ANSI STANDARDS ACTION

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Contents

American National Standards

Call for comment on proposals listed

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. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

ISSN 0038-9633

Comment Deadline: August 12, 2018

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

Addenda

BSR/ASHRAE Addendum 62.1ad-201x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016)

Table 6.5 (Minimum Exhaust Rates) lists minimum exhaust rates for certain spaces in which contaminants generation have been deemed high enough that its contaminant cannot be diluted and thus need to be exhausted. However, the standard does not require these spaces to be at any pressure. This proposed addendum adds the requirement for these spaces to be at a negative pressure with respect to adjacent spaces in order to minimize contaminants leakage to adjacent spaces.

Click here to view these changes in full

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

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

Addenda

BSR/ASHRAE Addendum 62.1x-201x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016)

The exhaust procedure in Standard 62.1-2016 contains requirements in notes. This proposed addendum relocates those requirements to the body of the standard. The performance compliance path is modified to be consistent with the proposed changes to the Indoor Air Quality Procedure (IAQP) in Addendum aa to 62.1-2016. Table 6.5.2 (Airstreams or Sources) is added as relocated from Section 5.

Click here to view these changes in full

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

ASNT (American Society for Nondestructive Testing)

Addenda

BSR/ASNT CP-189-201x Addenda, ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (addenda to ANSI/ASNT CP-189-2016)

This addendum will be effective immediately on approval and the requirements in this standard will be included in the main body of CP-189 during the next revision.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Charlie Longo; clongo@asnt.org

IIAR (International Institute of Ammonia Refrigeration)

Revision

BSR/IIAR 7-201X, Developing Operating Procedures for Closed-Circuit Ammonia Refrigeration Systems (revision of ANSI/IIAR 7-2013)

The purpose of this standard is to define the minimum requirements for developing operating procedures for closed-circuit ammonia refrigeration systems.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: tony_lundell@iiar.org

ISA (International Society of Automation)

Revision

BSR/ISA 96.03.01-201x, Guidelines for the Specification of Heavy Duty Pneumatically Powered Quarter Turn Scotch Yoke Valve Actuators (revision of ANSI/ISA 96.03.01-2012)

This standard provides general requirements for the development of specifications for pneumatic scotch yoke actuators. This document applies to actuators with a maximum allowable operating pressure (MAOP) up to 250 psig with a compressed gas (i.e., instrument air).

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: ebrazda@isa.org

NSF (NSF International)

Revision

BSR/NSF 42-201x (i99r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2017)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce specific aesthetic-related (non-health effects) contaminants in public or private water supplies. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 53-201x (i113r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2018)

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

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 55-201x (i46r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2017)

The purpose of this Standard is to establish minimum requirements for the reduction of microorganisms using ultraviolet radiation (UV). UV water treatment systems covered by this Standard are intended for water that may be either microbiologically safe or microbiologically unsafe. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 62-201x (i35r1), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2017)

This standard establishes minimum materials, design and construction, and performance requirements for point-of-use and point-of-entry drinking water distillation systems and the components used in these systems. Distillation systems covered by this standard are designed to reduce specific chemical contaminants from potable drinking water supplies. Systems covered under this standard may also be designed to reduce microbiological contaminants, including bacteria, viruses, and cysts, from potable drinking water supplies. It is recognized that a system may be effective in controlling one or more of these contaminants, but systems are not required to control all.

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 244-201x (i2r1), Supplemental Microbiological Water Treatment Systems - Filtration (revision of ANSI/NSF 244-2018)

The point-of-use (POU) and point-of-entry (POE) systems addressed by this Standard are designed to be used for the supplemental microbial control of specific organisms that may occasionally be present in drinking water (public or private) because of intermittent incursions. Certain of these specific organisms that may be introduced into the drinking water are considered established or potential health hazards. This Standard establishes requirements for POU and POE drinking water treatment systems, and the materials and components used in these systems.

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 401-201x (i11r1), Drinking water treatment units - Emerging compounds/incidental contaminants (revision of ANSI/NSF 401-2018)

The purpose of this Standard is to establish minimum requirements for materials, design, and construction, and performance of drinking water treatment systems that are designed to reduce emerging compounds in public or private water supplies, such as pharmaceutical, personal care products (PPCPs), and endocrine disrupting compounds (EDCs).

Click here to view these changes in full

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 719-2018 (R201x), Standard for Safety for Non-Metallic Sheathed Cable (reaffirmation of ANSI/UL 719-2018)

Addition of signal/control conductors used within a Type NM cable.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Linda Phinney, (510) 319 -4297, Linda.L.Phinney@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 347A-201x, Standard for Safety for Medium Voltage Output Equipment (revision of ANSI/UL 347A-2017)

(1) Power conversion equipment with low-voltage input and medium-voltage output; (2) Revision to Clause 7.3.1 - Driven Rain Test requirement for all outdoor enclosures.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Mitchell Gold, (847) 664 -2850, mitchell.gold@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 789-201x, Standard for Safety for Indicator Posts for Fire-Protection Service (revision of ANSI/UL 789-2003 (R2017))

This proposal for UL 789 covers: (1) Revised requirements to above ground valve mounted indicator post.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Griff Edwards, (919) 549 -0956, griff.edwards@ul.com

Comment Deadline: August 27, 2018

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 14160-201x, Sterilization of health care products - Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives - Requirements for characterization, development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 14160:201X (to be published) and revision of ANSI/AAMI/ISO 14160-2011 (R2016))

Specifies requirements for the characterization of a liquid chemical sterilizing agent and for the development, validation, process control, and monitoring of sterilization by liquid chemical sterilizing agents of single-use medical devices comprising, in whole or in part, materials of animal origin. Covers the control of risks arising from contamination with bacteria and fungi by application of a liquid chemical sterilization process.

Single copy price: Free

Obtain an electronic copy from: https://standards.aami.org/higherlogic/ws/public/document?document_id=14514&wg_id=PUBLIC_REV

Order from: standards@aami.org

Send comments (with copy to psa@ansi.org) to: abenedict@aami.org

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

Addenda

BSR/ASHRAE Addendum 62.1aa-201x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016)

The indoor air quality procedure has a long history going back to the 1981 standard. Weaknesses in the requirements for identifying the contaminants of concern, identifying concentration limits and exposure periods, and specifying the percentage of building occupants to be satisfied with perceived IAQ. Although the percentage of building occupants to be satisfied with perceived IAQ may be specified, and the standard requires that it be measured; this measurement usually would take place after occupancy so is often ignored or omitted. This proposed addendum adds requirements for designing to specific targets. The target design compounds and mixtures are specifically identified.

Single copy price: $35.00

Obtain an electronic copy from: Free download at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

Order from: standards.section@ashrae.org

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

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

Addenda

BSR/ASHRAE Addendum 62.1ab-201x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016)

Indoor CO2 has had a prominent place in discussions of ventilation and IAQ for many years. The relevant issues include the impacts of CO2 on building occupants, the use of CO2 to control outdoor air ventilation rates, CO2 monitoring as an indicator of general IAQ conditions and the use of indoor CO2 to estimate building ventilation rates. This proposed addendum adds a new Normative Appendix D, Estimation of Steady-State Indoor CO2 Concentrations Based on Per Person Ventilation Rates and Occupant Characteristics. The purpose is to describe the estimation of steady-state indoor carbon dioxide concentrations for a given per-person outdoor air ventilation rate.

Single copy price: $35.00

Obtain an electronic copy from: Free download at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

Order from: standards.section@ashrae.org

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

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

Addenda

BSR/ASHRAE Addendum 62.1ac-201x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016)

Informative Appendix C (Summary of Selected Air Quality Guidelines) in 62.1-2016 was deleted in a previous addendum. This proposed addendum adds a new Informative Appendix C with content supportive of changes to the Indoor Air Quality Procedure (IAQP).

Single copy price: $35.00

Obtain an electronic copy from: Free download at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

Order from: standards.section@ashrae.org

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

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

Revision

BSR/ASHRAE Standard 118.1-201x, Method of Testing for Rating Commercial Gas, Electric and Oil Service Water Heating Equipment (revision of ANSI/ASHRAE Standard 118.1-2012)

This revision of Standard 118.1-2012 updates the scope to be consistent with the Department of Energy's July 15, 2015, final rule that establishes new definitions for "commercial" and "residential duty commercial" water heaters and revises the definitions of heat pump water heaters. Test methods and calculations are revised for all heat-pump water heaters. The revision also updates Setting Outlet Water Temperature for Heating capacity for Type 1, Type II, Type III, Type IV, and Type V heaters, adds new Standby Loss test method and calculations for Type II and Type III Instantaneous Waters, and updates references.

Single copy price: $35.00

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

Order from: standards.section@ashrae.org

Send comments (with copy to psa@ansi.org) to: http://www.ashrae.org/standards-research--technology/public-review-drafts

AWS (American Welding Society)

Revision

BSR/AWS D15.1/D15.1M-201X, Railroad Welding Specification for Cars and Locomotives (revision of ANSI/AWS D15.1/D15.1M-2012)

This specification establishes minimum welding standards for the manufacture and maintenance of railcars, locomotives, and their components, intended for North American railroad service. Clauses 4 through 17 cover the general requirements for welding in the railroad industry. Clauses 18 through 24 cover specific requirements for the welding of base metals thinner than 1/8 in [3 mm].

Single copy price: $72.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

Send comments (with copy to psa@ansi.org) to: adavis@aws.org

CAGI (Compressed Air and Gas Institute)

New Standard

BSR/CAGI B186.1-201x, Safety Code for Portable Air Tools (new standard)

This code applies to the safety-related aspects of the design, construction, installation, operation, and maintenance of portable, hand-held, air tools.

Single copy price: Free

Obtain an electronic copy from: Leslie Schraff, cagi@cagi.org

Order from: Leslie Schraff, (216) 241-7333, cagi@cagi.org

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

CTA (Consumer Technology Association)

Reaffirmation

BSR/CTA 2003-C-2007 (R201x), Digital Audiobook File Format and Player Requirements (reaffirmation of ANSI/CTA 2003-C-2007 (R2013))

CTA-2003-C defines requirements and provides recommendations to publishers, software developers, content providers and hardware manufacturers for the data structure, usability requirements, playback systems and delivery systems for audiobooks in digital file format. It should be noted that throughout CTA-2003-C, the term, audiobook, is defined as any audio file or collection of audio files of primarily spoken word content that is played in a linear order. Therefore, spoken-word audio with occasional music, a narration of newspaper articles, or other similar spoken-word audio, would additionally be considered audiobooks under this standard.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

CTA (Consumer Technology Association)

Reaffirmation

BSR/CTA 2017.1-201x (R201x), Serial Communication Protocol for Portable Electronic Devices (reaffirmation of ANSI/CTA 2017.1-2007 (R2013))

This document describes a serial communication protocol that enables command and control communication between portable electronic devices and accessories attached to those devices. This protocol builds upon functions provided by the MOST network developed by the MOST Cooperation. MOST is a registered trademark of the MOST Cooperation.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

CTA (Consumer Technology Association)

Revision

BSR/CTA 814-C/J-STD-42-C-201x, Emergency Alert Messaging for Cable (revision and redesignation of ANSI J-STD-42-B-2013)

This standard defines an Emergency Alert signaling method for use by cable TV systems to signal emergencies to digital receiving devices that are offered for retail sale. Such devices include digital set-top boxes that are sold to consumers at retail, digital TV receivers, and digital video recorders.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

FCI (Fluid Controls Institute)

Revision

BSR/FCI 91-1-201x, Standard for Qualification of Control Valve Stem Seals (revision of ANSI/FCI 91-1-2010)

This standard classifies control valve stem seals by their ability to withstand mechanical and thermal cycles at a specified set of temperature and pressure conditions. Bellows, diaphragms, and tubular seals are not covered by this standard.

Single copy price: Free

Obtain an electronic copy from: Leslie Schraff, fci@fluidcontrolsinstitute.org

Order from: Leslie Schraff, (216) 241-7333, fci@fluidcontrolsinstitute.org

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

FM (FM Approvals)

New Standard

BSR/FM 1035-201x, Nitrogen Generators (new standard)

Contains test requirements for the performance of nitrogen generator systems as well as design requirements to ensure the systems have a reasonable life. It also contains requirements for marking of the systems, allowable maintenance operations, and operational parameters.

Single copy price: Free

Obtain an electronic copy from: josephine.mahnken@fmapprovals.com

Send comments (with copy to psa@ansi.org) to: josephine.mahnken@fmapprovals.com

HL7 (Health Level Seven)

New Standard

BSR/HL7 vMR CDSLM, R2-201x, HL7 Virtual Medical Record for Clinical Decision Support (vMR-CDS) Logical Models, Release 2 (new standard)

The vMR is a data model for representing the data that are analyzed and/or produced by CDS engines. This specification defines a logical model of the vMR using the Unified Modeling Language (UML). The vMR Logical Model can be further constrained through vMR templates. Furthermore, physical models derived from the logical model are defined through additional specifications.

Single copy price: Free to members; free to non-members 90 days following ANSI approval and publication by HL7.

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

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

HL7 (Health Level Seven)

Revision

BSR/HL7 V3 DSS, R2-201x, HL7 Version 3 Standard: Decision Support Services, Release 2 (revision and redesignation of ANSI/HL7 V3 DSS, R1 -2011)

This revision to Release 1 of the standard will be informed in part by the requirements for a Decision Support Service (also known as a Clinical Decision Support Guidance Service) developed by the Standards and Interoperability Framework's Health eDecisions Initiative. Anticipated enhancements include support for Representational State Transfer (REST) and other improvements based on experience with using Release 1 of the standard.

Single copy price: Free to members; free to non-members 90 days following ANSI approval and publication by HL7.

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

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

ISA (International Society of Automation)

New Standard

BSR/ISA 96.03.04-201x, Guidelines for the Specification of Linear Piston Pneumatic Actuators (new standard)

This standard provides general requirements for the development of specifications, for piston-type, linear pneumatic valve actuators for On/Off applications, which shall simply be referred to as linear pneumatic actuator (s) in this document.

Single copy price: $50.00

Obtain an electronic copy from: ebrazda@isa.org

Send comments (with copy to psa@ansi.org) to: ebrazda@isa.org

ISA (International Society of Automation)

Revision

BSR/ISA 67.04.01-201x, Setpoints for Nuclear Safety-Related Instrumentation (revision of ANSI/ISA 67.04.01-2006 (R2011))

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

Single copy price: $60.00

Obtain an electronic copy from: ebrazda@isa.org

Send comments (with copy to psa@ansi.org) to: ebrazda@isa.org

MTConnect (MTConnect Institute)

New Standard

BSR/MTC1.4-201x, MTConnect Standard V1.4 (new standard)

MTConnect Standard V1.4 (new standard) MTConnect is an open, royalty-free standard that is intended to foster greater interoperability between devices and software applications. By establishing an open and extensible channel of communication for plug-and-play interconnectivity between devices, equipment and systems, MTConnect allows sources to exchange and understand each other's data, which provides more efficient operations, improves production optimization, and increases productivity.

Single copy price: Free

Obtain an electronic copy from: www.mtconnect.org/s/MTConnect_Standard_V1_4.pdf

Order from: pkachel@amtonline.org

Send comments (with copy to psa@ansi.org) to: rwaddell@amtonline.org

NACF (North American Crossbow Federation)

New Standard

BSR/NACF 001-201x, Criteria of Crossbow Designs Under Conditions of Reasonable Foreseeable Use and Abuse by Users (new standard)

This voluntary Industry Performance Standard provides the crossbow designer and manufacturer with recommendations for test procedures to evaluate the performance of safeties and components incorporated into crossbows intended to provide protection for the fingers, thumb, and hand of the recurve and compound crossbow users. The test parameters are intended to simulate conditions by users that could result in accidental firing or injury to the user's fingers, thumbs, or hands.

