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# Project Initiation Notification System (PINS)

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

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

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

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## **ADA (American Dental Association)**

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

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

### ***National Adoption***

BSR/ADA Standard No. 122-202x, Casting and Baseplate Waxes Used in Dentistry (identical national adoption of ISO 15854:2021 and revision of ANSI/ADA Standard No. 122-2007 (R2019))

Stakeholders: Manufacturers, dentists, consumers.

Project Need: ANSI/ADA 122:2007 (R2019) is an adoption of ISO 15854:2005. This ISO standard recently underwent revision for some needed technical changes, which the U.S. TAG approved. The standard should be updated to harmonize with the revised ISO standard.

Scope: This document specifies the classification of and requirements for dental casting and dental baseplate waxes together with the test methods to be employed to determine compliance with these requirements.

## **ADA (American Dental Association)**

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

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

### ***National Adoption***

BSR/ADA Standard No. 19-202x, Elastomeric Impression and Bite Registration Materials Used in Dentistry (identical national adoption of ISO 4823:2021 and revision of ANSI/ADA Standard No. 19:2017)

Stakeholders: Manufacturers, dentists.

Project Need: ANSI/ADA 19 - 2017 Elastomeric Impression Materials is an adoption of ISO 4823:2015. The ISO standard was revised and enhanced with regard to elastomeric bite registration materials. The U.S. TAG fully participated in the development of the ISO standard and approved its publication.

Scope: This document specifies the requirements and their test methods for elastomeric impression and bite registration materials.

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

***National Adoption***

BSR/ADA Standard No. 199-202x, Dental Osteotomes (national adoption with modifications of ISO 17937:2015)

Stakeholders: Manufacturers, dentists.

Project Need: The ADA working group recommends that a standard for osteotomes, which are instruments generally used in orthopedic surgery, be developed for those instruments as used in dentistry,

Scope: This standard specifies requirements and their test methods for osteotomes used in dentistry for bone compaction, internal sinus floor elevation, and jaw bone cleaving. It also specifies the requirements for their marking and labelling.

**ADA (American Dental Association)**

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

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

***National Adoption***

BSR/ADA Standard No. 200-202x, Dental Extraction Forceps (national adoption with modifications of ISO 9173 -1:2016)

Stakeholders: Manufacturers, dentists.

Project Need: This standard will be an adoption of three ISO standards to create a comprehensive national standard on extraction forceps used in dentistry.

Scope: This standard specifies the general performance requirements, designation, and design for extraction forceps used in dentistry.

**ADA (American Dental Association)**

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

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

***National Adoption***

BSR/ADA Standard No. 201-202x, Magnetic Attachments Used in Dentistry (identical national adoption of ISO 13017:2020)

Stakeholders: Manufacturers, dentists.

Project Need: Dental magnetic attachments provide retention, support, and stabilization of dental and maxillofacial appliances. Therefore, this document is needed to specify requirements and test methods for assessing the applicability of dental magnetic attachments that provide retention, support, and stabilization for the following dental appliances: removable prostheses (partial dentures, overdentures, and crowns and bridges), superstructures of dental implants, and orthodontic or maxillofacial prostheses, including obturators.

Scope: This document specifies requirements and test methods for assessing the applicability of dental magnetic attachments that provide retention, support, and stabilization of removable prostheses (crowns and bridges, partial dentures and overdentures), superstructures of dental implants, and orthodontic or maxillofacial prostheses including obturators.

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

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

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

**Revision**

BSR/ASME N511-202x, In-Service Testing of Nuclear Air-Treatment, Heating, Ventilating, and Air-Conditioning Systems (revision of ANSI/ASME N511-2017)

Stakeholders: Utilities, manufacturers, designers, laboratories, consultants, and government.

Project Need: ASME N511 scope needs further clarifications to include non-reactor facilities SSCs in-service testing requirements as defined in ANSI/ASME N510, Table 1 Note 2, which states that nonreactor facilities shall develop other testing frequencies appropriate for their operational requirements and that Table 1 shall be used as a guidance.

Clarification needs to be included in Sections 3, 4, and 5. In addition, incorporate clarification for using other frequencies for non-reactor facilities per Code inquiry 20-677. Lastly, the term used as "safety-related" needs to be removed for consistency with the scope of ASME AG-1 scope.

Scope: This Standard covers the requirements for in-service testing of nuclear safety-related air-treatment, heating, ventilating, and air-conditioning systems in nuclear facilities.

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

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

Contact: Lauren Bauerschmidt; [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

**Revision**

BSR/ASSP Z359.6-202x, Specifications and Design Requirements for Active Fall Protection Systems (revision and redesignation of ANSI ASSE Z359.6-2016)

Stakeholders: OSH professionals.

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

Scope: This standard is intended for engineers who are trained as qualified persons and who have expertise in the design of active fall protection systems. It specifies requirements for the design and performance of complete active fall protection systems, including travel restraint and vertical and horizontal fall arrest systems.

**ASTM (ASTM International)**

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

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

**New Standard**

BSR/ASTM WK76998-202x, New Practice for Determining Allowable Tensile Load for Polyamide-12 (PA12) Gas Pipe during Pull-In Installation (new standard)

Stakeholders: Gas industry.

Project Need: PA12 gas pipe is installed by all the conventional methods. Pull-through installations expose the pipe to risk of over-tensioning with the result that the pipe could be damaged and rendered unsuitable for use. End users have asked for guidance on calculating allowable pulling loads. This new project will address this need.

Scope: Use F1804 as a model to develop a new PA12-specific standard practice to determine allowable tensile loading of PA12 gas pie during pull-in installation.

**CTA (Consumer Technology Association)**

1919 S. Eads Street, Arlington, VA 22202 [www.cta.tech](http://www.cta.tech)

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

**Revision**

BSR/CTA 774-E-202x, TV Receiving Antenna Performance Presentation and Measurement (revision and redesignation of ANSI/CTA 774-D-2020)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To define test and measurement procedures for use by manufacturers of television receive antennas who wish to categorize their antennas in accordance with CEA 2028-A, Color Codes for Outdoor TV Receiving Antennas.

Scope: This standard defines test and measurement procedures for use by manufacturers of television receiving antennas who wish to categorize their antennas in accordance with CEA-2028-A, Color Codes for Outdoor TV Receiving Antennas.

**CTA (Consumer Technology Association)**

1919 S. Eads Street, Arlington, VA 22202 [www.cta.tech](http://www.cta.tech)

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

**Revision**

BSR/CTA 2009-C-202x, Performance Specification for Public Alert Receivers (revision and redesignation of ANSI/CTA 2009-B-2010 (R2021))

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To update CTA 2009 to conform with updates to the NWS WWA alert hierarchy.

Scope: This standard defines minimum performance criteria for consumer electronic products designed to receive All Hazard Alert signals broadcast by the National Oceanic and Atmospheric Administrations Weather Radio network. It will be updated in 2021 to conform with the latest NWS WWA alerts.

**CTA (Consumer Technology Association)**

1919 S. Eads Street, Arlington, VA 22202 [www.cta.tech](http://www.cta.tech)

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

**Revision**

BSR/CTA 2028-C-202x, Color Codes for Outdoor TV Receiving Antennas (revision and redesignation of ANSI/CTA 2028-B-2014 (R2019))

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To define color codes to be associated with minimum performance parameters of outdoor television (TV) receiving antennas.

Scope: This standard defines color codes to be associated with minimum performance parameters of outdoor television (TV) receiving antennas.

**CTA (Consumer Technology Association)**

1919 S. Eads Street, Arlington, VA 22202 [www.cta.tech](http://www.cta.tech)

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

**Revision**

BSR/CTA 2032-C-202x, Indoor TV Receiving Antennas Performance Standard (revision and redesignation of ANSI/CTA 2032-B-2014 (R2019))

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To define test and measurement procedures for determining the performance of indoor TV receiving antennas.

Scope: This standard defines test and measurement procedures for determining the performance of indoor TV receiving antennas.

**CTA (Consumer Technology Association)**

1919 S. Eads Street, Arlington, VA 22202 [www.cta.tech](http://www.cta.tech)

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

**Revision**

BSR/CTA 2088-A-202x, Baseline Cybersecurity Standard for Devices and Device Systems (revision and redesignation of ANSI/CTA 2088-2020)

Stakeholders: Consumers, manufacturers, service providers, and retailers.

Project Need: To revise CTA 2088.

Scope: This standard specifies baseline device security capabilities and related organizational security capabilities and recommendations for devices and device systems. The standard will be updated to address feedback from testing houses and make any other necessary clarifications to the text.

**FM (FM Approvals)**

1151 Boston-Providence Turnpike, Norwood, MA 02062 [www.fmglobal.com](http://www.fmglobal.com)

Contact: Josephine Mahnken; [josephine.mahnken@fmapprovals.com](mailto:josephine.mahnken@fmapprovals.com)

**Revision**

BSR/FM 4950-202x, Evaluating Welding Pads, Welding Blankets and Welding Curtains for Hot Work Operations (revision of ANSI/FM 4950-2007 (R2013))

Stakeholders: Welding blanket manufacturers and those responsible for implementing safe hot-work procedures; building owners undergoing new construction, renovation, or razing involving hot work.

Project Need: This standard is undergoing an update of references.

Scope: This standard sets performance requirements for welding pads, welding blankets, and welding curtains used as a means of preventing the ignition of combustibles during welding, cutting, and other hot work operations.

Welding pads, welding blankets, and welding curtains will be evaluated on their ability to: prevent burn-through of the material; provide adequate protection for adjacent combustibles; limit temperature transmission through the material; resist melting, dripping, or deformation, maintain their flexibility, durability and structural integrity; and resist degradation from weathering.

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

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

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

**Revision**

BSR/ASSE 1082-202x, Performance Requirements for Water Heaters with Integral Temperature Control Devices for Hot Water Distribution Systems (revision of ANSI/ASSE 1082-2018)

Stakeholders: Plumbing and construction.

Project Need: Update reference standards as some of the reference standards have had significant changes.

Scope: This standard is for water heaters with defined setpoint controls under various steady state flow conditions.

The water heaters covered by this standard control the outlet temperature to specific limits and are installed within a hot-water distribution system but not at point-of-use.

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

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

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

**Revision**

BSR/ASSE 1087-202x, Performance Requirements for Commercial and Food Service Water Treatment Equipment Utilizing Drinking Water (revision of ANSI/ASSE 1087-2018)

Stakeholders: Plumbing and construction.

Project Need: Update reference standards as some of the references have changed significantly.

Scope: Commercial water treatment equipment is used in point-of-entry (POE) and point-of-use (POU) applications connected to building plumbing to improve the water quality characteristics of potable water. This standard includes testing requirements for components and complete systems. Electrical compliance is not covered by the standard.

**IAPMO (Z) (International Association of Plumbing & Mechanical Officials)**

5001 East Philadelphia Street, Ontario, CA 91761 <https://www.iapmostandards.org>

Contact: Kyle Thompson; [standards@iapmostandards.org](mailto:standards@iapmostandards.org)

**New Standard**

BSR/IAPMO Z1059-202x, Wastewater Diverter Valves and Diversion Systems (new standard)

Stakeholders: Manufacturers, users, inspectors, distributors, designers, and contractors.

Project Need: Needed for testing and certification purposes.

Scope: This standard covers wastewater diverter valves and diversion systems and specifies requirements for materials, physical characteristics, performance testing, and markings. Wastewater diverter valves covered by this Standard can be used in alternate water source systems for indoor and outdoor non-potable uses. This standard does not cover grey water diversion valves which are addressed in ASME A112.18.2/CSA B125.2.

**OPEI (Outdoor Power Equipment Institute)**

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

Contact: Greg Knott; [gknott@opei.org](mailto:gknott@opei.org)

***Revision***

BSR/OPEI B71.9-202x, Standard for Multipurpose Off-Highway Utility Vehicles (revision of ANSI/OPEI B71.9-2016)

Stakeholders: Users, Producers and General Interest stakeholders including (but not limited to) consumers, retailers, manufacturers, governmental agencies, and testing entities.

Project Need: The project is being initiated to consider revisions to the standard, including in the areas of hot surfaces, fuel systems, and debris penetration.

Scope: The standard establishes requirements for equipment, configuration, and performance of Multipurpose Off-Highway Utility Vehicles. A MOHUV has features specifically intended for utility use and is (1) intended to transport a person(s) and/or cargo, with a top speed in excess of 25 mph, (2) 2030 mm or less in over width, (3) designed to travel on four or more wheels, two or four tracks, or a combination of the two; (4) using a steering wheel for steering control, (5) with a non-straddle seat, (6) with a Gross Vehicle Weight Rating of no more than 1814 kg, and (7) with a minimum cargo capacity of 159 kg.



# Call for Comment on Standards Proposals

## American National Standards

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

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

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

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

\* Standard for consumer products

## Comment Deadline: July 11, 2021

### ASME (American Society of Mechanical Engineers)

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

#### Revision

BSR/ASME B20.1-202x, Safety Standard for Conveyors and Related Equipment (revision of ANSI/ASME B20.1-2018)

This Standard applies to the design, construction, installation, maintenance, inspection, and operation of conveyors and conveying systems in relation to hazards.

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Riad Mohamed; [MohamedR@asme.org](mailto:MohamedR@asme.org)

### NSF (NSF International)

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

#### Revision

BSR/NSF 42-202x (i113r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2020)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the reduction of specific substances that may be present in drinking water (public or private) considered to be microbiologically safe and of known quality. Systems covered under this Standard are intended to address one or more of the following: reduce substances affecting the aesthetic quality of the water, add chemicals for scale control, or limit microbial growth in the system (bacteriostatic). Substances may be soluble or particulate in nature. It is recognized that a system may be effective in controlling one or more of these substances but is not required to control all. Systems with manufacturer claims that include components or functions covered under other NSF or NSF/ANSI Standards or Criteria shall conform to the applicable requirements therein. Filter systems covered by this Standard are not intended to be used with drinking water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

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

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

## Comment Deadline: July 11, 2021

### NSF (NSF International)

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

#### Revision

BSR/NSF 385-202x (i8r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 L/day (200 gal/day) and 5678 L/day (1500 gal/day). This Standard also applies to devices intended to be used in water reclamation and reuse. Specific requirements exist for construction and testing of individual disinfection devices based on the technology used by the device. All Devices are required to be tested against the influent challenge water as specified in section 1.4 and to meet the minimum effluent quality requirements in accordance with 1.5. Devices shall be tested against the effluent requirements of this Standard unless the manufacturer requests certification under an effluent standard in NSF/ANSI 350 which is more stringent than this Standard.

