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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

Comment Deadline: March 25, 2018

BICSI (Building Industry Consulting Service International)

Revision

BSR/BICSI 004-18-201x, Information Communication Technology Systems Design and Implementation - Best Practices for Healthcare Institutions and Facilities (revision of ANSI/BICSI 004-2013)

This Standard specifies design and installation requirements for telecommunications information technology systems within a healthcare building and between healthcare buildings in a campus environment. It defines terms, recommends cabling types and topology while also providing additional useful systems information and guidance on coordination between design and construction disciplines.

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

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

EOS/ESD (ESD Association, Inc.)

Revision

BSR/ESD STM11.13-201x, ESD Association Standard Test Method for the Protection of Electrostatic Discharge Susceptible Items Two-Point Resistance Measurement (revision of ANSI/ESD STM11.13-2015)

This standard test method is intended for measuring the resistance of packaging items in the range of $1.0 \times 10e4 < R < 1.0 \times 10e11$ ohms.

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

Send comments (with copy to psa@ansi.org) to: Christina Earl, cearl@esda.org

NSF (NSF International)

Revision

BSR/NSF 14-201x (i95r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016)

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

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

Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

NSF (NSF International)

Revision

BSR/NSF 49-201x (i115r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.

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

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

NSF (NSF International)

Revision

BSR/NSF 350-201x (i28r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017)

This Standard contains minimum requirements for onsite residential and commercial graywater treatment systems. Systems may include Graywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or Commercial graywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility graywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from graywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

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

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

TIA (Telecommunications Industry Association)

Revision

BSR/TIA 568.2-D-201x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (revision and redesignation of ANSI/TIA 568-C.2 -2009)

This Standard will supersede ANSI/TIA 568-C.2 and its addenda C.2-1 and C.2-2. It is intended to incorporate and revise as necessary the content of those Standards.

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

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2258-201x, Standard for Aboveground Nonmetallic Tanks for Fuel Oil and Other Combustible Liquids (new standard)

The following changes to the proposed first edition are being recirculated: Addition of definitions for Waste Oil Materials requirements, Interstitial Communication Test, Pool Fire Test, and Marking Methods.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 260-201x, Standard for Safety for Dry Pipe and Deluge Valves for Fire-Protection Service (revision of ANSI/UL 260-2008 (R2017))

Presently the UL 260 Standard covers valves up to and including 12 in size. The fire protection market needs a solution for larger sizes. This Proposal is to extend Paragraph 6.1 of the UL 260 to include sizes up to and including 16 in valve sizes.

[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

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 1004-1-201X, Standard for Safety for Rotating Electrical Machines General Requirements (revision of ANSI/UL 1004-1-2017)

The following is proposed: (1) Clarification for determining compliance for grounding continuity and bonding, (2) Updates to markings, (3) Clarification for KVA codes for motors with drives, and (4) Addition of Annex A, Aging Test on Motors.

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

Send comments (with copy to psa@ansi.org) to: Jonette Herman, (919) 549-1479, Jonette.A.Herman@ul.com

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 1004-4-201X, Standard for Safety for Electric Generators (revision of ANSI/UL 1004-4-2015)

The following is proposed: (1) Revision to scope, (2) Alternative means to evaluate voltage regulators used in generators, (3) Addition of definition for standby generator, (4) Addition of construction requirements for machines rated over 1,000 V or employing form wound constructions, (5) Revision of overspeed test, and (6) Addition of temperature requirements for standby generators.

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

Send comments (with copy to psa@ansi.org) to: Jonette Herman, (919) 549-1479, Jonette.A.Herman@ul.com

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 1581-201X, Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords (revision of ANSI/UL 1581-2017)

Change to unchanged elongation in new Table 50.246.

[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

Comment Deadline: April 9, 2018**ABYC (American Boat and Yacht Council)****Revision**

BSR/ABYC A-33-201x, Emergency Engine/Propulsion Cut-Off Devices (revision of ANSI/ABYC A-33-2009)

This standard applies to all mechanically powered boats equipped with devices that disable propulsion when the operator is unexpectedly displaced from the boat and boats equipped with warning system for passengers unexpectedly displaced from the boat.

Single copy price: \$50.00

Obtain an electronic copy from: www.abycinc.org

Order from: www.abycinc.org

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

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

BSR/ABYC E-11-201x, AC & DC Electrical Systems on Boats (revision of ANSI/ABYC E-11-2015)

This standard is a guide for the design, construction, and installation of alternating current (AC) electrical systems on boats and of direct current (DC) electrical systems on boats.

Single copy price: \$195.00

Obtain an electronic copy from: www.abycinc.org

Order from: www.abycinc.org

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

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

BSR/ASABE S641 MONYEAR-201x, Droplet Size Classification of Aerial Application Nozzles (new standard)

Define droplet spectrum categories for the classification of spray nozzles, relative to specified reference fan nozzles in discharging spray into static air or so that no stream of air enhances atomization. The purpose of classification is to provide the nozzle user with droplet size information primarily to indicate off-site spray drift potential and secondarily for application efficacy and will redefine measurement setups, reference nozzles and operational settings specific to high-air-speed aerial spray nozzle testing.

Single copy price: \$61.00

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

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

ASCE (American Society of Civil Engineers)**New Standard**

BSR/ASCE T&DI-201x, Design, Construction and Maintenance of Permeable Interlocking Concrete Pavement (new standard)

This standard establishes hydrologic and structural design methods for permeable interlocking concrete pavement (PICP). Permeable pavement design is typically site specific and requires careful consideration of structural and hydrologic conditions, and of the impact on the surrounding environment. This document provides information for professionals to use in the design of permeable pavement systems. This information includes applicable standards, definitions, best practices, structural and hydrologic design, key design elements, guide specifications, construction guidelines, and long-term maintenance.

Single copy price: Free

Obtain an electronic copy from: jneckel@asce.org

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

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

BSR/ASME B20.1-201x, Safety Standard for Conveyors and Related Equipment (revision of ANSI/ASME B20.1-2015)

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

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: Riad Mohamed, (212) 591-8460, MohamedR@asme.org

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

BSR/ASME B30.25-201x, Scrap and Material Handlers (revision of ANSI/ASME B30.25-2013)

B30.25 includes provisions that apply to the construction, installation, operation, inspection, and maintenance of scrap and material handlers consisting of a base, a revolving upper structure with operator's station(s), and a front for lifting scrap or materials using attachments such as magnets and grapples, and any variations thereof in which the equipment retains the same fundamental characteristics. The provisions included in this volume apply to scrap and material handlers that are crawler mounted, rail mounted, wheel mounted, or on pedestal bases. The scope includes hydraulically operated scrap and material handlers powered by internal combustion engines or electric motors to lift, lower, and swing scrap and material at various radii.

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: Kathryn Hyam, (212) 591-8521, hyamk@asme.org

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

BSR/AWWA D110-2013 (R201x), Wire- and Strand-Wound, Circular, Prestressed Concrete Water Tanks (reaffirmation of ANSI/AWWA D110-2013)

This intent of this standard is to describe current recommended practice for the design, construction, inspection, and maintenance of wire- and strand-wound, circular, prestressed concrete water-containing structures with the following four types of core walls: Type I - Cast-in-place concrete with vertical prestressed reinforcement; Type II - Shotcrete with steel diaphragm; Type III - Precast concrete with a steel diaphragm; and Type IV - Cast-in-place concrete with a steel diaphragm.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org; vdavid@awwa.org

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

BSR/AWWA B300-201x, Hypochlorites (revision, redesignation and consolidation of)

This standard describes chlorinated lime, calcium hypochlorite, and sodium hypochlorite for use in water, wastewater, and reclaimed water treatment.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org; vdavid@awwa.org

ECIA (Electronic Components Industry Association)**New Standard**

BSR/EIA 198-3-6-F-201x, Ceramic Dielectric Capacitors Classes I, II, III, and IV, Part III: Section 6: Axial-Leaded Capacitors, Conformally Coated and Molded Types (new standard)

Provides means to characterize ceramic capacitors electrically and mechanically by use of type designators.

Single copy price: \$75.00

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

Send comments (with copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

EOS/ESD (ESD Association, Inc.)**New Standard**

BSR/ESD SP27.1-201x, ESD Association Standard Practice for the Recommended Information Flow Regarding Potential EOS Issues between Automotive OEM, Tier 1, and Semiconductor Manufacturers (new standard)

This document applies to any electronic component, module, or assembly exhibiting electrically induced physical damage (EIPD) that is suspected to be a result of EOS.

Single copy price: 145.00 (List), \$115.00 (ESD Members) [Hardcopy]; \$135.00 (List), \$105.00 (ESD Members) [Softcopy]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl, (315) 339-6937, cearl@esda.org

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

ESTA (Entertainment Services and Technology Association)**New Standard**

BSR ES1.19-201x, Safety Requirements for Special Event Structures (new standard)

This document is one part of a larger suite of ES1 standards relating to special-event safety being developed. This draft standard covers any temporary structure used for special events (e.g., concerts, award shows, dramatic plays) not otherwise addressed by existing standards, codes, or legislation. The purpose of this document is to identify design, fabrication, operation and use, inspection, and maintenance requirements for the structures included in its scope.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.30-11-201x, EPI 33 - ACN Root Layer Protocol Operation on TCP (new standard)

E1.17 profiles for Interoperability (EPIs) are parts of the E1.30 suite of standards documents that specify how conforming implementations are to operate in a particular environment or situation in order to guarantee interoperability. This part of E1.30, EPI 33, is an interoperability profile that specifies the operation and formats for the ACN Root Layer Protocol operating on TCP.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.33-201x, Entertainment Technology - (RDMnet) - Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks (new standard)

This standard describes a method of implementing ANSI E1.20 Remote Device Management messaging over an IP-based network.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.37-4-201x, Remote Device Management over DMX512 Networks - File Transfer Control with Firmware Upload Capabilities (new standard)

BSR E1.37-4 is part of the E1.37 project. It provides developers of RDM responder hardware with a standard means of implementing firmware upload using the basic communication structure provided by the ANSI E1.20 RDM standard. The design approach is intended to facilitate data transfers to responders that may be built using processors with very limited memory resources as well as devices that can support the largest possible [RDM] packet.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.37-7-201x, Additional Message Sets for ANSI E1.20 (RDM) - Gateway & Splitter Messages (new standard)

This document provides additional Get/Set Parameter Messages for use with the ANSI E1.20 Remote Device Management protocol. This document contains messages relating to configuring managed splitters, proxy devices, and RDMnet devices.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.56-201x, Entertainment Technology - Rigging Support Points (new standard)