Single copy price: Free

Obtain an electronic copy from: www.northamericancrossbowfederation.com

Send comments (with copy to psa@ansi.org) to: www.northamericancrossbowfederation.com

NEMA (ASC C8) (National Electrical Manufacturers Association)

Reaffirmation

BSR/ICEA P-79-561-2008 (R201x), Guide for Selecting Aerial Cable Messengers and Lashing Wires (reaffirmation of ANSI/ICEA P-79-561-2008 (R2013))

This guide has been prepared to facilitate the selection of messengers and lashing wires for both field- and factory-assembled, self-supporting aerial cables.

Single copy price: $118.00

Obtain an electronic copy from: khaled.masri@nema.org

Order from: Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org

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

NSF (NSF International)

Revision

BSR/NSF 55-201x (i47r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2017)

The purpose of this Standard is to establish minimum requirements for the reduction of microorganisms using ultraviolet radiation (UV). UV water treatment systems covered by this Standard are intended for water that may be either microbiologically safe or microbiologically unsafe. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/43459/55i47r1%20-%20%20S.%20cerevisiae%20-%20JC%20memo%20&%20ballot.pdf.

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

RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)

Revision

BSR/RESNA SS-1-201x, RESNA for Support Surfaces - Volume 1: Requirements and Test Methods for Full Body Support Surfaces (revision of ANSI/RESNA SS-1-2014)

This standard applies to full body support surfaces (i.e., mattresses, mattress overlays, and integrated bed systems). Revisions will address the following methods: measuring horizontal stiffness, measuring envelopment or conformation to the irregularities of a body to distribute pressure, characterizing how well a support surface envelopes a dual semispherical indenter, and measuring heat and water vapor dissipation properties of full body support surfaces. This information intends to help differentiate performance characteristics of support surfaces and is not intended to determine overall performance, ranking, or scoring of such surfaces.

Single copy price: $350.00

Obtain an electronic copy from: ymeding@resna.org

Order from: Yvonne Meding, (703) 524-6686, YMeding@resna.org

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 1369-201x, Standard for Safety for Aboveground Piping for Flammable and Combustible Liquids (new standard)

Recirculation of revised proposed first edition of the Standard for Safety for Aboveground Piping for Flammable and Combustible Liquids, which covers primary, secondary, and coaxial types of aboveground pipes intended for transfer and containment of specific flammable and combustible liquids and fuels or fuel components (and vapors thereof) identified in this Standard, at their manufacturing, processing, and distribution facilities, commercial (public) or fleet (private) motor-vehicle fueling stations or similar fuel-dispensing applications, and piping systems for fuel supply of generators, burners, or similar equipment.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Jeff Prusko, (847) 664-3416, jeffrey.prusko@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 38-2005 (R201x), Standard for Safety for Manual Signaling Boxes for Fire Alarm Systems (reaffirmation of ANSI/UL 38-2005 (R2013))

UL proposes a reaffirmation for ANSI approval of UL 38.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Wathma Jayathilake, (613) 368-4432, Wathma.Jayathilake@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 580-2009 (R201x), Standard for Safety for Tests for Uplift Resistance of Room Assemblies (reaffirmation of ANSI/UL 580-2009 (R2013))

UL proposes a reaffirmation for ANSI approval of UL 580.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Wathma Jayathilake, (613) 368-4432, Wathma.Jayathilake@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 681-2014 (R201x), Standard for Safety for Installation and Classification of Burglar and Holdup Alarm Systems (reaffirmation of ANSI/UL 681-2014)

UL proposes a reaffirmation for ANSI approval of UL 681.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Wathma Jayathilake, (613) 368-4432, Wathma.Jayathilake@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 2367-2009 (R201x), Solid State Overcurrent Protectors (reaffirmation of ANSI/UL 2367-2009 (R2014))

This standard covers solid-state overcurrent protectors. These devices are solid-state switches that limit the output current to a safe level when the output load exceeds the current-limit threshold or when a load-side short-circuit is present. Solid-state overcurrent protectors are intended to be used on the load-side of an isolating transformer, power supply, or battery to provide a means of supplementary protection.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Mitchell Gold, (847) 664-2850, mitchell.gold@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 2368-2014 (R201x), Standard for Safety for Fire Exposure Testing of Rigid Nonmetallic and Composite Nonmetallic Intermediate Bulk Containers for Combustible Liquids (reaffirmation of ANSI/UL 2368-2014)

UL proposes a reaffirmation for ANSI approval of UL 2368.

Single copy price: Free

Obtain an electronic copy from: http://www.shopulstandards.com

Send comments (with copy to psa@ansi.org) to: Wathma Jayathilake, (613) 368-4432, Wathma.Jayathilake@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 508A-201X, Standard for Safety for Industrial Control Panels (revision of ANSI/UL 508A-2018)

This ballot includes the revision to the following topics of the Standard: ECBT2 Connectors in Control Circuits, SCCR for EMI Filters in Panels, Use of Male-type Receptacles in Panels, Sizing of Branch Circuit Protection for Heater Loads, Emergency Stop Devices in Panels, Wire Positioning Devices in Panels, Sizing the Feeder: same approach for all Panels, Sizing the Feeder, Correct table 52.1 to allow markings to be in the inside of a panel, SB 4.3.3 - Addition of Class CFI, 55.4 Multiple Disconnect sign, Revision to Section 55 - Markings, Revision of 31.4.1(c) to correlate with NEC 430.53(C)(1), Bus Bar Construction Requirements for 100kA SCCR without testing, Door interlocking/Restricted Access to Enclosures, Color Coding, Correction of 700A Class T fuse lethrough in Table SB4.2, and Add UL 61010-2-201 to Par. 42.2.3.1 Ex. 2.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.shopulstandards.com

Order from: comm2000, 151 Eastern Avenue, Bensenville, IL 60106 USA, 1-888-853-3503

Send comments (with copy to psa@ansi.org) to: Casey Granata, (919) 549-1054, Casey.Granata@UL.Com

Comment Deadline: August 30, 2018

National Fire Protection Association (NFPA)

The National Fire Protection Association announces the availability of NFPA 70 First Draft Report for concurrent review and comment by NFPA and ANSI. The disposition of all comments received will be published in the Second Draft Report, located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/70next), can easily access the document's information page. All comments on the NFPA 70 First Draft Report must be received by August 30, 2018. The First Draft Report for NFPA 70 contains the disposition of public input received for this proposed document. Anyone wishing to review any of the First Draft Report for NFPA 70 may do so on the document's information page under the next edition tab. The document's specific URL, for example www.nfpa.org/doc#next (www.nfpa.org/70next), can easily access the document's information page. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website at http://www.nfpa.org or contact NFPA's Codes and Standards Administration, at NFPA, One Batterymarch Park, Quincy, MA, 02269-7471. Those who send comments to NFPA on the related documents are invited to copy ANSI's Board of Standards Review.

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 70-201x, National Electrical Code® (revision of ANSI/NFPA 70-2013)

90.2(A) Covered. This Code covers the installation and removal of electrical conductors, equipment, and raceways; signaling and communications conductors, equipment, and raceways; and optical fiber cables and raceways for the following: (1) Public and private premises, including buildings, structures, mobile homes, recreational vehicles, and floating buildings; (2) Yards, lots, parking lots, carnivals, and industrial substations; (3) Installations of conductors and equipment that connect to the supply of electricity; (4) Installations used by the electric utility, such as office buildings, warehouses, garages, machine shops, and recreational buildings, that are not an integral part of a generating plant, substation, or control center

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME PTC 25-201x, Pressure Relief Devices (revision of ANSI/ASME PTC 25-2014)

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

Single copy price: Free

Obtain an electronic copy from: http://cstools.asme.org/publicreview

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Colleen O'Brien, (212) 591-7881, obrienc@asme.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1254-201X, Standard for Pre-Engineered Dry and Wet Chemical Extinguishing System Units (revision of ANSI/UL 1254-2017)

UL proposes the Fifth Edition of the Standard for Pre-Engineered Dry and Wet Chemical Extinguishing System Units, which includes: (A) Updating the standard to be consistent with requirements for pre-engineered wet chemical extinguishing system units and (B) First-time SCC approval for Pre-Engineered Dry and Wet Chemical Extinguishing System Units, ANSI/CAN/UL/ULC 1254.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Nicolette Weeks, (919) 549-0973, Nicolette.A.Weeks@ul.com

Comment Deadline: September 11, 2018

ANS (American Nuclear Society)

Revision

BSR/ANS 8.23-201x, Nuclear Criticality Accident Emergency Planning and Response (revision of ANSI/ANS 8.23-2007 (R2012))

This standard provides criteria for minimizing risks to personnel during an emergency response to a nuclear criticality accident outside reactors. The criteria address management and technical staff responsibilities, planning, equipment, evacuation, rescue, reentry, stabilization, classroom training, drills, and exercises. This standard applies to facilities, locations, or activities judged to have credible and non-trivial consequences from a criticality accident. This standard does not apply to nuclear power plant sites or to licensed research reactor facilities, which are addressed by other standards.

Single copy price: $131.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

Send comments (with copy to psa@ansi.org) to: pschroeder@ans.org

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject.

Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

NASBLA (National Association of State Boating Law Administrators)

ESP TR 103-2018, Technical Report - Basic Boating Knowledge - Power (technical report)

Technical Report - Basic Boating Knowledge - Power was developed by the National Boating Education Standards Panel to advance use and common understanding of American National Standards for Basic Boating Knowledge. This Technical Report supports the American National Standard (ANS) titled ANSI/NASBLA 103-2016: Basic Boating Knowledge – Power, which was formulated through voluntary consensus of representatives of federal and state government, industry, non-profit organizations, and public sectors. The purpose of this Technical Report is to provide information that helps design and implement successful recreational power boating education and training programs.

Single copy price: Free of Charge for electronic copies (free download)

Order from: Pamela Dillon, (859) 225-9487, pam@nasbla.org

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

Projects Withdrawn from Consideration

An accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

AHAM (Association of Home Appliance Manufacturers)

BSR/AHAM CHA-1-200x, Connect Home Appliances - Object Modeling (revision of ANSI/AHAM CHA-1-2003 (R2007))

AHAM (Association of Home Appliance Manufacturers)

BSR/AHAM CM-1-201x, Household Electric Coffeemakers (revision of ANSI/AHAM CM-1-2007)

AHAM (Association of Home Appliance Manufacturers)

BSR/AHAM DH-1-201x, Dehumidifiers (revision of ANSI/AHAM DH-1-2008)

AHAM (Association of Home Appliance Manufacturers)

BSR/AHAM HRF-1-201x, Energy and Internal Volume of Refrigerating Appliances (new standard)

Inquiries may be directed to Matthew Williams, (202) 872-5955, mwilliams@aham.org

AHAM (Association of Home Appliance Manufacturers)

BSR/AHAM TC-1-201x, Method for Measuring Performance of Household Trash Compactors (revision of ANSI/AHAM TC-1-2007)

30 Day Notice of Withdrawal: ANS 5 to 10 years past approval date

In accordance with clause 4.7.1 Periodic Maintenance of American National Standards of the ANSI Essential Requirements, the following American National Standards have not been reaffirmed or revised within the five-year period following approval as an ANS. Thus, they shall be withdrawn at the close of this 30-day public review notice in Standards Action.

AGMA (American Gear Manufacturers Association)

ANSI/AGMA 6022-C93 (R2008), Design Manual for Cylindrical Wormgearing

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM CM-1-2007, Method for Measuring Performance of Household Coffee Makers

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM CHA-1-2003 (R2007), Connected Home Appliances - Object Modeling

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM DH-1-2008, Dehumidifiers

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM HRF-1-2007, Energy, Performance and Capacity of Household Refrigerators, Refrigerator-Freezers, and Freezers

AHAM (Association of Home Appliance Manufacturers)

ANSI/AHAM TC-1-2007, Method for Measursing Performance of Household Trash Compactors

HFES (Human Factors & Ergonomics Society)

ANSI/HFES 100-2007, Human Factors Engineering of Computer Workstations

ISA (International Society of Automation)

ANSI/ISA 5.06.01-2007, Functional Requirements Documentation for Control Software Applications

ISA (International Society of Automation)

ANSI/ISA 62443-1-1 (99.01.01)-2007, Security for Industrial Automation and Control Systems - Part 1-1: Terminology, Concepts, and Models

MedBiq (MedBiquitous Consortium)

ANSI/MEDBIQ LO.10.1-2008, Healthcare Learning Object Metadata

MedBiq (MedBiquitous Consortium)

ANSI/MEDBIQ PP.10.1-2008, Healthcare Professional Profile

NAAMM (National Association of Architectural Metal Manufacturers)

ANSI/NAAMM FP 1001-2007, Guide Specifications for Design of Metal Flagpoles

NFPA (National Fire Protection Association)

ANSI/NFPA 560-2006, Standard for the Storage, Handling, and Use of Ethylene Oxide for Sterilization and Fumigation

NW&RA (ASC Z245) (National Waste & Recycling Association)

ANSI Z245.30-2008, Equipment Technology and Operations for Wastes and Recyclable Materials - Waste Containers - Safety Requirements

NW&RA (ASC Z245) (National Waste & Recycling Association)

ANSI Z245.60-2008, Equipment Technology and Operations for Wastes and Recyclable Materials - Waste Containers - Compatibility Dimensions

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 03-2008, Test Method for Coaxial Cable Structural Return Loss

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 48-2-2008, Test Procedure for Measuring Relative Shielding Properties of Active and Passive Coaxial Cable Devices Using Agilent Magnetic Close Field Probe

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

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

ACMA (American Composites Manufacturers Association)

ANSI/ACMA/ICPA SS-1-2013, Performance Standard for Solid Surface Materials

Questions may be directed to: Larry Cox, (740) 928-3286, Lcox1225@gmail.com

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.

