA_L = surface area of material in the lab (units in the lab)
V_F = volume of water in the field
V_L = volume of water in the lab

If the surface area to volume ratio in the field is not known, then the normalized extraction level ~~is calculated by dividing the concentration in the extraction water by a factor of 10.~~ shall be calculated using a SA_F of 25in^2/L. This is based on the assumption that the worst-case surface area to volume ratio of the material ~~is~~ will not exceed 25 in^2/L.

In-product exposures shall be normalized to 1 unit in the field and 1 unit in the lab, unless the product is typically used in multiples when installed in the field. Then the number of units found in the field shall be used to normalize the concentration. The field volume shall default to 200 liters (53 gal) for spa end use, and 15,000 liters (3,960 gal) for pool end use. Larger field volumes may be utilized for normalization when supported by end use application. If the in-product exposure is for a float tank, stand-alone hot tub, or other product that contains the entirety of the recreational water, then the field volume shall be the operating water capacity of that product.

NOTE – The default field volumes are conservative scenarios that are intended to cover a variety of field installations. If multiple units are used together only on very large installations, then a single unit evaluated to the minimum field volumes would serve as a more conservative scenario for evaluation.

All medias shall be normalized to the manufacturer's recommended use ratio.

N-1.3.8 Acceptance criteria

The normalized extraction concentration of a potential contaminant shall not exceed the total acceptable concentration (TAC) established by NSF/ANSI/CAN ~~61~~ 600. Compounds detected via GC/MS analysis which cannot be identified using authentic standards or commercially available mass spectral libraries shall not be used to determine compliance to NSF/ANSI/CAN 50.

The color rating of the extraction water, as determined in accordance with *Standard Methods*[5] 2120B, shall not exceed that of the exposure water (control).

Certification listings and manufacturer's literature for swimming pool materials (excluding components and devices) shall contain surface area to volume restrictions associated with the evaluation.

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

NSF/ANSI/CAN Standard
for Drinking Water Additives –

Drinking Water System Components – Health Effects

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Normative Annex 1
(formerly Annex B)

Product / material evaluation

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N-1.2 General evaluation requirements

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N-1.2.8 Exposure conditions

Exposure begins immediately after washing or the appropriate conditioning.

N-1.2.8.1 Control samples

Exposure controls shall be prepared using the same extraction water and in the same manner as product samples, but no product shall be added. Any uncoated substrate or other nonproduct components or materials of test assemblies shall be included. Exposure controls shall be processed with all samples.

The control samples shall be evaluated for all target analysies as the product samples. Control results shall be free of contamination impacting evaluation of the product samples to health effects criteria under NSF/ANSI/CAN 600. The results for the control samples analysis shall be subtracted from the results for the correponding product sample analysis prior to normalization.

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N-1.9 Extraction water preparation

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N-1.9.2 Reagents

N-1.9.2.1 Reagent water

Reagent water shall be produced through one or more of the following treatment processes: distillation, reverse osmosis, ion exchange, or other equivalent treatment processes. The reagent water shall have the following general water characteristics:

— electrical resistivity, minimum 18 MΩ-cm at 25 °C (77 °F); and
— total organic carbon (TOC) maximum 100 µg/L.

For ~~each~~ specific analytes of interest, the reagent water shall not contain the target analyte at a concentration greater than half the designated analytical report limit of that analyte. If trace organic contaminants may be present at levels greater than half the designated analytical report limit of that target analyte, it is permissible to treat the reagent water with TOC destructive UV (185 nm) to reduce those contaminants to acceptable concentrations. This UV treatment often results in a decrease in electrical resistivity of the reagent water to below 18 MΩ-cm, which is allowed in this circumstance. When reagent water fails to meet acceptable criteria for target analytes, test results may be acceptable when background contamination does not impact evaluation to health effects criteria under NSF/ANSI/CAN 600.

N-1.9.2.2 Phosphate buffer stock solutions (0.1 M)

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Rationale: Adds language to allow test labs to determine whether trace amounts of a given contaminant present in the reagent water are acceptable or not depending on the potential to impact pass/fail evaluation of a product.

lead to 3/2 or 4/3 (4 makes 3) distributed redundancy. Any number of redundancy is possible in this case, but the higher the N value, the more complex the system.