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

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

### NSF (NSF International)

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

#### Revision

BSR/NSF 385-202x (i9r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 L/day (200 gal/day) and 5678 L/day (1500 gal/day). This Standard also applies to devices intended to be used in water reclamation and reuse. Specific requirements exist for construction and testing of individual disinfection devices based on the technology used by the device. All Devices are required to be tested against the influent challenge water as specified in section 1.4 and to meet the minimum effluent quality requirements in accordance with 1.5. Devices shall be tested against the effluent requirements of this Standard unless the manufacturer requests certification under an effluent standard in NSF/ANSI 350 which is more stringent than this Standard.

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

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

### NSF (NSF International)

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

#### Revision

BSR/NSF/CAN 61-202x (i157r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2020)

Food cart components covered under other NSF or NSF/ANSI Standards or Criteria shall also comply with the requirements therein. This Standard is not intended to restrict new unit design, provided such design meets the minimum specifications described in this standard.

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

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

### UL (Underwriters Laboratories)

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

#### Revision

BSR/UL 508A-202x, Standard for Safety for Industrial Control Panels (revision of ANSI/UL 508A-2020)

Recirculation of Topic 12 - Field Wiring - Cable Lugs.

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

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

## Comment Deadline: July 11, 2021

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | e: [jennifer.fields@ul.org](mailto:jennifer.fields@ul.org), w: <https://ul.org/>

#### Revision

BSR/UL 588-202x, Standard for Safety for Seasonal and Holiday Decorative Products (revision of ANSI/UL 588-2018)  
This proposal clarifies the marking requirements for string lights employing medium screw lampholders, revises the 0.6 A limit on series strings, clarifies that modular trees are not in scope, and clarifies UV exposure requirements.

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

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

## Comment Deadline: July 26, 2021

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

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

#### Revision

BSR/AAMI ST91-202x, Flexible and semi-rigid endoscope processing in healthcare facilities (revision of ANSI/AAMI ST91-2015)

Provides guidelines for point-of-use treatment; transporting; leak testing (where indicated); cleaning; packaging (where indicated); high-level disinfecting and/or sterilizing, storage, and quality control procedures of flexible gastrointestinal (GI) endoscopes; flexible bronchoscopes; flexible ear, nose, and throat endoscopes; flexible urology endoscopes; and other types of reusable flexible endoscopes used in procedural and surgical settings; and semi-rigid operative endoscopes (e.g., choledochoscopes) used in health care facilities.

Single copy price: Free

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

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

### AGA (ASC Z380) (American Gas Association)

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### Addenda

BSR GPTC Z380.1-2018 TR 14-24-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review existing GM and ADB-2014-04, revise as appropriate flow reversal on transmission lines.

Single copy price: Free

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

Order from: Betsy Tansey; [btansey@aga.org](mailto:btansey@aga.org)

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

### AGA (ASC Z380) (American Gas Association)

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### Addenda

BSR GPTC Z380.1-2018 TR 20-01-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Clarify record retention requirements in light of IM requirements.

Single copy price: Free

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

Order from: Betsy Tansey; [btansey@aga.org](mailto:btansey@aga.org)

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

## Comment Deadline: July 26, 2021

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2018 TR 20-02-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

To ensure operators acknowledge state reporting incident definitions and time.

Single copy price: Free

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

Order from: Betsy Tansey; [btansey@aga.org](mailto:btansey@aga.org)

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

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2018 TR 2014-28-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review existing GM 5.4 Procedure – Inside leak or odor complaint, (i), and develop GM to address determining if there is an immediate threat to life and property, and actions to take in that situation.

Single copy price: Free

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Order from: Betsy Tansey; [btansey@aga.org](mailto:btansey@aga.org)

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#### **Addenda**

BSR GPTC Z380.1-2018 TR 2014-29-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review existing (m) under GM 5.4 Procedure – Inside leak or odor complaint, and develop GM to minimize the likelihood that the service line will be punctured.

Single copy price: Free

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#### **Addenda**

BSR GPTC Z380.1-2018 TR 2016-23-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Personnel involved in the design, construction, operation, and maintenance of petroleum gas systems should be thoroughly familiar with the applicable provisions of the Federal Regulations and referenced NFPA Standards (see §192.7 for IBR).

Single copy price: Free

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## Comment Deadline: July 26, 2021

### **AGA (ASC Z380) (American Gas Association)**

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2017-02-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

To revise GMA G-192-11 and G-192-11A to align appendices for all but technical differences due to difference in properties of the gas.

Single copy price: Free

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2017-12-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review Amdt. 191-24 re Safety of Underground Natural Gas Storage and recommend revisions to GM as appropriate.

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2017-15-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review ADB-2017-01, Deactivation of Threats, and revise GM as appropriate.

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2018-13-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Correct the guidance material under 2.3(a)(3) and the Flow Chart under 3 for Type B gathering lines.

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2018-15-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

To request a review and amend as appropriate GM to address coatings.

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2018-24-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review existing GM and determine if changes are appropriate in light of National Transportation Safety Board Safety Recommendation Report "Installation of PermaLock Mechanical Tapping Tee Assemblies." {NTSB Report in TR Package - not copied here.}

Single copy price: Free

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#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2019-46-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review existing GM and revise as appropriate in light of Amendment 192-125.

Single copy price: Free

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400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### ***Addenda***

BSR GPTC Z380.1-2018 TR 2019-47-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review and develop GM as appropriate in light of Amendment 192-125.

Single copy price: Free

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

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## Comment Deadline: July 26, 2021

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#### **Addenda**

BSR GPTC Z380.1-2018 TR 2020-12-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Add Guide Material based on lessons learned from the review of this State Incident Report.

Single copy price: Free

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400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2018 TR 2020-16-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Clarify the statement in 5.4(a) and evaluate appropriateness of “shall” in same sentence. (See LB2-2020-TR 19-30 comments.)

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#### **Addenda**

BSR GPTC Z380.1-2018 TR 2020-22-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Revising text - change the word “diffraction” to “refraction.”

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400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2018 TR 2020-24-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

Review and revise where necessary the references to threats in the GM and in Table headings to match the leak causes on PHMSA Form 7100.1-1 dated October 11, 2018.

Single copy price: Free

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

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## Comment Deadline: July 26, 2021

### AGA (ASC Z380) (American Gas Association)

400 North Capitol Street, NW, Suite 450, Washington, DC 20001 | e: [gptc@aga.org](mailto:gptc@aga.org), w: [www.aga.org](http://www.aga.org)

#### **Addenda**

BSR GPTC Z380.1-2018 TR 2021-28-201x, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018)

To provide guide material regarding class location changes studies, and why not every class location requires a study or a change in MAOP.

Single copy price: Free

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

Order from: Betsy Tansey; [btansey@aga.org](mailto:btansey@aga.org)

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

### ANS (American Nuclear Society)

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

#### **Reaffirmation**

BSR/ANS 8.12-1987 (R202x), Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors (reaffirmation of ANSI/ANS 8.12-1987 (R2016))

This standard provides guidance for operations with plutonium-uranium oxide fuel mixtures outside nuclear reactors. The principal objective of this standard is to provide subcritical configuration data for MOX fuel for various isotopic compositions and powder/pellet densities.

Single copy price: \$121.00

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

Order from: [orders@ans.org](mailto:orders@ans.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: P. Schroeder ([pschroeder@ans.org](mailto:pschroeder@ans.org))

### CAPA (Certified Automotive Parts Association)

c/o Intertek, 4700 Broadmoor SE, Suite 200, Kentwood, MI 49512 | e: [Bernadette.Kronberg@intertek.com](mailto:Bernadette.Kronberg@intertek.com), w: [www.CAPACertified.org](http://www.CAPACertified.org)

#### **New Standard**

BSR/CAPA 601-001-202x, Standard Test Method for Vibration Testing of Automotive Replacement Radiators (new standard)

To provide a test method that may be used to evaluate the quality of the heat exchanger fabrication processes, such as brazing, of automotive replacement radiators.

Single copy price: Free

Obtain an electronic copy from: [www.capacertified.org](http://www.capacertified.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [bernadette.kronberg@intertek.com](mailto:bernadette.kronberg@intertek.com)

### ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | e: [standards@esta.org](mailto:standards@esta.org), w: [www.esta.org](http://www.esta.org)

#### **Revision**

BSR E1.4-1-202x, Entertainment Technology - Manual Counterweight Rigging Systems (revision of ANSI E1.4-1-2016)

This is a revision of ANSI E1.4-1-2016. It applies to permanently installed, manually operated counterweight systems of stage rigging hardware for the raising, lowering, and suspension of scenery, lighting, and similar loads. The revision includes changes made to enhance clarity, and to update the requirements for consistency with current recommended practices and technology.

Single copy price: Free

Obtain an electronic copy from: [https://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](https://tsp.esta.org/tsp/documents/public_review_docs.php)

Order from: Richard Nix; [standards@esta.org](mailto:standards@esta.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Richard Nix; [standards@esta.org](mailto:standards@esta.org)



## Comment Deadline: July 26, 2021

### **NCPDP (National Council for Prescription Drug Programs)**

9240 East Raintree Drive, Scottsdale, AZ 85260 | e: mweiker@ncdp.org, w: www.ncdp.org

#### **Revision**

BSR/NCPDP RTPB Standard v12-202x, NCPDP Real-Time Prescription Benefit Standard v12 (revision and redesignation of ANSI/NCPDP RTPB Standard v11-2020)

The NCPDP Real-Time Prescription Benefit (RTPB) Standard Implementation Guide is intended to meet the industry need within the pharmacy services sector to facilitate the ability for pharmacy benefit payers/processors to communicate to providers and to ensure a consistent implementation of the standard throughout the industry. The RTPB Standard enables the exchange of patient eligibility, product coverage, and benefit financials for a chosen product and pharmacy, and identifies coverage restrictions, and alternatives when they exist.

Single copy price: \$200.00 (non-member)

Obtain an electronic copy from: mweiker@ncdp.org

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

### **NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | e: Khaled.Masri@nema.org, w: www.nema.org

#### **Revision**

BSR ICEA S-107-704-202x, Broadband Buried Service Wire, Filled, Polyolefin Insulated, Copper Conductor (revision of ANSI/ICEA S-107-704-2012)

This Standard covers material, mechanical, and electrical requirements for Broadband Buried Service Wire (BB-BSW) or less than or equal to 6 pair, intended for use principally in extending a circuit from a broadband cable terminal to a subscriber's network interface device (NID).

Single copy price: \$147.00

Obtain an electronic copy from: KHALED.MASRI@NEMA.ORG

Order from: Communications@nema.org

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

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

140 Philips Rd, Exton, PA 19341 | e: kcooney@scte.org, w: www.scte.org

#### **Reaffirmation**

BSR/SCTE 46-2014 (R202x), Test Method for AC to DC Outdoor Power Supplies (reaffirmation of ANSI/SCTE 46-2014)

The purpose of this standard is to characterize, document, and define test methods for AC-to-DC outdoor plant power supplies. These tests involve the measurement of AC input parameters and DC output parameters. The application of uniform test methods for power supplies will allow fair performance comparisons to be made between different power supplies.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

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

140 Philips Rd, Exton, PA 19341 | e: kcooney@scte.org, w: www.scte.org

#### **Revision**

BSR/SCTE 236-202x, Content Metadata (revision of ANSI/SCTE 236-2017)

This standard describes the grammar needed to represent information pertinent to the distribution, presentation, and consumption of multimedia content. In a normal use case, the metadata originates from a provider and is distributed to operators.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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## Comment Deadline: July 26, 2021

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | e: [kelly.smoke@ul.org](mailto:kelly.smoke@ul.org), w: <https://ul.org/>

#### *Revision*

BSR/UL 499-202x, Standard for Safety for Electric Heating Appliances (revision of ANSI/UL 499-2017)

(1) PTC heater endurance cycles for glue guns; (2) UL 746C enclosures; (3) Supply cord length of instantaneous water heaters; (4) Overcurrent protection; (5) Electronic media instructions; (6) Addition of IEC 62471 for ultraviolet (UV) radiation evaluation; and (7) Addition of UL 969A as a replacement to existing permanency of marking requirements for cord tags.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS

Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

## Comment Deadline: August 10, 2021

### CSA (CSA America Standards Inc.)

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

#### *Reaffirmation*

BSR/CSA FC 3-2004 (R202x), Portable Fuel Cell Power Systems (reaffirmation of ANSI/CSA FC3-2004 (R2017))

This Standard applies to AC- and DC-type portable fuel-cell power systems, with a rated output voltage not exceeding 600 V, for commercial, industrial, and residential indoor and outdoor use in non-hazardous locations, in accordance with the Rules of the National Electric Code, ANSI/NFPA 70.

Single copy price: Free

Obtain an electronic copy from: [david.zimmerman@csagroup.org](mailto:david.zimmerman@csagroup.org)

Send comments (copy [psa@ansi.org](mailto:psa@ansi.org)) to: [david.zimmerman@csagroup.org](mailto:david.zimmerman@csagroup.org)

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

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

#### *National Adoption*

INCITS/ISO/IEC 14165-147:2021 [202x], Information technology - Fibre Channel - Part 147: Physical Interfaces - 7 (FC-PI-7) (identical national adoption of ISO/IEC 14165-147:2021)

Describes the physical interface portions of high-performance optical link variants that support the higher level Fibre Channel protocols including FC-FS-4 (reference [1]) and FC-FS-5 (reference [2]). FC-PI-7 specifies 64GFC, 32GFC and 128GFC are described in FC-PI-6 (reference [3]) and FC-PI- 6P (reference [4]), respectively. 16GFC, 8GFC and 4GFC are described in FC-PI-5 (reference [5]).