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 4301 N. Fairfax Dr., Suite 301
Arlington, VA 22203

Contact: *Amanda Benedict*

Phone: (703) 253-8284

E-mail: abenedict@aami.org

BSR/AAMI/ISO 14160-201x, Sterilization of health care products - Liquid chemical sterilizing agents for single-use medical devices utilizing animal tissues and their derivatives - Requirements for characterization, development, validation and routine control of a sterilization process for medical devices (identical national adoption of ISO 14160:201X (to be published) and revision of ANSI/AAMI/ISO 14160-2011 (R2016))

ASNT (American Society for Nondestructive Testing)

Office: 1711 Arlingate Lane
P.O. Box 28518
Columbus, OH 43228-0518

Contact: *Charles Longo*

Phone: (800) 222-2768 ext 241

E-mail: clongo@asnt.org

BSR/ASNT CP-189-201x Addenda, ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (addenda to ANSI/ASNT CP-189-2016)

CAGI (Compressed Air and Gas Institute)

Office: 1300 Sumner Avenue
Cleveland, OH 44115

Contact: *Leslie Schraff*

Phone: (216) 241-7333

E-mail: cagi@cagi.org

BSR/CAGI B186.1-201x, Safety Code for Portable Air Tools (new standard)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

ANSI/CEA 849-B-2008 (R2013), Application Profiles for CEA-775 Compliant DTVs (withdrawal of ANSI/CEA 849-B-2008 (R2013))

BSR/CTA 814-C/J-STD-42-C-201x, Emergency Alert Messaging for Cable (revision and redesignation of ANSI J-STD-42-B-2013)

BSR/CTA 2003-C-2007 (R201x), Digital Audiobook File Format and Player Requirements (reaffirmation of ANSI/CTA 2003-C-2007 (R2013))

BSR/CTA 2017.1-201x (R201x), Serial Communication Protocol for Portable Electronic Devices (reaffirmation of ANSI/CTA 2017.1-2007 (R2013))

FCI (Fluid Controls Institute)

Office: 1300 Sumner Avenue
Cleveland, OH 44115

Contact: *Leslie Schraff*

Phone: (216) 241-7333

E-mail: fci@fluidcontrolsinstitute.org

BSR/FCI 18-1-201x, Standard for Testing and Rating Strainers (new standard)

BSR/FCI 91-1-201x, Standard for Qualification of Control Valve Stem Seals (revision of ANSI/FCI 91-1-2010)

ISA (International Society of Automation)

Office: 67 Alexander Drive
Research Triangle Park, NC 27709

Contact: *Eliana Brazda*

Phone: (919) 990-9228

E-mail: ebrazda@isa.org

BSR/ISA 67.01.01-201x, Transducer and Transmitter Installation for Nuclear Safety Applications (new standard)

BSR/ISA 67.04.01-201x, Setpoints for Nuclear Safety-Related Instrumentation (revision of ANSI/ISA 67.04.01-2006 (R2011))

BSR/ISA 96.03.01-201x, Guidelines for the Specification of Heavy Duty Pneumatically Powered Quarter Turn Scotch Yoke Valve Actuators (revision of ANSI/ISA 96.03.01-2012)

BSR/ISA 96.03.04-201x, Guidelines for the Specification of Linear Piston Pneumatic Actuators (new standard)

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

Office: 1101 K Street NW
Suite 610
Washington, DC 20005-3922

Contact: *Lynn Barra*

Phone: (202) 737-8888

E-mail: comments@standards.incits.org

INCITS 559-201x, Information technology - Fibre Channel - Physical Interfaces - 7P (FC-PI-7P) (new standard)

MTConnect (MTConnect Institute)

Office: 7901 Jones Branch Drive
Suite 900
McLean, VA 22102

Contact: *Pamela Kachel*

Phone: (703) 827-5274

E-mail: pkachel@AMTonline.org

BSR/MTC1.4-201x, MTConnect Standard V1.4 (new standard)

NSF (NSF International)

Office: 789 N. Dixboro Road
Ann Arbor, MI 48105-9723

Contact: *Monica Leslie*

Phone: (734) 827-5643

E-mail: mleslie@nsf.org

BSR/NSF 42-201x (i99r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2017)

BSR/NSF 53-201x (i113r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2018)

BSR/NSF 55-201x (i46r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2017)

BSR/NSF 55-201x (i47r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2017)

BSR/NSF 62-201x (i35r1), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2017)

BSR/NSF 244-201x (i2r1), Supplemental Microbiological Water Treatment Systems - Filtration (revision of ANSI/NSF 244-2018)

BSR/NSF 401-201x (i11r1), Drinking water treatment units - Emerging compounds/incidental contaminants (revision of ANSI/NSF 401-2018)

TIA (Telecommunications Industry Association)

Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201

Contact: *Teesha Jenkins*

Phone: (703) 907-7706

E-mail: standards@tiaonline.org

BSR/TIA 102.AAAB-B-201x, Security Services Overview (new standard)

BSR/TIA 102.BAEF-A-201x, Packet Data Host Network Interface (revision and redesignation of ANSI/TIA 102.BAEF-2013)

BSR/TIA 102.BAED-A-201x, Packet Data Logical Link Control Procedures (revision and redesignation of ANSI/TIA 102.BAED-2013)

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995

Contact: *Wathma Jayathilake*

Phone: (613) 368-4432

E-mail: Wathma.Jayathilake@ul.com

BSR/UL 38-2005 (R201x), Standard for Safety for Manual Signaling Boxes for Fire Alarm Systems (reaffirmation of ANSI/UL 38-2005 (R2013))

BSR/UL 580-2009 (R201x), Standard for Safety for Tests for Uplift Resistance of Room Assemblies (reaffirmation of ANSI/UL 580-2009 (R2013))

BSR/UL 681-2014 (R201x), Standard for Safety for Installation and Classification of Burglar and Holdup Alarm Systems (reaffirmation of ANSI/UL 681-2014)

BSR/UL 2368-2014 (R201x), Standard for Safety for Fire Exposure Testing of Rigid Nonmetallic and Composite Nonmetallic Intermediate Bulk Containers for Combustible Liquids (reaffirmation of ANSI/UL 2368-2014)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

Are you interested in contributing to the development and maintenance of valuable industry safety standards? The ASC O1 is currently looking for members in the following categories:

- General Interest
- Government
- Producer
- User

If you are interested in joining the ASC O1, contact WMMA Associate Director Jennifer Miller at jennifer@wmma.org.

Final Actions on American National Standards

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

ABYC (American Boat and Yacht Council)

Revision

ANSI/ABYC P-17-2018, Mechanical Steering Systems (revision of ANSI/ABYC P-17-2013): 6/27/2018

AISC (American Institute of Steel Construction)

Revision

ANSI/AISC N690-2018, Specification for Safety-Related Steel Structures for Nuclear Facilities (revision, redesignation and consolidation of): 6/28/2018

ANS (American Nuclear Society)

Reaffirmation

ANSI/ANS 3.4-2013 (R2018), Medical Certification and Monitoring of Personnel Requiring Operator Licenses for Nuclear Power Plants (reaffirmation of ANSI/ANS 3.4-2013): 7/2/2018

APCO (Association of Public-Safety Communications Officials-International)

New Standard

ANSI/APCO 1.115.1-2018, Core Competencies, Operational Factors and Training for Next Generation Technologies in Public Safety Communications (new standard): 7/3/2018

APTech (ASC CGATS) (Association for Print Technologies)

Withdrawal

ANSI CGATS.20-2002 (R2012), Graphic technology - Variable printing data exchange using PPML and PDF (PPML/VDX) (withdrawal of ANSI CGATS.20-2002 (R2012)): 6/29/2018

ASA (ASC S12) (Acoustical Society of America)

Reaffirmation

ANSI ASA S12.9-1992/Part 2 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 2: Measurement of Long-Term, Wide-Area Sound (reaffirmation of ANSI ASA S12.9-1992/Part 2 (R2013)): 6/29/2018

ANSI ASA S12.9-2013/Part 1 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 1: Basic Quantities and Definitions (reaffirmation of ANSI ASA S12.9 -2013/Part 1): 6/29/2018

ANSI ASA S12.9-2013/Part 3 (R2018), Quantities and Procedures for Description and Measurement of Environmental Sound - Part 3: Short-Term Measurements with an Observer Present (reaffirmation of ANSI ASA S12.9-2013/Part 3): 6/29/2018

ASABE (American Society of Agricultural and Biological Engineers)

New Standard

ANSI/ASABE S632-1-JUN2018, Precision Agriculture Irrigation Language: Core Concepts, Processes, and Objects (new standard): 6/29/2018

ANSI/ASABE S632-3-JUN2018, Precision Agriculture Irrigation Language: Core Concepts, Processes, and Objects (new standard): 6/29/2018

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

Addenda

ANSI/ASHRAE 188h-2018, Legionellosis: Risk Management for Building Water Systems (addenda to ANSI/ASHRAE Standard 188 -2015): 6/28/2018

ANSI/ASHRAE/ICC/USGBC/IES 189.1ck-2018, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 6/28/2018

ANSI/ASHRAE/IES 90.1ab-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ac-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ad-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ae-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ag-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ah-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1ak-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1am-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1o-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

ANSI/ASHRAE/IES 90.1x-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 6/28/2018

Revision

ANSI/ASHRAE Standard 32.2-2018, Methods of Testing for Rating Pre-Mix and Post-Mix Beverage Dispensing Equipment (revision of ANSI/ASHRAE Standard 32.2-2003 (R2011)): 6/26/2018

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME B29.21-2013 (R2018), 700 Class Chains, Attachments and Sprocket Teeth for Water and Sewage Treatment Plants (reaffirmation of ANSI/ASME B29.21-2013): 6/29/2018

ANSI/ASME PTC 11-2008 (R2018), Fans (reaffirmation of ANSI/ASME PTC 11-2008): 6/27/2018

Revision

ANSI/ASME B31.1-2018, Power Piping (revision of ANSI/ASME B31.1 -2016): 6/27/2018

ANSI/ASME B31.8S-2018, Managing System Integrity of Gas Pipelines (revision of ANSI/ASME B31.8S-2016): 7/2/2018

ANSI/ASME QEI-1-2018, Standard for the Qualification of Elevator Inspectors (revision of ANSI/ASME QEI-1-2013): 6/29/2018

ASSP (Safety) (American Society of Safety Professionals)

Revision

ANSI/ASSP Z9.2-2018, Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems (revision and redesignation of ANSI/AIHA Z9.2-2001 (R2011)): 7/2/2018

ATIS (Alliance for Telecommunications Industry Solutions)

Stabilized Maintenance

ANSI ATIS 0300255-2008 (S2018), In-Service, Non-Intrusive Measurement Device (INMD) Methodology for Applying INMD Measurements to Customer Opinion Models (stabilized maintenance of ANSI ATIS 0300255-2008 (R2013)): 7/2/2018

ANSI ATIS 1000678.a.v2-2007 (S2018), Lawfully Authorized Electronic Surveillance (LAES) for Voice over Packet Technologies in Wireline Telecommunications Networks (stabilized maintenance of ANSI ATIS 1000678.a.v2-2007 (R2013)): 6/27/2018

ANSI ATIS 1000678.v2-2006 (S2018), Lawfully Authorized Electronic Surveillance (LAES) for Voice over Packet Technologies in Wireline Telecommunications Networks, Version 2 (stabilized maintenance of ANSI ATIS 1000678.v2-2006 (R2013)): 6/27/2018

EOS/ESD (ESD Association, Inc.)

Reaffirmation

ANSI/ESD STM2.1-2013 (R2018), ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items - Garments - Resistive Characterization (reaffirmation of ANSI/ESD STM2.1-2013): 6/27/2018

HI (Hydraulic Institute)

Revision

ANSI/HI 7.6-2018, Controlled Volume Metering Pumps - Test (revision of ANSI/HI 7.6-2012): 6/29/2018

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

ANSI/IEEE 430-2017, Standard Procedures for the Measurement of Radio Noise from Overhead Power Lines and Substations (new standard): 7/2/2018

ANSI/IEEE 1899-2017, Guide for Establishing Basic Requirements for High-Voltage Direct-Current Transmission Protection and Control Equipment (new standard): 7/2/2018

ANSI/IEEE 2402-2017, Standard Design Criteria of Complex Virtual Instruments for Ocean Observation (new standard): 7/2/2018

ANSI/IEEE C57.120-2017, Guide for Loss Evaluation of Distribution and Power Transformers and Reactors (new standard): 7/2/2018

ANSI/IEEE C93.3-2017, Standard for the Requirements for Power-Line Carrier Line Traps (30-500 kHz) (new standard): 7/2/2018

ISEA (International Safety Equipment Association)

New Standard

ANSI/ISEA 121-2018, Dropped Object Prevention Solutions (new standard): 7/2/2018

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

New National Adoption

INCITS/ISO/IEC 14882:2017 [2018], Programming languages - C++ (identical national adoption of ISO/IEC 14882:2017 and revision of INCITS/ISO/IEC 14882:2014 [2016]): 6/29/2018

NAAMM (National Association of Architectural Metal Manufacturers)

Reaffirmation

ANSI/NAAMM HMMA 801-2012 (R2018), Glossary of Terms for Hollow Metal Doors and Frames (reaffirmation of ANSI/NAAMM HMMA 801-2012): 6/29/2018

ANSI/NAAMM HMMA 866-2012 (R2018), Guide Specifications for Stainless Steel Hollow Metal Doors and Frames (reaffirmation of ANSI/NAAMM HMMA 866-2012): 6/29/2018

NECA (National Electrical Contractors Association)

Revision

ANSI/NECA 120-2018, Standard for Installing Armored Cable (Type AC) and Metal-Clad Cable (Type MC) (revision of ANSI/NECA 120 -2012): 6/28/2018

NEMA (ASC C119) (National Electrical Manufacturers Association)

Revision

ANSI C119.6-2018, Electric Connectors - Non-Sealed, Multiport Connector Systems Rated 600 Volts or Less for Aluminum and Copper Conductors (revision of ANSI C119.6-2011): 6/29/2018

NENA (National Emergency Number Association)

New Standard

ANSI/NENA STA-019.1-2018, NG9-1-1 Call Processing Metrics Standard (new standard): 7/2/2018

ANSI/NENA STA-027.3-2018, NENA E9-1-1 PSAP Equipment Standard (new standard): 7/2/2018

NFRC (National Fenestration Rating Council)

Revision

ANSI/NFRC 100-2017 [E0A2], Procedure for Determining Fenestration Product U-factors (revision of ANSI/NFRC 100-2017): 7/2/2018

ANSI/NFRC 200-2017 [E0A1], Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (revision of ANSI/NFRC 200-2017): 7/2/2018

NSF (NSF International)

Revision

ANSI/NSF 6-2018 (i13r2), Dispensing Freezers (revision of ANSI/NSF 6-2016): 6/25/2018

SCTE (Society of Cable Telecommunications Engineers)

New Standard

ANSI/SCTE 242-3-2017, Next Generation Audio Coding Constraints for Cable Systems: Part 3 - MPEG-H Audio Coding Constraints (new standard): 6/28/2018

ANSI/SCTE 243-3-2017, Next Generation Audio Carriage Constraints for Cable Systems: Part 3 -MPEG-H Audio Carriage Constraints (new standard): 6/28/2018

UL (Underwriters Laboratories, Inc.)

New Standard

ANSI/UL 508A-2018, Standard for Safety for Industrial Control Panels (new standard): 7/3/2018

Reaffirmation

ANSI/UL 887-2004 (R2018), Standard for Safety for Delayed-Action Timelocks (reaffirmation of ANSI/UL 887-2004 (R2013)): 6/26/2018

ANSI/UL 1686-2014 (R2018), Standard for Safety for Pin and Sleeve Configurations (reaffirmation of ANSI/UL 1686-2014): 6/25/2018

Revision

ANSI/UL 87A-2018, Standard for Safety for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 87A-2017): 6/27/2018

ANSI/UL 87A-2018a, Standard for Safety for Power-Operated Dispensing Devices for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 87A-2017): 6/27/2018

* ANSI/UL 414-2018, Standard for Safety for Meter Sockets (revision of ANSI/UL 414-2016): 6/29/2018

ANSI/UL 414-2018a, Standard for Safety for Meter Sockets (revision of ANSI/UL 414-2016): 6/29/2018

ANSI/UL 498-2018, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2017): 6/27/2018

ANSI/UL 498-2018a, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2017): 6/27/2018

ANSI/UL 1004-4-2018, Standard for Safety for Electric Generators (revision of ANSI/UL 1004-4-2015): 6/29/2018

ANSI/UL 1004-4-2018a, Standard for Safety for Electric Generators (revision of ANSI/UL 1004-4-2015): 6/29/2018

ANSI/UL 1242-2018, Standard for Safety for Electrical Intermediate Metal Conduit - Steel (revision of ANSI/UL 1242-2014): 6/25/2018

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.

ANS (American Nuclear Society)

Contact: Kathryn Murdoch, (708) 579-8268, kmurdoch@ans.org
555 North Kensington Avenue, La Grange Park, IL 60526

BSR/ANS 16.1-201x, Measurement of the Leachability of Solidified Low-Level Radioactive Wastes by a Short-Term Test Procedure (revision of ANSI/ANS 16.1-2003 (R2017))

Stakeholders: LLW generators (e.g., nuclear power plants, laboratories, and hospitals), LLW disposal site owners and operators, vendors of low-level waste handlers and transporters.

Project Need: ANSI/ANS 16.1-2003 (R201) was reaffirmed in 2017 with the understanding that this standard would be revised to update its technical content. Alternative test methods have been published such as US EPA Method 1315 which should be compared to this standard. Also, there are limitations to the method presented in ANS 16.1 and issues associated with interpretation of results which should be clearly enumerated in the next revision. The recommended purpose and applicability of the method will be more clearly defined in the revision.