This standard is to provide guidance for the design, fabrication, installation, and testing of permanent and temporary rigging points and rigging lugs and their connection to existing building and venue structures.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

New Standard

BSR E1.60-201x, Guidelines for the Use of Raked Stages in Live Performance Environments (new standard)

This standard is intended to provide guidance for the use of raked stages in live performance environments. The standard intends to define a rake, and to offer guidance for production elements to mitigate the risks for the protection of actors and technicians.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

Reaffirmation

BSR E1.11-2008 (R201x), Entertainment Technology - USITT DMX512-A - Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories (reaffirmation of ANSI E1.11-2008 (R2013))

E1.11 describes a protocol for transmitting digital data over an EIA-485-A datalink for the purpose of controlling entertainment lighting equipment and accessories, such as dimmers, robotic luminaires, color changers, and motion effects wheels. The protocol is not intended to be used to control equipment where injury to people or damage to property could result from a message error.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

ESTA (Entertainment Services and Technology Association)

Revision

BSR E1.42-201x, Entertainment Technology - Design, Installation, and Use of Orchestra Pit Lifts (revision of ANSI E1.42-2016)

E1.42 covers the design, construction, operation, inspection, testing, maintenance, alteration, and repair of permanently installed orchestra pit lifts and their associated parts, rooms, spaces, enclosures and hoistways, where located in a theatre or a similar place of public entertainment.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

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

HL7 (Health Level Seven)

Reaffirmation

BSR/HL7 V3 ISODT, R1-2013 (R201x), HL7 Version 3 Standard: XML Implementation Technology Specification, R2; ISO-Harmonized Data Types, Release 1 (reaffirmation of ANSI/HL7 V3 ISODT, R1-2013)

This document is the base data types shared and jointly balloted between ISO, CEN and HL7. In HL7 terms, it is, in effect, Release 2 of the XML ITS datatypes.

Single copy price: Free to members and non-members

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)

Reaffirmation

BSR/HL7 V3 IZ, R1-2013 (R201x), HL7 Version 3 Standard: Immunization Messaging, Release 1 (reaffirmation of ANSI/HL7 V3 IZ, R1-2013)

This domain describes communication of information about immunization, the process of inducing immunity to an infectious organism or agent in an individual or animal through vaccination.

Single copy price: Free to members and non-members

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)

Reaffirmation

BSR/HL7 V3 PC CAREPLAN, R1-2013 (R201x), HL7 Version 3 Standard: Care Provision; Care Record Topic, Release 1 (reaffirmation of ANSI/HL7 V3 PC CAREPLAN, R1-2013)

The care record allows healthcare professionals or facilities to send part or whole electronic patient care records that contain pertinent information about the treatment and care given to individual patients, or a care plan with future required treatment and care. Healthcare professionals or facilities can use the care record to report a health summary, or report data according to a specific profile to a quality registry, a registry for healthcare statistics, or for research studies.

Single copy price: Free to members and non-members

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)

Reaffirmation

BSR/HL7 V3 PC CAREREC, R1-2013 (R201x), HL7 Version 3 Standard: Care Provision; Queries Care Record Topic, Release 1 (reaffirmation of ANSI/HL7 V3 PC CAREREC, R1-2013)

The record query allows healthcare professionals or facilities to ask another professional or facility if a care record candidate exists for a specific patient; and then ask if the identified care record is available, or if a specific clinical content specified in a profile is present in the care record of a patient. The query is followed by 1-n candidate records, the identified record, or the profile with detailed data for the identified patient, using the care record.

Single copy price: Free to members and non-members

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)

Reaffirmation

BSR/HL7 V3 PCDIM, R1-2013 (R201x), HL7 Version 3 Standard: Care Provision Domain Information Model, Release 1 (reaffirmation of ANSI/HL7 V3 PCDIM, R1-2013)

The Care Provision Domain addresses the information that is needed for the ongoing care of individuals, populations, and other targets of care. The purpose of the care provision models is to facilitate the exchange of a full care record.

Single copy price: Free to members and non-members

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)**Reaffirmation**

BSR/HL7 V3 RXMSSEVNT, R1-2013 (R201x), HL7 Version 3 Standard: Medication Statement and Administration Event, Release 1 (reaffirmation of ANSI/HL7 V3 RXMSSEVNT, R1-2013)

This topic deals with the (a) reporting of specific medication administration events and (b) statements about medication use that are not tied to a specific prescription, dispense, or administration. The former category is usually relevant in institutional settings, whereas the latter is mostly used to include patient statements in the overall medication profile. This ballot includes the addition or extension of attribute descriptions and walkthroughs.

Single copy price: Free to members and non-members

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)**Reaffirmation**

BSR/HL7 V3 XMLITSSTR, R2-2013 (R201x), HL7 Version 3 Standard: XML Implementation Technology Specification - V3 Structures, Release 2 (reaffirmation of ANSI/HL7 V3 XMLITSSTR, R2-2013)

The document is now being published as the second release of the XML Implementation Technology Specification (XML ITS). This builds on the framework of the XML ITS R1, and introduces the following new features: (1) references the HL7/ISO/CEN Datatypes R2, that serve as release 2 of the datatypes for the XML Implementation Technology Specification; (2) includes the informal extension mechanism that has been introduced in the XML Implementation Technology Specification release 1.1, allowing for the inclusion of informal extensions in the HL7 namespace to support easier version migration; and (3) allows default values for non-structural attributes must be included in the instance.

Single copy price: Free to members and non-members

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 National Adoption**

BSR/ISA 95.00.02-201x, Enterprise-Control System Integration - Part 2: Object Model Attributes (national adoption of IEC 62264-2 with modifications and revision of ANSI/ISA 95.00.02 (IEC 62264-2 Modified)-2010)

Defines the details of the interface content between manufacturing control functions and other enterprise functions. The scope is limited to the definition of object models and attributes for the information defined in ANSI/ISA 95.00.01. The goal is to reduce the effort, cost, and errors associated with implementing these interfaces.

Single copy price: \$99.00 (usd)

Obtain an electronic copy from: crobinson@isa.org

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

ISA (International Society of Automation)**Revision**

BSR/ISA 95.00.04-201x, Enterprise-Control System Integration - Part 4: Object model attributes for manufacturing operations management integration (revision of ANSI/ISA 95.00.04-2012)

Defines the object models and attributes involved in data exchange between activities of manufacturing operations management defined in ANSI/ISA 95.00.03.

Single copy price: \$99.00 (usd)

Obtain an electronic copy from: crobinson@isa.org

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

TIA (Telecommunications Industry Association)**Revision**

BSR/TIA 570-D-201x, Residential Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 570-C-2012)

This Standard applies to telecommunications premises cabling systems and the related pathways and spaces for single- and multi-dwelling residential buildings. It applies to the telecommunications cabling within or between structures and includes the cabling within a single-dwelling unit and the backbone cabling. It specifies cabling intended to support a wide range of telecommunications applications in the residential environment including voice, data, video, security, audio, and control systems.

Single copy price: \$60.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

UL (Underwriters Laboratories, Inc.)**Reaffirmation**

BSR/UL 1478-2004 (R201x), Standard for Safety for Fire Pump Relief Valves (reaffirmation of ANSI/UL 1478-2004 (R2013))

UL proposes a reaffirmation for UL 1478.

Single copy price: Free

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

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

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 773A-201x, Standard for Safety for Nonindustrial Photoelectric Switches for Lighting Control (revision of ANSI/UL 773A-2016)

This proposal for UL 773A covers: (1) Add provisions for grounding of electronic lighting control switches to align UL 773A with NFPA 70, Article 404.22 and 404.2(c); (2) Add electronic ballast test information to UL 773A as in other UL and CSA standards; (3) Align UL 773A with NEMA 410 2015; and (4) Add abbreviation as alternate marking for electronic ballasts.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Anne Marie Jacobs, (919) 549-0954, annemarie.jacobs@ul.com

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 827-201x, Standard for Safety for Central-Station Alarm Services (revision of ANSI/UL 827-2016)

(1) Automated processing of low-level signals; (2) Miscellaneous modifications to Clause 7.8 and titles of 8.5, 8.5.1, and 17.2.1.

Single copy price: Free

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

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

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 924-201x, Standard for Safety for Emergency Lighting and Power Equipment (revision of ANSI/UL 924-2017a)

The following is proposed: (1) Expanded requirements for emergency lighting controls; (2) Expanded options for derangement signals.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Grace Roh, (919) 549-1389, Grace.Roh@ul.com

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 1647-201x, Standard for Safety for Motor-Operated Massage and Exercise Machines (revision of ANSI/UL 1647-2016)

This recirculation proposal provides revisions to the UL 1647 proposal dated 08-04-2017.

Single copy price: Free

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

Send comments (with copy to psa@ansi.org) to: Wilbert Fletcher, (919) 549-1337, Wilbert.Fletcher@ul.com

UL (Underwriters Laboratories, Inc.)**Revision**

BSR/UL 61800-5-1-201X, Standard for Safety for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy (revision of ANSI/UL 61800-5-1-2015)

Revised the following proposals: (2) CDM/BDM controlling multiple motors; (3) Clarification of spacings and internal wire insulation for recertified AC voltages; (4) Slash and straight voltage ratings for drives with a 3-phase input; and (6) Signal words. In addition, two topics are being recirculated based on comments.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000 151 Eastern Ave., Bensenville, IL 60106 USA 1-888-853-3502

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

VITA (VMEbus International Trade Association (VITA))**New Standard**

BSR/VITA 57.4-201xx, FPGA Mezzanine Card Plus (FMC+) Standard (new standard)

This standard extends the VITA 57.1 FMC standard by specifying two new connectors that enable additional gigabit transceiver interfaces that run at up to 28 Gbps.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with copy to psa@ansi.org) to: admin@vita.com

Comment Deadline: April 24, 2018

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

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

BSR/ASME A112.19.14-2013 (R201x), Six-Liter Water Closets Equipped with a Dual Flushing Device (reaffirmation of ANSI/ASME A112.19.14-2013)

This Standard establishes physical, material, testing, and marking requirements for 6-L water closets that incorporate a water-conserving, dual-flushing feature into the fixture.

Single copy price: \$50.00

For Reaffirmations and Withdrawn standards, please view our catalog at <https://www.asme.org/shop/standards>

Send comments (with copy to psa@ansi.org) to: Angel Guzman, (212) 591-8018, guzman@asme.org

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

BSR/ASME A112.19.17-2010 (R201x), Manufactured Safety Vacuum Release Systems (SVRS) for Residential and Commercial Swimming Pool, Spa, Hot Tub and Wading Pool Suction Systems (reaffirmation of ANSI/ASME A112.19.17-2010)

This Standard establishes general requirements, dimensions and tolerances, materials, installation instructions, testing requirements, and markings and identification for SVRS devices.