Single copy price: \$200.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Order from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 14496-32:2021 [202x], Information technology - Coding of audio-visual objects - Part 32: File format reference software and conformance (identical national adoption of ISO/IEC 14496-32:2021)  
Describes the reference software and conformance suite for the file format documents in MPEG-4 and MPEG-H. Since these documents share a lot of technology, their reference software and conformance program are being handled together. These documents are: ISO/IEC 14496-12, ISO/IEC 14496-14, ISO/IEC 14496-15, ISO/IEC 14496-30, and ISO/IEC 23008-12.

Single copy price: \$149.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Order from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 21823-1:2019 [202x], Internet of things (IoT) - Interoperability for IoT systems - Part 1: Framework (identical national adoption of ISO/IEC 21823-1:2019)

Provides an overview of interoperability as it applies to IoT systems and a framework for interoperability for IoT systems. This document enables IoT systems to be built in such a way that the entities of the IoT system are able to exchange information and mutually use the information in an efficient way. This document enables peer-to-peer interoperability between separate IoT systems. This document provides a common understanding of interoperability as it applies to IoT systems and the various entities within them.

Single copy price: \$149.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Order from: <http://webstore.ansi.org/>

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

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

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

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

INCITS/ISO/IEC 21823-2:2020 [202x], Internet of things (IoT) - Interoperability for IoT systems - Part 2: Transport interoperability (identical national adoption of ISO/IEC 21823-2:2020)

Specifies a framework and requirements for transport interoperability, in order to enable the construction of IoT systems with information exchange, peer-to-peer connectivity and seamless communication both between different IoT systems and also among entities within an IoT system. This document specifies: transport interoperability interfaces and requirements between IoT systems; transport interoperability interfaces and requirements within an IoT system.

Single copy price: \$111.00

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## Comment Deadline: August 10, 2021

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

INCITS/ISO/IEC 23002-7:2021 [202x], Information technology - MPEG video technologies - Part 7: Versatile supplemental enhancement information messages for coded video bitstreams (identical national adoption of ISO/IEC 23002-7:2021) Specifies the syntax and semantics of video usability information (VUI) parameters and supplemental enhancement information (SEI) messages. The VUI parameters and SEI messages defined in this document are designed to be conveyed within coded video bitstreams in a manner specified in a video coding specification or to be conveyed by other means determined by the specifications for systems that make use of such coded video bitstreams. This document is particularly intended for use with coded video bitstreams as specified by Rec. ITU-T H.266 | ISO/IEC 23090-3, although it can also be used with other types of coded video bitstreams.

Single copy price: \$250.00

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

INCITS/ISO/IEC 29182-7:2015 [202x], Information technology - Sensor networks: Sensor Network Reference Architecture (SNRA) - Part 7: Interoperability guidelines (identical national adoption of ISO/IEC 29182-7:2015) Provides a general overview and guidelines for achieving interoperability between sensor network services and related entities in a heterogeneous sensor network.

Single copy price: \$73.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 30140-1:2018 [202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 1: Overview and requirements (identical national adoption of ISO/IEC 30140-1:2018)

Provides a general overview of underwater acoustic sensor networks (UWASN). It describes their main characteristics in terms of the effects of propagation variability and analyses the main differences with respect to terrestrial networks. It further identifies the specificities of UWASN and derives some specific and general requirements for these networks.

Single copy price: \$200.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 30140-3:2018 [202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 3: Entities and interface (identical national adoption of ISO/IEC 30140-3:2018)

The 30140 series provides general requirements, reference architecture, and high-level interface guidelines supporting interoperability among underwater acoustic sensor networks (UWASNs). Part 3 provides descriptions for the entities and interfaces of the UWASN reference architecture.

Single copy price: \$149.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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## Comment Deadline: August 10, 2021

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#### **National Adoption**

INCITS/ISO/IEC 30140-4:2018 [202x], Information technology - Underwater acoustic sensor network (UWASN) - Part 4: Interoperability (identical national adoption of ISO/IEC 30140-4:2018)

The ISO/IEC 30140 series provides general requirements, reference architecture and high-level interface guidelines supporting interoperability among underwater acoustic sensor networks (UWASNs). Part 4 provides information on interoperability requirements among entities within a UWASN and among various UWASNs.

Single copy price: \$111.00

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Order from: <http://webstore.ansi.org/>

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#### **National Adoption**

INCITS/ISO/IEC 20924:2021 [202x], Information technology - Internet of Things (IoT) - Vocabulary (identical national adoption of ISO/IEC 20924:2021)

Provides a definition of Internet of Things along with a set of terms and definitions. This document is a terminology foundation for the Internet of Things.

Single copy price: \$73.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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#### **National Adoption**

INCITS/ISO/IEC 30101:2014 [202x], Information technology - Sensor networks: Sensor network and its interfaces for smart grid system (identical national adoption of ISO/IEC 30101:2014)

For sensor networks in order to support smart grid technologies for power generation, distribution, networks, energy storage, load efficiency, control and communications, and associated environmental challenges. Characterizes the requirements for sensor networks to support the aforementioned applications and challenges. Data from sensors in smart grid systems is collected, transmitted, published, and acted upon to ensure efficient coordination of the various systems and subsystems. The intelligence derived through the sensor networks supports synchronization, monitoring and responding, command and control, data/information processing, security, information routing, and human-grid display/graphical interfaces.

Single copy price: \$250.00

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#### **National Adoption**

INCITS/ISO/IEC 30128:2014 [202x], Information technology - Sensor networks - Generic Sensor Network Application Interface (identical national adoption of ISO/IEC 30128:2014)

Specifies the interfaces between the application layers of service providers and sensor network gateways, which is Protocol A in interface 3, defined in ISO/IEC 29182-5.

Single copy price: \$200.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 30141:2018 [202x], Internet of Things (IoT) - Reference Architecture (identical national adoption of ISO/IEC 30141:2018)

Provides a standardized IoT Reference Architecture using a common vocabulary, reusable designs and industry best practices. It uses a top down approach, beginning with collecting the most important characteristics of IoT, abstracting those into a generic IoT Conceptual Model, deriving a high level system based reference with subsequent dissection of that model into five architecture views from different perspectives.

Single copy price: \$250.00

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

INCITS/ISO/IEC 30142:2020 [202x], Information technology - Underwater acoustic sensor network (UWASN) - Network management system overview and requirements (identical national adoption of ISO/IEC 30142:2020)

Provides the overview and requirements of a network management system in underwater acoustic sensor network (UWASN) environment. It specifies the following: functions which support underwater network management system; entities required for underwater network management system; data about the communication between elements in underwater network management system; guidelines to model the underwater network management system; – general and functional requirements of underwater network management system.

Single copy price: \$200.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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

INCITS/ISO/IEC 30143:2020 [202x], Information technology - Underwater acoustic sensor network (UWASN) - Application profiles (identical national adoption of ISO/IEC 30143:2020)

Provides the guidelines for designing and developing new applications in the underwater environment such as fish farming, environment monitoring, harbour security, etc. This document also: provides the components required for developing the application; provides instructions for modelling the application with examples; helps the user to understand the communication between the elements in the application for modelling the communication between elements; guides the user with the design process of underwater applications.

Single copy price: \$200.00

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## Comment Deadline: August 10, 2021

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

#### **National Adoption**

INCITS/ISO/IEC 30141:2018/COR1:2018 [202x], Internet of Things (IoT) - Reference Architecture - Technical Corrigendum 1 (identical national adoption of ISO/IEC 30141:2018/COR1:2018)  
Technical Corrigendum 1 to ISO/IEC 30141:2018.

Single copy price: Free

Obtain an electronic copy from: <http://webstore.ansi.org/>

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | e: [Nicolette.A.Weeks@ul.org](mailto:Nicolette.A.Weeks@ul.org), w: <https://ul.org/>

#### **National Adoption**

BSR/UL 12402-5-202X, Standard for Personal Flotation Devices - Part 5: Buoyancy Aids (Level 50) - Safety Requirements (national adoption of ISO 12402-5 with modifications and revision of ANSI/UL 12402-5-2021)

UL proposes an update to add a definition of whitewater, a revision to align with UL 1123 Infant Buoyancy Aid Testing, an update to the rearming kit requirements for inflatable buoyancy aids, and a correction of Infant and Infant/Child mass markings.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

### UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | e: [Nicolette.A.Weeks@ul.org](mailto:Nicolette.A.Weeks@ul.org), w: <https://ul.org/>

#### **National Adoption**

BSR/UL 12402-9-202X, Standard for Personal Flotation Devices - Part 9: Test Methods (national adoption of ISO 12402-9 with modifications and revision of ANSI/UL 12402-9-2021)

UL proposes a revision to match the UL 12402-5 Infant Buoyancy Aid update, a correction to the test frame dimensions, and an update to the test pan dimensions for Figure 10DV.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

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

### INMM (ASC N15) (Institute of Nuclear Materials Management)

1000 Independence Ave, SW, Washington, DC 20585 | e: [lynne.preston@hq.doe.gov](mailto:lynne.preston@hq.doe.gov), w: [www.inmm.org](http://www.inmm.org)

ANSI N15.36-2010, Methods of Nuclear Material Control - Measurement Control Program - Nondestructive Assay Measurement Control and Assurance

# Final Actions on American National Standards

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

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

200 Massachusetts Avenue NW, Washington, DC 20001 | e: goodsons@api.org, w: www.api.org

### **Reaffirmation**

ANSI/API MPMS CH. 14.3.3-2012 (R2021), Orifice Metering of Natural Gas and Other Related Hydrocarbon Fluids - Concentric, Square-edged Orifice Meters, Part 3 - Natural Gas Applications (reaffirmation of ANSI/API MPMS CH. 14.3.3-2012) Final Action Date: 6/3/2021

### **Reaffirmation**

ANSI/API MPMS Ch. 21.1-2011 (R2021), Flow Measurement Using Electronic Metering Systems - Electronic Gas Measurement (reaffirmation of ANSI/API MPMS Ch. 21.1-2011) Final Action Date: 6/3/2021

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

Two Park Avenue, 6th Floor, New York, NY 10016-5990 | e: ansibox@asme.org, w: www.asme.org

### **Reaffirmation**

ANSI/ASME A112.19.19-2016 (R2021), Vitreous China Nonwater Urinals (reaffirmation of ANSI/ASME A112.19.19-2016) Final Action Date: 6/1/2021

### **Reaffirmation**

ANSI/ASME B107.600-2016 (R2021), Screwdrivers and Screw Bits (reaffirmation of ANSI/ASME B107.600-2016) Final Action Date: 6/4/2021

## **ASTM (ASTM International)**

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | e: accreditation@astm.org, w: www.astm.org

### **Reaffirmation**

ANSI/ASTM E2819-2011 (R2021), Practice for Single- and Multi-Level Continuous Sampling of a Stream of Product by Attributes Indexed by AQL (reaffirmation of ANSI/ASTM E2819-2011 (R2015)) Final Action Date: 6/1/2021

### **Revision**

ANSI/ASTM D1655-2021, Specification for Aviation Turbine Fuels (revision of ANSI/ASTM D1655-2020c) Final Action Date: 5/18/2021

### **Revision**

ANSI/ASTM D6300-2021, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products, Liquid Fuels, and Lubricants (revision of ANSI/ASTM D6300-2020b) Final Action Date: 5/18/2021

### **Revision**

ANSI/ASTM E662-2021, Test Method for Specific Optical Density of Smoke Generated by Solid Materials (revision of ANSI/ASTM E662-2021) Final Action Date: 6/1/2021

### **Revision**

ANSI/ASTM E1353-2021, Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture (revision of ANSI/ASTM E1353-2016) Final Action Date: 6/1/2021

### **Revision**

ANSI/ASTM E1995-2021, Test Method for Measurement of Smoke Obscuration Using a Conical Radiant Source in a Single Closed Chamber, with the Test Specimen Oriented Horizontally (revision of ANSI/ASTM E1995-2018) Final Action Date: 6/1/2021



**ASTM (ASTM International)**

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | e: accreditation@astm.org, w: www.astm.org

**Revision**

ANSI/ASTM E2708-2021, Terminology for Accreditation and Certification (revision of ANSI/ASTM E2708-2021) Final Action Date: 5/15/2021

**Revision**

ANSI/ASTM E2708-2021a, Terminology for Accreditation and Certification (revision of ANSI/ASTM E2708-2018A) Final Action Date: 5/18/2021

**Revision**

ANSI/ASTM E2730-2021, Practice for Calibration and Use of Thermocouple Reference Junction Probes in Evaluation of Electronic Reference Junction Compensation Circuits (revision of ANSI/ASTM E2730-2017) Final Action Date: 5/18/2021

**BHMA (Builders Hardware Manufacturers Association)**

17 Faulkner Drive, Niantic, CT 06357 | e: mtierney@kellencompany.com, w: www.buildershardware.com

**Revision**

ANSI/BHMA A156.1-2021, Standard for Butts and Hinges (revision of ANSI/BHMA A156.1-2016) Final Action Date: 6/1/2021

**ECIA (Electronic Components Industry Association)**

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

**Reaffirmation**

ANSI/EIA 977-2017 (R2021), Test Method Electronic Passive Components Exposure to Atmospheric Sulfur (reaffirmation of ANSI/EIA 977-2017) Final Action Date: 6/3/2021

**NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | e: Khaled.Masri@nema.org, w: www.nema.org

**New Standard**

ANSI ICEA P-124-736-2021, Code Words for 600V Underground Distribution Cable (new standard) Final Action Date: 6/3/2021

**New Standard**

ANSI ICEA P-127-737-2021, Code Words for Overhead Aluminum-Covered Conductors and 600-Volt Overhead Cables (new standard) Final Action Date: 6/3/2021

**NFPA (National Fire Protection Association)**

One Batterymarch Park, Quincy, MA 02269-9101 | e: PFoley@nfpa.org, w: www.nfpa.org

**Revision**

ANSI/NFPA 252-2022, Standard Methods of Fire Tests of Door Assemblies (revision of ANSI/NFPA 252-2017) Final Action Date: 6/4/2021

**Revision**

ANSI/NFPA 257-2022, Standard on Fire Test for Window and Glass Block Assemblies (revision of ANSI/NFPA 257-2017) Final Action Date: 6/4/2021