This standard provides a procedure to measure and index the release rates of non-volatile radionuclides from waste forms in demineralized water over a five-day test period. It can be applied to any material from which test specimens can be prepared by casting or cutting into a shape for which the surface area and volume can be determined. The results of this procedure do not represent waste form degradation in any specific environmental situation. The test presented in this ANS-16.1 standard is an adaptation of the provisions published in the original version of this standard in 1986.

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

Contact: Steven Ferguson, (404) 636-8400, sferguson@ashrae.org; sreiniche@ashrae.org
1791 Tullie Circle NE, Atlanta, GA 30329

BSR/ASHRAE Standard 225-201x, Methods for Performance Testing Centrifugal Refrigerant Compressors and Condensing Units (new standard)

Stakeholders: System and compressor manufacturers.

Project Need: This standard applies to centrifugal refrigerant compressors and condensing units utilizing any refrigerants. This standard applies to single and multi-stage compressors with or without means of intermediate cooling.

This standard provides methods of testing for the performance rating of centrifugal refrigerant compressors and condensing units.

ASME (American Society of Mechanical Engineers)

Contact: Mayra Santiago, (212) 591-8521, ansibox@asme.org
Two Park Avenue, New York, NY 10016-5990

BSR/ASME B31T-201x, Standard Toughness Requirements for Piping (revision of ANSI/ASME B31T-2015)

Stakeholders: Industries that utilize pressure piping constructed to the ASME B31 Code including - Power Piping, Process Piping, Liquid and Slurry Piping Transportation Systems, Refrigeration Piping, Gas Transmission and Distribution Piping, and Building Services Piping.

Project Need: There is a need for a common standard to provide guidance for low-temperature toughness requirements, which may be incorporated by reference in the ASME B31 Code sections or invoked by users in technical specifications.

This standard provides requirements for evaluating the suitability of materials used in piping systems for piping that may be subject to brittle failure due to low temperature service conditions.

ASPE (American Society of Plumbing Engineers)

Contact: Gretchen Pienta, (847) 296-0002, gpienta@aspe.org
6400 Shafer Court, Suite 350, Rosemont, IL 60018

BSR/ARCSA/ASPE 63-201x, Rainwater Catchment Systems (revision of ANSI/ARCSA/ASPE 63-2013)

Stakeholders: Plumbing engineers, designers, plumbers, builders/developers, local government, end users.

Project Need: The purpose of this standard is to assist engineers, designers, plumbers, builders/developers, local government, and end-users in safely implementing a rainwater catchment system.

The scope of this standard covers requirements for the design and installation of rainwater catchment systems that utilize the principle of collecting and using precipitation from a rooftop and other hard, impervious building surfaces. This standard does not apply to the collection of rainwater from vehicular parking or other similar surfaces.

BSR/WQA/ASPE S-803-201x, Sustainable Drinking Water Treatment Systems (revision of ANSI/WQA/ASPE S-803-2017)

Stakeholders: Water Treatment System manufacturers.

Project Need: This standard provides much -needed, meaningful product sustainability performance information to consumers and stakeholders to drive innovation and continual improvement in the sustainability performance of drinking-water treatment systems.

This product certification standard applies to products that treat or otherwise produce water for human consumption (e.g., drinking and/or food/beverage preparation) or recreation, but excludes products that treat wastewater. It includes performance criteria for systems using activated carbon, UV, ion - exchange resins, softeners, and dispensers, and it is being revised to include reverse osmosis/membrane product types.

ASTM (ASTM International)

Contact: Laura Klineburger, (610) 832-9696, accreditation@astm.org
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

BSR/ASTM WK64118-201x, New Practice for Extension of Data from NFPA 285 for Fire Testing of Exterior Assemblies (new standard)

Stakeholders: Fire Safety Engineering industry.

Project Need: Engineering judgments of extensions of data are being conducted based on limited testing to NFPA 285 and used to approve untested systems. This needs to be done in a standardized fashion.

Extension of data for fire safety of exterior wall assembly systems not tested.

BSR/ASTM WK64154-201x, New Practice for Specimen Preparation and Mounting for Fire-Retardant-Treated Wood (new standard)

Stakeholders: Surface Burning industry.

Project Need: Specimen preparation and mounting for fire-retardant-treated wood.

Specimen preparation and mounting for fire-retardant-treated wood.

AWS (American Welding Society)

Contact: Jennifer Rosario, (800) 443-9353, jrosario@aws.org
8669 NW 36th Street, Suite #130, Miami, FL 33166-6672

BSR/AWS-NAVSEA B2.1-1-303-201X, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2 and MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (new standard)

Stakeholders: Navy, manufacturers, shipyards, welders, engineers, and CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas-tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-1-313-201X, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2 and MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (new standard)

Stakeholders: Navy, manufacturers, shipyards, welders, engineers, and CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas-tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-8-310-201X, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX and MIL-3XX-XX, in the As-Welded Condition, Primarily Plate and Structural Naval Applications (new standard)

Stakeholders: Navy, manufacturers, shipyards, welders, engineers, and CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas-tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

BSR/AWS-NAVSEA B2.1-8-320-201X, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (S-8), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-3XX and MIL-3XX-XX, in the As-Welded Condition, Primarily Pipe for Naval Applications (new standard)

Stakeholders: Navy, manufacturers, shipyards, welders, engineers, and CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas-tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

CTA (Consumer Technology Association)

Contact: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech
1919 South Eads Street, Arlington, VA 22202

* ANSI/CEA 849-B-2008 (R2013), Application Profiles for CEA-775 Compliant DTVs (withdrawal of ANSI/CEA 849-B-2008 (R2013))

Stakeholders: Consumer, manufacturers, retailers.

Project Need: Withdraw of ANSI/CTA 849-B-R-2013.

This standard defines transport and content coding formats a compliant DTV shall support in order to inter-operate with various digital audio and video sources. A DTV compliant with this standard shall also comply with the requirements of CEA-775-C.

FCI (Fluid Controls Institute)

Contact: Leslie Schraff, (216) 241-7333, fci@fluidcontrolsinstitute.org
1300 Sumner Avenue, Cleveland, OH 44115

BSR/FCI 18-1-201x, Standard for Testing and Rating Strainers (new standard)

Stakeholders: Manufacturers, users, and specifiers of strainers.

Project Need: The industry needs a standard to provide uniform test procedures to determine the performance of strainers, in particular, the flow versus pressure-loss characteristics and the flow coefficient.

The purpose of the standard is to provide uniform test procedures to determine the performance of strainers, in particular, the flow versus pressure loss characteristics and the flow coefficient.

IEST (Institute of Environmental Sciences and Technology)

Contact: Jennifer Sklena, (847) 981-0100, jsklena@iest.org
1827 Walden Office Square, Suite 400, Schaumburg, IL 60173

BSR/IEST/ISO 14644-12-201x, Cleanrooms and associated controlled environments - Part 12: Specifications for monitoring air cleanliness by nanoscale particle concentration (identical national adoption of ISO 14644-12:2018)

Stakeholders: Anyone involved in the cleanroom industry including equipment manufacturers and users.

Project Need: Nanoparticles or ultrafine particles differ from sub-micron and macro-particles in origin, chemical properties and transport behavior. Most sub-micron and macro particles in cleanrooms can be related to human activity. Nanoparticles are generated by electrostatic discharge, chemical reactions, such as oxidation, and gas phase nucleation. Material properties of nanoparticles are expected to differ from bulk properties with potentially greater reactivity and sometimes enhanced toxicity. Transport of nanoparticles is dominated by air flow, just like sub-micron particles. However, diffusion of nanoparticles and mobility in electrical fields increases rapidly with decreasing size. As a consequence, nanoparticles have higher coagulation rates in the air, and deposition rates on surfaces are higher than larger sized particles. Therefore, it is not expected that the classification curves as described in ISO 14644-1 can be simply extrapolated to smaller particles than the stated lower limit.

This document covers the monitoring of air cleanliness by particles in terms of concentration of airborne nanoscale particles. For monitoring purposes, only populations of particles with a lower size limit of 0.1 microns (100 nm) or less – “nanoscale” – are considered. The monitoring given in this document is for use mainly in “operational” states within cleanrooms and controlled environments.

ISA (International Society of Automation)

Contact: Eliana Brazda, (919) 990-9228, ebrazda@isa.org
67 Alexander Drive, Research Triangle Park, NC 27709

BSR/ISA 67.01.01-201x, Transducer and Transmitter Installation for Nuclear Safety Applications (new standard)

Stakeholders: Nuclear power plant personnel, equipment manufacturers, regulatory bodies.

Project Need: To establish requirements and recommendations for the installation of transducers and auxiliary equipment for nuclear applications outside of the main reactor vessel.

This document covers the installation of transducers for nuclear safety-related applications.

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

Contact: Lynn Barra, (202) 737-8888, comments@standards.incits.org
1101 K Street NW, Suite 610, Washington, DC 20005-3922

INCITS 559-201x, Information technology - Fibre Channel - Physical Interfaces - 7P (FC-PI-7P) (new standard)

Stakeholders: ICT industry.

Project Need: The FC-PI-7P project will define the requirements for new physical layer variants that operate at higher data rates than those specified in FC-PI-6P. The FC-PI-7P project will consider all aspects of transmit, receive, and cable-plant performance requirements for optical and electrical links. The standard will enable interoperability of transmitter devices, receiver devices, interconnects, and components among different manufacturers.

The project involves a compatible evolution of the present Fibre Channel physical layer. Such evolutionary improvements may include, increase in the data rate of optical and electrical links in:
- Backplanes;
- Horizontal and vertical wiring;
- Inter- and intra-building connections; and
- Server room channels.

It is desirable to enable the reuse of legacy optical and electrical cable plants.

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org
140 Philips Rd, Exton, PA 19341

BSR/SCTE DVS 1327-201x, Real-time Event Signaling and Management API (new standard)

Stakeholders: Cable Telecommunications industry.

Project Need: Create new standard.

This standard defines an interface that will allow a Signal Acquisition System (e.g., encoder, transcoder, packager, stream switcher, etc.) to submit signals to a Signal Decision System and receive relevant instructions for processing the signal or associated content. Furthermore, the Signal Decision System has the ability to initiate a set of instructions based on a schedule or event that is not signaled in the content.

TIA (Telecommunications Industry Association)

Contact: Teesha Jenkins, (703) 907-7706, standards@tiaonline.org
1320 North Courthouse Road, Suite 200, Arlington, VA 22201

BSR/TIA 102.AAAB-B-201x, Security Services Overview (new standard)

Stakeholders: The document will identify security solutions for owners and users of land mobile radio systems, particularly those for public safety and government.

Project Need: Create new standard.

This document presents security services that were recommended by TIA to APCO/NASTD/FED as being suitable for use as part of their standard for a digital public safety radio system. This project will support the 5-year revision cycle for the document.

BSR/TIA 102.BAED-A-201x, Packet Data Logical Link Control Procedures (revision and redesignation of ANSI/TIA 102.BAED-2013)

Stakeholders: APCO Project 25, Private Land Mobile Radio users and manufacturers.

Project Need: Update standard.

This document specifies the Logical Link Control (LLC) procedures that permit the conveyance of Common Air Interface (CAI) data packets between air interface endpoints for all packet data configurations. The information necessary to enable interoperable LLC procedures for Packet Data is provided in this document or referenced in other documents as appropriate. The purpose of this revision is to address errata comments on the current published document.

BSR/TIA 102.BAEF-A-201x, Packet Data Host Network Interface (revision and redesignation of ANSI/TIA 102.BAEF-2013)

Stakeholders: APCO Project 25, Private Land Mobile Radio users and manufacturers.

Project Need: Update standard.

This document specifies the protocols utilized on the Packet Data Host Network Interface which is designated as the Ed Interface in the TIA-102 Open System Interface Model. The information necessary to enable interoperable services and functionality on this interface is provided in this document or referenced in other documents as appropriate. The purpose of this revision is to address errata comments on the current published document.

American National Standards Maintained Under Continuous Maintenance

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

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

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

- **AAMI (Association for the Advancement of Medical Instrumentation)**
- **AARST (American Association of Radon Scientists and Technologists)**
- **AGA (American Gas Association)**
- **AGSC-AGRSS (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)**
- **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, Inc.)**

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at psa@ansi.org or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

ANSI-Accredited Standards Developers Contact Information

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment 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 Standards Action Editor at standact@ansi.org.

AAMI
Association for the Advancement of Medical Instrumentation
4301 N. Fairfax Dr., Suite 301
Arlington, VA 22203
Phone: (703) 253-8284
Web: www.aami.org

ABYC
American Boat and Yacht Council
613 Third Street
Suite 10
Annapolis, MD 21403
Phone: (410) 990-4460 ext. 115
Web: www.abycinc.org

AISC
American Institute of Steel Construction
130 E. Randolph Street
Suite 2000
Chicago, IL 60601-6204
Phone: (312) 670-5410
Web: www.aisc.org

ANS
American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526
Phone: (708) 579-8268
Web: www.ans.org

APCO
Association of Public-Safety Communications Officials-International
351 N. Williamson Boulevard
Daytona Beach, FL 32114
Phone: (920) 579-1153
Web: www.apcoIntl.org

APTech (ASC CGATS)
Association for Print Technologies
1899 Preston White Drive
Reston, VA 20191
Phone: (703) 264-7200
Web: www.printtechnologies.org

ASA (ASC S12)
Acoustical Society of America
1305 Walt Whitman Rd
Suite 300
Melville, NY 11747
Phone: (631) 390-0215
Web: www.acousticalsociety.org

ASABE
American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7027
Web: www.asabe.org

ASHRAE
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
1791 Tullie Circle NE
Atlanta, GA 30329
Phone: (404) 636-8400
Web: www.ashrae.org

ASME
American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016-5990
Phone: (212) 591-8521
Web: www.asme.org

ASNT
American Society for Nondestructive Testing
1711 Arlingate Lane
P.O. Box 28518
Columbus, OH 43228-0518
Phone: (800) 222-2768 ext 241
Web: www.asnt.org

ASPE
American Society of Plumbing Engineers
6400 Shafer Court
Suite 350
Rosemont, IL 60018
Phone: (847) 296-0002
Web: www.aspe.org

ASSP (Safety)
American Society of Safety Professionals
520 N. Northwest Highway
Park Ridge, IL 60068
Phone: (847) 232-2012
Web: www.asse.org

ASTM
ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9696
Web: www.astm.org

ATIS
Alliance for Telecommunications Industry Solutions
1200 G Street NW
Suite 500
Washington, DC 20005
Phone: (202) 662-8654
Web: www.atis.org

AWS
American Welding Society
8669 NW 36th Street
Suite #130
Miami, FL 33166-6672
Phone: (800) 443-9353
Web: www.aws.org

CAGI
Compressed Air and Gas Institute
1300 Sumner Avenue
Cleveland, OH 44115
Phone: (216) 241-7333
Web: www.cagi.orgwelcome.htm

CTA
Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Web: www.cta.tech

EOS/ESD
ESD Association, Inc.
7900 Turin Rd., Bldg. 3
Rome, NY 13440
Phone: (315) 339-6937
Web: www.esda.org

FCI
Fluid Controls Institute
1300 Sumner Avenue
Cleveland, OH 44115
Phone: (216) 241-7333
Web: www.fluidcontrolsinstitute.org

FM
FM Approvals
1151 Boston-Providence Turnpike
Norwood, MA 02062
Phone: (781) 255-4813
Web: www.fmglobal.com

HI
Hydraulic Institute
6 Campus Drive
Parsippany, NJ 07054
Phone: (973) 267-9700 EXT 115
Web: www.pumps.org

HL7
Health Level Seven
3300 Washtenaw Avenue
Suite 227
Ann Arbor, MI 48104
Phone: (734) 677-7777
Web: www.hl7.org

IEEE
Institute of Electrical and Electronics Engineers
445 Hoes Lane
Piscataway, NJ 08854
Phone: (732) 562-3854
Web: www.ieee.org

IEST
Institute of Environmental Sciences and Technology
1827 Walden Office Square
Suite 400
Schaumburg, IL 60173
Phone: (847) 981-0100
Web: www.iest.org