Single copy price: \$49.00

For Reaffirmations and Withdrawn standards, please view our catalog at <https://www.asme.org/shop/standards>

Send comments (with copy to psa@ansi.org) to: Angel Guzman, (212) 591-8018, guzman@asme.org

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

BSR/ASME B1.1-2003 (R201x), Unified Inch Screw Threads (UN and UNR Thread Form) (reaffirmation of ANSI/ASME B1.1-2003 (R2008))

This Standard specifies the thread form, series, class, allowance, tolerance, and designation for unified screw threads. Several variations in thread form have been developed for unified threads; however, this Standard covers only [Unified] UN and UNR [external threads only] thread forms.

Single copy price: \$160.00

For Reaffirmations and Withdrawn standards, please view our catalog at <https://www.asme.org/shop/standards>

Send comments (with copy to psa@ansi.org) to: April Amaral, AmaralA@asme.org

NEMA (ASC C119) (National Electrical Manufacturers Association)

Revision

BSR C119.6-201x, Electric Connectors - Non-Sealed, Multiport Connector Systems Rated 600 Volts or Less for Aluminum and Copper Conductors (revision of ANSI C119.6-2011)

This standard covers non-sealed, multiport distribution connectors rated 600 volts or less used for making electrical connections between aluminum-to-aluminum, aluminum-to-copper, or copper-to-copper conductors for above-grade, electric utility applications. This standard establishes the electrical and mechanical test requirements for connectors used at normal operating temperatures not to exceed 90°C (194°F) and is not intended to recommend any other operating conditions.

Single copy price: \$88.00

Obtain an electronic copy from: pau_orr@nema.org

Order from: NEMA; orrpaul@aol.com

Send comments (with copy to psa@ansi.org) to: Paul Orr, (703) 841-3227, Pau_orr@nema.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 2196-201x, Standard for Safety for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control and Data Cables (revision of ANSI/UL 2196-2017)

The following changes in requirements to the Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control and Data Cables, UL 2196, is being proposed: (1) Revision to provide clarification to the Hose Stream Test requirement.

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: Mary Huras, (613) 368-4425, Mary.Huras@ul.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.

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

Office: 1791 Tullie Circle NE
Atlanta, GA 30329

Contact: *Tanisha Meyers-Lisle*

Phone: (678) 539-1111

Fax: (678) 539-2111

E-mail: tmlisle@ashrae.org

BSR/ASHRAE Standard 30-201x, Method of Testing Liquid Chillers
(revision of ANSI/ASHRAE Standard 30-2017)

ASQ (ASC Z1) (American Society for Quality)

Office: 600 N Plankinton Ave
Milwaukee, WI 53203

Contact: *Julie Sharp*

Phone: (800) 248-1946

E-mail: standards@asq.org

BSR/ASQ ISO 19011-201x, Guidelines for auditing management systems (identical national adoption of ISO 19011: 2018 and revision of ANSI/ISO/ASQ QE19011S-2008)

ECIA (Electronic Components Industry Association)

Office: 2214 Rock Hill Road
Suite 265
Herndon, VA 20170-4212

Contact: *Laura Donohoe*

Phone: (571) 323-0294

Fax: (571) 323-0245

E-mail: ldonohoe@ecianow.org

BSR/EIA 198-3-6-F-201x, Ceramic Dielectric Capacitors Classes I, II, III, and IV, Part III: Section 6: Axial-Leaded Capacitors, Conformally Coated and Molded Types (new standard)

HL7 (Health Level Seven)

Office: 3300 Washtenaw Avenue
Suite 227
Ann Arbor, MI 48104

Contact: *Karen Van Hentenryck*

Phone: (734) 677-7777

Fax: (734) 677-6622

E-mail: Karenvan@HL7.org

BSR/HL7 V3 PC CARETRANS, R1-201x, HL7 Version 3 Standard: Care Provision; Care Transfer Topic, Release 1 (reaffirmation of ANSI/HL7 V3 PC CARETRANS, R1-2013)

IES (Illuminating Engineering Society)

Office: 120 Wall St. 17th Floor
New York, NY 10005

Contact: *Patricia McGillicuddy*

Phone: (917) 913-0027

E-mail: pmcgillicuddy@ies.org

BSR/IES RP-1-201x, Standard Practice for Office Lighting (revision of ANSI/IES RP-1-2013)

ISA (International Society of Automation)

Office: 67 Alexander Drive
Research Triangle Park, NC 27709

Contact: *Charles Robinson*

Phone: (919) 990-9213

Fax: (919) 549-8288

E-mail: crobinson@isa.org

BSR/ISA 95.00.02-201x, Enterprise-Control System Integration - Part 2: Object Model Attributes (national adoption of IEC 62264-2 with modifications and revision of ANSI/ISA 95.00.02 (IEC 62264-2 Modified)-2010)

BSR/ISA 95.00.04-201x, Enterprise-Control System Integration - Part 4: Object Model Attributes for Manufacturing Operations Management Integration (revision of ANSI/ISA 95.00.04-2012)

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

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

Contact: *Deborah Spittle*

Phone: (202) 737-8888

Fax: (202) 638-4922

E-mail: comments@standards.incits.org

INCITS/ISO/IEC 20000-2:2012 [201x], Information technology - Service management - Part 2: Guidance on the application of service management systems (identical national adoption of ISO/IEC 20000-2:2012)

INCITS/ISO/IEC 20000-3:2012 [201x], Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1 (identical national adoption of ISO/IEC 20000-3:2012)

INCITS/ISO/IEC 30105-1:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 1: Process reference model (PRM) (identical national adoption of ISO/IEC 30105-1:2016)

INCITS/ISO/IEC 30105-2:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 2: Process assessment model (PAM) (identical national adoption of ISO/IEC 30105-2:2016)

INCITS/ISO/IEC 30105-3:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 3: Measurement framework (MF) and organization maturity model (OMM) (identical national adoption of ISO/IEC 30105-3:2016)

INCITS/ISO/IEC 30105-4:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Terms and concepts (identical national adoption of ISO/IEC 30105-4:2016)

INCITS/ISO/IEC 30105-5:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 5: Guidelines (identical national adoption of ISO/IEC 30105-5:2016)

NSF (NSF International)

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

Contact: Jason Snider

Phone: (734) 418-6660

E-mail: jsnider@nsf.org

BSR/NSF 14-201x (i95r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016)

BSR/NSF 49-201x (i115r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

BSR/NSF 350-201x (i28r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2017)

PLATO (Portable Lights American Trade Organization)

Office:

Contact: David Delaquila

Phone: (330) 469-2727

E-mail: daviddelaquila@gmail.com

BSR/PLATO FL 1-201x, Flashlight Basic Performance Standard (revision of ANSI/PLATO FL 1-2016)

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: Laurence Womack

Phone: (770) 209-7276

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 512 sp-2012 (R201x), Creasing of flexible packaging material paper specimens for testing (reaffirmation of ANSI/TAPPI T 512 sp-2012)

BSR/TAPPI T 551 om-2012 (R201x), Thickness of paper and paperboard (soft platen method) (reaffirmation of ANSI/TAPPI T 551 om-2012)

TIA (Telecommunications Industry Association)

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

Contact: Teesha Jenkins

Phone: (703) 907-7706

Fax: (703) 907-7727

E-mail: standards@tiaonline.org

BSR/TIA 570-D-201x, Residential Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 570-C-2012)

BSR/TIA 920.120-C-201x, Telecommunications - Communications Products - Transmission Requirements for Digital Interface Communications Devices with Speakerphone (revision and redesignation of ANSI/TIA 920.120-B-2017)

UL (Underwriters Laboratories, Inc.)

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

Contact: Griff Edwards

Phone: 919 549-0956

E-mail: griff.edwards@ul.com

BSR/UL 827-201x, Standard for Safety for Central-Station Alarm Services (revision of ANSI/UL 827-2016)

BSR/UL 2196-201x, Standard for Safety for Standard for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control and Data Cables (revision of ANSI/UL 2196-2017)

VITA (VMEbus International Trade Association (VITA))

Office: 929 W. Portobello Avenue
Mesa, AZ 85210

Contact: Jing Kwok

Phone: (602) 281-4497

E-mail: jing.kwok@vita.com

BSR/VITA 57.4-201x, FPGA Mezzanine Card Plus (FMC+) Standard (new standard)

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.

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

ANSI/AAMI/ISO 13408-2-2018, Aseptic processing of health care products - Part 2: Sterilizing filtration (identical national adoption of ISO 13408-2 and revision of ANSI/AAMI/ISO 13408-2-2003 (R2013)): 2/1/2018

AGA (ASC Z380) (American Gas Association)

Addenda

ANSI/GPTC Z380.1-2015 Edition, Addendum No. 9-2018, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI/GPTC Z380.1-2015 Edition): 2/16/2018

ASABE (American Society of Agricultural and Biological Engineers)

New National Adoption

ANSI/ASABE AD17225-4-FEB2018, Solid biofuels - Fuel specifications and classes - Part 4: Graded wood chips (national adoption with modifications of ISO 17225-4:2014): 2/14/2018

ASC X9 (Accredited Standards Committee X9, Incorporated)

New Standard

ANSI X9.124-2-2018, Symmetric Key Cryptography for the Financial Services Industry - Format Preserving Encryption - Part 2: Key Stream with Counter Mode (new standard): 2/14/2018

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME B16.18-2018, Cast Copper Alloy Solder Joint Pressure Fittings (revision of ANSI/ASME B16.18-2012): 2/16/2018

AWS (American Welding Society)

New Standard

ANSI/AWS-NAVSEA B2.1-1-301-2018, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (new standard): 2/16/2018

ANSI/AWS-NAVSEA B2.1-1-311-2018, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Gas Tungsten Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-70S-2, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (new standard): 2/16/2018

ANSI/AWS-NAVSEA B2.1-8-309-2018, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for 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-XX, in the As-Welded Condition, Primarily Plate and Structural Naval Applications (new standard): 2/16/2018

ANSI/AWS-NAVSEA B2.1-8-319-2018, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for 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-XX, in the As-Welded Condition, Primarily Pipe for Naval Applications (new standard): 2/16/2018

Revision

ANSI/AWS B2.1-1-027-2018, Standard Welding Procedure Specification (SWPS) for Self-Shielded Flux Cored Arc Welding of Carbon Steel (M-1 or P-1, Groups 1 and 2) 1/8 through 1/2 inch Thick, E71T-11, As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-027-2011): 2/16/2018

ANSI/AWS D16.1M/D16.1-2018, Specification for Robotic Arc Welding Safety (revision of ANSI/AWS D16.1M/D16.1-2004 (R2016)): 2/16/2018