**Revision**

ANSI/NFPA 288-2022, Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies (revision of ANSI/NFPA 288-2017) Final Action Date: 6/4/2021

**NIRMA (Nuclear Information and Records Management Association)**

245 Sunnyridge Avenue, #41, Fairfield, CT 06824 | e: NIRMA@nirma.org, w: <https://www.nirma.org>

**Revision**

ANSI/NIRMA CM 1.0-2021, Guidelines for Configuration Management of Nuclear Facilities (revision of ANSI/NIRMA CM 1.0-2007 (R2015)) Final Action Date: 6/1/2021

**NSF (NSF International)**

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

**Revision**

ANSI/NSF 455-3-2021 (i25r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019) Final Action Date: 6/4/2021

**Revision**

ANSI/NSF 455-3-2021 (i26r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019) Final Action Date: 6/5/2021

**UL (Underwriters Laboratories)**

333 Pfingsten Road, Northbrook, IL 60062-2096 | e: Susan.P.Malohn@ul.org, w: <https://ul.org/>

**Reaffirmation**

ANSI/UL 3730-2017 (R2021), Standard for Safety for Photovoltaic Junction Boxes (reaffirmation of ANSI/UL 3730-2017) Final Action Date: 6/4/2021

**Revision**

ANSI/UL 153-2021, Standard for Safety for Portable Electric Luminaires (revision of ANSI/UL 153-2020) Final Action Date: 6/1/2021

**Revision**

ANSI/UL 1059-2021, Standard for Safety for Terminal Blocks (revision of ANSI/UL 1059-2020) Final Action Date: 6/6/2021

**Revision**

ANSI/UL 6703-2021, Standard for Safety for Connectors for Use in Photovoltaic Systems (revision of ANSI/UL 6703-2020) Final Action Date: 6/3/2021

# Call for Members (ANS Consensus Bodies)

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

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

901 N. Glebe Road, Suite 300, Arlington, VA 22203 | e: abenedict@aami.org, w: www.aami.org  
Amanda Benedict; abenedict@aami.org

BSR/AAMI ST91-202x, Flexible and semi-rigid endoscope processing in healthcare facilities (revision of ANSI/AAMI ST91-2015)

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

520 N. Northwest Highway, Park Ridge, IL 60068 | e: LBauerschmidt@assp.org, w: www.assp.org  
Lauren Bauerschmidt; LBauerschmidt@assp.org

BSR/ASSP Z359.6-202x, Specifications and Design Requirements for Active Fall Protection Systems (revision and redesignation of ANSI ASSE Z359.6-2016)

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

1919 S. Eads Street, Arlington, VA 22202 | e: cakkers@cta.tech, w: www.cta.tech  
Catrina Akers; cakkers@cta.tech

BSR/CTA 774-E-202x, TV Receiving Antenna Performance Presentation and Measurement (revision and redesignation of ANSI/CTA 774-D-2020)

CTA is seeking new members to join the consensus body. CTA and R4 The Video Systems Committee are particularly interested in adding new members (called "users") who acquire video products from those who create them and others.

BSR/CTA 2009-C-202x, Performance Specification for Public Alert Receivers (revision and redesignation of ANSI/CTA 2009-B-2010 (R2021))

CTA is seeking new members to join the consensus body. CTA and the R6 The Intelligent Mobility Committee particularly interested in adding new members (called "users") who acquire portable, handheld, mobility or in-vehicle products from those who create them, and in adding new members who neither produce nor use portable, handheld, mobile or in-vehicle electronics products, such as regulators, associations, and others (called members with a "general interest").

BSR/CTA 2028-C-202x, Color Codes for Outdoor TV Receiving Antennas (revision and redesignation of ANSI/CTA 2028-B-2014 (R2019))

CTA is seeking new members to join the consensus body. CTA and the R4 The Video Systems Committee are particularly interested in adding new members (called "users") who acquire video products from those who create them.

BSR/CTA 2032-C-202x, Indoor TV Receiving Antennas Performance Standard (revision and redesignation of ANSI/CTA 2032-B-2014 (R2019))

CTA is seeking new members to join the consensus body. CTA and the R4 The Video Systems Committee particularly interested in adding new members (called "users") who acquire video products from those who create them.

BSR/CTA 2088-A-202x, Baseline Cybersecurity Standard for Devices and Device Systems (revision and redesignation of ANSI/CTA 2088-2020)

CTA is seeking new members to join the consensus body. CTA and The R14 Cybersecurity and Privacy Management Committee are particularly interested in adding new members (called "users") who develops standards, recommended practices, and technical reports in the area of cybersecurity and privacy management, for developers of connected devices.

**NEMA (ASC C8) (National Electrical Manufacturers Association)**

1300 North 17th Street, Suite 900, Arlington, VA 22209 | e: Khaled.Masri@nema.org, w: www.nema.org  
Khaled Masri; Khaled.Masri@nema.org

BSR/ICEA S-107-704-202x, Broadband Buried Service Wire, Filled, Polyolefin Insulated, Copper  
Conductor (revision of ANSI/ICEA S-107-704-2012)

**NSF (NSF International)**

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | e: mleslie@nsf.org, w: www.nsf.org  
Monica Leslie; mleslie@nsf.org

BSR/NSF 42-202x (i113r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42  
-2020)

BSR/NSF 385-202x (i8r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

BSR/NSF 385-202x (i9r1), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

BSR/NSF/CAN 61-202x (i157r1), Drinking Water System Components - Health Effects (revision of  
ANSI/NSF/CAN 61-2020)

**OPEI (Outdoor Power Equipment Institute)**

1605 King Street, Alexandria, VA 22314 | e: gknott@opei.org, w: www.opei.org  
Greg Knott; gknott@opei.org

BSR/OPEI B71.9-202x, Standard for Multipurpose Off-Highway Utility Vehicles (revision of ANSI/OPEI  
B71.9-2016)

# Call for Members (ANS Consensus Bodies)

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## ANSI Accredited Standards Developer

### AAMI - Association for the Advancement of Medical Instrumentation

AAMI CN, Small bore connectors Committee. The committee is seeking user, regulatory and general interest members to participate in the development of AAMI/ISO 80369-1/Ed.3, Small-bore connectors for liquids and gases in healthcare applications – Part 1: General requirements; AAMI/ISO 80369-2/Ed.1, Small-bore connectors for liquids and gases in healthcare applications – Part 2: Connectors for respiratory applications; and AAMI/ISO 80369-20/Ed.2, Small-bore connectors for liquids and gases in healthcare applications – Part 20: Common test methods. Contact: Colleen Elliott, CElliott@aami.org

AAMI CN-WG01, Luer activated valves. The committee is seeking user, regulatory and general interest members to participate in the development of AAMI CN27, General requirements for Luer activated valves (LAVs) incorporated into medical devices for intravascular applications. Contact: Colleen Elliott, CElliott@aami.org

## ANSI Accredited Standards Developer

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

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

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

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

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

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

# Call for Members (ANS Consensus Bodies)

## ANSI Accredited Standards Developer

### SCTE (Society of Cable Telecommunications Engineers)

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

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

Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at [www.scte.org](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

# Accreditation Announcements (Standards Developers)

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## Public Review of Application for ASD Accreditation

### BEPP - Board of Executive Protection Professionals

**Comment Deadline: July 5, 2021**

The **Board of Executive Protection Professionals (BEPP)**, a new ANSI member in 2021, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on BEPP-sponsored American National Standards. BEPP's proposed scope of standards activity is as follows:

*BEPP is pursuing a national standard that focuses on Executive Protection. This standard will establish the compulsory platform for competently, professionally, and ethically providing this specialized service for high-net-worth individuals, government officials, business executives, foreign diplomats, and other at-risk individuals. Currently, there is no established standard in this complex domain, allowing unqualified individuals to provide support, placing those in their charge at increased physical risk and liability.*

To obtain a copy of BEPP's application and proposed operating procedures or to offer comments, please contact: Mr. James Cameron, President/CEO, Board of Executive Protection Professionals, 8131 Dolce Flore Avenue, Las Vegas, NV 89178; phone: 714.510.0671; email: info@ep-board.com. Please submit any comments to BEPP by **July 5, 2021**, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: Jthompso@ANSI.org). As the proposed procedures are available electronically, the public review period is 30 days.

[Click here to read BEPP's proposed operating procedures.](#)

# American National Standards (ANS) Process

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

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

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

- ANSI Essential Requirements: Due process requirements for American National Standards (always current edition): [www.ansi.org/essentialrequirements](http://www.ansi.org/essentialrequirements)
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): [www.ansi.org/standardsaction](http://www.ansi.org/standardsaction)
- Accreditation information – for potential developers of American National Standards (ANS): [www.ansi.org/sdoaccreditation](http://www.ansi.org/sdoaccreditation)
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): [www.ansi.org/asd](http://www.ansi.org/asd)
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: [www.ansi.org/asd](http://www.ansi.org/asd)
- American National Standards Key Steps: [www.ansi.org/anskeysteps](http://www.ansi.org/anskeysteps)
- American National Standards Value: [www.ansi.org/ansvalue](http://www.ansi.org/ansvalue)
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: <https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR): <https://ibr.ansi.org/>
- ANSI - Education and Training: [www.standardslearn.org](http://www.standardslearn.org)

If you have a question about the ANS process and cannot find the answer, please email us at: [psa@ansi.org](mailto:psa@ansi.org). Please also visit Standards Boost Business at [www.standardsboostbusiness.org](http://www.standardsboostbusiness.org) for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org>



# 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.

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- 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)
  - IES (Illuminating Engineering Society)
  - ITI (InterNational Committee for Information Technology Standards)
  - MHI (Material Handling Industry)
  - NAHBRC (NAHB Research Center, Inc.)
  - NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
  - NCPDP (National Council for Prescription Drug Programs)
  - NEMA (National Electrical Manufacturers Association)
  - NISO (National Information Standards Organization)
  - NSF (NSF International)
  - PRCA (Professional Ropes Course Association)
  - RESNET (Residential Energy Services Network, Inc.)
  - SAE (SAE International)
  - TCNA (Tile Council of North America)
  - TIA (Telecommunications Industry Association)
  - UL (Underwriters Laboratories)

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

# ANSI-Accredited Standards Developers (ASD) Contacts

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

## AAMI

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

## ADA (Organization)

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

## AGA (ASC Z380)

American Gas Association  
400 North Capitol Street, NW  
Suite 450  
Washington, DC 20001  
[www.aga.org](http://www.aga.org)  
D'Shante Lucas  
[gptc@aga.org](mailto:gptc@aga.org)

## ANS

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

## API

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

## ASME

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

## ASME

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

## ASSP (Safety)

American Society of Safety Professionals  
520 N. Northwest Highway  
Park Ridge, IL 60068  
[www.assp.org](http://www.assp.org)  
Lauren Bauerschmidt  
[LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

## ASTM

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

## BHMA

Builders Hardware Manufacturers  
Association  
17 Faulkner Drive  
Niantic, CT 06357  
[www.buildershardware.com](http://www.buildershardware.com)  
Michael Tierney  
[mtierney@kellencompany.com](mailto:mtierney@kellencompany.com)

## CAPA

Certified Automotive Parts Association  
c/o Intertek  
4700 Broadmoor SE, Suite 200  
Kentwood, MI 49512  
[www.CAPACertified.org](http://www.CAPACertified.org)  
Bernadette Kronberg  
[Bernadette.Kronberg@intertek.com](mailto:Bernadette.Kronberg@intertek.com)

## CSA

CSA America Standards Inc.  
8501 E. Pleasant Valley Road  
Cleveland, OH 44131  
[www.csagroup.org](http://www.csagroup.org)  
David Zimmerman  
[ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

## CTA

Consumer Technology Association  
1919 S. Eads Street  
Arlington, VA 22202  
[www.cta.tech](http://www.cta.tech)  
Catrina Akers  
[cakers@cta.tech](mailto:cakers@cta.tech)

## ECIA

Electronic Components Industry  
Association  
13873 Park Center Road  
Suite 315  
Herndon, VA 20171  
[www.ecianow.org](http://www.ecianow.org)  
Laura Donohoe  
[ldonohoe@ecianow.org](mailto:ldonohoe@ecianow.org)

## ESTA

Entertainment Services and Technology  
Association  
271 Cadman Plaza  
P.O. Box 23200  
Brooklyn, NY 11202  
[www.esta.org](http://www.esta.org)  
Richard Nix  
[standards@esta.org](mailto:standards@esta.org)

## ANSI-Accredited Standards Developers Contact Information

**FM**

FM Approvals  
1151 Boston-Providence Turnpike  
Norwood, MA 02062  
www.fmglobal.com  
Josephine Mahnken  
josephine.mahnken@fmapprovals.com

**IAPMO (ASSE Chapter)**

ASSE International Chapter of IAPMO  
18927 Hickory Creek Drive  
Suite 220  
Mokena, IL 60448  
www.asse-plumbing.org  
Terry Burger  
terry.burger@asse-plumbing.org

**IAPMO (Z)**

International Association of Plumbing &  
Mechanical Officials  
5001 East Philadelphia Street  
Ontario, CA 91761  
https://www.iapmostandards.org  
Kyle Thompson  
standards@iapmostandards.org

**ITI (INCITS)**

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

**NCPDP**

National Council for Prescription Drug  
Programs  
9240 East Raintree Drive  
Scottsdale, AZ 85260  
www.ncdp.org  
Margaret Weiker  
mweiker@ncdp.org

**NEMA (ASC C8)**

National Electrical Manufacturers  
Association  
1300 North 17th Street  
Suite 900  
Arlington, VA 22209  
www.nema.org  
Khaled Masri  
Khaled.Masri@nema.org

**NFPA**

National Fire Protection Association  
One Batterymarch Park  
Quincy, MA 02269  
www.nfpa.org  
Patrick Foley  
PFoley@nfpa.org

**NIRMA**

Nuclear Information and Records  
Management Association  
245 Sunnyridge Avenue  
#41  
Fairfield, CT 06824  
https://www.nirma.org  
Sarah Perkins  
NIRMA@nirma.org

**NSF**

NSF International  
789 N. Dixboro Road  
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**OPEI**

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Greg Knott  
gknott@opei.org

**SCTE**

Society of Cable Telecommunications  
Engineers  
140 Philips Rd  
Exton, PA 19341  
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Kim Cooney  
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**UL**

Underwriters Laboratories  
12 Laboratory Drive  
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**UL**

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333 Pflingsten Road  
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Megan Monsen  
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mitchell.gold@ul.org

Susan Malohn  
Susan.P.Malohn@ul.org



# ISO Draft International Standards

This section lists proposed standards that the International Organization for Standardization (ISO) is 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 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. The final date for offering comments is listed after each draft.