IIAR
International Institute of Ammonia Refrigeration
1001 North Fairfax Street
Alexandria, VA 22314
Phone: (703) 312-4200
Web: www.iiar.org

ISA (Organization)
International Society of Automation
67 Alexander Drive
Research Triangle Park, NC 27709
Phone: (919) 990-9228
Web: www.isa.org

ISEA
International Safety Equipment Association
1901 North Moore Street
Suite 808
Arlington, VA 22209
Phone: (703) 525-1695
Web: www.safetyequipment.org

ITI (INCITS)
InterNational Committee for Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 737-8888
Web: www.incits.org

MTConnect
MTConnect Institute
7901 Jones Branch Drive
Suite 900
McLean, VA 22102
Phone: (703) 827-5274
Web: www.amtonline.org

NAAMM
National Association of Architectural Metal Manufacturers
123 College Place
#1101
Norfolk, VA 23510
Phone: (757) 489-0787
Web: www.naamm.org

NACF
North American Crossbow Federation
1325 Waterloo Road
Suffield, OH 44260
Phone: (313) 268-1727
Web: www.northamericancrossbowfederation.com

NASBLA
National Association of State Boating Law Administrators
1648 McGrathiana Parkway
Suite 360
Lexington, KY 40511
Phone: (859) 225-9487
Web: www.nasbla.org

NECA
National Electrical Contractors Association
3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814
Phone: (301) 215-4549
Web: www.neca-neis.org

NEMA (ASC C12)
National Electrical Manufacturers Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3227
Web: www.nema.org

NEMA (ASC C8)
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3278
Web: www.nema.org

NENA
National Emergency Number Association
1700 Diagonal Road
Suite 500
Alexandria, VA 22314
Phone: (202) 618-4405
Web: www.nena.org

NFPA
National Fire Protection Association
One Batterymarch Park
Quincy, MA 02169
Phone: (617) 984-7246
Web: www.nfpa.org

NFRC
National Fenestration Rating Council
6305 Ivy Lane
Suite 140
Greenbelt, MD 20770
Phone: (240) 821-9513
Web: www.nfrc.org

NSF
NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 827-5643
Web: www.nsf.org

RESNA
Rehabilitation Engineering and Assistive Technology Society of North America
1560 Wilson Blvd.
Suite 850
Arlington, VA 22209-1903
Phone: (703) 524-6686
Web: www.resna.org

SCTE
Society of Cable Telecommunications Engineers
140 Philips Rd
Exton, PA 19341
Phone: (800) 542-5040
Web: www.scte.org

TIA
Telecommunications Industry Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Web: www.tiaonline.org

UL
Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096
Phone: (847) 664-3416
Web: www.ul.com

IEC Draft International Standards

This section lists proposed standards that the International Electrotechnical Commission (IEC) 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 IEC members for comment and vote. Standards Action readers interested in reviewing and commenting on these documents should order copies from ANSI.

Comments

Comments regarding IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

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

JTC1-SC41/53/CD, ISO/IEC 21823-2 ED1: Internet of Things (IoT) - Interoperability for IoT Systems - Part 2: Transport interoperability, 2018/9/28

17C/685/NP, PNW 17C-685: Compact Equipment Assemblies for Sub-transmission Substation; CEASTS; (High Voltage/Medium Voltage, 52 kV - 145 kV) Insulation Medium: Synthetic Oil, or Low Pressure GIS - using Polymeric Insulation, 2018/9/28

23H/416/CD, IEC 62196-1 ED4: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements, 2018/8/31

23H/417/CD, IEC 62196-3/AMD1 ED1: Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers, 2018/8/31

32C/548/FDIS, IEC 60691/AMD1 ED4: Thermal-links - Requirements and application guide, 2018/8/17

34D/1393/CD, IEC 60598-2-22/AMD2/FRAG4 ED4: Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting, 2018/9/28

34D/1394/CD, IEC 60598-2-22/AMD2/FRAG5 ED4: Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting, 2018/9/28

45A/1214/FDIS, IEC 60964 ED3: Nuclear power plants - Control rooms - Design, 2018/8/17

46C/1103/FDIS, IEC 62783-2 ED1: Twinax cables for digital communications - Part 2: Family specification - Cable for Ethernet-over-twinax physical interfaces, 2018/8/17

59M/100/CD, IEC 63169 ED1: Electrical household and similar cooling and freezing appliances - Food preservation and storage, 2018/8/31

61B/613/CDV, IEC 60335-2-110/AMD1/FRAG1 ED1: Amendment 1 (f1): Household and similar electrical appliances - Safety - Part 2 -110: Particular requirements for commercial microwave appliances with insertion or contacting applicators, 2018/9/28

61B/614/CDV, IEC 60335-2-110/AMD1/FRAG2 ED1: Amendment 1 (f2): Household and similar electrical appliances - Safety - Part 2 -110: Particular requirements for commercial microwave appliances with insertion or contacting applicators, 2018/9/28

61B/615/CDV, IEC 60335-2-25/FRAG6 ED7: Household and similar electrical appliances - Safety - Part 2-25 (f6): Particular requirements for microwave ovens, including combination microwave ovens, 2018/9/28

61B/616/CDV, IEC 60335-2-90/AMD1/FRAG5 ED4: Amendment 1 (f5) - Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, 2018/9/28

61B/617/CDV, IEC 60335-2-90/AMD1/FRAG4 ED4: Amendment 1 (f4) - Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, 2018/9/28

61B/618/CDV, IEC 60335-2-90/AMD1/FRAG1 ED4: Amendment 1 (f1) - Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, 2018/9/28

61B/619/CDV, IEC 60335-2-90/AMD1/FRAG3 ED4: Amendment 1 (f3) - Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens, 2018/9/28

62C/724/CDV, IEC 60580 ED3: Medical electrical equipment - Dose area product meters, 2018/9/28

65C/928/FDIS, IEC 61918 ED4: Industrial communication networks - Installation of communication networks in industrial premises, 2018/8/17

86C/1536/CD, IEC TR 61282-14 ED2: Fibre optic communication system design guides - Part 14: Determination of the uncertainties of attenuation measurements in fibre plants, 2018/9/28

86A/1878/CD, IEC 60794-2-50 ED2: Optical fibre cables - Part 2-50: Indoor optical fibre cables - Family specification for simplex and duplex cables for use in terminated cable assemblies, 2018/9/28

86A/1881/CD, IEC 60793-2 ED9: Optical fibres - Part 2: Product specifications - General, 2018/9/28

121B/71/CD, IEC 61439-1 ED3: Low-voltage switchgear and controlgear assemblies - Part 1: General rules, 2018/9/28

121B/72/CD, IEC TS 63107 ED1: Integration of arcing fault mitigation devices into power switchgear and controlgear assemblies (PSC-ASSEMBLIES) according to IEC 61439-2, 2018/9/28

121A/226/CDV, IEC 62026-2/AMD1 ED2: Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 2: Actuator sensor interface (AS-i), 2018/9/28

121A/236/CD, IEC TS 60947-7-5 ED1: Low-voltage switchgear and controlgear - Part 7-5: Ancillary equipment - Terminal blocks for aluminium conductors, 2018/9/28

4/351/FDIS, IEC 62364 ED2: Hydraulic machines - Guidelines for dealing with hydro-abrasive erosion in Kaplan, Francis and Pelton turbines, 2018/8/17

4/352/CD, IEC TS 62882 ED1: Hydraulic machines - Technical specification for francis turbine pressure fluctuation transposition, 2018/8/31

1/2363/FDIS, IEC 60050-171 ED1: International electrotechnical vocabulary - Part 171: Digital technology - Fundamental concepts, 2018/8/17

15/839/CDV, IEC 60674-2/AMD1 ED2: Specification for plastic films for electrical purposes - Part 2: Methods of test, 2018/9/28

15/840/CDV, IEC 60674-3-2 ED2: Specification for plastic films for electrical purposes - Part 3: Specifications for individual materials - Sheet 2: Requirements for balanced biaxially oriented polyethylene terephthalate (PET) films used for electrical insulation, 2018/9/28

22/294/CD, IEC 62477-1 ED2: Safety requirements for power electronic converter systems and equipment - Part 1: General, 2018/9/28

44/831/FDIS, IEC 61496-3 ED3: Safety of machinery - Electro-sensitive protective equipment - Part 3: Particular requirements for active opto-electronic protective devices responsive to diffuse Reflection (AOPDDR), 2018/8/17

44/832/CD, IEC 61496-1/AMD1 ED3: Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests, 2018/8/31

44/833/CD, IEC 61496-2/AMD1 ED3: Safety of machinery - Electro-sensitive protective equipment - Part 2: Particular requirements for equipment using active opto-electronic protective devices (AOPDs), 2018/8/31

69/612/CD, IEC 63110-1 ED1: Protocol for Management of Electric Vehicles charging and discharging infrastructures - Part 1: Basic Definitions, Use Cases and architectures, 2018/9/28

90/412/NP, PNW 90-412: Superconducting (nano)strip photon detector - Dark count rate, 2018/9/28

9/2431/FDIS, IEC 62888-6 ED1: Railway applications - Energy measurement on board trains - Part 6: Requirements for purposes other than billing, 2018/8/17

97/192/CDV, IEC 61820-1 ED1: Electrical installations for aeronautical ground lighting at aerodromes - Part 1: Fundamental principles, 2018/9/28

101/568/FDIS, ISO 20615 ED1: Fibre ropes - Electrostatic surface potential measuring method, 2018/8/17

111/484/CDV, IEC 62959 ED1: Environmentally Conscious Design (ECD) - Principles, requirements and guidance, 2018/9/28

119/224/CDV, IEC 62899-204 ED1: Printed electronics - Part 204: Materials - Insulator ink, 2018/9/28

18/1617/FDIS, IEC 60092-101 ED5: Electrical installations in ships - Part 101: Definitions and general requirements, 2018/8/17

40/2621/FDIS, IEC 61051-1 ED3: Varistors for use in electronic equipment - Part 1: Generic specification, 2018/8/17

47/2488/CDV, IEC 60749-20-1 ED2: Semiconductor devices - Mechanical and climatic test methods - Part 20-1: Handling, packing, labelling and shipping of surface-mount devices sensitive to the combined effect of moisture and soldering heat, 2018/9/28

56/1786/CD, IEC 61123 ED2: Reliability testing - Compliance test plans for success ratio, 2018/9/28

57/2014/DC, Draft IEC TR 61850-90-16: Communication networks and systems for power utility automation - Part 90-16: Requirements for system management for IEC 61850, 2018/9/28

57/2017/CD, IEC 62351-8 ED1: Power systems management and associated information exchange - Data and communications security - Part 8: Role-based access control, 2018/9/28

64/2302/CD, IEC 60364-5-57 ED1: Low-voltage electrical installations - Part 5: Selection and erection of electrical equipment - Clause 57: Erection of stationary secondary batteries, /2018/10/2

82/1434/CDV, IEC 62790/AMD1 ED1: Amendment 1 - Junction boxes for photovoltaic modules - Safety requirements and tests, 2018/9/28

100/3107/CDV, IEC 63034 ED1: Microspeakers (TC 100), 2018/9/28

100/3132/NP, PNW 100-3132: In-Building Optical systems for broadcast signal transmissions, 018/8/3/

CIS/I/586/CDV, Amendment 1 - CISPR 32: Electromagnetic compatibility of multimedia equipment - Emission requirements - Fragment 3, 2018/9/28

CIS/I/585/CDV, Amendment 1 - CISPR 32: Electromagnetic compatibility of multimedia equipment - Emission requirements - Fragment 2, 2018/9/28

CIS/I/584/CDV, Amendment 1 - CISPR 32: Electromagnetic compatibility of multimedia equipment - Emission requirements - Fragment 1, 2018/9/28

Newly Published ISO & IEC Standards

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 6888-1/Amd2:2018, Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of coagulase-positive staphylococci (Staphylococcus aureus and other species) - Part 1: Technique using Baird-Parker agar medium - Amendment 2: Inclusion of an alternative confirmation test using RPFA stab method, $19.00

ISO 20635:2018, Infant formula and adult nutritionals - Determination of vitamin C by (ultra) high performance liquid chromatography with ultraviolet detection ((U)HPLC-UV), $103.00

ISO 20636:2018, Infant formula and adult nutritionals - Determination of vitamin D by liquid chromatography-mass spectrometry, $138.00

GAS CYLINDERS (TC 58)

ISO 13769:2018, Gas cylinders - Stamp marking, $138.00

HEALTH INFORMATICS (TC 215)

ISO 11238:2018, Health informatics - Identification of medicinal products - Data elements and structures for the unique identification and exchange of regulated information on substances, $209.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO 15384:2018, Protective clothing for firefighters - Laboratory test methods and performance requirements for wildland firefighting clothing, $103.00

PLASTICS (TC 61)

ISO 4586-1:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 1: Introduction and general information, $68.00

ISO 4586-2:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 2: Determination of properties, $232.00

ISO 4586-3:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates, $103.00

ISO 4586-4:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater, $68.00

ISO 4586-5:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates, $68.00

ISO 4586-6:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 6: Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater, $68.00

ISO 4586-7:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 7: Classification and specifications for design laminates, $138.00

ISO 4586-8:2018, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (usually called laminates) - Part 8: Classification and specifications for alternative core laminates, $103.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO 23048:2018, Ships and marine technology - Verification method for portable power measurement using a strain gauge, $103.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

ISO 37106:2018, Sustainable cities and communities - Guidance on establishing smart city operating models for sustainable communities, $185.00

ISO 37120:2018, Sustainable cities and communities - Indicators for city services and quality of life, $232.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO 9518:2018, Forestry machinery - Portable chain-saws - Kickback test, $209.00

TYRES, RIMS AND VALVES (TC 31)

ISO 28580:2018, Passenger car, truck and bus tyre rolling resistance measurement method - Single point test and correlation of measurement results, $162.00

WATER QUALITY (TC 147)

ISO 13169:2018, Water quality - Uranium - Test method using alpha liquid scintillation counting, $103.00

ISO Technical Reports

INFORMATION AND DOCUMENTATION (TC 46)

ISO/TR 19815:2018, Information and documentation - Management of the environmental conditions for archive and library collections, $209.00

ISO Technical Specifications

HEALTH INFORMATICS (TC 215)

ISO/TS 19844:2018, Health informatics - Identification of medicinal products (IDMP) - Implementation guidelines for ISO 11238 for data elements and structures for the unique identification and exchange of regulated information on substances, $232.00

ROAD VEHICLES (TC 22)

ISO/TS 15830-5:2018, Road vehicles - Design and performance specifications for the WorldSID 50th percentile male side-impact dummy - Part 5: Dummy design updates, $103.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/TS 22638:2018, Rubber - Generation and collection of tyre and road wear particles (TRWP) - Road simulator laboratory method, $68.00

SOIL QUALITY (TC 190)

ISO/TS 20131-1:2018, Soil quality - Easy laboratory assessments of soil denitrification, a process source of N2O emissions - Part 1: Soil denitrifying enzymes activities, $68.00

ISO/TS 20131-2:2018, Soil quality - Easy laboratory assessments of soil denitrification, a process source of N2O emissions - Part 2: Assessment of the capacity of soils to reduce N2O, $103.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 9899:2018, Information technology - Programming languages - C, $232.00

ISO/IEC 15693-1:2018, Cards and security devices for personal identification - Contactless vicinity objects - Part 1: Physical characteristics, $45.00

IEC Standards

ELECTRICAL ACCESSORIES (TC 23)

IEC 60884-2-5 Ed. 2.0 b:2017, Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors, $281.00

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC 60598-2-4 Ed. 3.0 b:2017, Luminaires - Part 2-4: Particular requirements - Portable general purpose luminaires, $47.00

OTHER

MISC ACEE 01 Ed. 1.0 en:2018, IEC Advisory Committee on energy efficiency (ACEE) - Introduction to ACEE work, $0.00

MISC ACEE 02 Ed. 1.0 en:2018, IEC Advisory Committee on energy efficiency (ACEE) - Case study: electric motors, $0.00

POWER CAPACITORS (TC 33)

IEC 60358-4 Ed. 1.0 b:2018, Coupling capacitors and capacitor dividers - Part 4: DC and AC single-phase capacitor dividers, $82.00

IEC Technical Specifications

PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)

IEC/TS 62885-1 Ed. 2.0 en:2018, Surface cleaning appliances - Part 1: General requirements on test material and test equipment, $47.00

Registration of Organization Names in the United States

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

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. 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

South Carolina Law Enforcement Division (SLED)

Public Review: April 27 to July 23, 2018

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

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge.