AWWA (American Water Works Association)

New Standard

ANSI/AWWA E200-2018, Progressive Cavity Chemical Metering Pumps (new standard): 2/14/2018

Revision

ANSI/AWWA C221-2018, Fabricated Steel Mechanical Slip-Type Expansion Joints (revision of ANSI/AWWA C221-2012): 2/14/2018

ANSI/AWWA C507-2018, Ball Valves, 6 In. through 60 In. (150 mm through 1,500 mm) (revision of ANSI/AWWA C507-2014): 2/14/2018

CTA (Consumer Technology Association)

New Standard

* ANSI/CTA 2042.3-2018, Methods of Measurement for Efficiency and Standby Power of Wireless Power Systems (new standard): 2/14/2018

Revision

* ANSI/CTA 2037-A-2018, Determination of Television Average Power Consumption (revision of ANSI/CTA 2037-A-2014): 2/16/2018

ISA (International Society of Automation)

New Standard

ANSI/ISA 62443-4-1-2018, Security for industrial automation and control systems - Part 4-1: Product security development life-cycle requirements (new standard): 2/16/2018

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

Reaffirmation

ANSI/ITSDF B56.11.1-2012 (R2018), Double Race or Bi-Level Swivel and Rigid Industrial Casters (reaffirmation of ANSI/ITSDF B56.11.1-2012): 2/16/2018

NEMA (ASC C78) (National Electrical Manufacturers Association)

Stabilized Maintenance

* ANSI C78.22-1995 (S2018), Standard for Electric Lamps - A, G, PS, and similar shapes with E39 mogul screw bases (stabilized maintenance of ANSI C78.22-1995 (R2011)): 2/15/2018

- * ANSI C78.23-1995 (S2018), Incandescent Lamps - Miscellaneous Types (stabilized maintenance of ANSI C78.23-1995 (R2011)): 2/15/2018
- * ANSI C78.260-2002 (S2018), Electric Lamps - Tubular Tungsten-Halogen Lamps Physical Characteristics (stabilized maintenance of ANSI C78.260-2002 (R2011)): 2/15/2018
- * ANSI C78.261-1997 (S2018), Specification for Tubular Incandescent Infrared Lamps (stabilized maintenance of ANSI C78.261-1997 (R2011)): 2/15/2018
- ANSI C78.370-1997 (S2018), Standard for Electric Lamps - Method of Designation for Electric Lamps - Photographic, Stage and Studio (stabilized maintenance of ANSI C78.370-1997 (R2011)): 2/15/2018
- ANSI C78.1402-2004 (S2018), Standard for Electric Lamps - Dimensions for Projection Lamps G17q and GX17q Based Four-Pin, Prefocus, for Base-Down Operation (stabilized maintenance of ANSI C78.1402-2004 (R2011)): 2/15/2018
- ANSI C78.1403-1997 (S2018), Standard for Electric Lamps -Tungsten Halogen Lamps with 6.35, GX6.35 and GY6.35 Bases (stabilized maintenance of ANSI C78.1403-1997 (R2011)): 2/15/2018
- ANSI C78.1450-1983 (S2018), Standard for Electric Lamps - Projection Lamps, Incandescent, Method for Life Testing (stabilized maintenance of ANSI C78.1450-1983 (R2011)): 2/15/2018

NSF (NSF International)

Revision

- ANSI/NSF 14-2018 (i88r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016): 2/1/2018
- ANSI/NSF 14-2018 (i93r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2017): 2/12/2018

SCTE (Society of Cable Telecommunications Engineers)

New Standard

- ANSI/SCTE 241-2017, Key Performance Metrics: Energy Efficiency and Functional Density of Wi-Fi Infrastructure Equipment (new standard): 2/16/2018

Revision

- ANSI/SCTE 23-1-2017, DOCSIS 1.1 Part 1: Radio Frequency Interface (revision of ANSI/SCTE 23-1-2010): 2/16/2018
- ANSI/SCTE 85-3-2017, HMS Inside Plant Management Information Base (MIB) SCTE-HMS-HE-OPTICAL-AMPLIFIER-MIB (revision of ANSI/SCTE 85-3-2009): 2/14/2018
- ANSI/SCTE 94-2-2017, HMS Common Inside Plant Management Information Base (MIB) SCTE-HMS-HE-RF-SWITCH-MIB (revision of ANSI/SCTE 94-2-2009): 2/14/2018

UL (Underwriters Laboratories, Inc.)

Reaffirmation

- ANSI/UL 2202-2012 (R2018), Standard for Safety for Electric Vehicle (EV) Charging System Equipment (reaffirmation of ANSI/UL 2202-2012): 2/9/2018

Revision

- ANSI/UL 213-2018, Standard for Safety for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2013): 2/15/2018
- ANSI/UL 213-2018a, Standard for Safety for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2013): 2/15/2018
- ANSI/UL 213-2018b, Standard for Safety for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2013): 2/15/2018
- ANSI/UL 705-2018, Standard for Safety for Power Ventilators (revision of ANSI/UL 705-2017): 2/13/2018

ANSI/UL 1203-2018, Standard for Safety for Explosion-Proof and Dust-Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations (revision of ANSI/UL 1203-2015): 2/16/2018

ANSI/UL 1740-2018a, Standard for Safety for Robots and Robotic Equipment (revision of ANSI/UL 1740-2007): 1/26/2018

ANSI/UL 1740-2018, Standard for Safety for Robots and Robotic Equipment (revision of ANSI/UL 1740-2007): 1/26/2018

VC (ASC Z80) (The Vision Council)

Revision

- * ANSI Z80.3-2018, Nonprescription Sunglass and Fashion Eyewear Requirements (revision of ANSI Z80.3-2015): 2/14/2018

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.

AAFS (American Academy of Forensic Sciences)

Contact: *Teresa Ambrosius, (719) 453-1036, tambrosius@aafs.org*

BSR/ASB Std 044-201x, Standard for the Examination of Documents for Indentations (new standard)

Stakeholders: Forensic document examiners evaluating of indentations on documents.

Project Need: Forensic document examination frequently entails the examination of documents for indented writing and other impressions. At this time, there are no other active standards on this topic.

This standard summarizes commonly accepted techniques, technologies, and procedures in examinations of indentations found on paper and other writing or printing media.

BSR/ASB Std 057-201x, Standard for the Scope and Sensitivity of Forensic Toxicological Testing (new standard)

Stakeholders: Forensic toxicology laboratories.

Project Need: This standard will ensure that laboratories that perform forensic toxicology testing related to DUI/DUID, DFC, and MDI are capable of identifying a minimum listing of analytes. Standardization will ensure consistent, reliable reporting in these cases which will allow for the comparison of results across all forensic toxicology laboratories. It will also allow for the tracking and trending of drug use which will lead to improved response measures for stakeholders (law enforcement, health care systems)

This document defines the minimum scope and sensitivity for forensic toxicology laboratory casework. The document identifies the analytes for which a forensic toxicology laboratory shall possess validated methods. Such methods are based on the scope of testing and the sensitivity (or minimum performance limits) for which these analytes must be tested. This document is limited to the testing of biological samples in forensic cases involving driving-under-the-influence of drugs (DUI/DUID), drug-facilitated crimes (DFC), and medicolegal death investigations (MDI).

APA (APA - The Engineered Wood Association)

Contact: *Borjen Yeh, (253) 620-7467, borjen.yeh@apawood.org*

BSR/APA PRG 320-201x, Standard for Performance-Rated Cross-Laminated Timber (revision of ANSI/APA PRG 320-2018)

Stakeholders: Cross-laminated timber manufacturers, distributors, designers, users, building code regulators, and government agencies.

Project Need: Update the existing standard.

Update the existing standard to include Structural Composite Lumber and revise the existing standard on glue-bond durability requirements.

API (American Petroleum Institute)

Contact: *Benjamin Coco, (202) 682-8056, cocob@api.org*

BSR/API RP 2EQ/ISO 19901-2-2004-201x, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 2: Seismic design procedures and criteria (addenda to ANSI/API Recommended Practice 2EQ-2014)

Stakeholders: Oil and gas operating companies.

Project Need: Update seismic maps for improved design practices along designated offshore regional areas around the world.

This standard contains requirements for defining the seismic design procedures and criteria for offshore structures. The requirements are applicable to fixed steel structures and fixed concrete structures. The effects of seismic events on floating structures and partially buoyant structures are also briefly discussed. The site-specific assessment of jack-ups in elevated condition is only covered to the extent that the requirements are applicable. Only earthquake-induced ground motions are addressed in detail. Other geologically induced hazards such as liquefaction, slope instability, faults, tsunamis, mud volcanoes, and shock waves are mentioned and briefly discussed. For high-seismic areas and/or high-exposure-level fixed structures, a site-specific seismic hazard assessment is required; for such cases, the procedures and requirements for a site-specific probabilistic seismic hazard analysis (PSHA) are addressed. However, a thorough explanation of PSHA procedures is not included. Where a simplified design approach is allowed, worldwide offshore maps are included in Annex B that show the intensity of ground shaking corresponding to a return period of 1000 years. In such cases, these maps may be used with corresponding scale factors to determine appropriate seismic actions for the design of a structure.

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

Contact: *Tanisha Meyers-Lisle, (678) 539-1111, tmlisle@ashrae.org*

BSR/ASHRAE Standard 30-201x, Method of Testing Liquid Chillers (revision of ANSI/ASHRAE Standard 30-2017)

Stakeholders: Manufacturers, testers, consumers, users of liquid-cooled refrigerant condensers.

Project Need: This standard will undergo revision.

The purpose of this standard is to prescribe methods of testing to measure the thermal capacity, energy efficiency, and water pressure drop of packaged liquid chiller equipment using a refrigerant vapor compression cycle.

ASQ (ASC Z1) (American Society for Quality)

Contact: *Julie Sharp, (800) 248-1946, standards@asq.org*

BSR/ASQ ISO 19011-201x, Guidelines for auditing management systems (identical national adoption of ISO 19011: 2018 and revision of ANSI/ISO/ASQ QE19011S-2008)

Stakeholders: Industry, academia, government, and general interest.

Project Need: Recent revision of ISO 19011 requires an update of the identical ANS.

Provides guidance on auditing management systems, including the principles of auditing, managing an audit program, and conducting management system audits, as well as guidance on the evaluation of competence of individuals involved in the audit process. These people may include the person(s) managing the audit program, auditors, and audit teams. It is applicable to all organizations that need to conduct internal or external audits of management systems or manage an audit program. The application of this document to other types of audits (including against criteria related to product services, contracts, supply chains) is possible, provided that special consideration is given to the specific competence needed.