## ORDERING INSTRUCTIONS

ISO Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an ISO 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.

## AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/FDIS 11132, Sensory analysis - Methodology - Guidelines for the measurement of the performance of a quantitative descriptive sensory panel - 11/2/2029, \$82.00

ISO/FDIS 22753, Molecular biomarker analysis - Method for the statistical evaluation of analytical results obtained in testing sub-sampled groups of genetically modified seeds and grains - General requirements and definitions - 11/13/2015, \$93.00

ISO/DIS 23637, Cereals - Determination of cadmium content by graphite furnace atomic absorption spectrometry with diluted nitric acid extraction - 11/6/2030, \$53.00

ISO/DIS 24052, Spices and condiments - Dried sumac - Specification - 11/7/2000, \$46.00

ISO/DIS 22942-1, Molecular biomarker analysis - Isothermal polymerase chain reaction (isoPCR) methods - Part 1: General requirements - 11/7/2001, \$119.00

## AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 14302, Space systems - Electromagnetic compatibility requirements - 8/20/2021, \$112.00

ISO/DIS 24330, Space systems - Rendezvous and Proximity Operations (RPO) and On Orbit Servicing (OOS) - Programmatic principles and practices - 8/20/2021, \$71.00

## BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 16609, Financial services - Requirements for message authentication using symmetric techniques - 8/22/2021, \$62.00

## BUILDING CONSTRUCTION (TC 59)

ISO/DIS 11617, Building and civil engineering sealants - Determination of changes in cohesion and appearance of elastic weatherproofing sealants after exposure of statically cured specimens to artificial weathering and mechanical cycling - 8/27/2021, \$71.00

## CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

ISO/DIS 18113-1, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 1: Terms, definitions, and general requirements - 8/26/2021, \$125.00

ISO/DIS 18113-2, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 2: In vitro diagnostic reagents for professional use - 8/26/2021, \$58.00

ISO/DIS 18113-3, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 3: In vitro diagnostic instruments for professional use - 8/26/2021, \$53.00

ISO/DIS 18113-4, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 4: In vitro diagnostic reagents for self-testing - 8/26/2021, \$58.00

ISO/DIS 18113-5, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 5: In vitro diagnostic instruments for self-testing - 8/26/2021, \$53.00

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

ISO 8601-1/DAmD1, Date and time - Representations for information interchange - Part 1: Basic rules - Amendment 1 - 8/20/2021, \$33.00

**FERROUS METAL PIPES AND METALLIC FITTINGS (TC 5)**

ISO/DIS 23991, Irrigation applications of ductile iron pipelines - Product design and installation - 11/7/2002, \$93.00

**FERTILIZERS AND SOIL CONDITIONERS (TC 134)**

ISO/FDIS 20620, Fertilizers and soil conditioners - Determination of total nitrogen by combustion - 11/9/2017, \$40.00

**FINE CERAMICS (TC 206)**

ISO/FDIS 23739, Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods for chemical analysis of zirconium oxide powders - 11/12/2012, \$67.00

**FOOTWEAR (TC 216)**

ISO/FDIS 19957, Footwear - Test methods for heels - Heel pin holding strength - 11/5/2012, \$46.00

**INTERNAL COMBUSTION ENGINES (TC 70)**

ISO/DIS 7967-10, Reciprocating internal combustion engines - Vocabulary of components and systems - Part 10: Ignition systems - 8/21/2021, \$58.00

ISO/DIS 7967-12, Reciprocating internal combustion engines - Vocabulary of components and systems - Part 12: Exhaust emission control systems - 8/22/2021, \$46.00

**IRON ORES (TC 102)**

ISO/FDIS 4695, Iron ores for blast furnace feedstocks - Determination of the reducibility by the rate of reduction index -, \$58.00

**MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)**

ISO/FDIS 18797-2, Petroleum, petrochemical and natural gas industries - External corrosion protection of risers by coatings and linings - Part 2: Maintenance and field repair coatings for riser pipes - 11/8/2002, \$134.00

**METALLIC AND OTHER INORGANIC COATINGS (TC 107)**

ISO/FDIS 14922, Thermal spraying - Quality requirements for manufacturers of thermal sprayed coatings - Quality assurance system - 11/9/2026, \$82.00

**NUCLEAR ENERGY (TC 85)**

ISO/FDIS 2889, Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities - 11/3/2012, \$165.00

ISO/DIS 21243, Radiation protection - Performance criteria for laboratories performing initial cytogenetic dose assessment of mass casualties in radiological or nuclear emergencies - General principles and application to dicentric assay - 8/22/2021, \$71.00

**OPTICS AND OPTICAL INSTRUMENTS (TC 172)**

ISO/DIS 17123-6, Optics and optical instruments - Field procedures for testing geodetic and surveying instruments - Part 6: Rotating lasers - 8/21/2021, \$93.00

**OTHER**

ISO/DIS 14087, Leather - Physical and mechanical tests - Determination of bending force - 8/21/2021, \$46.00

**PAINTS AND VARNISHES (TC 35)**

ISO/DIS 8130-4, Coating powders - Part 4: Calculation of lower explosion limit - 8/21/2021, \$33.00

ISO/DIS 11997-3, Paints and varnishes - Determination of resistance to cyclic corrosion conditions - Part 3: Testing of coating systems on materials and components in automotive construction - 8/20/2021, \$82.00

ISO/DIS 19403-1, Paints and varnishes - Wettability - Part 1: Terminology and general principles - 8/20/2021, \$53.00

**PAPER, BOARD AND PULPS (TC 6)**

ISO/DIS 12625-4, Tissue paper and tissue products - Part 4: Determination of tensile strength, stretch at maximum force and tensile energy absorption - 11/7/2000, \$58.00

**PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)**

ISO 8222/DAmD1, Petroleum measurement systems - Calibration - Volumetric measures, proving tanks and field measures (including formulae for properties of liquids and materials) - Amendment 1: Correction of two typographical errors - 8/21/2021, \$29.00

**PLASTICS (TC 61)**

ISO/DIS 23927, Laminates and moulding compounds - Prepregs - Determination of tack - 8/26/2021, \$53.00

**RAILWAY APPLICATIONS (TC 269)**

ISO/DIS 23054-1, Railway applications - Track geometry quality - Part 1: Characterisation of track geometry and track geometry quality - 8/23/2021, \$102.00

**ROLLING BEARINGS (TC 4)**

ISO/FDIS 3031, Rolling bearings - Thrust needle roller and cage assemblies, thrust washers - Boundary dimensions, geometrical product specifications (GPS) and tolerance values - 11/5/2019, \$53.00

**RUBBER AND RUBBER PRODUCTS (TC 45)**

ISO/FDIS 19242, Rubber - Determination of total sulfur content by ion chromatography -, \$67.00

ISO/FDIS 22941, Rubber sheets for livestock -Dairy cattle - Specification - 11/12/2008, \$53.00

ISO/FDIS 4674-2, Rubber- or plastics-coated fabrics - Determination of tear resistance - Part 2: Ballistic pendulum method - 11/6/2017, \$46.00

ISO/FDIS 5470-2, Rubber- or plastics-coated fabrics - Determination of abrasion resistance - Part 2: Martindale abrader - 11/6/2017, \$46.00

**SHIPS AND MARINE TECHNOLOGY (TC 8)**

ISO/DIS 9875, Ships and marine technology - Marine echosounding equipment - 11/6/2030, \$88.00

ISO/DIS 11606, Ships and marine technology - Marine electromagnetic compasses - 11/6/2030, \$62.00

ISO/DIS 20672, Ships and marine technology - Rate of turn indicators - 11/6/2030, \$40.00

ISO/DIS 20673, Ships and marine technology - Electric rudder angle indicators - 11/6/2030, \$40.00

ISO/DIS 22555, Ships and marine technology - Propeller pitch indicators - 11/6/2030, \$40.00

ISO/DIS 24452, Ships and marine technology - Personal and group survival kit for use in polar water - 8/26/2021, \$82.00

**SMALL CRAFT (TC 188)**

ISO/DIS 21487.2, Small craft - Permanently installed petrol and diesel fuel tanks - 11/7/2002, \$71.00

**STARCH (INCLUDING DERIVATIVES AND BY-PRODUCTS) (TC 93)**

ISO/DIS 24683, High fructose syrup - Specifications and test methods - 8/20/2021, \$46.00

**STEEL (TC 17)**

ISO/DIS 15179, Hot-rolled twin-roll cast steel sheet of structural quality and high strength steel - 11/7/2000, \$53.00

ISO/DIS 15208, Continuous hot-dip zinc-coated twin-roll cast steel sheet of commercial quality - 11/7/2002, \$62.00

ISO/DIS 15211, Steel sheet, twin-roll cast, zinc-coated by the continuous hot-dip process, of structural quality and high strength - 11/6/2030, \$67.00

**TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)**

ISO/DIS 81346-10, Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 10: Power supply systems - 11/6/2030, \$107.00

**TECHNICAL SYSTEMS AND AIDS FOR DISABLED OR HANDICAPPED PERSONS (TC 173)**

ISO/FDIS 10535, Assistive products - Hoists for the transfer of disabled persons - Requirements and test methods - 11/7/2018, \$146.00

**TEXTILES (TC 38)**

ISO/DIS 24584, Textiles - Smart textiles - Test method for sheet resistance of conductive textiles using non-contact type - 11/7/2002, \$53.00

**TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

ISO/FDIS 6689, Equipment for harvesting - Combine harvesters and functional components - Vocabulary - 11/13/2030, \$77.00

ISO/FDIS 10522, Agricultural irrigation equipment - Direct-acting pressure-regulating valves - 11/13/2023, \$67.00

ISO/FDIS 16438, Agricultural irrigation equipment - Thermoplastic collapsible hoses for irrigation - Specifications and test methods - 11/11/2014, \$40.00

**TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)**

ISO/DIS 24533-2, Intelligent transport systems - Electronic information exchange to facilitate the movement of freight and its intermodal transfer - Part 2: Common Reporting System - 11/7/2001, \$165.00

**WELDING AND ALLIED PROCESSES (TC 44)**

ISO/DIS 5817, Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections - 8/29/2021, \$88.00

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

ISO/IEC FDIS 20830, Information technology - Automatic identification and data capture techniques - Han Xin Code bar code symbology specification - 11/11/2006, \$194.00

ISO/IEC DIS 27099, Information Technology - Public key infrastructure - Practices and policy framework - 8/23/2021, \$155.00

ISO/IEC DIS 27400, Cybersecurity - IoT security and privacy - Guidelines - 8/26/2021, \$112.00

ISO/IEC FDIS 18745-2, Test methods for machine readable travel documents (MRTD) and associated devices - Part 2: Test methods for the contactless interface - 11/11/2006, \$98.00

ISO/IEC/IEEE FDIS 8802-3-2, Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3-2: Standard for Ethernet YANG data model definitions -, \$175.00



# Newly Published ISO & IEC Standards

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

## ISO Standards

### AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 7319:2021](#), Aerospace - Fluid systems - Interface of 24° cone metric couplings, \$48.00

[ISO 7320:2021](#), Aerospace - Couplings, threaded and sealed, for fluid systems - Dimensions, \$73.00

[ISO 14200:2021](#), Space environment (natural and artificial) - Process-based implementation of meteoroid and debris environment models (orbital altitudes below GEO + 2 000 km), \$111.00

### APPLICATIONS OF STATISTICAL METHODS (TC 69)

[ISO 16355-1:2021](#), Application of statistical and related methods to new technology and product development process - Part 1: General principles and perspectives of quality function deployment (QFD), \$225.00

### BUILDING CONSTRUCTION (TC 59)

[ISO 21542:2021](#), Building construction - Accessibility and usability of the built environment, \$250.00

### BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

[ISO 18650-1:2021](#), Building construction machinery and equipment - Concrete mixers - Part 1: Commercial specifications, \$175.00

### ESSENTIAL OILS (TC 54)

[ISO 3065:2021](#), Essential oil of Eucalyptus, Australian type, \$48.00

### FOOTWEAR (TC 216)

[ISO 16186:2021](#), Footwear - Critical substances potentially present in footwear and footwear components - Determination of dimethyl fumarate (DMFU), \$73.00

### GAS CYLINDERS (TC 58)

[ISO 407:2021](#), Small medical gas cylinders - Pin-index yoke-type valve connections, \$149.00

[ISO 14245:2021](#), Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing, \$149.00

### GRAPHIC TECHNOLOGY (TC 130)

[ISO 2836:2021](#), Graphic technology - Prints and printing inks - Assessment of resistance of prints to various agents, \$73.00

[ISO 22934:2021](#), Graphic technology - Communication of offset ink properties, \$48.00

[ISO 12647-8:2021](#), Graphic technology - Process control for the production of half-tone colour separations, proof and production prints - Part 8: Validation print processes working directly from digital data, \$149.00

### MECHANICAL TESTING OF METALS (TC 164)

[ISO 22407:2021](#), Metallic materials - Fatigue testing - Axial plane bending method, \$111.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 19980:2021](#), Ophthalmic instruments - Corneal topographers, \$149.00

### PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO 17420-5:2021](#), Respiratory protective devices - Performance requirements - Part 5: Special application fire and rescue services - Supplied breathable gas RPD and filtering RPD, \$175.00

### PLASTICS (TC 61)

[ISO 13468-2:2021](#), Plastics - Determination of the total luminous transmittance of transparent materials - Part 2: Double-beam instrument, \$73.00

### QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

[IEC 80369-5/Cor2:2021](#), Small-bore connectors for liquids and gases in healthcare applications - Part 5: Connectors for limb cuff inflation applications - Technical Corrigendum 2, FREE