A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, 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; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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 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 a materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

PINS Correction

Project Need Information for BSR NEMA ASC C136-201x

Due to a technical error, the Project Need information for BSR NEMA ASC C136-201x was cut off in PINS listing that appeared in the July 6, 2018 issue of Standards Action. The complete Project Need information is as follows:

Technologies and standards are evolving rapidly in the dynamic smart city environment. Luminaires are uniquely identified and seamlessly integrated into the IT network in a building or city and share information about their status and operations. Outfitted with integrated sensors, each luminaire becomes a point of intelligence that can share information from street lights to power meters to traffic signals, on activity patterns, changes in temperature or humidity and beyond. The lighting industry is currently undergoing a paradigm shift from conventional lighting to LED Connected Lighting Systems. By describing a connectivity fit system for smart outdoor luminaires, Book 18 marks ZHAGA's first contribution to the rapidly emerging world of smart lighting. Side-by-side with ZHAGA, NEMA (ASC C136) is paving the way for large-scale penetration of connectivity into outdoor lighting installations by developing a new C136 series standard on connectivity fit systems. While ZHAGA Book 18 defines a standardized interface between an outdoor LED luminaire and a sensing/communication module that sits on the outside of the luminaire, NEMA (ASC C136) is dedicated to integrating the interface set in Book 18 with streamlined design and manufacture of versatile connector for outdoor luminaires which includes a socketed receptacle (LEX-R) that allows a compatible sensing/communication module (LEX-M) to be easily removed and replaced. This further allows the luminaire to be upgraded easily via the addition of new smart capabilities to the module. While the work on this project has already started within C136.54, there is an urgent need to initiate a new PINS for this project to enable timely publication of ANSI requirements (to complement publication of ZHAGA Book 18), since the revision of C136.54 is seriously delaying. This would also help with progress of C136.54.

ANSI Accredited Standards Developers

Application for Accreditation

National Operating Committee on Standards for Athletic Equipment (NOCSAE)

Comment Deadline: August 13, 2018

The National Operating Committee on Standards for Athletic Equipment (NOCSAE), an ANSI member, has submitted updated, further revised procedures for documenting consensus on NOCSAE-sponsored American National Standards for review in association with an application for accreditation as an ANSI Accredited Standards Developer (ASD) currently in process.

To obtain a copy of NOCSAE's updated proposed operating procedures or to offer comments, please contact: Mr. Michael Oliver, Executive Director and General Counsel, NOCSAE, 11020 King Street, Suite 215, Overland Park, KS 66210; phone: 913.888.1340; e-mail: mike.oliver@nocsae.org. Please submit any comments to NOCSAE by August 13, 2018, 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. You may view or download a copy of NOCSAE's proposed operating procedures from ANSI Online during the public review period at the following URL: www.ansi.org/accredPR.

Approval of Reaccreditation

AAMI – The Association for the Advancement of Medical Instrumentation

The reaccreditation of AAMI – The Association for the Advancement of Medical Instrumentation, an ANSI member and Accredited Standards Developer (ASD), has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on AAMI-sponsored American National Standards, effective July 10, 2018. For additional information, please contact: Ms. Jennifer Moyer, MA, Director, Standards, AAMI, 4301 N. Fairfax Drive, Suite 301, Arlington, VA 22203-1633; phone: 703.253.8274; e-mail: JMoyer@aami.org.

Health Level Seven (HL7)

ANSI's Executive Standards Council has approved the reaccreditation of Health Level Seven (HL7), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on HL7-sponsored American National Standards, effective July 10, 2018. For additional information, please contact: Ms. Karen Van Hentenryck, Associate Executive Director, Health Level Seven, 3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104; phone: 734.677.7777; e-mail: karenvan@hl7.org.

International Organization for Standardization (ISO)

Establishment of ISO Technical Committee

ISO/TC 319 – Karst

A new ISO Technical Committee, ISO/TC 319 – Karst, has been formed. The Secretariat has been assigned to China (SAC).

ISO/TC 319 operates under the following scope:

> Standardization in the field of karst terminology, sustainable development of karst resources, environmental protection and management of karst environment, as well as investigation and assessment (including modeling methods and mapping of karst systems).

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

ISO Proposal for a New Field of ISO Technical Activity

Circular Economy

Comment Deadline: August 10, 2018

AFNOR, the ISO member body for France, has submitted to ISO an ISO Proposal for a New Field of ISO Technical Activity on Circular Economy, with the following scope statement:

> Standardization in the field of Circular economy to develop requirements, frameworks, guidance and supporting tools related to the implementation of circular economy projects.
>
> The proposed deliverables will apply to any organization or group of organizations wishing to implement circular economy projects, such as commercial organizations, public services and not-for-profit organizations.
>
> Excluded: specification of particular aspects of circular economy already covered by existing TCs, such as ecodesign, life cycle assessment in ISO/TC 207 Environmental management and sustainable procurement (ISO 20400: 2017 – Sustainable procurement — Guidance).
>
> Note: The TC will contribute to sustainable development and especially to the implementation of the UN Sustainable Development Goals.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, August 10, 2018.

U.S. Technical Advisory Groups

Application for Accreditation and Approval of TAG Administrator

U.S. TAG to ISO PC 317 – Consumer Protection: Privacy by Design for Consumer Goods and Services

Comment Deadline: August 13, 2018

In accordance with clause 2.4 of the ANSI International Procedures, the American National Standards Institute (with funding support from OASIS) has submitted an application for accreditation for a proposed U.S. Technical Advisory Group (TAG) to ISO PC 317, Consumer protection: Privacy by design for consumer goods and services and a request for approval as TAG Administrator. The proposed TAG will operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. To obtain a copy of the TAG application or to offer comments, please contact:Ms. Rachel Hawthorne, Senior Manager of ISO Outreach and Enhanced Services, ANSI, 25 West 43rd Street, 4th Floor, New York, NY 10036; phone: 212.642.4938; e-mail: rhawthorne@ansi.org (please copy jthompso@ansi.org). Please submit your comments by August 13, 2018.

BSR/ASHRAE Addendum ad
to ANSI/ASHRAE Standard 62.1-2016

Public Review Draft

Proposed Addendum ad to Standard 62.1-2016, Ventilation for Acceptable Indoor Air Quality

First Public Review (June 2018)
(Draft shows Proposed Changes to Current Standard)

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

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

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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

FOREWORD

Table 6.5 (Minimum Exhaust Rates) lists minimum exhaust rates for certain spaces in which contaminants generation have been deemed high enough that it contaminant cannot be diluted and thus need to be exhausted. However, the standard does not require these spaces to be at any pressure. This proposed addendum adds the requirement for these spaces to be at a negative pressure with respect to adjacent spaces in order to minimize contaminants leakage to adjacent spaces.

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

Addendum ad to 62.1-2016

Revise Section 6.5.1 as shown below. Note that Section 6.5.1.1 (not shown) and Table 6.5.1 (formerly Table 6.5) are added by proposed Addendum x to 62.1-2016.

6.5 Exhaust Ventilation. The Prescriptive Compliance Path or the Performance Compliance Path shall be used to meet the requirements of this section. Exhaust makeup air shall be permitted to be any combination of outdoor air, recirculated air, or transfer air.

6.5.1 Prescriptive Compliance Path. The design exhaust airflow shall be determined in accordance with the requirements in Table 6.5.1.

[…]

6.5.1.2 Pressure Requirements. While the required exhaust systems are operating, the zones listed in Table 6.5.1 shall be maintained at a negative air pressure with respect to adjacent zones that are not listed in Table 6.5.1.

While the required exhaust systems are operating, the zones listed in Table 6.5.1 shall be maintained at a negative air pressure with respect to adjacent zones that are listed in Table 6.5.1, with the zones having the higher number class of air being more negative.

Exception: unless determined otherwise by the Environmental Health and Safety professional responsible to the owner or to the owner's designee.

Informative Note: Where intermittent operation is allowed in Table 6.5.1, exhaust equipment is intended to be operated when the space is in use.

BSR/ASHRAE Addendum x
to ANSI/ASHRAE Standard 62.1-2016

Public Review Draft

Proposed Addendum x to Standard 62.1-2016, Ventilation for Acceptable Indoor Air Quality

First Public Review (June 2018)
(Draft shows Proposed Changes to Current Standard)

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

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

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHARE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

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

FOREWORD

The exhaust procedure in Standard 62.1-2016 contains requirements in notes. This proposed addendum relocates those requirements to the body of the standard. The performance compliance path is modified to be consistent with the proposed changes to the IAQP in Addendum aa to 62.1-2016. Table 6.5.2 is added as relocated from Section 5.

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

Addendum x to 62.1-2016

Modify Section 6.5 as shown below. Note that Tables 6.3.2.1 and 6.3.2.2 (not shown) are added by proposed Addendum aa to 62.1-2016.

6.5 Exhaust Ventilation. The Prescriptive Compliance Path or the Performance Compliance Path shall be used to meet the requirements of this section. Exhaust makeup air shall be permitted to be any combination of outdoor air, recirculated air, or transfer air.

6.5.1 Prescriptive Compliance Path. The design exhaust airflow shall be determined in accordance with the requirements in Tables 6.5.1 and 6.5.2.

Exceptions:

1. Laboratory spaces that comply with all requirements of ANSI Z9.5[6].
2. Parking garages where two or more sides comprise walls that are at least 50% open to the outside.
3. Exhaust air from toilets that has been cleaned to meet Class 1 criteria per Section 5.16.1 shall be permitted to be recirculated.

6.5.1.1 Source Strengths. The minimum exhaust rates are based on contaminant sources and source strengths that are typical for the listed occupancy categories. For sources that are not typical of the occupancy, the additional exhaust required must be calculated using Section 6.5.2 performance compliance path.

6.5.1.1.1 Combustion Equipment. Combustion equipment is not typical for any occupancy. Section 6.5.1.1 shall apply.

Exception: Stands where engines are run in auto repair rooms that have exhaust systems that directly connect to the engine exhaust and prevent escape of fumes.

6.5.2 Performance Compliance Path. The exhaust airflow shall be determined in accordance with the following subsections.

6.5.2.1 ~~Contaminant~~ Sources. ~~Contaminants~~ Compounds or mixtures ~~of concern~~ for purposes of the design shall be identified. At a minimum, the design should include the design compounds and PM2.5 specified in Table 6.3.2.1. For each ~~contaminant~~ compound or mixture ~~of concern~~, indoor sources (occupants, materials, activities, and processes) and outdoor sources shall be identified, and the emission rate for each ~~contaminant of concern~~ compound from each source shall be determined.

Informative Note: ~~Informative Appendix C provides information for some potential contaminants of concern.~~See Section 6.3.

6.5.2.2 ~~Contaminant~~ Design Compounds and PM2.5 Concentration. For each compound ~~contaminant of concern~~, a concentration limit and its corresponding exposure period and an appropriate reference to a cognizant authority shall be specified. The concentration limits for the minimum list of design compounds and PM2.5 are specified in Table 6.3.2.1. For mixtures listed in Table 6.3.2.2, the ratio of the concentration of each compound to its concentration limit shall be determined, and the sum of these ratios shall be not greater than one.

~~Informative Note:~~ ~~Informative Appendix C includes concentration guidelines for some potential contaminants of concern.~~

6.5.2.3 Objective Evaluation. Using design compounds and PM2.5 measurements in the completed occupied building, the measured compounds shall be below the established concentration limit. The design compounds shall be measured using the relevant laboratory methods in Table 6.3.4.4.1 and/or direct read devices listed in Table 6.3.4.4.2.

6.5.2.4 Subjective Evaluation. Using a subjective occupant evaluation conducted in the completed building, the minimum exhaust airflow rates required to achieve the greater of 1) the level of acceptability specified in Section 6.3.4.2 or 2) 80% acceptability shall be determined within each zone served by the system.

6.5.2.~~3~~5 Dynamic Reset. The system shall be permitted to be designed to reset the exhaust flow as operating conditions change. Monitoring and control systems shall be provided to automatically detect ~~contaminant~~ compound levels ~~of concern~~ and modulate exhaust airflow such that ~~contaminant~~ compound levels are maintained at not greater than the specified ~~contaminant~~ compound concentration limits.

Modify Table 6.5 as follows:

TABLE 6.5.1 Minimum Exhaust Rates

Occupancy Category	Exhaust Rate, cfm/unit	Exhaust Rate, cfm/ft^2	Notes	Exhaust Rate, L/s·unit	Exhaust Rate, L/s·m^2	Air Class
Arenas	—	0.50	~~B~~	—	—	1
Art classrooms	—	0.70		—	3.5	2
Auto repair rooms	—	1.50	~~A~~	—	7.5	2
Educational science laboratories	—	1.00		—	5.0	2
Locker rooms for athletic, industrial, and health care facilities	—	0.50		—	2.5	2
All other locker rooms	—	0.25		—	1.25	2
Shower rooms per shower head	~~20/50~~		~~C,I~~	~~10/25~~		2
Continuous Operation	20			10		
Intermittent Operation	50			25		
~~Paint spray booths~~	~~—~~	~~—~~	~~F~~	~~—~~	~~—~~	~~4~~
Parking garages	—	0.75	~~C~~	—	3.7	2

Pet shops (animal areas)	—	0.90		—	4.5	2
~~Refrigerating machinery rooms~~	~~—~~	~~—~~	~~F~~	~~—~~	~~—~~	~~3~~
~~Residential~~ Dwelling unit kitchens Continuous Operation Intermittent Operation	~~50/100~~ 50 100	—	~~G~~	~~25/50~~ 25 50	—	2
Soiled laundry storage rooms	—	1.00	~~F~~	—	5.0	3
Storage rooms, chemical	—	1.50	~~F~~	—	7.5	4
Toilets—private (one person) Continuous Operation Intermittent Operation	~~25/50~~ 25 50	—	~~E, H~~	~~12.5/25~~ 12.5 25	—	2
Toilets—public (>1 person) Per fixture (water closet or urinal) Continuous Operation Intermittent Operation	~~50/70~~ 50 70	—	~~D, H~~	~~25/35~~ 25 35	—	2
Woodwork shop/classrooms	—	0.50		—	2.5	2

~~**NOTES:**~~

~~A Stands where engines are run shall have exhaust systems that directly connect to the engine exhaust and prevent escape of fumes.~~

~~B Where combustion equipment is intended to be used on the playing surface additional dilution ventilation, source control, or both shall be provided.~~

~~C Exhaust shall not be required where two or more sides comprise walls that are at least 50% open to the outside.~~

~~D Rate is per water closet, urinal, or both. Provide the higher rate where periods of heavy use are expected to occur. The lower rate shall be permitted to be used otherwise.~~

~~E Rate is for a toilet room intended to be occupied by one person at a time. For continuous system operation during hours of use, the lower rate shall be permitted to be used. Otherwise the higher rate shall be used.~~

~~F See other applicable standards for exhaust rate.~~

~~G For continuous system operation, the lower rate shall be permitted to be used. Otherwise the higher rate shall be used.~~

~~H Exhaust air that has been cleaned to meet Class 1 criteria from Section 5.16.1 shall be permitted to be recirculated.~~

~~I Rate is per showerhead.~~

Relocate Table 5.16.1 and modify as follows:

TABLE ~~5.16.1~~ 6.5.2 Airstreams or Sources

Description	Air Class
Diazo printing equipment discharge	4
Commercial kitchen grease hoods	4
Commercial kitchen hoods other than grease	3
Laboratory hoods	4[a]
Residential kitchen hoods in transient occupancy	3
Hydraulic elevator machine room	2
Paint spray booths	4
Refrigerating machinery rooms	3

~~a. Air Class 4 unless determined otherwise by the Environmental Health and Safety professional responsible to the owner or to the owner's designee.~~

Addendum 1 to ANSI/ASNT CP-189 2016 Edition

1.0 Scope

This addendum is effective immediately and the requirements herein will be included in the main body of CP-189 during the next revision.