ASSE (Safety) (American Society of Safety Engineers)

Contact: *Ovidiu Munteanu, (847) 232-2012, OMunteanu@ASSE.org*

BSR/ASSE Z359.3 -201X, Safety Requirements for Lanyards and Positioning Lanyards (revision of ANSI/ASSE Z359.3-2017)

Stakeholders: Occupational safety and health professionals and individuals working, managing, or addressing fall protection and fall arrest.

Project Need: Based upon the consensus of the members of the Z359 Committee and the ASSE leadership.

This standard establishes requirements for the performance, design, marking, qualification and verification testing and instructions for lanyards and positioning lanyards for users within the capacity range of 130 to 310 pounds (59 to 140 kg).

AWS (American Welding Society)

Contact: *Rakesh Gupta, (305) 443-9353, x 301, gupta@aws.org*

BSR/AWS A4.3-201x, Standard Methods for Determination of the Diffusible Hydrogen Content of Martensitic, Bainitic, and Ferritic Steel Weld Metal Produced by Arc Welding (new standard)

Stakeholders: Manufacturers and consumers of the welding filler metals including welding laboratories, welding consultants, and educational institutions.

Project Need: Manufacturers and consumers of welding filler metals needs the results of tests performed with the methods shown in this standard to minimize the defects in the welds.

A standard 25 x 12 x 80 mm test specimen and method of preparation are set forth, along with two standard methods of diffusible hydrogen analysis: mercury displacement and gas chromatography. The methods are suitable for shielded metal arc welding, gas metal arc welding, flux-cored arc welding, and submerged arc welding using welding conditions and electrodes given in several applicable American Welding Society filler metal specifications.

HL7 (Health Level Seven)

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

BSR/HL7 EHR FM FP ENCPRS, R1-201x, HL7 EHR-System Electronic Nutrition Care Process Record System (ENCPRS) Functional Profile, Release 1 (new standard)

Stakeholders: Clinical and public health laboratories, quality reporting agencies, regulatory agency, standards development organizations (SDOs), payers.

Project Need: Most electronic health record systems have limited functionality that supports the actions of a registered dietitian/nutritionist (RDN) in providing individual nutrition care. In most cases, nutrition documentation and data are designed at the facility level. Limitations in local resources, knowledge of systems design and nutrition best practices creates an inconsistent use of key data that should be interoperable and available for quality metrics reporting.

This project creates an Electronic Nutrition Care Process Record System (ENCPRS) Functional Profile based on the Electronic Health Record System Functional Model R2 (EHR-FM). It is a joint work effort between HL7 and the Academy of Nutrition and Dietetics. The intent is to develop a standard list of functions and criteria needed for full integration of both the Nutrition Care Process (NCP) and the representative terms from the electronic Nutrition Care Process Terminology (eNCPT), as represented by appropriately mapped SNOMED-CT, LOINC for nutrition care in EHRs. The NCP serves as a systematic approach to providing high-quality nutrition care. This standardization will encourage the acquisition of EHR systems by nutrition health providers and promote information interoperability between nutrition and food systems and other areas of healthcare.

HPS (ASC N13) (Health Physics Society)

Contact: Nancy Johnson, (703) 790-1745, nanjohns@verizon.net

BSR N13.63-201x, A Protocol for Radiation Monitoring of Solid Waste and Recycled Metal (new standard)

Stakeholders: Solid waste processors/disposal and metal recycle facilities, federal and state agencies with solid waste and radiation protection oversight, as well as medical facilities.

Project Need: There is no standard protocol for radiation monitoring at solid waste and metal recycle facilities, i.e., equipment, alarm set points, process flow when an alarm is triggered, survey procedures, waste handling, etc. Appropriate guidance is needed for facility operators and state and local authorities to ensure proper response, and to protect workers, the public, and environment.

This standard will provide appropriate guidance for monitoring radiation and radioactive materials at scrap metal and solid waste facilities (i.e., RCRA D landfills, incinerators, and transfer facilities). A comprehensive ANSI protocol document will describe: a facility Radiation Protection Action Plan, surveys to be performed, a graded response to alarms, RAM characterization, turn-back limits, instrumentation performance checks, staff training, records, management of the radioactive materials detected, rejection and shipment of scrap metal or solid waste with a proper federal DOT 'Special Permit,' personnel and public dose limits applied to such RAM, disposal options, liquid and air effluents monitoring, and other operation aspects.

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

BSR/IES RP-1-201x, Standard Practice for Office Lighting (revision of ANSI/IES RP-1-2013)

Stakeholders: Lighting designers, architects, engineers, general public, environmentalists, utilities.

Project Need: Revise ANSI/IES RP-1-13 to include Addendums A and B due to approaching Continuous Maintenance 5-year anniversary (April 2018). This will be a reaffirmation of ANSI/IES RP-1-13 with Addendums A and B.

For many people, the office is the environment where they spend the majority of their waking adult lives. The expectation is that the time spent in the office will be useful and productive, and that the physical environment will be healthy. The design of the office greatly influences how well the space meets the needs of the workers and their organization. Lighting is a critical element of the design that may enhance or degrade the work experience and affect the well-being of the workers. Beyond supporting worker performance, lighting may also affect the bottom line of the organization by making the best use possible of materials and electricity.

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

Contact: Deborah Spittle, (202) 737-8888, comments@standards.incits.org

INCITS/ISO/IEC 20000-2:2012 [201x], Information technology - Service management - Part 2: Guidance on the application of service management systems (identical national adoption of ISO/IEC 20000-2:2012)

Stakeholders: ICT industry.

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

Provides guidance on the application of service management systems (SMS) based on the requirements in ISO/IEC 20000-1. Enables organizations and individuals to interpret ISO/IEC 20000-1 more accurately, and therefore to use it more effectively. The guidance includes examples and suggestions to enable organizations to interpret and apply ISO/IEC 20000-1, including references to other parts of ISO/IEC 20000 and other relevant standards. This includes guidance on the use of an SMS for the planning, design, transition, delivery, and improvement of the SMS and services. At a minimum, this includes service management policies, objectives, plans, service management processes, process interfaces, documentation, and resources. The SMS provides ongoing control, greater effectiveness, efficiency, and opportunities for continual improvement of service management and of services. It enables an organization to work effectively with a shared vision.

INCITS/ISO/IEC 20000-3:2012 [201x], Information technology - Service management - Part 3: Guidance on scope definition and applicability of ISO/IEC 20000-1 (identical national adoption of ISO/IEC 20000-3:2012)

Stakeholders: ICT industry.

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

Useful for service providers, consultants, and assessors. It includes practical guidance on scope definition, applicability, and demonstration of conformity to the requirements in ISO/IEC 20000-1. Guidance on the different types of conformity assessment and assessment standards is included. Although the requirements in ISO/IEC 20000-1 do not change with organizational structure, technology, or service, operating the processes in a particular service environment will result in specific skill, tool, and information requirements. Service management processes can cross many organizational, legal, and national boundaries as well as different time zones. Service providers can provide a range of services to several different types of customers, both internal and external. Service providers can also depend on a complex supply chain for the delivery of services. This dependency can make the agreement and application of scope a complex stage in the service provider's use of ISO/IEC 20000-1.

INCITS/ISO/IEC 30105-1:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 1: Process reference model (PRM) (identical national adoption of ISO/IEC 30105-1:2016)

Stakeholders: ICT industry.

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

Specifies the lifecycle process requirements performed by the IT-enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain, and improve its services. This document covers IT-enabled business processes that are outsourced; is not intended to address IT processes but includes references to them at key touchpoints for completeness; is applicable to the service provider, not to the customer; is applicable to all lifecycle processes of ITES-BPO; and serves as a process reference model for organizations providing ITES-BPO services.

INCITS/ISO/IEC 30105-2:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 2: Process assessment model (PAM) (identical national adoption of ISO/IEC 30105-2:2016)

Stakeholders: ICT industry.

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

Specifies the lifecycle process requirements performed by the IT-enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain, and improve its services. This document covers IT-enabled business processes that are outsourced; is not intended to cover IT services but includes similar, relevant process for completeness; is applicable to the service provider, not to the customer; is applicable to all lifecycle processes of ITES-BPO; serves as a process assessment model for organizations providing ITES-BPO services that: conform to the requirements of ISO/IEC 33004; support the performance assessment by providing indicators for the interpretation of the process purposes and outcomes, as defined in ISO/IEC 24774, and the process attributes, as defined in ISO/IEC 33020.

INCITS/ISO/IEC 30105-3:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 3: Measurement framework (MF) and organization maturity model (OMM) (identical national adoption of ISO/IEC 30105-3:2016)

Stakeholders: ICT industry.

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

Specifies the lifecycle process requirements performed by the IT-enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain, and improve its services. This document covers IT-enabled business processes that are outsourced; is not intended to cover IT services but includes similar, relevant process for completeness; is applicable to the service provider, not to the customer; is applicable to all lifecycle processes of ITES-BPO; serves as a measurement framework for processes and provide an organization maturity model for organizations providing ITES-BPO services that: conform to the requirements of ISO/IEC 33003 and ISO/IEC 33004; support the performance assessment by providing a framework to measure and derive capability and organization maturity levels.

INCITS/ISO/IEC 30105-4:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 4: Terms and concepts (identical national adoption of ISO/IEC 30105-4:2016)

Stakeholders: ICT industry.

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

Specifies the lifecycle process requirements performed by the IT-enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain and improve its services. This document covers IT-enabled business processes that are outsourced; is not intended to cover IT services but includes similar, relevant process for completeness; is applicable to the service provider, not to the customer; is applicable to all lifecycle processes of ITES-BPO; defines terms and concepts used in ISO/IEC 30105.

INCITS/ISO/IEC 30105-5:2016 [201x], Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 5: Guidelines (identical national adoption of ISO/IEC 30105-5:2016)

Stakeholders: ICT industry.

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

Specifies the lifecycle process requirements performed by the IT-enabled business process outsourcing service provider for the outsourced business processes. It defines the processes to plan, establish, implement, operate, monitor, review, maintain and improve its services. This document covers IT enabled business processes that are outsourced; is not intended to cover IT services but includes similar, relevant process for completeness; is applicable to the service provider, not to the customer; is applicable to all lifecycle processes of ITES-BPO; provides guidance on application of the process assessment model, how to strategically leverage the assessment and to use it in the context of an improvement program or risk assessment for an ITES-BPO service provider organization.