### ROAD VEHICLES (TC 22)

[ISO 12614-1:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 1: General requirements and definitions, \$73.00



[ISO 12614-2:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 2: Performance and general test methods, \$73.00

[ISO 12614-3:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 3: Check valve, \$48.00

[ISO 12614-4:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 4: Manual valve, \$48.00

[ISO 12614-5:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 5: Tank pressure gauge, \$48.00

[ISO 12614-7:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 7: Pressure relief valve (PRV), \$48.00

[ISO 12614-8:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 8: Excess flow valve, \$48.00

[ISO 12614-9:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 9: Gas-tight housing and ventilation hose, \$48.00

[ISO 12614-10:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 10: Rigid fuel line in stainless steel, \$48.00

[ISO 12614-11:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 11: Fittings, \$48.00

[ISO 12614-12:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 12: Rigid fuel line in copper and its alloys, \$48.00

[ISO 12614-13:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 13: Tank pressure control regulator, \$48.00

[ISO 12614-14:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 14: Differential pressure fuel content gauge, \$48.00

[ISO 12614-15:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 15: Capacitance fuel content gauge, \$48.00

[ISO 12614-16:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 16: Heat exchanger-vaporizer, \$48.00

[ISO 12614-17:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 17: Natural gas detector, \$48.00

[ISO 12614-18:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 18: Gas temperature sensor, \$48.00

[ISO 12614-19:2021](#), Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 19: Automatic valve, \$48.00

[ISO 21806-10:2021](#), Road vehicles - Media Oriented Systems Transport (MOST) - Part 10: 150-Mbit/s coaxial physical layer, \$200.00

[ISO 21806-11:2021](#), Road vehicles - Media Oriented Systems Transport (MOST) - Part 11: 150-Mbit/s coaxial physical layer conformance test plan, \$250.00

## **ROBOTS AND ROBOTIC DEVICES (TC 299)**

[ISO 18646-3:2021](#), Robotics - Performance criteria and related test methods for service robots - Part 3: Manipulation, \$111.00

## **RUBBER AND RUBBER PRODUCTS (TC 45)**

[ISO 6452:2021](#), Rubber- or plastics-coated fabrics - Determination of fogging characteristics of trim materials in the interior of automobiles, \$111.00

## **SHIPS AND MARINE TECHNOLOGY (TC 8)**

[ISO 22548:2021](#), Ships and marine technology - Performance test procedures for LNG fuel gas supply systems (FGSS) for ships, \$73.00

[ISO 28005-2:2021](#), Ships and marine technology - Electronic port clearance (EPC) - Part 2: Core data elements, \$250.00

## **SOLID MINERAL FUELS (TC 27)**

[ISO 728:2021](#), Coke - Size analysis by sieving, \$73.00

## **SURFACE CHEMICAL ANALYSIS (TC 201)**

[ISO 19318:2021](#), Surface chemical analysis - X-ray photoelectron spectroscopy - Reporting of methods used for charge control and charge correction, \$111.00

## **TIMBER STRUCTURES (TC 165)**

[ISO 22156:2021](#), Bamboo structures - Bamboo culms - Structural design, \$200.00

## **TOBACCO AND TOBACCO PRODUCTS (TC 126)**

[ISO 10315:2021](#), Cigarettes - Determination of nicotine in total particulate matter from the mainstream smoke - Gas-chromatographic method, \$73.00

## **WATER QUALITY (TC 147)**

[ISO 13162:2021](#), Water quality - Carbon 14 - Test method using liquid scintillation counting, \$149.00

## **WOOD-BASED PANELS (TC 89)**

[ISO 1096:2021](#), Plywood - Classification, \$48.00

## IEC Standards

### ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)

[IEC 62990-2 Ed. 1.0 en:2021](#), Workplace atmospheres - Part 2: Gas detectors - Selection, installation, use and maintenance of detectors for toxic gases and vapours, \$392.00

### ELECTROMAGNETIC COMPATIBILITY (TC 77)

[IEC 61000-3-12 Amd.1 Ed. 2.0 b:2021](#), Amendment 1 - Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase, \$25.00

[IEC 61000-3-12 Ed. 2.1 b:2021](#), Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase, \$323.00

### INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 61588 Ed. 3.0 en:2021](#), Precision Clock Synchronization Protocol for Networked Measurement and Control Systems, \$443.00

### MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)

[IEC 61007 Ed. 3.0 b cor.1:2021](#), Corrigendum 1 - Transformers and inductors for use in electronic and telecommunication equipment - Measuring methods and test procedures, \$0.00

### NUCLEAR INSTRUMENTATION (TC 45)

[IEC 61452 Ed. 2.0 en:2021](#), Nuclear instrumentation - Measurement of activity or emission rate of gamma-ray emitting radionuclides - Calibration and use of germanium-based spectrometers, \$417.00

### POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 61970-CGMES Ed. 1.0 b:2021](#), Energy management system application program interface (EMS-API) - Common Grid Model Exchange Specification (CGMES), \$2710.00

[IEC 61970-600-1 Ed. 1.0 en:2021](#), Energy management system application program interface (EMS-API) - Part 600-1: Common Grid Model Exchange Standard (CGMES) - Structure and rules, \$310.00

[IEC 61970-600-2 Ed. 1.0 en:2021](#), Energy management system application program interface (EMS-API) - Part 600-2: Common Grid Model Exchange Standard (CGMES) - Exchange profiles specification, \$443.00

### SMALL POWER TRANSFORMERS AND REACTORS AND SPECIAL TRANSFORMERS AND REACTORS (TC 96)

[IEC 61558-2-16 Ed. 2.0 b:2021](#), Safety of transformers, reactors, power supply units and combinations thereof - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units for general applications, \$259.00

### SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC 61636 Ed. 2.0 en:2021](#), Software Interface for Maintenance Information Collection and Analysis (SIMICA), \$310.00

[IEC 61636-1 Ed. 2.0 en:2021](#), Software Interface for Maintenance Information Collection and Analysis (SIMICA): Exchanging Test Results and Session Information via the eXtensible Markup Language (XML), \$259.00

[IEC 61691-6 Ed. 2.0 en:2021](#), Behavioural languages - Part 6: VHDL Analog and Mixed-Signal Extensions, \$443.00

### IEC Technical Specifications

#### FIRE HAZARD TESTING (TC 89)

[IEC/TS 60695-5-2 Ed. 3.0 en:2021](#), Fire hazard testing - Part 5-2: Corrosion damage effects of fire effluent - Summary and relevance of test methods, \$183.00

[S+ IEC/TS 60695-5-2 Ed. 3.0 en:2021 \(Redline version\)](#), Fire hazard testing - Part 5-2: Corrosion damage effects of fire effluent - Summary and relevance of test methods, \$239.00

# International Electrotechnical Commission (IEC)

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## Call for Members (USNC)

### Participants Needed

#### Strategic Group (SG) 12: Digital Transformation and Systems Approach

Following the recommendations made by ahG 86 *Future of Digital Transformation including system approaches* in its final report, SMB approved to rename SG 12 as *Digital Transformation and Systems Approach* and revise its scope.

Individuals who are interested in joining the USNC Virtual Technical Advisory Group (VTAG) to SG 12 are invited to contact Ade Gladstein at [agladstein@ansi.org](mailto:agladstein@ansi.org).

Please see the revised scope for SG 12 below.

#### Scope:

- *Define the aspects of Digital Transformation that are relevant to the IEC and its standardization activities.*
- *Develop a Digital Transformation methodology for international standardization.*
- *Act as Digital Transformation and Systems Approach competence centres within the IEC and provide associated expertise and advisory services to all IEC Committees.*
- *Identify emerging trends, technologies and practices needed for the development, delivery and use of IEC's work.*
- *Provide a platform for relevant discussion and collaboration with internal and external participation.*
- *Coordinate IEC's activities with those of external entities (e.g. ISO, ITU)*

# International Organization for Standardization (ISO)

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## ISO New Work Item Proposal

### Guidelines for the Promotion and Implementation of Gender Equality

**Comment Deadline: June 25, 2021**

AFNOR, the ISO member body for France, has submitted to ISO a new work item proposal for the development of an ISO standard on Guidelines for the Promotion and Implementation of Gender Equality, with the following scope statement:

Standardization in the field of gender equality with the aim of developing a technical guidance on how to promote and implement gender equality in all types of organizations, public or private, regardless of their size, location and field of activity.

The objective is to develop guidelines on:

- Concepts, terms and definitions;
- Identification of existing good practices;
- Definition of actions, strategies, policies for the promotion and implementation of gender equality

Excluded: Related standardization work on diversity in human resources management as covered by ISO/TC 260 "Human resources management".

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, June 25, 2021.

# Registration of Organization Names in the United States

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

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

## Public Review

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

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

# Proposed Foreign Government Regulations

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## Call for Comment

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

The USA Inquiry Point for the WTO TBT Agreement is located at the National Institute of Standards and Technology (NIST) in the Standards Coordination Office (SCO). The Inquiry Point distributes the notified proposed foreign technical regulations (notifications) and makes the associated full-texts available to U.S. stakeholders via its online service, Notify U.S. Interested U.S. parties can register with Notify U.S. to receive e-mail alerts when notifications are added from countries and industry sectors of interest to them. To register for Notify U.S., please visit: <http://www.nist.gov/notifyus/>.

The USA WTO TBT Inquiry Point is the official channel for distributing U.S. comments to the network of WTO TBT Enquiry Points around the world. U.S. business contacts interested in commenting on the notifications are asked to review the comment guidance available on Notify U.S. at: <https://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> prior to submitting comments.

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point> Contact the USA TBT Inquiry Point at (301) 975-2918; F: (301) 926-1559; E: [usatbtep@nist.gov](mailto:usatbtep@nist.gov) or [notifyus@nist.gov](mailto:notifyus@nist.gov).

**Public Review Draft  
May 2021**

**Proposed Revisions  
for  
ASME B20.1-20XX  
Revision to  
ASME B20.1-2018  
Safety Standard for Conveyors and Related  
Equipment**

**TENTATIVE  
SUBJECT TO REVISION OR WITHDRAWAL  
Specific Authorization Required for Reproduction or  
Quotation  
ASME Codes and Standards**

## Approved Revisions to B20.1-20XX

### TN 19-2269

*Proposed Revision to B20.1 Foreword:*

~~Safety standards for mechanical power apparatus are published in ANSI B15.1-2000 (R2008), Safety Standard for Mechanical Power Transmission Apparatus.~~ Safety standards for lockout and tagout procedures are published in ANSI/ASSE Z244.1-~~2003 (R2014)~~ 2016, Control of Hazardous Energy — Lockout/Tagout and Alternative Methods, and OSHA Standard 29 CFR 1910.147, The Control of Hazardous Energy (Lockout/Tagout). The use of recommendations and guidelines as published by CEMA, Safety Label Brochure No. 201 and Application Guidelines for Vertical Reciprocating Conveyors, published by the Conveyor and Sortation Systems (CSS) of the Material Handling Institute in conjunction with ASME B20.1 is encouraged, as are the above-mentioned standards.

**Rationale:** *ANSI B15.1 has been withdrawn; it is no longer available for purchase/download and is not a valid document for reference. Referencing this outdated document only adds confusion to the person trying to comply with ANSI B20.1 since it is not even available.*

*ANSI/ASSE Z244.1 has a newer revision than we are referencing. We should reference the latest revision of the standard.*

### TN 20-1391

*Proposed Revision to B20.1, Mandatory Appendix I-3.9 Gates and Enclosures:*

#### **I-3.9 Gates and Enclosures**

As defined in para. 6.21.2(a), VRC installations shall be guarded to prevent injury from inadvertent contact with any moving component or the load(s) that may be on the carrier. All doors or gates at landings shall be interlocked, such that doors or gates can only be opened at the level where the carriage is present. The interlocking system shall require all doors and gates to be closed before the carrier can move to another level. All gates and enclosures must be able to withstand a minimum of 890 N (200 lbf) applied laterally without deflecting into the path of the moving carrier and without permanent deformation. All gates and enclosures shall be composed of material that will reject a 51-mm (2-in.) ball. ~~Enclosures Unless guarded by location, enclosures~~ shall be a minimum of 2438 mm (96 in.) high at each floor level. If the ceiling height is less than ~~2-438~~ 2438 mm (96 in.), the vertical space should be filled.

**Rationale:** *The current language requires enclosures as defined at all levels. There are numerous building and landing arrangements where the VRC is positioned in such a way no personnel could possibly get near the moving platform, the mast structure or the mechanisms. All sides do not need enclosures as defined in this section. By adding the phrase “Unless guarded by location” the designers and installers will have the latitude to consider this accepted alternative for safeguarding.*

*The second change in the last sentence is editorial to remove the space.*

### TN 21-14

*Proposed Editorial Revision to Swap the Numbering of Para. 5.15 and 5.16:*



**5.16 Risk Assessment and Risk Reduction** be repositioned in the Standard ahead of the two disclaimer paragraphs **Fire Safety** and **Dust Hazards**.

**5.16** [5.15](#) **Risk Assessment and Risk Reduction.....**

**5.15** [5.16](#) **Fire Safety...**

***Rationale:** Paragraphs with specific requirements should be kept together and come before any “disclaimer” paragraphs.*

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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 Standard for Drinking Water Treatment Units –

# Drinking Water Treatment Units – Aesthetic Effects

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## 8 Instructions and information

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### 8.2 Data plate

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#### 8.2.2 Commercial modular systems

**8.2.2.1** Commercial modular manifolds shall have a permanent plate or label affixed in a readily accessible location on the system that shall contain, at a minimum, the following information:

- general system name;
- the statement:

*“Not for residential use. Food service applications only. To be installed by an authorized plumber or an authorized representative of the manufacturer only.”*

- the statement:

*“This modular element is NOT for use in residential applications.”*

- name and address of manufacturer;
- maximum working pressure in kPa (psig); and
- maximum operating temperature in degrees C (degrees F).

**8.2.2.2** Modular elements shall have a permanent plate or label affixed in a readily accessible location on the modular element that shall contain, at a minimum, the following information:

- modular element model number;
- functional description of modular element (e.g., chemical reduction or mechanical reduction, or both);

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- statement that the modular element conforms to NSF/ANSI 42 or 53 for the specific performance claims as verified and substantiated by test data;
- statement that this modular element is NOT for use in residential applications; and
- the manufacturer specific standard head or manifold to which the element can be inserted.