2.0 Definitions

2.1.22 Personalized Instruction. Personalized instruction may consist of blended classroom, supervised laboratory, and/or hybrid online competency-based course delivery. Modular content is covered through online presentations, in the classroom, and/or in small groups. Personalized instruction also enables students to achieve competency using strategies that align with their knowledge, skills and learning styles.

4.0 Qualification Requirements

4.1.1.1 The organized training may include instructor-led training, personalized instruction, ~~self-study~~, virtual instructor-led training, computer-based training or web-based training. Computer-based training and web-based training shall track hours and content of training with student examinations in accordance with 4.1.2.

6.0 Examinations

6.4 ASNT NDT Level II Certificate. The employer may accept a valid ASNT NDT Level II certificate as meeting either or both of the examination requirements of paragraphs 6.3.1 and 6.3.2 if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer's certification procedure.

6.5 ACCP Level II Certificate. The employer may accept a valid ACCP Level II certificate as meeting any one or all of the examination requirements of paragraphs 6.3.1, 6.3.2, and 6.3.3 if the NDT Level III has determined that the ASNT examinations meet the requirements of the employer's certification procedure.

6.6 Administration and Grading

6.6.2 Employer Examinations. For each employer-administered certification written examination, each candidate shall achieve a grade of at least 70%. For Practical examinations, each candidate shall achieve a grade of at least 80%. A composite ~~and an~~ average grade of 80% is required to be eligible for certification. All certification examinations shall have equal weight in determining the average grade.

9.0 Records

9.2.1 Certification Record

9.2.1.6 Signature of the NDT Level III that verified qualifications of candidate for certification.

Appendix B - Initial Training and Experience

Requirements for NDT Level II Limited Certifications

Evaluation Technique	Required Training (Hours)	Required Experience Minimum Hours in Method
Radiographic Film Interpretation – Non-Radiographer	40	220[1]
Radiographic Film Interpretation - Radiographer (Certified NDT Level I)	24	220[1]
Ultrasonic Digital Thickness Measurement (numeric output only)	8	40
Ultrasonic Straight Beam (A-scan) Thickness Measurement	24	175

NOTES:

A: Experience shall be based on the actual hours worked in the specific method.

B: The required minimum experience shall be documented by method and by hour with supervisor or NDT Level III approval.

C: While fulfilling total NDT experience requirement, experience may be gained in more than one (1) method, however, the minimum hours must be met for each method.

~~1 - Requires practical review of 1000 radiographs~~

BSR/IIAR 7-201X

Developing Operating Procedures for Closed-Circuit Ammonia Refrigeration Systems

Public Review #3 Draft

This draft only shows substantive changes resulting from IIAR 7 Public Review #2 comments and enough additional language for understanding. If you have any questions, contact the IIAR Office at 1-703-312-4200.

Chapter 4. Operating Procedure Contents

4.4 *Safety and Regulatory Considerations

4.4.1 ***Personal Protective Equipment (PPE).** Operating procedures shall describe the ~~appropriate~~ PPE that shall be worn when performing work on the ammonia refrigeration system~~, where appropriate~~.

4.4.2 ***Buddy System.** Operating procedures shall indicate when the buddy system shall be practiced in performing work on the ammonia refrigeration system.

4.4.3 ***Lockout/Tagout Procedures.** Operating procedures shall refer to the facility's lockout/tagout procedures~~, where appropriate~~.

4.4.4 **Confined Space Entry Procedures.** Operating procedures shall refer to the facility's confined space entry procedures~~, where appropriate~~.

4.4.5 **Equipment and Piping Opening Procedures.** Operating procedures shall refer to the facility's procedures for opening equipment and piping~~, where appropriate~~.

Chapter 7. Refrigerant Pumps

7.2 Refrigerant Pump Initial Start-Up Procedures. The following items shall be considered when documenting refrigerant pump initial start-up procedures:

9. Minimum refrigerant flow~~, where applicable~~;
10. Hydrostatic pressure relief~~, where applicable~~; and

7.7 *Refrigerant Pump Emergency Operating Procedures. The following shall be considered when documenting refrigerant pump emergency operating procedures:

1. Steps to operate the refrigerant pump under emergency operations~~, if applicable~~.

7.8 Refrigerant Pump Start-Up Procedures Following Abnormal Shutdown Conditions or a Turnaround. The following items shall be considered when documenting refrigerant pump start-up procedures following abnormal shutdown conditions or a turnaround:

10. Minimum refrigerant flow~~, where applicable~~;
11. Hydrostatic pressure relief~~, where applicable~~; and

Chapter 9. Evaporators

9.6 Evaporator Emergency Shutdown Procedures. The following item shall be considered when documenting evaporator emergency shutdown procedures:

3. Steps to discontinue process operations~~, where applicable~~;

Chapter 10. Pressure Vessels

10.5 Pressure Vessel Normal Shutdown Procedures. The following items shall be considered when documenting pressure vessel normal shutdown procedures:

2. Steps to shut off the liquid make-up system~~, where applicable~~;

Chapter 14. Tasks

14.3 Equipment and Piping Opening Procedures. The following items shall be considered when documenting equipment and piping opening procedures:

3. Equipment and/or piping that will be pumped out and/or opened to atmosphere shall be physically inspected prior to commencing work, and the inspected equipment and piping compared against information provided on the refrigeration system diagrams, P&IDs, and/or photographs to confirm the location of the work.

Draft ISA-96.03.01-2018

Guidelines for the Specification of Heavy Duty Pneumatically Powered Quarter Turn Scotch Yoke Valve Actuators

Approved _____

Commented [EB1]: To align with Scope, i.e., 1 Scope This standard provides general requirements for the development of specifications for pneumatic scotch yoke actuators.

This document applies to actuators with a maximum allowable operating pressure (MAOP) up to 250 psig with a compressed gas (i.e. instrument air).

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4.3 Actuators should have adjustable position stops to limit travel (typically +/- 5 degrees at each end for a maximum total travel of 100 degrees).

4.4 Jam nuts or lock nuts shall be utilized to prevent accidental adjustment of the travel stops.

4.5 The center body (or housing) shall be of a fully enclosed design, to minimize the possibility of injury to personnel during operation and to retain lubricant.

4.6 Spring return cartridges should be of a totally enclosed design.

4.7 Spring return models shall incorporate an inherently safe spring design that allows the actuator to be safely assembled and disassembled in the field (caution tags must be included to identify the spring enclosed mechanism). The spring return mechanism shall be designed in such a way that corrosion failure of the outer spring canister, or the bolting holding the spring casing to the center body, cannot result in “launching” the spring mechanism away from the actuator assembly.

4.8 The actuator shall be capable of being mounted and operated in any position.

NOTE The user will specify actuator orientation when orientation critical control components will be furnished (i.e. filter regulator).

4.9 The output drive of the actuator can be configured to turn clockwise (CW) or counter clockwise (CCW) to close the driven device. Furthermore, if the actuator is single-acting, it can be configured to fail spring CW or CCW. The user shall specify closing direction and failure position.

4.10 Interface between the scotch yoke type actuator and the valve shall be as per ISO-5211, MSS SP-101, or manufacturer standard.

4.11 Mounted accessories may not necessarily be to DIN EN ISO 5211/DIN EN 15081 (NAMUR Recommendation NE 14) compliant, but the actuator should be designed to meet NAMUR mounting dimensions where practicable.

5 Construction

All materials for the actuators shall be suitable for operation at ambient temperatures over a range of -20° F [-29° C] to + 160° F [+71° C].

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5.1 Center body

5.1.1 The center body shall be a totally enclosed weatherproof housing as per NEMA 4 and IP 65.

5.1.2 The center body shall incorporate a means to protect against over-pressurization due to pneumatic supply or process. Each manufacturer will have its own method for accomplishing overpressure protection.

5.1.3 Center body lubrication shall be achieved by component grease coating.

5.1.4 A means to support the transverse loads of the scotch yoke mechanism shall be incorporated into the design (e.g. bearings, guide bar or other arrangements).

5.1.5 The yoke should be constructed of a high yield ductile iron or similar strength material to ensure the torque producing components are capable of withstanding the actuator’s MAWP. Sliding surfaces should be manufactured out of dissimilar metals or dissimilar metal hardness to prevent galling.

8 Valve actuator mounting hardware

The valve actuator mounting hardware is comprised of combinations of the following: intermediate support, coupling, drive key(s), dowel pin and bolting.

The mounting hardware shall be designed with a load rating at least 10% greater than all combined loads it will have to support. (design safety factor of 1.1 or higher).

Example forces to be considered, in the design of mounting hardware, are listed below:

- Maximum actuator output torque generated at MAOP or as limited by a relief valve
- Maximum torque generated by a single acting actuator's spring
- External loads (e.g., actuator weight, side loads from mounting orientations, etc.)
- Environmental loads (e.g., wind, snow, seismic activity)
- Speed of actuator operation that may cause shock loading
  - To manage the high intertial impact load caused by high speed movement or a large mass the use of end cushion or hydraulic damper should be considered to protect the actuator at the end of its travel.

NOTE User to specify other external loads that may affect mounting adaptation.

Tensile stresses in mounting adaptation components shall not exceed 67% of Specified Minimum Yield Strength (SMYS) when delivering 1.1 or more times the maximum torque output. Shear torsion stresses shall not exceed 33% of SMYS. Total Von Mises stress shall not exceed 57.7% of the specified minimum yield strength.

A strength efficiency factor or safety factor of not more than 0.75 shall be ~~used~~assumed for fillet welds, unless otherwise agreed per the Ninth Edition of the Manual of Steel Construction Allowable Stress Design.

The valve actuator mounting adaptation design and manufacturing tolerance shall ensure the following:

- parallelism of the intermediate support mounting faces;
- concentricity of the Bolt Circle Diameter (BCD) of the bolting of the intermediate support; and
- concentricity of valve stem, coupling and the actuator drive (drive train).

Commented [EB6]: Addition of new Clause 8

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11.1 When required by user, supplier shall maintain traceable documentation for critical components used in the actuator.

11.2 When specified in the purchase order, the following minimum documentation shall be available:

a) Actuator general publications to include sales bulletins and general dimensional information as well as installation, operating and maintenance instructions

b) Certified dimensional (outline) drawings

c) Paint specifications (manufacturers)

d) Actuator torque performance table (not test certificate)

e) Wiring diagrams if applicable

f) Control schematics if applicable

g) Individual, as built, drawings of actuators and control systems

h) Function test certificate

i) Factory test reports or as required in the purchase order

j) Warranty

k) Recommended spare parts list if applicable

~~11~~13 User defined requirements

Commented [VM12]: ISA to Renumber

12.1 The manufacturer shall provide access to allow for internal inspection of the center body without disassembling the entire units or removing the unit from the valve.

12.2 Where specified, actuators shall be in full compliance with European Pressure Equipment Directive [PED] 97/23/EC Annex II with relevant modules. Maximum allowable pressure shall be clearly indicated on the actuator.

12.3 ~~All materials for the actuators should be suitable for operation at ambient temperatures over a range of -20° F [-29° C] to + 160° F [+71° C].~~ Consult manufacturer for temperatures outside th~~e~~is range specified in section 5. ~~, particularly brittlement temperature of the materials of construction.~~

Commented [EB13]: Revision of previous 12.3 (to be renumbered 13.3)

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12.4 The purchaser must advise the manufacturer if additional special material or painting/coating is required due to service conditions.

12.5 Torque testing of each actuator or samples of similar sizes, if required by the user, shall be agreed upon prior to order placement.

12.6 The manufacturer shall provide drawings with itemized components listing and material codes.

12.7 The manufacturer shall provide individual components catalog cut sheets.

12.8 The manufacturer shall provide material certification for the actuator cylinder and cylinder flange spring.

12.9 The manufacturer shall create a quality plan.

[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text. ONLY the highlighted text is within the scope of this ballot.]

NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water treatment units –
Aesthetic effects

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8 Instruction and information

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8.3.1 The packaging of components specifically for replacement purposes shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be used; and
— name and address of manufacturer.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water treatment units –
Health effects

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8 Instruction and information

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8.3 Replacement components

8.3.1 The packaging of components specifically for replacement purposes shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be; and
— name and address of manufacturer.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water treatment units –
Ultraviolet microbiological water treatment units

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8.3 Replacement components

8.3.1 The packaging of components specifically for replacement purposes shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be used; and
— name and address of manufacturer.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water distillation systems

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8 Instruction and information

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8.3 Replacement components

8.3.1 The packaging of components specifically for replacement purposes shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be used; and
— name and address of manufacturer.

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Supplemental microbiological water treatment systems – filtration

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8 Instruction and information

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8.3 Replacement components

8.3.1 The packaging of components, specifically for replacement purposes, shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be used;
— name and address of manufacturer;

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NSF/ANSI Standard
for Drinking Water Treatment Units –

Drinking water treatment units – Emerging compounds/incidental contaminants

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8 Instruction and information

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8.3 Replacement components

8.3.1 The packaging of components specifically for replacement purposes shall be labeled with the following information:

— model number or name of component;
— model number or series identification of system(s) in which the component is to be used; and
— name and address of manufacturer.

Rationale: Added clarification per 2018 DWTU JC meeting discussion (May 9, 2018) to address previous generation systems that may no longer be covered under a listing but that still work with currently listed replacement components.

BSR/UL 719, Standard for Safety for Nonmetallic-Sheathed Cable

PROPOSALS

1. Addition of Signal/Control Conductors Used Within a Type NM Cable

3.9.1 SIGNAL/CONTROL CONDUCTORS - conductors installed as Class 2 and Class 3 in accordance with Article 725 of the National Electrical Code (NEC).

4.3.2 A copper circuit conductor shall not be smaller than 14 AWG and shall not be larger than 2 AWG. An aluminum or copper-clad aluminum circuit conductor shall not be smaller than 12 AWG and shall not be larger than 2 AWG. Signal/control conductors used within a Type NM-PCS cable shall be 18 or 16 AWG copper.

4.4.1 Both before and after assembly into finished cable, the insulation employed on the circuit conductors shall comply with (a) or (b) and the insulation employed on the control/signal conductor shall comply with (c):

a) THHN Construction - Jacketed insulation for a Type NM or NMC cable shall have a nylon or similar jacket and shall comply with the thickness and other applicable requirements for Type THHN thermoplastic-insulated wire without (see 6.2.4) any surface marking of "THHN", "-B", or any ampacity or temperature rating.

b) TW Construction - Insulation without a nylon jacket shall comply with the thickness requirements for a Type TW thermoplastic-insulated wire. The insulation material shall comply with (1) or (2):

1) For TYPE NM or Type NMC Cable - The insulation material shall be a dry-locations PVC that complies with the requirements for Type THHN insulation without any surface marking of the ampacity or temperature rating (the surface marking "-B" is optional on the insulation). The tensile strength and elongation are to comply with the “Physical properties of PVC insulation from Type TFN and TFFN fixture wires" Table in UL 1581. The deformation test is to be conducted at 121.0 ±1.0°C (249.8±1.8°F) with a decrease of not more than 50 percent in the thickness of the PVC insulation.