NFPA (National Fire Protection Association)

Contact: Dawn Michele Bellis, (617) 984-7246, dbellis@nfpa.org

BSR/NFPA 1-201x, Fire Code (revision of ANSI/NFPA 1-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

NFPA 1, Fire Code, advances fire and life safety for the public and first responders as well as property protection by providing a comprehensive, integrated approach to fire-code regulation and hazard management. It addresses all the bases with extracts from and references to more than 130 NFPA® codes and standards including such industry benchmarks as NFPA 101, NFPA 54, NFPA 58, NFPA 30, NFPA 13, NFPA 25, and NFPA 72.

BSR/NFPA 3-201x, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard shall provide the required procedures, methods, and documentation for the commissioning of active and passive fire-protection and life-safety systems and their interconnections with other building systems.

BSR/NFPA 4-201x, Standard for Integrated Fire Protection and Life Safety System Testing (revision of ANSI/NFPA 4-2018)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

The standard shall provide the minimum requirements for testing of integrated fire-protection and life-safety systems.

BSR/NFPA 30-201x, Flammable and Combustible Liquids Code (revision of ANSI/NFPA 30-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This code shall apply to the storage, handling, and use of flammable and combustible liquids, including waste liquids, as defined and classified in this standard.

BSR/NFPA 30A-201x, Code for Motor Fuel Dispensing Facilities and Repair Garages (revision of ANSI/NFPA 30A-2014)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This code shall apply to motor-fuel dispensing facilities, motor-fuel dispensing at farms and isolated construction sites, and on-demand mobile fueling. This code shall apply to motor vehicle repair garages. This code shall not apply to those motor-fuel dispensing facilities where only liquefied petroleum gas (LP-Gas), liquefied natural gas (LNG), compressed natural gas (CNG), or hydrogen is dispensed as motor fuel. This code shall not apply to aircraft fueling.

BSR/NFPA 37-201x, Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines (revision of ANSI/NFPA 37-2014)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard establishes criteria for minimizing the hazards of fire during the installation and operation of stationary combustion engines and gas turbines.

BSR/NFPA 54-201x, National Fuel Gas Code (revision of ANSI/NFPA 54-2018)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

Provides minimum safety requirements for the design and installation of fuel-gas piping systems in homes and other buildings.

BSR/NFPA 59-201x, Utility LP-Gas Plant Code (revision of ANSI/NFPA 59-2014)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This code shall apply to the design, construction, location, installation, operation, and maintenance of refrigerated and nonrefrigerated utility gas plants including LP-gas containers, piping, and associated process equipment, and controls and fire protection. Coverage begins at: (A) The point of transfer when delivery is by cargo tank vehicle or railcar; (B) The liquid inlet isolation valve located downstream of hazardous liquid pipeline under the jurisdiction of 49 CFR 195, "Transportation of Hazardous Liquids by Pipeline"; (C) Coverage shall extend to the point where LP-Gas vapor or a mixture of LP-Gas vapor and air is introduced into the utility distribution system under the jurisdiction of 49 CFR 192, "Transportation of Natural and Other Gas by Pipeline: Minimum Federal Safety Standards." Installations that have an aggregate water capacity of 4000 gal (15.14 m³) or less shall conform to NFPA 58.

BSR/NFPA 70E-201x, Standard for Electrical Safety in the Workplace (revision of ANSI/NFPA 70E-2014)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This article contains only those definitions essential to the proper application of this standard. It is not intended to include commonly defined general terms or commonly defined technical terms from related codes and standards. In general, only those terms that are used in two or more articles are defined in Article 100. Other definitions are included in the article in which they are used but may be referenced in Article 100. The definitions in this article shall apply wherever the terms are used throughout this standard.

BSR/NFPA 87-201x, Standard for Fluid Heaters (revision of ANSI/NFPA 87-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This recommended practice provides safety guidance for fluid heaters and related equipment to minimize fire and explosion hazards that can endanger the fluid heater, the building, or personnel

BSR/NFPA 90A-201x, Standard for the Installation of Air-Conditioning and Ventilating Systems (revision of ANSI/NFPA 90A-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard shall cover construction, installation, operation, and maintenance of systems for air conditioning and ventilating, including filters, ducts, and related equipment, to protect life and property from fire, smoke, and gases resulting from fire or from conditions having manifestations similar to fire.

BSR/NFPA 90B-201x, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (revision of ANSI/NFPA 90B-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard shall cover construction, installation, operation, and maintenance of systems for warm-air heating and air conditioning, including filters, ducts, and related equipment to protect life and property from fire, smoke, and gases resulting from fire or from conditions having manifestations similar to fire.

BSR/NFPA 99-201x, Health Care Facilities Code (revision of ANSI/NFPA 99-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

Establishes criteria for levels of health care services or systems based on risk to the patients, staff, or visitors in health care facilities to minimize the hazards of fire, explosion, and electricity.

BSR/NFPA 99B-201x, Standard for Hypobaric Facilities (revision of ANSI/NFPA 99B-2010)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard shall apply to all hypobaric facilities in which humans will be occupants or are intended to be occupants of the hypobaric chamber. This standard shall not apply to hypobaric facilities used for animal experimentation if the size of the hypobaric chamber does not allow for human occupancy.

BSR/NFPA 101-201x, Life Safety Code (revision of ANSI/NFPA 101-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

The Life Safety Code is the most widely used source for strategies to protect people based on building construction, protection, and occupancy features that minimize the effects of fire and related hazards. Unique in the field, it is the only document that covers life safety in both new and existing structures

BSR/NFPA 220-201x, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard defines types of building construction based on the combustibility and the fire-resistance rating of a building's structural elements. Fire walls, nonbearing exterior walls, nonbearing interior partitions, fire barrier walls, shaft enclosures, and openings in walls, partitions, floors, and roofs are not related to the types of building construction and are regulated by other standards and codes, where appropriate.

BSR/NFPA 221-201x, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard specifies requirements for the design and construction of high-challenge fire walls, fire walls, and fire barrier walls including protection of openings and penetrations.

BSR/NFPA 318-201x, Standard for the Protection of Semiconductor Fabrication Facilities (revision of ANSI/NFPA 318-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard applies to semiconductor fabrication facilities and comparable fabrication processes, including research and development areas in which hazardous chemicals are used, stored, and handled and containing what is defined in this standard as a cleanroom or clean zone, or both.

BSR/NFPA 703-201x, Standard for Fire Retardant Treated Wood and Fire Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2014)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard provides criteria for defining and identifying fire-retardant-treated wood and fire-retardant-coated building materials.

BSR/NFPA 790-201x, Standard for Competency of Third-Party Field Evaluation Bodies (revision of ANSI/NFPA 790-2013)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

The provisions of this standard shall address requirements for the qualification and competency of a body performing field evaluations on electrical products and assemblies with electrical components. These requirements are based on ISO/IEC Guide 65 and ISO/IEC 17020 with adaptation for the unique characteristics of field evaluations. A field evaluation body (FEB) meeting the requirements of this standard shall be considered competent to perform field evaluations. These requirements shall apply to both the initial and continued competency of FEBs.

BSR/NFPA 791-201x, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation (revision of ANSI/NFPA 791-2013)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This document covers recommended procedures for evaluating unlabeled electrical equipment in conjunction with the applicable nationally recognized standard(s) and any requirements of the authority having jurisdiction (AHJ). This document does not cover procedures for evaluations relating to product certification systems that result in listed and labeled products.

BSR/NFPA 1192-201x, Standard on Recreational Vehicles (revision of ANSI/NFPA 1192-2011)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard shall cover fire and life safety criteria for recreational vehicles.

BSR/NFPA 1801-201x, Standard on Thermal Imagers for the Fire Service (revision of ANSI/NFPA 1801-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

This standard contains requirements for new thermal imagers used by fire-service personnel during emergency incident operations.

BSR/NFPA 5000-201x, Building Construction and Safety Code (revision of ANSI/NFPA 5000-2012)

Stakeholders: Consumers, enforcers, installers/maintainers, insurance, manufacturers, research and testing, special experts, users.

Project Need: Public interest and need.

The Code does not address features that solely affect economic loss to private property. The Code addresses those construction, protection, and occupancy features necessary to minimize danger to life and property. The provisions of this document shall constitute and be known as NFPA 5000, referred to in this standard as "this Code" or "the Code."

PLATO (Portable Lights American Trade Organization)

Contact: David Delaquila, (330) 469-2727, daviddequila@gmail.com

BSR/PLATO FL 1-201x, Flashlight Basic Performance Standard (revision of ANSI/PLATO FL 1-2016)

Stakeholders: Manufacturers, consumers and retailers.

Project Need: This project will consider expanding the scope to include portable area lights in addition to directional lighting, as well as any relevant updates needed for test methods and a five-year revision cycle of the standard.

The ANSI/PLATO FL1 standard covers basic performance requirements for hand-held, portable flashlights, spotlights, and headlamps that provide directional lighting. It includes relevant definitions, test methods, and marking requirements in order to establish minimum performance for these consumer devices.

TAPPI (Technical Association of the Pulp and Paper Industry)

Contact: Laurence Womack, (770) 209-7276, standards@tappi.org

BSR/TAPPI T 512 sp-2012 (R201x), Creasing of flexible packaging material paper specimens for testing (reaffirmation of ANSI/TAPPI T 512 sp-2012)

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

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to determine if a revision is needed to address new technology or correct errors.

This standard practice describes a creasing procedure for tests requiring creased specimens of flexible packaging materials made of paper or paper-based materials. In most instances, it is advantageous to compare the results of the creased specimens with those of uncreased specimens. This standard practice is not applicable to board grades (those exceeding 0.25 mm [0.01 in.] in thickness).

BSR/TAPPI T 551 om-2012 (R201x), Thickness of paper and paperboard (soft platen method) (reaffirmation of ANSI/TAPPI T 551 om-2012)

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

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to determine if a revision is needed to address new technology or correct errors.

This method describes a procedure for measuring the thickness of a single sheet of paper or paperboard using soft synthetic rubber platens against the paper to minimize the effect of surface roughness. This method is not to be confused with nor substituted for TAPPI T 411 "Thickness (Caliper) of Paper and Paperboard and Combined Board." It is to be used primarily for sheet density calculations. Because of the relatively high pressure (50 kPa), this method may not be suitable for measurement of tissue or other soft or low-density materials, because the structure may collapse at the prescribed pressure of 50 kPa (7.2 psi).

TIA (Telecommunications Industry Association)

Contact: *Teesha Jenkins, (703) 907-7706, standards@tiaonline.org*

BSR/TIA 920.120-C-201x, Telecommunications - Communications Products - Transmission Requirements for Digital Interface Communications Devices with Speakerphone (revision and redesignation of ANSI/TIA 920.120-B-2017)

Stakeholders: Manufacturers, test labs, specifiers, and users of digital telephones and other communications devices providing voice transmission, regardless of protocol or digital format. Specifiers may include retail equipment buyers, enterprise and government procurement officers, etc.