**8.2.2.3** Where applicable and appropriate, the following information shall also be included:

- rated capacity / rated service life in liters (gallons). If applicable rated capacity / rated service life in liters (gallons) is not included on the modular element data plate, a statement that rated capacity / rated service life in liters (gallons) may be found on the performance data sheet shall be included:
  - each unique model number designation shall claim a capacity or service life no greater than the least reduction capacity or service life that has been verified through testing to NSF/ANSI 42 or 53; and
  - nominal particulate reduction (85%) systems shall not claim a rated capacity due to the broad variation in the quantity of particulate matter found in drinking water.
- operating or exchange steps; and
- statement for activated carbon systems:

*"Do not use with water that is microbiologically unsafe or unknown quality without adequate disinfection before or after the system."*

NOTE — Systems that are compliant with NSF/ANSI 55 Class A or other standards that cover technologies to treat microbiologically unsafe water (e.g., US EPA *Guide Standard and Protocol for Testing Microbiological Water Purifiers* or NSF P231) are examples of demonstrating adequate disinfection before or after the system.

**8.2.2.3.1** Allowance for chlorine and/or monochloramine claims:

- in the specific case where chlorine and monochloramine are the only claims made with a rated capacity in liters (gallons) for a unique model number designation, the rated capacity/rated service life in liters (gallons) shall be separately and uniquely identified for chlorine and monochloramine claims, if requested by the manufacturer; and
- wherever a rated capacity is stated which is greater than the minimum claimed capacity, all rated capacities, rated service flow(s), and their associated claim shall be presented in the same type size and font in immediate proximity. The only additional claims allowed for a unique model number designation under Section 8.2.2.3.1 are those claims that do not have a volumetric rated capacity associated with them (i.e., particulate, cyst).

**8.3 Replacement components**

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**Rationale:** *Added allowance for a separate rated capacity/rated service life for chlorine and monochloramine claims for commercial modular systems under NSF/ANSI 42 per 2021 DWTU JC meeting discussion (May 12, 2021). Currently the standard allows for both reduction claims, but one has to claim the lowest capacity. Therefore, there is a lot of additional capacity for chlorine*

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Revision to NSF/ANSI 42-2020  
Issue 113 Revision 1 (May 2021)

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*reduction that the manufacturer is unable to claim. In these cases, a licensed professional is required to install the system and determines what the municipal water supply uses as a means of disinfection. This would allow them to decide the most appropriate use for a filter based on the water chemistry at a specific location.*

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NSF/ANSI Standard  
For Wastewater Technology –

## Disinfection Mechanics

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### 8 Ozone disinfection devices

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#### 8.6 Performance testing and evaluation

Performance testing and evaluation of ozone disinfection devices shall consist of the following procedures:

- life test (see Section 8.6.1);
- microbiological organism deactivation test (see Section 8.6.1.2); and
- ozone loss test (see Section 8.6.3).

These tests shall be conducted on one ozone disinfection device.

##### 8.6.1 Life test

Ozone disinfection device shall be capable of operating for 180 consecutive days. During the life test, no maintenance shall be performed on the ozone disinfection device. Ozone disinfection devices shall be assembled, installed, and operated in accordance with the manufacturer's specifications.

The manufacturer shall specify all key elements for effective ozonation, including, but not limited to, ozone generation rate (measured at beginning and end of testing), ozone diffusion and dispersion criteria, minimum and maximum contact chamber sizing including minimum and maximum acceptable water levels and applicable diameter to depth ratios, design flow conditions, minimum contact time, and mixing requirements.

If an ozone disinfection device is submitted for testing without a manufacturer specified contact chamber, it shall be tested and evaluated by attaching the device to a default tank. This tank shall be a contact chamber designed to allow for the minimum contact time specified by the manufacturer.

The manufacturer shall specify the maximum and minimum wastewater flow capacities for which the device is designed, and minimum dwell time required for the wastewater in the contact chamber. The individual

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doses to the treatment device shall be uniformly applied over the dosing period. The disinfection device shall be tested to not exceed the maximum instantaneous flow rate limit.

#### 8.6.1.1 Hydraulic loading

Flow conditions for the life test shall be as follows based on the manufacturer's maximum rated flow capacity of the ozone disinfection device:

6 a.m. to 9 a.m.	35% rated flow capacity
11 a.m. to 2 p.m.	25% rated flow capacity
5 p.m. to 8 p.m.	40% rated flow capacity

The individual doses to the treatment device shall be uniformly applied over the dosing period. The disinfection device shall be tested at a flow rate that does not exceed the maximum instantaneous flow rate limit.

Dosing volumes shall be measured daily. The 30-d average volume delivered to the ozone disinfection device shall be  $100 \pm 10\%$  of the ozone disinfection devices rated daily flow capacity.

The ozone feed shall be set to the minimum rate specified by the manufacturer for treating the maximum flow capacity.

#### 8.6.1.2 Microbiological organism deactivation test

Extreme care shall be taken in designing a sampling program and sample site for ozone disinfected water. Since no residual remains when the sample is removed from the ozone exposure, regrowth of organisms and contamination of samples in a testing environment is possible. The sample point shall be immediately adjacent to the outlet flow of the ozone disinfection device contact chamber. Sterile sample bottles and sterile sample collection techniques shall be used during sample collection.

Two microbiological organism samples shall be collected and analyzed per week over 26 wk. Grab samples shall be collected at least 30 min after the start of the loading period. Samples shall be rotated in order of the loading periods, per Section 8.6.1.1, so that one third of the samples shall be collected in each of the loading periods (see Section 8.6.1.1). At the two tests per week ratio, each loading period shall have a minimum of 17 samples. When this minimum number of samples is not met, additional sampling may be added, or the test may be extended until the requirement is met.

NOTE — The manufacturer may request additional samples per week complying with the above.

Samples shall be refrigerated if not analyzed within 1 h of collection. Analysis shall be performed within 6 h of sample collection.

#### 8.6.1.3 Criteria

The microbiological organism concentration from all grab samples collected and analyzed under Section 8.6.1.2 shall meet the pass/fail criteria in Section 1.5.

#### 8.6.2 Ozone loss evaluation

The test setup shall simulate an ozone disinfection device installed between a treatment device and a pump vault in accordance with the manufacturer's installation instructions. An ozone detector shall be installed

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near the inlet to the ozone disinfection device to detect ozone gas feeding back into the treatment device. A second ozone detector shall be installed near the discharge of the contact chamber to monitor ozone discharge through the outlet of the contact chamber. The detectors shall be mounted above and within 0.3 m (1 ft) in all directions of the invert of the pipe. In the event of multiple inlets or outlets, all inlets and outlets shall be monitored for ozone loss. Readings from the detectors shall be measured and recorded on three separate days evenly spaced throughout the life test (one day during the 1<sup>st</sup>, 14<sup>th</sup>, and 26<sup>th</sup> week of testing).

The ozone loss evaluation shall be conducted simultaneously with the ozone disinfection test and microbiological organism deactivation test. All data collected during this test shall be included in the final report and will not be used as criteria for the performance evaluation.

### 8.6.3 Components

All components of the ozone disinfection device that are designed to be exposed to wastewater and ozone shall be resistant to ozone attack, corrosion, and structural deformation. The ozone disinfection device shall be examined for any sign of degradation in the materials at the end of the ozone disinfection test. Any observed degradation in the structural or functional integrity of the materials shall be a failure of the test.

### 8.6.4 Upset test conditions

In the event that conditions during the testing and evaluations period result in system upset, improper sampling, improper dosing, or influent characteristics outside the ranges specified in Section 1.4, an assessment shall be conducted to determine the extent to which these conditions adversely affected the performance of the system. Based on this assessment, it is permissible to exclude specific data points from the averages of ozone disinfection measurements. Rationale for all data exclusions shall be documented in the final report.

In the event that a catastrophic site problem not described in this Standard including, but not limited to, influent characteristics, malfunctions of test apparatus, and acts of nature, jeopardizes the validity of the performance testing and evaluation, manufacturers shall be given the choice to:

- perform maintenance of the system, reinitiate system startup procedures, and restart the performance testing and evaluation; or
- with no routine maintenance performed, have the system brought back to preexisting conditions and resume testing within three weeks after the site problem has been identified and corrected. Data collected during the system recovery period shall be excluded from averages of ozonation disinfection device performance.

### 8.6.5 Flow design

Ozonation systems shall not affect the designated flow path of the treatment process. During periods of normal system operation, as well as periods of ozonation system and component malfunction, the design and construction of the ozonation system shall preclude alternative flow paths and prevent the discharge of untreated wastewater from an opening external to the designated flow path.

The discharge of wastewater from access ports shall be permissible during ozonation device malfunction.

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## 8.7 Final report

A final report shall be prepared that presents all data collected and observations made in accordance with the performance testing and evaluation specified in Section 8. It shall include all significant findings, including the following:

- descriptions and timing of all problems and observations;
- hydraulic loading volumes delivered throughout the test;
- analytical data for all influent and effluent sample points; and
- a statement of compliance or noncompliance with the requirements of this Standard.



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## NSF/ANSI Standard For Wastewater Technology –

### Disinfection Mechanics

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#### **8 Ozone disinfection devices**

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##### **8.6.3 Components**

All components of the ozone disinfection device that are designed to be exposed to wastewater and ozone shall be resistant to ozone attack, corrosion, and structural deformation. The ozone disinfection device shall be examined for any sign of degradation in the materials at the end of the ozone disinfection test. Any observed degradation in the structural or functional integrity of the materials shall be a failure of the test. For more information on ozone resistant materials see Informational Annex 2.

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#### **Informative Annex 2**

*The information contained in this Annex is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Annex may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.*

#### **Ozone resistance evaluation**

The following materials have been found to show resistance to ozone. This annex is provided as a reference to manufacturers to assist them in designing systems. These materials are not required and the standard in no way guarantees they will work well in every application.

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**Table I-2.1**  
**Components and piping**

	Ozone gas < 2500 ppm	Ozone gas > 2500 ppm
glass	X	X
ceramics	X	X
PVC	X	NR
CPVC	X	NR
UPVC (unplasticized)	X	NR
aluminum	X	(4% wt max)
304 L stainless steel	X	X
316 L stainless steel	X	X
superalloys such as Inconel <sup>1</sup> and Hastelloy-C <sup>2</sup>	X	X
titanium	X	X
perfluoroalkoxy resin (PFA) such as Teflon <sup>®3</sup> or equivalent	X	X
fluorinated ethylene propylene (FEP) such as Teflon <sup>®3</sup> or equivalent	X	X
polytetrafluoroethylene (PTFE) such as Teflon <sup>®3</sup> or equivalent	X	X
ethylene tetrafluoroethylene (ETFE) such as Tefzel <sup>®3</sup> or equivalent	X	X
ethylene chlorotrifluoroethylene (ECTFE) such as Halar <sup>®4</sup> or equivalent	X	X
neoprene <sup>®</sup> or equivalent	X	NR
polyvinylidene fluoride (PVDF) such as Kynar <sup>®5</sup> or equivalent	X	X
p-chlorotrifluoroethylene P-CTFE such as Kel-F <sup>®6</sup> 2800 and Neoflon <sup>®7</sup> or equivalent	X	X
NOTE — Abbreviations for components, piping, gaskets and seals are in accordance with ASTM D4000.		
<sup>1</sup> Special Metals Corporation. 3200 Riverside Dr, Huntington, West Virginia 25705. <www.specialmetals.com>		
<sup>2</sup> Haynes International, Inc. 1020 W Park Ave, PO Box 9013, Kokomo, Indiana 46904. <www.haynesintl.com>		
<sup>3</sup> Dupont. 974 Centre Rd, Wilmington, DE 19805. <www.dupont.com>		
<sup>4</sup> Solvay Specialty Polymers USA, LLC. <www.solvay.com>		
<sup>5</sup> Arkema Group. <www.arkema.com>		
<sup>6</sup> 3M Company. 3M Center, St. Paul, MN 55144-1000. <www.3m.com>		
<sup>7</sup> Daikin North America LLC. Daikin Texas Technology Park, 19001 Kermier Rd, Waller, TX. <www.northamerica-daikin.com>		
NR= not recommended		
% wt. = percent by weight		

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**Table I-2.2**  
**Gaskets and seals**

	Ozone gas < 2500 ppm	Ozone gas > 2500 ppm
p-chlorotrifluoroethylene (P-CTFE) such as Kel-F <sup>®1</sup> or equivalent	X	X
perfluorelastomer such as Kalrez <sup>®2</sup> or equivalent	X	X
perfluorinated Copolymer such as Chem-Rez <sup>®3</sup> or equivalent	X	X
gortex <sup>®</sup> or equivalent	X	X
PTFE tape	X	X
chlorosulfonated polyethylene such as Hypalon <sup>®2</sup> or equivalent	X	NR
vinylidene fluoride such as Viton <sup>®2</sup> or equivalent	X	X (4% wt max)
polydimethyl siloxane (Silicone)	X	X (4% wt max)
ethylene propylene diene monomer (EPDM)	X	NR
<sup>1</sup> 3M Company. 3M Center, St. Paul, MN 55144-1000. <www.3m.com> <sup>2</sup> Dupont. 974 Centre Rd, Wilmington, DE 19805. <www.dupont.com> <sup>3</sup> Greene Tweed. 1684 S Broad St, PO Box 1307, Lansdale, PA 19446. <www.gtweed.com> NR = not recommended %wt. = percent by weight		

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NSF/ANSI Standard  
for Drinking Water Additives –

## Drinking Water System Components – Health Effects

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### 4 Pipes and related products

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#### 4.5 Extraction procedures

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##### 4.5.3 Exposure water

##### 4.5.3.1 General

Exposure water selection shall be determined by the analytes of interest identified on the analytical summary (see Section 4.5.1). Exposure water(s) shall be selected in accordance with Section N-1.2.5.