2) For TYPE NM only - Type NM is eligible to use a thermoplastic insulating material other than PVC. The performance and ratings of the material as insulation shall be determined by investigation and shall be:

i) Electrically comparable to the PVC insulation in Type THHN wire, and

ii) Mechanically comparable to the nylon or similarly jacketed PVC insulation of Type THHN wire, and

iii) In accordance with “Physical properties of insulation of thermoplastic other than PVC from Type NM cables” Table in UL 1581.

c) Insulated Signal/Control Conductors - The insulation material shall be a dry-location PVC that complies with the requirements for Type TFN insulation without any surface marking of the temperature rating. The tensile strength and elongation shall comply with the Physical properties of PVC insulation from Type TFN and TFFN fixture wires in Table 50.155 in UL 1581. The deformation test is to be conducted at 121.0 ±1.0°C (249.8±1.8°F) with a decrease of not more than 50 percent in the thickness of the PVC insulation. The force to be used is 300 grams for 18 AWG and 400 grams for 16 AWG conductors.

4.6.1.1 At least two but not more than four circuit conductors, and an optional -PCS signal/control subassembly in accordance with 4.6.1A, shall be used in a Type NM cable. Two or three circuit

conductors shall be used in a Type NMC cable. In a given cable all of the circuit conductors shall be of the same size.

4.6.1A PCS Subassemblies

4.6.1A.1 A round or flat NM cable may employ a -PCS subassembly consisting of two 18 or 16 AWG signal/control conductors for use in Class 2 and Class 3 circuits with a thermoplastic jacket over the two 18 or 16 AWG conductors. The thermoplastic jacket shall be a minimum of 30 mils or 0.76 mm thick. The thermoplastic jacket shall meet the requirements of 5.2.

Exception: A flat NM cable may employ a -PCS subassembly consisting of two 18 or 16 AWG conductors for use in Class 2 and Class 3 circuits provided with an overall overall thermoplastic jacket that is a minimum of 60 mils or 1.52 mm thick where the -PCS subassembly is attached to the power conductor subassembly by a web or similar means. The thermoplastic jacket shall meet the requirements of 5.2.

4.6.2.1 In Type NM cables containing two circuit conductors, the circuit conductors shall either be laid parallel or shall be cabled with a length of lay that is not longer than indicated in Table 2. In Type NM cables containing more than two ~~or more~~ circuit conductors, the circuit conductors shall be cabled with a length of lay no longer than indicated in Table 2 except that, for sizes 14 - 10 AWG copper or 12 - 10 AWG aluminum or copper-clad aluminum, whether or not a binder is employed, the circuit conductors shall either be cabled with a length of lay which is not specified, shall be bundled together parallel to one another, or shall be laid parallel. In Type NMC cables, the circuit conductors shall be laid parallel. In a round cable, the direction of lay may be changed at intervals throughout the length of the cable. The intervals need not be uniform. In a cable in which the lay is reversed:

a) Each area in which the lay is right- or left-hand for not less than 5 complete twists (full 360° cycles) shall have the insulated conductors cabled with a length of lay that is not greater than indicated in Table 2, and

b) The length of each lay-transition zone (oscillated section) between these areas of right- or left-hand lay shall not exceed 1.8 times the maximum length of lay indicated in Table 2.

4.6.2.2 A flat NM-PCS cable shall consist of an NM cable where either (1) the NM cable is joined to the PCS subassembly by means of a web or similar method or (2) the power conductors and PCS subassembly are contained under the overall jacket. One of the following constructions is acceptable.

a) A flat NM-PCS cable may consist of an NM cable connected in parallel to a -PCS subassembly with an additional jacket of not less than 30 mils or 0.76 mm over the PCS subassembly as noted in 4.6.1A. There shall be no reduction in the overall jacket thickness when the PCS portion is separated from the circuit conductor portion.

b) A flat NM-PCS cable may also consist of an NM cable in parallel with the PCS subassembly.

4.6.2.3 A round NM-PCS cable shall consist of circuit conductors as described in 4.6.2.1 and a -PCS subassembly as described in 4.6.1A all within the overall NM cable jacket. The overall jacket shall not be less than 30 mils or 0.76 mm. The cabling of the circuit conductors and jacketed signal/control cables shall meet the requirements in 4.6.2.1.

5.6.1 When tested in accordance with 7.6, a vertical specimen of finished Type NMC cable, of finished Type NM cable, and of the insulated circuit conductors shall not flame longer than 60 seconds following five 15 second applications of the test flame, the period between applications being 15 seconds. For an NM-PCS cable, a vertical specimen of (1) the finished cable, (2) the -PCS jacketed assembly, and (3) the individual insulated signal/control conductors shall not flame longer than 60 seconds following five 15 second applications of the test flame, the period between applications being 15 seconds. If any specimen shows more than 25 percent of the indicator flag burned away or charred (soot that can be removed with a cloth or the fingers and brown scorching area shall be ignored) after any of the five applications of flame, the wire or cable shall be judged capable of conveying flame along its length. If any specimen emits flaming or glowing particles or flaming drops at any time that ignite the cotton on the burner, wedge,

or floor of the enclosure (flameless charring of the cotton shall be ignored), the wire or cable shall be judged capable of conveying flame to combustible materials in its vicinity.

5.14.1 Finished round Type NM-PCS and NM cable that contains two circuit conductors with an insulated grounding conductor, or three or four circuit conductors with an insulated or bare grounding conductor, in which the conductors are twisted, and which does not comply with the separation requirement in 5.18.1 and all finished round Type NM cable in which the conductors are parallel, shall be tested for crushing resistance in accordance with the method described in the Crushing-Resistance Test of Round Type NM Cables Section of the Reference Standard for Electrical Wires, Cables, and Flexible Cords, UL 1581. The cable is not acceptable if the average of the ten crushing trials is less than 1200 lbf or 5338 N or 544 kgf for a test length of round Type NM cable containing two circuit conductors with an insulated grounding conductor, or three or four 14 or 12 AWG circuit conductors.

5.15.1 The jacket on finished flat cable containing two or three 14 or 12 AWG copper or 12 or 10 AWG aluminum insulated circuit conductors shall not wear through exposing the underlying protective sheath or conductor assembly in fewer than 70 complete cycles of abrasion against sharp steel edges. On a flat NM-PCS cable, the signal/control conductors shall be separated from the NM power conductor side and only the remaining NM cable is subjected to this test. The test is to be conducted as described in 7.14.

5.16.1 Finished, flat, parallel cable containing two or three insulated 14 or 12 AWG copper or 12 AWG aluminum or copper-clad aluminum circuit conductors with a grounding conductor with or without the -PCS suffix; round Type NM with or without the -PCS suffix cable that contains two circuit conductors with an insulated grounding conductor, or three or four circuit conductors with a grounding conductor, fillers, or both, in which the conductors are twisted, and which does not comply with the separation requirements in 5.18.1; and all finished round Type NM cable with or without the -PCS suffix in which the conductors are parallel, shall each be constructed to withstand the low-temperature pulling through joists described in 7.15 without any opening occurring in the jacket that exposes the cable interior (see 7.15.6 and 7.15.7), without reduction of the spacing between the circuit conductors in flat cable to a value less than indicated in Table 3 (see 5.16.2), without any change in the position of the grounding conductor that results in the metal of the grounding conductor touching the insulation on a circuit (see 5.16.2), and without physical damage to the insulation (see 5.16.2).

6.1.16 If signal/control conductors are present, an NM cable shall carry the suffix letters -PCS to designate the presence of Class 2 or 3 signal/control conductors.

6.1.17 For a round NM-PCS cable, the jacket over the signal/control conductors shall be marked with the following statement: "The conductors under this jacket are only for signal/control connections, not for circuit power." Additionally, the overall jacket of a round NM-PCS cable shall be marked to indicate the following: "This cable contains both signal/control and power conductors." These markings shall repeat every 24 inches or 610 mm.

6.1.18 For a flat NM-PCS cable construction utilizing a separate 60-mil or 1.52-mm jacketed signal/control conductor construction, the jacket over the signal/control conductors shall be marked with the following statement: "Conductors under this jacket are only for signal/control connections, not for circuit power." These markings shall repeat every 24 inches or 610 mm.

6.2.11 The marking: "There are both signal/control circuits and power circuits in this cable. Do not use the signal/control conductors as circuit power conductors. The signal/control circuits are under jacket marked as such." shall be marked on the tag, reel, or carton of cable Type NM-PCS.

7.12.2.3 The insulated ~~circuit~~ conductors and the two steel plates are to be connected to low-voltage indicators (buzzers or the like) and to power supplies to provide a means for indicating a short circuit between ~~circuit~~ conductors or between any ~~one circuit~~ conductor and the steel plates. The grounding conductor is to be out of the circuit. The cable, the apparatus, and the surrounding air are to be in thermal equilibrium with one another at a temperature of 23.0 ±2.0°C (73.4 ±3.6°F) during the test.

7.12.2.4 The head of the machine is to be started and moved toward the bed at the rate of 0.50 ±0.05 in/min or 10 ±1 mm/min. The travel is to be continued until contact is established between the insulated ~~circuit~~ conductors or between one or more of the insulated ~~circuit~~ conductors and one or both plates. The

crushing force being exerted by the machine and the points between which the contact occurs are to be noted and recorded, and the downward direction of travel of the head is to be reversed. If the insulated ~~circuit~~ conductors do not remain one above the other until a contact is established, or if the cable does not remain vertical at the center of the plates, the results of the trial are to be disregarded and a new trial is to be made at a different location.

7.12.2.5 The crushing procedure is to be repeated on nine other samples or at nine other locations at least 12 inches or 305 mm apart on the sample length of cable. The results of all ten trials are to be averaged. If the average is less than 1200 lbf or 5338 N or 544 kgf for cable with two 14, 12, or 10 AWG insulated ~~circuit~~ conductors, the cable is not acceptable.

7.15.2 By means of a power wood auger, three holes, each 5/8 inch or 16 mm in diameter, are to be bored (at a speed of approximately 1800 r/min) through the broad faces of each length of 2 by 4 as shown in Figure 4. For NM cable, the size of the holes shall be 5/8 inch or 16 mm in diameter. For flat or round NM-PCS cable, the size of the holes to be drilled shall be 1 inch or 25.4 mm. The longitudinal axes of the holes are to be parallel and at an angle of 15 degrees to the horizontal, as shown in the end view, and 1 1/2 inches or 38 mm apart. No attempt is to be made to smooth or round the edges of the holes or to remove splintered wood, sawdust, or drilling chips from the holes.

Table 1

Cables covered in this standard

(See 1.1, 5.7.2, 5.8.1, 5.9.1, 6.1.12 - 6.1.14, 7.8.1 and 7.11.2.2)

Type	Construction	Number of circuit conductors	Size of circuit conductors
NMC	flat	2 or 3	14 - 10 AWG copper or 12 - 10 AWG aluminum or copper-clad aluminum
NM	flat	2	14 - 2 AWG copper or 12 - 2 AWG aluminum or copper-clad aluminum
	flat	3	14 - 10 AWG copper or 12 - 10 AWG aluminum or copper-clad aluminum
	round	2, 3, or 4	14 - 2 AWG copper or 12 - 2 AWG aluminum or copper-clad aluminum
NM with -PCS	flat	2 or 3	14 - 10 AWG copper or 12 - 10 AWG aluminum or copper-clad aluminum and 18 - 16 AWG copper control/signal conductors
	round	2 or 3	

BSR/UL 347A, Standard for Safety for Medium Voltage Power Conversion Equipment

1. Power Conversion Equipment with Low Voltage Input and Medium Voltage Output

1.2 These requirements cover equipment with output voltage ratings ~~rated~~ above 1500 volts to 38kV. This equipment may have input voltage ratings in the range of 0-1000 V, or above 1000 V to 38 kV.

1.5 These requirements do not cover low voltage power conversion equipment with both input and output voltage ratings of ~~rated~~ 1500 volts and below. This type of equipment is covered by the Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1.

13.1 Other than as noted in 13.9, a controller shall be provided with an externally-operable, gang-operated, ~~medium-voltage,~~ power circuit isolating means with position indication that complies with 13.2 - 13.8. ~~The isolating means can be any one of the following:~~

~~a) Three-pole isolating switch;~~

~~b) Three-pole isolating switch in mechanical combination with medium-voltage motor circuit fuses;~~

~~c) Three-pole load break switch;~~

~~d) Draw out three-pole contactor (with or without fuse assembly); or~~

~~e) Draw out three pole circuit breaker.~~

13.1.1 For equipment with an input voltage rating exceeding 1000 V, the isolating means shall be one of the following:

a) Three-pole isolating switch;

b) Three-pole isolating switch in mechanical combination with medium-voltage motor circuit fuses;

c) Three-pole load break switch;

d) Draw out three-pole contactor (with or without fuse assembly); or

e) Draw out three pole circuit breaker.

13.1.2 For equipment with an input voltage rating of 1000 V or less, the isolating means shall be one of the following, with current, voltage, and short-circuit ratings no less than required by the application:

a) Three-pole fused switch;

b) Three-pole switch, in combination with seperately mounted fuses; or

c) Three-pole circuit breaker, either fixed mounted or draw out type.

13.3 For equipment having an input voltage rating above 1000 V, ~~T~~the isolating means shall provide visible evidence of an isolating gap in the circuit adequate for the operating voltage.

13.4.1 For equipment with an input voltage rating of 1000 V or less, the isolating means shall be provided with position indication, but need not provide visible evidence of an isolation gap in the circuit.

18.3 Where field connections are to be made to circuits rated over 1500 V, wire bending space shall be provided in accordance with Section 5.210 of the Standard for Medium Voltage AC Contactors, Controllers, and Control Centers, UL 347.

18.4 Where field connections are to be made to circuits rated 1500 V and below, wire bending space shall be provided in accordance with Section 7.14 of the Standard for Industrial Control Equipment, UL 508.

APPENDIX A

UL 1066 Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures

2. Revision to Clause 7.3.1 - Driven Rain Test Requirement for All Outdoor Enclosures

7.3 Environmental rating related enclosure requirements

7.3.1 The requirements of Section 5.102.210 of the Standard for Medium Voltage AC Contactors, Controllers, and Control Centers, UL 347, apply to all enclosures intended for outdoor use. The Driven Rain Test of Section 6.203.1 of the Standard for Medium Voltage AC Contactors, Controllers, and Control Centers, UL 347is not required for type 4 and type 6 enclosures which meet the requirements of UL 50E, as the requirements are to obtain a watertight enclosure as verified by the Hosedown Test and the Submersion Test of UL 50Erespectively. ~~When provided~~ For all other enclosures, the driven rain test is required. When conducting the driven rain test on an enclosure with forced ventilation, the driven rain test shall be conducted with the ventilation system operating, and repeated with the ventilations system off. When an enclosure is marked with an enclosure type number, it shall comply with 7.3.2.

BSR/UL 789-201x, Standard for Safety for Indicator Posts for Fire-Protection Service

1. Revised Requirements to Above Ground Valve Mounted Indicator Post

PROPOSAL

5.10 An above ground indicator post shall be provided with a base flange for connection to the indicator-post flange provided as part of the inside-screw gate valve. The base flange shall be integral to the barrel or be securely fastened to the barrel, such as by the use of two 1/2 inch (12.7 mm) diameter mild-steel bolts complying with the Specification for Carbon Steel Forgings for Piping Components, ASTM A105/A105M. The indicator post flange shall be drilled for four 5/8 inch (15.9 mm) diameter mild-steel bolts, complying with the Specification for Carbon Steel Forgings for Piping Components, ASTM A105/A105M, or having equivalent strength, placed at 90 degrees on a bolt circle of 10-1/2 inches (267 mm) for valves up to and including 14 inches (356 mm). An example of an above ground indicator post is shown in Appendix A. The overall height of an above ground indicator post, the distance from the bottom of the base flange to the top of the handwheel or operating wrench, shall be limited to 20 inches.