D.2.8 Concurrent maintainability and testing capability

Concurrent maintainability means that planned maintenance can be performed with the following assumptions:

Safely which means system or components in de-energized state.

Redundancy and therefore, resiliency is reduced during maintenance.

Entire maintenance process does not interrupt or impact operation of critical loads

The facilities shall be capable of being maintained, upgraded, and tested without interruption to the ICT load. Concurrent maintainability extends beyond simply having redundant components and pathways. It also includes the ability to perform such maintenance without risk of harm to the engineers servicing the components. More important than the redundancy, personal safety comes first. While under maintenance, the work environment shall reduce risk of injury to personnel by ensuring that any path or component under maintenance can be isolated (removed) from the system.

Isolation shall be achieved by providing isolation components within the system. Electrically, this may be breakers, isolators, fuses, switches, etc. At higher voltages, (which are common in data centers), providing separation of compartments (such as Form 2B, Form 3B) within panels is also required to prevent risk of injury to maintenance personnel from accidental contact with energized circuits, which could cause injury, or death as well as potential damage to the system and a total cascading failure of the data center.

In mechanical systems, isolation may be achieved by repositioning valves, levers, handles, dampers, etc.

Isolating pathways or components by removing their leads, connectors, anchors, screws, bolts, are not accepted, and shall constitute a failure to achieve concurrent maintainability.

In addition, if the environment is unsafe due to hazards such as spilled fuel, oil, toxic fumes, water (especially near energized electrical systems), exposure to falling more than 600 mm (2 ft) (use of ladders, scaffolding, maintenance platforms, etc. are acceptable, with proper safety in place, including visual and physical barriers where needed is permitted). Working in environments which meet any of the aforementioned conditions shall constitute a failure of concurrent maintainability.

D.2.9 Fault tolerant

Fault tolerance shall allow for any fault (failure) of a single component or pathway to occur, without resulting in a loss of protected ICT loads. The system shall be able to maintain N capacity to all redundant systems and pathways during any such event.

The use of automation on a majority of systems will be required to achieve such results, particularly the use of motorized valves in systems which transport liquids (water cooling, fuel supply). The autonomy of the system shall match that of the fuel supply of the standby power system.

In addition to the requirements for fault tolerance, the elements of concurrent maintainability described in D.2.8 shall also be met.

D.2.10 Capacity and scalability

Data centers and support infrastructure should be designed to accommodate future growth with little or no disruption to services.

Editor's comment, not part of document: Content below on this page was removed from Table 5 Reference Guide (Electrical)

2878

	1 (E_1)	2 (E_2)	3 (E_3)	4 (E_4)
Standby Generating System (Gas Engine)				
Generator Sizing	If installed, sized for UPS & mechanical systems without redundancy	Sized for UPS & mechanical system without redundancy	Sized for total building load N+1 distributed redundancy	Sized for total building load with 2N distributed redundancy
Gas Leak detector in generator enclosure/room	As per AHJ	As per AHJ	Required	Required
Gas Leak detector in gas tank storage area/enclosure/room	As per AHJ	As per AHJ	Required	Required
Gas supply system				
Piped gas	Piped or Storage Tank	Piped or Storage Tank	Piped and Storage Tank	Piped and Storage Tank
Storage tank	Meets ISO standards	Meets ISO standards	Meets ISO standards	Meets ISO standards
Storage tank capacity	If available, 12 Hour	If available, 12 Hour	24 Hours	24 Hours
Refill agreement	Not Required	Not Required	Required, at least one supplier	Required, at least two suppliers
Natural gas composition (methane %) to meet requirement of engine manufacturers to generate required energy output	Required	Required	Required	Required
Gas supply pressure to meet engine manufacturers requirement	Required	Required	Required	Required
Gas pressure switch to stop engine safely when pressure is out of require range	Required	Required	Required	Required
Engine shutdown upon pressure regulator fault detection	Required	Required	Required	Required
Strainer in fuel supply	Not required	Not required	Required	Required
Gas compressors with sufficient	If required	If required	Required	Required
Gas compressors to meet redundancy required	Not required	Not required	To meet concurrent maintainability	To meet fault tolerance