##### 4.5.3.2 Copper (C12200) pipe, tubing and fittings

Copper (C12200) pipe, tubing and fittings evaluated under Section 4 of this Standard shall not require analysis for regulated metals release under the pH 5 test condition provided the following use limitation statement is included in the manufacturer's use instructions or product literature that references this Standard:

*“Copper [tube, pipe, or fitting] (Alloy [alloy designation]) has been evaluated by [Testing Organization] to NSF/ANSI/CAN 61 for use in drinking water supplies of pH 6.5 and above. Drinking water supplies that are less than pH 6.5 may require corrosion control to limit leaching of copper into the drinking water.”*

*“Use of this material may not be appropriate in all water chemistries. Copper [tube, pipe, or fitting] may require corrosion control to limit the leaching of copper into drinking water under certain water chemistries. Refer to Informative Annex I-6.1 of NSF/ANSI/CAN 61 for the water quality considerations to be used before installing this product.”*

##### 4.5.3.3 Copper and copper alloys other than C12200

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Copper and copper alloy pipe and tubing comprised of alloys other than C12200 shall be exposed in either the pH 5 (Section N-1.9.3) or the pH 6.5 (Section N-1.9.4) exposure waters (at the discretion of the manufacturer) and in the pH 8 (Section N-1.9.8) exposure waters as described in Section N-1.9. Copper and copper alloy fittings comprised of alloys other than C12200 intended to be used with copper and copper alloy pipe and tubing shall be exposed in either the pH 5 (Section N-1.9.3) or the pH 6.5 (Section N-1.9.4) exposure waters (at the discretion of the manufacturer) and in the pH 8 (Section N-1.9.8) exposure water, as described in Section N-1.9. For all copper and copper alloy pipes, tubing, and fittings tested using the pH 6.5 exposure water, the manufacturer's literature shall indicate this use limitation by inclusion of the following statement in the use instructions or product literature that references this Standard:

~~*“Copper [tube, pipe, or fitting] (Alloy [alloy designation]) has been evaluated by [Testing Organization] to NSF/ANSI/CAN 61 for use in drinking water supplies of pH 6.5 and above. Drinking water supplies that are less than pH 6.5 may require corrosion control to limit leaching of copper into the drinking water.”*~~

*“Use of this material may not be appropriate in all water chemistries. Copper [tube, pipe, or fitting] may require corrosion control to limit the leaching of copper into drinking water under certain water chemistries. Refer to Informative Annex I-6.1 of NSF/ANSI/CAN 61 for the water quality considerations to be used before installing this product.”*

#### 4.5.3.4 Brass and Bronze Materials

Brass and Bronze materials shall be exposed in the pH 5 (N-1.9.3) and in the pH 8 (N-1.9.8) exposure waters as described in N-1.9. Normalized copper concentrations observed using the pH 5 test waters that exceed the TAC for the static condition or the SPAC for the flowing conditions at pH 5 may be waived when the product contains brass or bronze materials and when the manufacturer's literature includes the use limitations for these materials with certain water characteristics by inclusion of the following statement in the use instructions or product literature that references this Standard:

*“Use of this material may not be appropriate in all water chemistries. Products containing brass/bronze materials may require corrosion control to limit the leaching of copper into drinking water under certain water chemistries. Refer to Informative Annex I-6.1 of NSF/ANSI/CAN 61 for the water quality considerations to be used before installing this product.”*

***Rationale: Added pH 5 extraction water test to brass/bronze surfaces per recommendation by the Extraction Water Chemistries Task Group and 2020 DWA-SC JC meeting discussion (December 9, 2020). The pH 5 water has been determined to be the worst-case scenario for these materials. A requirement is also being added that brass/bronze containing products that fail for copper at pH 5 be listed with a use limitation statement on their use instructions or product literature, as well as the certifier's listing.***

## 8 Mechanical devices

### 8.4 In-line devices, components, and materials

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Samples for the testing of in-line devices, components, and materials (see Section 8.1) shall be selected according to the requirements of Sections N-1.2.3 and N-1.4.1. Extraction waters shall be selected according to Section N-1.2.5. In-line product samples shall be conditioned as indicated in Section N-1.4.3. After conditioning, the samples shall be exposed as indicated in Section N-1.4.4.1 and Table N-1.8. Normalization shall be as specified in Sections N-1.8.3 and N-1.8.4, as applicable.

**8.4.1 Brass or bronze containing in-line devices**

The evaluation of brass or bronze containing in-line devices for contaminants other than lead shall require exposure of at least one sample in accordance with Section 8.4.

The evaluation of brass or bronze containing in-line devices for lead under the pH 8 conditions ~~below~~ shall be exposed in at least triplicate (more if specified by the manufacturer) if the test representative holds  $\leq 2$  L and has a dry weight  $\leq 15$  kg (33 lbs). If specified by the manufacturer, the test representative that holds more than 2 L, or has a dry weight in excess of 15 kg (33 lbs) may also be exposed in a quantity greater than 1:

- ~~— when the exposure water selection is per Table N-1.3a, the pH 10 condition shall be exposed in triplicate; or~~
- ~~— when the exposure water selection is per Table N-1.3b, the pH 8 condition shall be exposed in triplicate.~~

***Rationale: Revised for clarity and to reflect the removal of Table N-1.3a.***

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**Normative Annex 1**

**Product / material evaluation**

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**N-1.2 General evaluation requirements**

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**N-1.2.5 Extraction waters**

Samples shall be exposed, based on a formulation review and determination of the most severe condition(s), to the required extraction waters as detailed in Table N-1.3a, except for mechanical plumbing devices (see Section N-1.5.5). ~~At the discretion of the manufacturer, the extraction waters detailed in Table N-1.3b shall be used as an alternate to those in Table N-1.3a.~~ The characteristics and preparation of the waters are described in Section N-1.9.

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The test water formulations as provided in Section N-1.9 shall be used without the addition of free available chlorine when testing high flow devices (or their components) exclusively used at public water treatment facilities and typically installed prior to chlorination.

NOTE — Some materials used in these devices may be damaged by chlorine and test waters that include chlorine would not be representative of field use conditions for this use type.

## N-1.9 Extraction water preparation

**Table N-1.3a**  
**Extraction water selection**

Analytes of interest	X = Required extraction water selection		
	pH 5 (see Section N-1.9.3)	pH 8 (see Section N-1.9.6)	pH 10 (see Section N-1.9.7)
metals	X	—	X
organics	—	X	—

**Table N-1.3b**  
**Alternate Extraction water selection**

Material type by Section	Analyte of interest	X = Required extraction water selection				
		pH 5 (see Section 1.9.3)	pH 10 (see Section 1.9.7)	pH 6.5 (see Section 1.9.4)	pH 8 (see Section 1.9.8)	Reagent water <sup>1</sup> (see Section 1.9.3)
<b>Sections 4, 5, 6, and 8</b>						
brass and bronze surfaces	all analytes	X <sup>4</sup>	—	—	X	—
copper pipe other than C12200 and copper alloy fittings used exclusively to join copper pipe	metals	X <sup>2</sup>	—	X <sup>2</sup>	X	—
	organics	—	—	—	X	—
copper (C12200) pipe, tubing, and fittings	metals	X <sup>3</sup>	—	—	X	—
	organics	—	—	—	X	—
cementitious and asphaltic materials	metals	X	X	—	—	—
	organics	—	—	—	X	—
all other wetted surfaces	metals	X	—	—	X	—
	organics	—	—	—	X	—

<sup>1</sup> Placeholder for eventual citing of test waters used for process media currently contained in Section 7.

<sup>2</sup> The pH 6.5 test water may be used in replacement of the pH 5 test water provided the requirements in Section 4.5.3.3 are also met.

<sup>3</sup> Metals analysis with the pH 5 test water is not required provided the requirements in Section 4.5.3.2 are also met.

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<sup>4</sup> Compliance with copper criteria is not required under the pH 5 test waters as long as the requirements in Section 4.5.3.4 are also met.

***Rationale: Removed Table N-1.3a per 2015 DWA-SC JC meeting discussion (December 3, 2015) to eliminate the extraction water specified in Table N-1.3a from the Standard after August 2020, or a period of five years from the adoption of Table N-1.3b.***

***Added pH 5 extraction water test to brass/bronze surfaces per recommendation by the Extraction Water Chemistries Task Group and 2020 DWA-SC JC meeting discussion (December 9, 2020). The pH 5 water has been determined to be the worst-case scenario for these materials. A requirement is also being added that brass/bronze containing products that fail for copper at pH 5 be listed with a use limitation statement on their use instructions or product literature, as well as the certifier's listing.***



## UL 508A, Standard for Safety for Industrial Control Panels

## 12. Field Wiring – Cable Lugs

Table 52.1

## Locations of required markings

(the remainder of Table 52.1 remains unchanged and has been truncated for clarity)

Paragraph	General description	Location categories (see notes)	
		Enclosed	Open
	<b>Field wiring terminal markings</b>		
54.1	Field wiring terminal identification	c	c
54.2 – 54.4, 54.11	Type of field wiring conductors, field wiring temperature rating (power circuit only), terminal tightening torque	b, c, or e	c, e, or f
54.5	Equipment grounding terminal identification	c	c
54.6	Class 1 markings	b, c, or e	c, e, or f
54.7	Class 2 markings	b, c, or e	c, e, or f
54.8	Routing of Class 1 and Class 2 conductors	b, c, or e	c, e, or f
54.9	Control circuit wire size [less than 14 AWG (2.1 mm <sup>2</sup> )]	b, c, or e	c, e, or f
54.10	Connect secondary neutral to grounding electrode conductor	b, c, or e	c, e, or f
54.12	Slash voltage rating	a, b, or e	e or f
<del>54.13</del>	<del>Busbars shipped with holes for mounting of a cable lug</del>	<del>b, c, or e</del>	<del>c, e, or f</del>

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

### 1. 1. Marking Requirement Clarification for String Lights employing Medium Screw Lampholders

#### PROPOSAL

SD12.4 A string light employing medium screw incandescent lamps shall be marked "For Outdoor Use Only" or equivalent.

SD14.1 The retail packaging and/or carton markings shall be as specified in Section 127 except for the carton used for string lights employing incandescent medium screw lamps shall only be marked with the statement "CAUTION: Risk of fire and personal injury. Outdoor use only. Do not use indoors."

### 2. Revise 0.6A Limit on Series Strings

#### PROPOSAL

Table 6.1

Wire types and overcurrent protection ratings for series-connected seasonal lighting products

	Non-polarized fittings		Polarized Fittings	
	With Load fitting	Without load fitting	With load fitting	Without load fitting
Minimum wire size, AWG (mm <sup>2</sup> )	22(0.32) <sup>a</sup>	22(0.32) <sup>a</sup>	20(0.52) <sup>a</sup>	22(0.32) <sup>a</sup>
Wire type	CXTW, XTW <sup>a</sup>	CXTW, XTW <sup>a</sup>	CXTW, XTW <sup>a</sup>	CXTW, XTW <sup>a</sup>
Maximum current rating, Amperes	<u>0.96</u>	<u>0.96</u>	<u>0.96</u>	1.8
Total maximum wattage of strings allowed to be connected together, end-to-end	216 Watts	-	432 Watts	-
Fuse ratings, Amperes	3	3	5	3
Fuse location	Grounded and ungrounded conductor	Grounded and ungrounded conductor	Ungrounded conductor (hot)	Ungrounded conductor (hot)
On/Off switch and type (if located in other than a Class 2 circuit)	Double-pole in both conductors	Double-pole in both conductors	Single-pole ungrounded (hot)	Single-pole ungrounded conductor (hot)
See Figure	Figure 7.4, Figure 7.6, Figure 7.15	Figure 7.3, Figure 7.7, Figure 7.13	Figure 7.6, Figure 7.10, Figure 7.16	Figure 7.5, Figure 7.9, Figure 7.14

<sup>a</sup>A motorized product shall employ minimum 20 AMG Type SPT-2 wire for the supply connections. See Figure 7.11-Figure 7.16

**13.4.2** A non-polarized configuration shall not be employed on a product with an input current greater than 0.90-6 A.

**28.2** The maximum current draw for a series-connected string shall be 0.90-6 A.

**28.4** The two larger size lampholders in each of the series-connected strings described in 28.3 are for the accommodation of current-limiting ballast lamps. Each of these ballast lamps is to be rated for at least 60 V and the two in series, alone, are to limit current to less than or equal to 0.96 A.

**121.2** A product employing a non-polarized attachment plug shall not have a current rating that exceeds 0.90-6 A.

*Exception: A decorative outfit employing up to 3 series- or series-parallel-connected lights is able to have a maximum current rating of 1.8 A.*

**121.5** A series- or series-parallel-connected decorative lighting string or decorative outfit without a load fitting, employing a polarized attachment plug, and with a current rating that exceeds 0.900-6 A shall be marked in accordance with 125.5.2.

**125.5.1** A series-connected lighting string with an input current greater than 0.900-6 A but not exceeding 1.8 A shall be marked with the following: "CAUTION – Do not connect to another lighting string, decorative outfit, or seasonal product."

### 3. Clarification that Modular Trees are not covered under the scope of UL 588

#### PROPOSAL

1.7 These requirements do not cover Seasonal Use Modular Trees which are covered under the Outline of Investigation for Modular Trees, UL 1488.

### 4. UV Exposure Exceptions

#### PROPOSAL

**22.2.2.3** A polymeric material used for the body of a series-connected lampholder intended for outdoor use shall be resistant to Ultraviolet (UV) weathering and exposure to water as determined by compliance with the Ultraviolet (UV) Light Exposure and Water Immersion Tests, Section 94.

*Exception 1: Materials that comply with the outdoor use requirements described in UL 746C, The Standard for Safety for Polymeric Materials – Use in Electrical Equipment Evaluations, do not need to be subjected to the tests in Section 94.*

*Exception 2: If Extruded Insulated Tubing is used as the lampholder, it shall comply with the outdoor-use requirements described in UL 224, the Standard for Extruded Insulating*

Tubing. The suitability of the extruded tubing and the elongation properties after UV conditioning shall be determined in end-use.

## Appendix A

### Standards for Components

Standards under which components of the products covered by this standard are evaluated include the following:

Title of Standard – UL Standard Designation

Standard for Extruded Insulation Tubing - UL 224

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