Project Need: Update standard.

This standard establishes transmission performance requirements for speakerphone devices that function as narrowband (300 to 3400 Hz) or wideband (100 to 7000 Hz) digital interface communications devices, or both. Transmission may be over any digital interface including Local or Wide Area Networks, Firewire/IEEE Std 1394, Universal Serial Bus (USB), public ISDN or digital over twisted pair wire. This includes TDM-based and packet-based (e.g., VoIP) devices. These devices may be connected through modems, voice gateways, wireless access points, or PBXs, or they may be personal-computer-based communications devices. Examples include, but are not limited to: Cordless handsets in speakerphone mode, ISDN telephones, digital proprietary telephones, VoIP telephones (corded and cordless), softphones running on personal computers, IEEE Std 802.11 communications devices, USB communications devices, DECT (CAT-iq) telephones, Bluetooth® communications devices, and HD (High-Definition) voice communications devices. Some communications systems consist of a host (such as a laptop computer) with an interface for a Universal Serial Bus (USB) or radio-linked device. If the host device is assumed to have a 0-dB loss plan in its default state, then the relevant clauses of this standard are directly applicable to the USB or radio-linked device. If the host system provides gain or loss in the send path, receive path, or both, then the relevant clauses of this standard apply to the composite system. This revision will re-introduce the use of send and receive loudness ratings (SLR and RLR) as alternatives to send and receive level measurements. However, all receive testing is performed using the nominal volume control settings based on output level.

UL (Underwriters Laboratories, Inc.)

Contact: *Griff Edwards, 919 549-0956, griff.edwards@ul.com*

BSR/UL 889-201x, Standard for Safety for Residential Home Design and Construction Process Utilizing Digital Technology (new standard)

Stakeholders: Insurers, home builders, contractors, homeowners, building materials manufacturers.

Project Need: To obtain national recognition of a standard covering residential home design and construction process utilizing digital technology.

This would be a process standard that details the approach towards designing and constructing a residential home by leveraging digital technology such as 3D modeling, cloud-based supply chain, labor, and project management. The document will act as a standard of care for builders and provide an established set of criteria to educate a home buyer on what to expect as a result of the home building process. The outcome of using such a standard will result in a measurable level of quality.

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.

<p>AAFS American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 Phone: (719) 453-1036 Web: www.aafs.org</p>	<p>ASC X9 Accredited Standards Committee X9, Incorporated 275 West Street Suite 107 Annapolis, MD 21401 Phone: (410) 267-7707 Web: www.x9.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-7603 Web: www.awwa.org</p>	<p>HPS (ASC N13) Health Physics Society 1313 Dolley Madison Blvd #402 McLean, VA 22101 Phone: (703) 790-1745 Fax: (703) 790-2672 Web: www.hps.org</p>
<p>AAMI Association for the Advancement of Medical Instrumentation 4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 253-8274 Fax: (703) 276-0793 Web: www.aami.org</p>	<p>ASCE American Society of Civil Engineers 1801 Alexander Bell Dr Reston, VA 20191 Phone: 703-295-6176 Web: www.asce.org</p>	<p>BICSI Building Industry Consulting Service International 8610 Hidden River Parkway Tampa, FL 33637 Phone: (813) 903-4712 Fax: (813) 971-4311 Web: www.bicsi.org</p>	<p>IES Illuminating Engineering Society 120 Wall St. 17th Floor New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>
<p>ABYC American Boat and Yacht Council 613 Third Street, Ste. 10 Annapolis, MD 21403 Phone: (410) 990-4460 ext. 115 Fax: (410) 990-4466 Web: www.abycinc.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (678) 539-1111 Fax: (678) 539-2111 Web: www.ashrae.org</p>	<p>CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Fax: (703) 907-4197 Web: www.cta.tech</p>	<p>ISA (Organization) International Society of Automation 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9213 Fax: (919) 549-8288 Web: www.isa.org</p>
<p>AGA (ASC Z380) American Gas Association 400 North Capitol Street, NW Washington, DC 20001 Phone: (202) 824-7183 Web: www.aga.org</p>	<p>ASME American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 Phone: (212) 591-8521 Fax: (212) 591-8501 Web: www.asme.org</p>	<p>ECIA Electronic Components Industry Association 2214 Rock Hill Road Suite 265 Herndon, VA 20170-4212 Phone: (571) 323-0294 Fax: (571) 323-0245 Web: www.ecianow.org</p>	<p>ITI (INCITS) InterNational Committee for Information Technology Standards 1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 626-5737 Fax: (202) 638-4922 Web: www.incits.org</p>
<p>APA APA - The Engineered Wood Association 7011 South 19th Street Tacoma, WA 98466 Phone: (253) 620-7467 Fax: (253) 565-7265 Web: www.apawood.org</p>	<p>ASQ (ASC Z1) American Society for Quality 600 N Plankinton Ave Milwaukee, WI 53203 Phone: (800) 248-1946 Web: www.asq.org</p>	<p>EOS/ESD ESD Association 7900 Turin Rd., Bldg. 3 Rome, NY 13440 Phone: (315) 339-6937 Fax: (315) 339-6793 Web: www.esda.org</p>	<p>ITSDF Industrial Truck Standards Development Foundation, Inc. 1750 K Street NW Suite 460 Washington, DC 20006 Phone: (202) 296-9880 Fax: (202) 296-9884 Web: www.indtrk.org</p>
<p>API American Petroleum Institute 1220 L Street, NW Washington, DC 20005-4070 Phone: (202) 682-8056 Fax: (202) 682-8051 Web: www.api.org</p>	<p>ASSE (Safety) American Society of Safety Engineers 520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 232-2012 Fax: (847) 699-2929 Web: www.asse.org</p>	<p>ESTA Entertainment Services and Technology Association 630 Ninth Avenue Suite 609 New York, NY 10036-3748 Phone: (212) 244-1505 Fax: (212) 244-1502 Web: www.esta.org</p>	<p>NEMA (ASC C12) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3227 Fax: (703) 841-3327 Web: www.nema.org</p>
<p>ASABE American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7027 Fax: (269) 429-3852 Web: www.asabe.org</p>	<p>AWS American Welding Society 8669 NW 36th Street # 130 Miami, FL 33166 Phone: (305) 443-9353, x 301 Fax: (305) 443-5951 Web: www.aws.org</p>	<p>HL7 Health Level Seven 3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Fax: (734) 677-6622 Web: www.hl7.org</p>	<p>NEMA (ASC C78) National Electrical Manufacturers Association 1300 N 17th St Rosslyn, VA 22209 Phone: 703-841-3262 Web: www.nema.org</p>

NFPA

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

NSF

NSF International
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 418-6660
Web: www.nsf.org

PLATO

Portable Lights American Trade
Organization
Phone: (330) 469-2727
Web: www.plato-usa.org

SCTE

Society of Cable Telecommunications
Engineers
140 Philips Road
Exton, PA 19341-1318
Phone: (484) 252-2330
Web: www.scte.org

TAPPI

Technical Association of the Pulp and
Paper Industry
15 Technology Parkway South
Peachtree Corners, GA 30092
Phone: (770) 209-7276
Fax: (770) 446-6947
Web: www.tappi.org

TIA

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1320 North Courthouse Road
Suite 200
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Web: www.tiaonline.org

UL

Underwriters Laboratories, Inc.
12 Laboratory Drive
Research Triangle Park, NC 27709
-3995
Phone: 919 549-0956
Web: www.ul.com

VC (ASC Z80)

The Vision Council of North America
225 Reinekers Lane
Alexandria, VA 22314
Phone: 585-387-9913
Web: www.z80asc.com

VITA

VMEbus International Trade
Association (VITA)
929 W. Portobello Avenue
Mesa, AZ 85210
Phone: (602) 281-4497
Web: www.vita.com



ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on IEC documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

Ordering Instructions

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

ISO Standards

ADDITIVE MANUFACTURING (TC 261)

ISO/ASTM DIS 52907, Additive manufacturing - Technical specifications on metal powders - 5/3/2018, \$77.00

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 20613, Sensory Analysis - General guidance for the application of sensory analysis in quality control - 3/4/2018, \$58.00

ISO/DIS 22117, Microbiology of the food chain - Specific requirements and guidance for proficiency testing by interlaboratory comparison - 3/3/2018, \$98.00

AIR QUALITY (TC 146)

ISO/DIS 17735, Workplace atmospheres - Determination of total isocyanate groups in air using 1-(9-anthracenylmethyl)piperazine (MAP) reagent and liquid chromatography - 3/11/2018, \$98.00

ISO/DIS 21877, Stationary source emissions- Determination of the mass concentration of ammonia in flue gas - Manual method - 4/30/2018, \$112.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 11076, Aircraft - De-icing/anti-icing methods on the ground - 3/1/2018, \$40.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 7870-7, Control charts - Part 7: Multivariate control charts - 4/29/2018, \$93.00

BUILDING ENVIRONMENT DESIGN (TC 205)

ISO/DIS 22510, Open data communication in building automation, controls and building management - Home and building electronic systems - KNXnet/IP communication - 4/29/2018, \$215.00

CAST IRON AND PIG IRON (TC 25)

ISO/DIS 945-4, Microstructure of cast irons - Part 4: Test method for evaluating nodularity in spheroidal graphite cast irons - 3/1/2018, \$82.00

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

ISO/DIS 20916, In vitro diagnostic medical devices - Clinical performance studies using specimens from human subjects - Good study practice - 3/4/2018, \$134.00

DENTISTRY (TC 106)

ISO/DIS 22457, Dentistry - Designation system for supernumerary teeth - 4/30/2018, \$40.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 20338, Oxygen reduction systems for fire prevention - Design, installation, planning and maintenance - 5/3/2018, \$88.00

ERGONOMICS (TC 159)

ISO/DIS 7933, Ergonomics of the thermal environment - Analytical determination and interpretation of heat stress using the predicted heat strain model - 5/7/2018, \$107.00

FERTILIZERS AND SOIL CONDITIONERS (TC 134)

ISO/DIS 20978, Liming material - Determination of neutralizing value - Titrimetric methods - 5/3/2018, \$67.00

FIRE SAFETY (TC 92)

ISO/DIS 3008-1, Fire resistance tests - Part 1: General requirements for door and shutter assemblies - 5/6/2018, \$125.00

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 2942, Hydraulic fluid power - Filter elements - Verification of fabrication integrity and determination of the first bubble point - 3/11/2018, \$58.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19111, Geographic information - Referencing by coordinates - 5/3/2018, \$185.00

HEALTH INFORMATICS (TC 215)