2879

Editor's comment, not part of document: Changes below on this page are highlighted and in red font with additions and strike-throughs for modifications to Table 6 Reference Guide (Mechnical)

2883

	1 (M_1)	2 (M_2)	3 (M_3)	4 (M_4)
HVAC Control System				
HVAC Control System	Control system failure will interrupt cooling to critical areas	Control system failure will not interrupt cooling to critical areas but might prevent further control of temp/humidity (steady state)	Control systems failure will not interrupt cooling to critical areas. Control systems design should be concurrently maintainable	Control systems failure will not interrupt cooling to critical areas. Control systems design should be fault tolerant
Power Source to HVAC Control System	Single path of electrical power to HVAC control system	Single path of electrical power to HVAC control system	Dual path of electrical power in N+1 configuration designed to be concurrently maintainable	Dual path of electrical power in 2N/N+N configuration designed for fault tolerance
Plumbing (for water-cooled heat rejection)				
Make-up Water	Single water supply, with no on-site back-up storage	Single source of water + on-site storage with a minimum equal to duration of standby power fuel supply	Dual sources of water, or one source + on-site storage with a min equal to duration of standby power fuel supply	Dual sources of water, or one source + on-site storage with a min equal to duration of standby power fuel supply
Points of Connection to Condenser Water System	Single point of connection	Single point of connection	Two points of connection	Two points of connection
Fuel ~~Oil~~ Supply System				
Onsite standby power fuel storage	12 hours as allowed by AHJ	12 hours as allowed by AHJ	24 hours as allowed by AHJ + bulk fuel supply agreement with fuel supply contracts for 6-hr response from at least 2 providers	24 hours as allowed by AHJ + bulk fuel supply agreement with fuel supply contracts for 6-hr response from at least 2 providers
Bulk Storage Tanks	At least one bulk storage tank is required when the minimum runtime requirement exceeds the capacity of any generator day tank	At least one bulk storage tank is required when the minimum runtime requirement exceeds the capacity of any generator day tank	At least one bulk storage tank is required when the minimum runtime requirement exceeds the capacity of any generator day tank. Redundancy of bulk tanks is required when the loss of any single bulk tank will result in less than minimum runtime using the remaining fuel supply	At least one bulk storage tank is required when the minimum runtime requirement exceeds the capacity of any generator day tank. Redundancy of bulk tanks is required when the loss of any single bulk tank will result in less than minimum runtime using the remaining fuel supply
Fuel Supply Piping	Single Pathway	Single Pathway	Minimum two pathways	Minimum two pathways
Liquid Fuel Systems				
Liquid Fuel Feeds~~Storage Tank Pumps and Piping~~	Single pump ~~, supply pipe,~~ or gravity fed	Multiple pumps ~~, single supply pipe~~ or gravity fed	Fuel pumps/feed supply ~~and gravity feed~~ designed for concurrent maintainability	Fuel pumps/feed supply ~~and gravity feed~~ designed for fault tolerance
Bunded Fuel Storage Containment for fuel containers exceeding 250 liters	Meets NFPA 37 Standard for the Installation & Use of Stationary Combustion Engines & Gas Turbines	Meets NFPA 37 Standard for the Installation & Use of Stationary Combustion Engines & Gas Turbines	Meets NFPA 37 Standard for the Installation & Use of Stationary Combustion Engines & Gas Turbines	Meets NFPA 37 Standard for the Installation & Use of Stationary Combustion Engines & Gas Turbines
Gaseous Fuel Systems				
Fuel Compressor Redundancy	Not required	Required	Meets concurrent maintainability	Meets fault tolerance
Gas Leak Detection in generator location and storage area	As allowed by AHJ	As allowed by AHJ	Required	Required
Fire Suppression				
Fire detection system	Required	Required	Required	Required

Editor's comment, not part of document: Table 19 on this page and next page are rows moved from the end of Table 6 in Annex D to this new table in informative Annex K on Immersion Cooling

4030 **Table 19: Reference guide (mechanical rating for immersion cooling systems)**

4031

	1 (M_1)	2 (M_2)	3 (M_3)	4 (M_4)
Immersion Cooling System (if used)				
General Mechanical Considerations				
Temperature monitoring	Coolant Inlet & outlet temperature monitored for each unit	Coolant Inlet & outlet temperature monitored for each unit	Coolant Inlet, outlet, & general liquid temperature monitored for each unit	Coolant Inlet, outlet, & general liquid temperature monitored for each unit
Coolant pumps and control system configuration	N configuration	N configuration	N+1 concurrently maintainable	N+N fault tolerant
Electrical service to coolant pumps & control system	Single path	Single path	N+1 configured to allow for concurrent maintenance	2N/ N+N configured to allow for fault tolerance
Architectural Considerations				
Assembly shall be designed to withstand the environmental conditions to which it expected to be exposed to	Required	Required	Required	Required
Proof of floor loading capacity to meet/exceed the requirement of the immersion solution	Required	Required	Required	Required
Immersion Coolant Fluid				
Material compatibility with equipment and cabling to be immersed	Required	Required	Required	Required
Liquid shall be non-conductive	Required	Required	Required	Required
Liquid shall have low toxicity	Required	Required	Required	Required
Liquid should be bio-degradable	Preferred	Preferred	Preferred	Preferred
Liquid does not cause degradation of ICT equipment or cabling	Required	Required	Required	Required
Liquid shall be non-flammable with a flash point above 200 Celsius / 392 Fahrenheit	Preferred	Preferred	Required	Required
ICT equipment within the immersion cooling compartment				
Active (air) fan assemblies	Disabled/Removed	Disabled/Removed	Disabled/Removed	Disabled/Removed
ICT Equipment Handling				
Absorbent Wipes present to handle potential spills when removing equipment	Preferred	Preferred	Required	Required
Zip-Lock-Style bags to for wet equipment shipment	Preferred	Preferred	Required	Required
(Moveable) steps, where required, to enable easy access to top of cooling unit	Preferred	Preferred	Required	Required
Immersion Cooling Unit/Compartment				

Protection against objects falling into the unit/compartment	Required	Required	Required	Required
Meets the “Concurrent Maintainability” Requirements for Electrical, Mechanical and Telecom circuits	Not required	Not required	Required	Required
Meets the “Fault Tolerance” Requirements for Electrical, Mechanical and Telecom circuits	Not required	Not required	Not required	Required

BSR/UL 155, Standard for Tests for Fire Resistance of Vault and File Room Doors

1. Proposed Changes to Classes and Double Doors

PROPOSAL

5.1 Vault doors classified as to 1-, 1.5-, 2-, 4-, and 6-hour fire resistance are effective in withstanding:

a) Standardized fire exposures for the periods indicated without exceeding a temperature of 350°F (177°C) during or after the fire exposure, 2 inches (51 mm) from the unexposed face, when installed in accordance with instructions accompanying the door; and

b) Application of a standard hose stream and reheating for one-half of the classification period without destroying the usability of papers or record form papers stored in the vault. See 6.2 and 6.3 for specifications.

8.3.2.A When testing double doors, an additional thermocouple is to be located at one-half the vertical height of the meeting edge, spaced 2 inches (51 mm) from the unexposed door faces.

2. Update to Furnace Temperatures

PROPOSAL

8.3 Unexposed Surface Temperature Measurement

~~8.3.4 The temperatures of the test exposure are to be deemed to be the average temperature obtained from the readings of not less than nine thermocouples symmetrically disposed and distributed to show the temperature near all parts of the test assembly. The thermocouples are to be protected by sealed porcelain tubes having 3/4 inch (19.1 mm) outside diameter and 1/8 inch (3.2 mm) wall thickness or, as an alternate, in the case of base-metal thermocouples, protected by 1/2 inch (12.7 mm) wrought steel or wrought iron pipe of standard weight. The junction of the thermocouples is to be 2 inches (51 mm) from the exposed face of the test assembly or from the masonry in which the assembly is installed, during the entire test exposure.~~

~~8.3.5 The temperatures are to be read at intervals not exceeding 5 minutes during the first 2 hours, and thereafter the intervals may be increased to not more than 10 minutes.~~

~~8.3.6 The accuracy of the furnace control is to be such that the area under the time-temperature curve, obtained by averaging the results from the thermocouple readings, is within 10 percent of the corresponding area under the standard time-temperature curve in Figure 8.2 for fire tests of 1 hour or less duration, within 7.5 percent for those over 1 hour and not more than 2 hours, and within 5 percent for tests exceeding 2 hours in duration.~~

8.3.A Furnace Temperatures

8.3.A.1 The temperatures of the test exposure shall be the average temperature obtained by a minimum of three thermocouples and no fewer one thermocouple per 15 square feet of test assembly exposed to the furnace symmetrically disposed and distributed to show the temperature near all parts of the test assembly. The thermocouple assembly is to consist of a thermocouple protected by a sealed porcelain tube having a 3/4 inch (19.1 mm) outside diameter and 1/8 inch (3.2 mm) wall thickness or, a base-metal thermocouple, protected by: (1) sealed 1/2-inch (12.7-mm) wrought-steel or wrought-iron pipe of standard weight or (2) Inconel 600 series schedule 40 pipe (0.8 inch OD / 0.6 inch ID, 20 mm OD / 15 mm ID). The end of the thermocouple assembly is to be initially located 2 inches (152 mm) from the exposed face of the test assembly or from the construction in which the door assembly is installed. During the fire exposure, if the movement of the test sample causes the sample's distance to the end of the thermocouple assembly to vary, the end of the thermocouple assembly is to be reset to 2 inches (152 mm) at intervals not exceeding 10 minutes during the first 30 minutes of the test. Thereafter, the intervals are to be increased to not more than 30 minutes.

8.3.A.2 The temperatures are to be recorded at intervals not exceeding 1 minute.

8.3.A.3 The accuracy of the furnace control is to be such that the area under the time-temperature curve shown in Figure 8.3, obtained by averaging the results from the thermocouple readings, is within 10 percent of the corresponding area under the standard time-temperature curve for fire tests of 1 hour or less duration or during the first hour of multi-hour tests, 7.5 percent in the first 2 hours of multi-hour tests, and within 5 percent for tests exceeding 2 hours in duration.

3. Proposed Addition of Furnace Pressure Testing

PROPOSAL

8.3.B Furnace Pressure

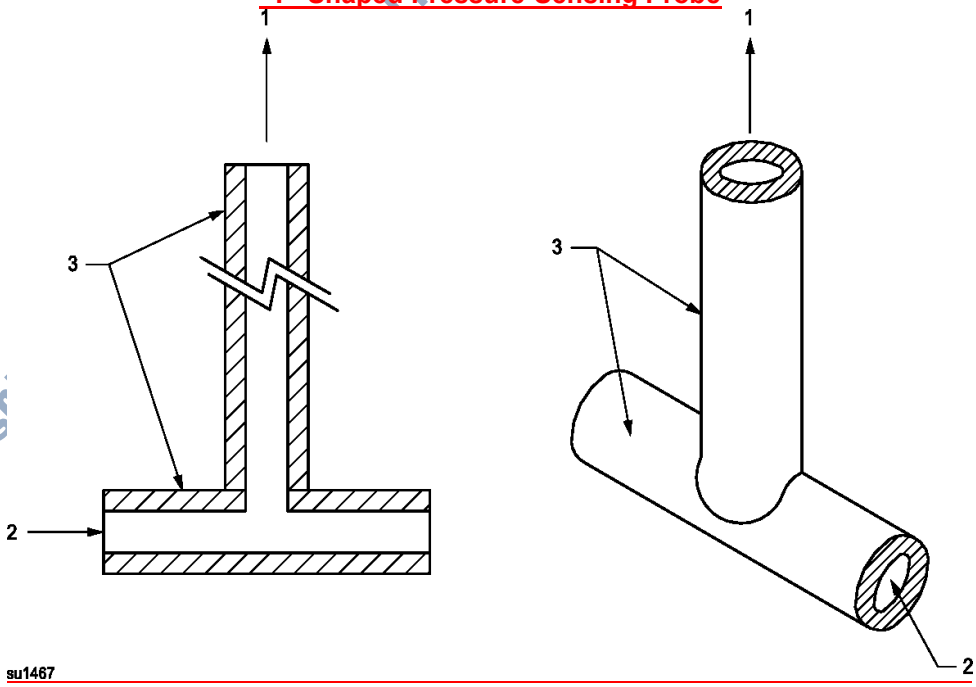
8.3.B.1 Furnace pressures are to be read at intervals not exceeding 1 minute.

8.3.B.2 The neutral plane within the test furnace shall be established prior to the initiation of the fire test. Such pressure shall remain constant or increase to maintain the neutral plane upon initiation of the fire test. Control of the furnace pressure is to be established beginning no later than 5 minutes after the start of the test and is to be maintained throughout the remainder of the fire test.

8.3.B.3 The vertical pressure distribution within the furnace is to be measured by at least two pressure-sensing probes separated by a minimum vertical distance of 6 ft (1.8 m) inside the furnace for furnaces with a minimum vertical dimension of 10 ft (3.05 m). Minimum vertical separation between pressure probes is to be reduced proportionally for furnaces with an internal dimension less than 10 ft (3.05 m).

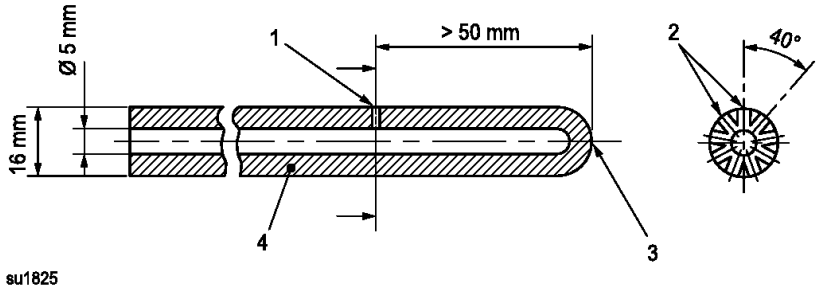
8.3.B.4 The pressure-sensing probes are to be as shown in either Figure 8.3 or Figure 8.4 The probes are to be located so that the center line of the sensing holes are positioned 6 ±1 in (152 ±2.5 mm) from the surface of the exposed face of the test assembly and a minimum of 18 in (457 mm) from the edges of the furnace. The probes are to be positioned horizontally in the furnace without a change in vertical elevation of the probes or tubing within the furnace.

Figure 8.3
"T" Shaped Pressure-Sensing Probe



Key
1) Open to transducer
2) Open
3) "T" shaped pressure-sensing probe. Inside diameter 0.2 in to 0.4 in (5 mm to 10 mm)

Figure 8.4
Tube Shaped Pressure-Sensing Probe



Key
1) Holes, 3.0 mm diameter
2) Holes, 3.0 mm diameter, spaced 40° apart around the pipe
3) Welded end
4) Tube shaped pressure-sensing probe
Note: 1 inch = 25.4 mm

8.3.B.5 The pressure-sensing probes are to be located at a minimum of 18 inches from the edges of the furnace chamber.

8.3.B.6 The pressure at each location is to be measured using a differential pressure instrument capable of reading in increments no greater than 0.01 inch water gauge (2.5 Pa) with an accuracy of ±0.005 inch water gauge (±1.2 Pa) or better. The differential pressure measurement instrument is to be located so as to minimize stack effects caused by vertical runs of pressure tubing between the pressure-sensing probes and the differential pressure measurement instrument locations.

8.3.B.7 Based on the vertical separation and pressure differences between the two pressure-sensing probes, a calculation of the zero pressure plane is to be made. The furnace pressure is to be positive above the zero pressure plane.

8.4 Test Method

3. Update to Fire-Hose Stream Test and Proposed Annex B Addition

PROPOSAL

9 Fire-Hose Stream – Reheat Test

9.1 A second sample of each door assembly tested is to be exposed to the standard fire conditions similar to those of the Fire Endurance Test, Section 8. The sample is to be exposed for one-half the period for which classification is desired. The wall carrying the sample is then to be removed from the furnace ~~combustion~~ chamber ~~and a standard 1-1/8 inch (29 mm) stream of water immediately applied from a distance of 20 feet (6 m) to the heated face of the sample for 1 minute~~. Immediately after to within 5 minutes from the termination of the fire endurance test, the test assembly is to be subjected to the impact, erosion,

and cooling effects of a hose stream directed first at the bottom center of the assembly and then at all parts of the exposed surface. The hose stream is to be applied, with a smooth steady movement of the hose at a rate to ensure that all parts of the test assembly are impacted by the hose stream. When all parts of the test assembly have been impacted by the hose stream, the application pattern is to be reversed. See Annex B for a description of the pattern.

9.1.A Deliver the hose stream through a 2-1/2-inch (64.5-mm) hose discharging through a National Standard Playpipe of corresponding size equipped with a 1-1/8-inch (28.6-mm) discharge tip of the standard-taper, smooth-bore pattern without shoulder at the orifice. The minimum water pressure at the base of the nozzle and the minimum duration of application in seconds per square foot (s/m^2) of exposed area is to be as prescribed in Table 9.1.

9.1.B The tip of the nozzle is to be located a maximum of 20 feet (6 m) from and on a line normal to the center of the test door. When it is not possible to be so located, the nozzle is to be on a line deviating not more than 30 degrees from the line normal to the center of the test door. When so located, the distance from the center is to be less than 20 feet (6 m) by an amount equal to 1 foot (0.3 m) for each 10 degrees of deviation from the normal.

Table 9.1
Water Pressure at Base of Nozzle and Duration of Application

Specified rating	Water pressure at base of nozzle, psi	Water pressure at base of nozzle, (KPa)	Duration of application of exposed area, seconds per square foot	Duration of application of exposed area, (s/m^2)
3-hour or 4-hour	45	310	3.0	32
1-1/2-hour and over when less than 3-hour	30	207	1.5	16
1-hour and over when less than 1-1/2-hour	30	207	0.9	10
Less than 1 hour	30	207	0.6	6

NOTE – The exposed area shall be calculated using the outside dimensions of the test specimen, including a frame, hangers, tracks, or other parts of the assembly when provided, and normally not including the wall into which the specimen is mounted. Where multiple test specimens are mounted in the same wall, the rectangular or square wall area encompassing all of the specimens is identified as the exposed area since the hose stream must traverse this area during its application.

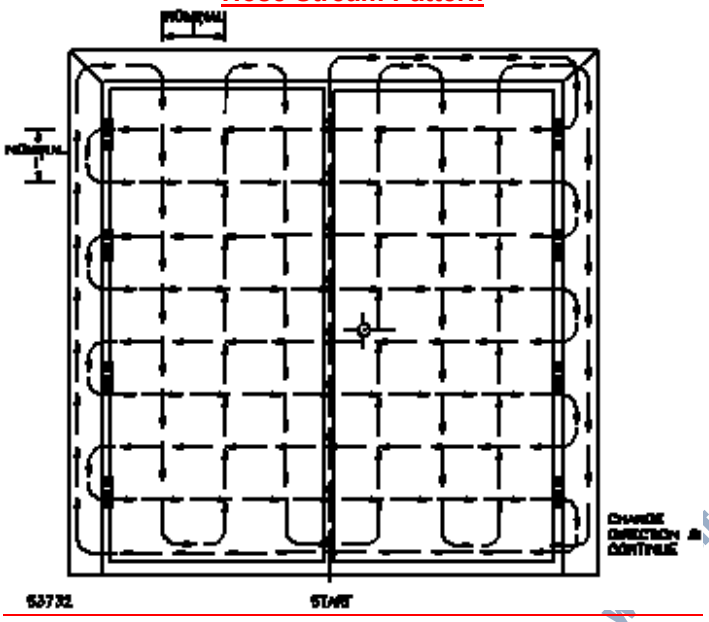
~~Appendix~~ Annex A (Normative)

Annex B (Normative)

B1 Hose Stream Pattern

B1.1 The hose stream is to be played over the test sample starting at the bottom center and then at all parts changing directions slowly. Figure B1 shows the typical pattern for one type of assembly, pairs of swinging doors. The pattern is capable of being mirrored, reversed, or otherwise modified to accommodate samples of various sizes and shapes.

Figure B1
Hose Stream Pattern



BSR/UL 1598, Standard for Safety for Luminaires

f) Polymeric Recessed Luminaires Marking Clarification

~~12.8.5.4 A luminaire that has a recessed polymeric junction box or is provided with a polymeric recessed housing that is also an electrical enclosure where supply connections are made, shall be marked: "For use in one- and two-family dwellings only", in accordance with Table 20.1.1, Item 1.39.~~