IEC/DIS 62304, Health software - Software life cycle processes, \$155.00

HYDROGEN ENERGY TECHNOLOGIES (TC 197)

ISO/DIS 19884, Gaseous hydrogen - Cylinders and tubes for stationary storage - 3/12/2018, \$134.00

IMPLANTS FOR SURGERY (TC 150)

ISO/DIS 22622, Implants for surgery - Wear of total ankle-joint prostheses - Loading and displacement parameters for wear-testing machines with load or displacement control and corresponding environmental conditions for test - 3/5/2018, \$82.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 20140-3, Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 3: Environmental performance evaluation data aggregation process - 3/2/2018, \$46.00

ISO/DIS 10303-235, Industrial automation systems and integration - Product data representation and exchange - Part 235: Application protocol: Engineering properties for product design and verification - 5/3/2018, \$301.00

INDUSTRIAL TRUCKS (TC 110)

ISO/DIS 3691-4, Industrial trucks - Safety requirements and verification - Part 4: Driverless industrial trucks and their systems - 4/29/2018, \$119.00

INFORMATION AND DOCUMENTATION (TC 46)

ISO/DIS 21248, Information and documentation - Quality assessment for national libraries - 5/3/2018, \$175.00

ISO/DIS 30301, Information and documentation - Management systems for records - Requirements - 5/3/2018, \$67.00

LEATHER (TC 120)

ISO/DIS 11457, Leather - Grading of wet blue goat and sheep skins based on defects - 3/3/2018, \$46.00

MACHINE TOOLS (TC 39)

ISO/DIS 19085-11, Woodworking machines - Safety - Part 11: Combined machines - 4/29/2018, \$107.00

ISO/DIS 19085-15, Woodworking machines - Safety - Part 15: Presses - 4/29/2018, \$112.00

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

ISO/DIS 23251, Petroleum, petrochemical and natural gas industries - Pressure-relieving and depressuring systems - 11/5/2006, \$46.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 5982, Mechanical vibration and shock - Range of idealized values to characterize human biodynamic response under whole-body vibration - 5/3/2018, \$125.00

ISO/DIS 18434-2, Condition monitoring and diagnostics of machines systems - Thermography - Part 2: Image interpretation and diagnostics - 5/3/2018, \$98.00

ISO/DIS 21940-1, Mechanical vibration - Rotor balancing - Part 1: Guidelines on the use and application of balancing standards - 5/6/2018, \$98.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 11482, Statistical guidelines for the estimation of sampling plans for uranium and plutonium oxide powders - 4/29/2018, \$107.00

ISO/DIS 21391, Nuclear criticality safety - Geometrical nuclear criticality safety dimensions - 4/30/2018, \$62.00

ISO/DIS 28057, Clinical dosimetry - Dosimetry with solid thermoluminescence detectors for photon and electron radiations in radiotherapy - 3/5/2018, \$112.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 374-2, Protective gloves against dangerous chemicals and micro-organisms - Part 2: Determination of resistance to penetration - 3/2/2018, \$40.00

ISO/DIS 374-4, Protective gloves against chemicals and micro-organisms - Part 4: Determination of resistance to degradation by chemicals - 3/2/2018, \$53.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 3015, Petroleum and related products from natural or synthetic sources - Determination of cloud point - 4/29/2018, \$53.00

ISO/DIS 3016, Petroleum and related products from natural or synthetic sources - Determination of pour point - 4/29/2018, \$53.00

PHOTOGRAPHY (TC 42)

ISO/DIS 18948, Imaging materials - Photo books - Test methods for permanence and durability - 3/11/2018, \$107.00

PLASTICS (TC 61)

ISO/DIS 16770, Plastics - Determination of environmental stress cracking (ESC) of polyethylene - Full-notch creep test (FNCT) - 3/11/2018, \$77.00

ISO/DIS 21257, Plastics - Polymer Polyols for use in the production of polyurethane - Determination of the residual acrylonitrile and styrene monomer content by gas chromatography - 4/30/2018, \$67.00

ISO/DIS 3451-1, Plastics - Determination of ash - Part 1: General methods - 4/29/2018, \$40.00

ISO/DIS 11907-1, Plastics - Smoke generation - Determination of the corrosivity of fire effluents - Part 1: General requirements and applicability - 4/30/2018, \$40.00

ISO/DIS 16014-1, Plastics - Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography - Part 1: General principles - 5/6/2018, \$71.00

ISO/DIS 16014-2, Plastics - Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography - Part 2: Universal calibration method - 5/6/2018, \$46.00

ISO/DIS 16014-3, Plastics - Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography - Part 3: Low-temperature method - 5/6/2018, \$71.00

ISO/DIS 16014-4, Plastics - Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography - Part 4: High-temperature method - 2/13/2018, \$67.00

ISO/DIS 16014-5, Plastics - Determination of average molecular weight and molecular weight distribution of polymers using size-exclusion chromatography - Part 5: Light-scattering method - 5/6/2018, \$88.00

ISO/DIS 19062-2, Plastics - Acrylonitrile-butadiene-styrene (ABS) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 3/5/2018, \$46.00

ISO/DIS 19065-2, Plastics - Acrylonitrile-styrene-acrylate (ASA), acrylonitrile-(ethylene-propylene-diene)-styrene (AEPDS) and acrylonitrile-(chlorinated polyethylene)-styrene (ACS) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 3/5/2018, \$46.00

ISO/DIS 21306-1, Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials - Part 1: Designation system and basis for specifications - 3/2/2018, \$40.00

ISO/DIS 21306-2, Plastics - Unplasticized poly(vinyl chloride) (PVC-U) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties - 3/2/2018, \$40.00

POWDER METALLURGY (TC 119)

ISO/DIS 3252, Powder metallurgy - Vocabulary - 4/29/2018, \$93.00

ISO/DIS 4489, Sintered hardmetals - Sampling and testing - 5/4/2018, \$33.00

ISO/DIS 4884, Hardmetals - Sampling and testing of powders using sintered test pieces - 5/4/2018, \$33.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

ISO/DIS 18091, Quality management systems - Guidelines for the application of ISO 9001 in local government - 3/4/2018, \$146.00

REFRIGERATION (TC 86)

ISO/DIS 22041, Refrigerated storage cabinets and counters for professional use - Performance and energy consumption - 5/3/2018, \$107.00

ROAD VEHICLES (TC 22)

ISO/DIS 4141-1, Road vehicles - Multi-core connecting cables - Part 1: Test methods and requirements for basic performance sheathed cables - 3/4/2018, \$58.00

ISO/DIS 4141-2, Road vehicles - Multi-core connecting cables - Part 2: Test methods and requirements for high performance sheathed cables - 3/4/2018, \$33.00

ISO/DIS 4141-3, Road vehicles - Multi-core connecting cables - Part 3: Construction, dimensions and marking of unscreened sheathed low-voltage cables - 3/4/2018, \$46.00

ISO/DIS 6621-5, Internal combustion engines - Piston rings - Part 5: Quality requirements - 3/11/2018, \$67.00

ISO/DIS 19072-4, Road vehicles - Connection interface for pyrotechnic devices, two-way and three-way connections - Part 4: Pyrotechnic device and harness connector assembly - type 2 - 3/4/2018, \$58.00

ISO/DIS 20766-6, Road vehicles - Liquefied petroleum gas (LPG) fuel systems components - Part 6: Pressure relief valves (PRV) - 5/3/2018, \$40.00

ISO/DIS 20766-9, Road vehicles - Liquefied petroleum gas (LPG) fuel systems components - Part 9: Pressure relieve device (PRD) - 5/3/2018, \$40.00

ISO/DIS 22241-2, Diesel engines - NOx reduction agent AUS 32 - Part 2: Test methods - 3/2/2018, \$125.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 2951, Rubber, vulcanized rubber - Determination of insulation resistance - 5/7/2018, \$58.00

ISO/DIS 14309, Rubber, vulcanized or thermoplastic - Determination of volume and/or surface resistivity - 4/29/2018, \$71.00

SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY SYSTEMS AND WASTEWATER SYSTEMS - QUALITY CRITERIA OF THE SERVICE AND PERFORMANCE INDICATORS (TC 224)

ISO/DIS 24516-2, Guidelines for the management of assets of water supply and wastewater systems - Part 2: Waterworks including treatment, pumping and storage 9 (also in the networks) - 3/3/2018, \$125.00

ISO/DIS 24516-4, Guidelines for the management of assets of water supply and wastewater systems - Part 4: Wastewater treatment plants (including pumping and sludge treatment) - 3/3/2018, \$134.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 25862, Ships and marine technology - Marine magnetic compasses, binnacles and azimuth reading devices - 3/3/2018, \$125.00

SOLAR ENERGY (TC 180)

ISO/DIS 22975-5, Solar energy - Collector components and materials - Part 5: Insulation material durability and performance - 5/5/2018, \$125.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

ISO 20957-9/DAMd1, Stationary training equipment - Part 9: Elliptical trainers, additional specific safety requirements and test methods - Amendment 1 - 3/10/2018, \$29.00

ISO/DIS 21853, Kite boarding - Release system - Safety requirements and test methods - 5/5/2018, \$62.00

STEEL (TC 17)

ISO/DIS 6930, High yield strength steel plates and wide flats for cold forming - Delivery conditions - 5/7/2018, \$62.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

ISO/DIS 37104, Sustainable development in communities - Guidance for practical implementation in cities - 4/30/2018, \$125.00

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

ISO/DIS 10542-1, Technical systems and aids for disabled or handicapped persons - Wheelchair tiedown and occupant-restraint systems - Part 1: Requirements and test methods for all systems - 12/8/2027, \$155.00

TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

ISO/DIS 22259, Conference systems - Equipment - Requirements - 3/10/2018, \$98.00

ISO/DIS 24613-1, Language resource management - Lexical markup framework (LMF) - Part 1: Core model - 3/3/2018, \$62.00

TEXTILES (TC 38)

ISO/DIS 18254-2, Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 2: Method using NPLC - 4/30/2018, \$67.00

ISO/DIS 18692-2, Fibre ropes for offshore stationkeeping - Part 2: Polyester - 3/4/2018, \$46.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 11783-2, Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 2: Physical layer - 3/11/2018, \$134.00

ISO/DIS 11783-12, Tractors and machinery for agriculture and forestry
- Serial control and communications data network - Part 12:
Diagnostics services - 4/30/2018, \$102.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 21314, Traditional Chinese medicine - Salvia miltiorrhiza root
and rhizome - 3/4/2018, \$71.00

ISO/DIS 21366, Traditional Chinese medicine - General requirements
for smokeless moxibustion devices - 5/3/2018, \$71.00

TYRES, RIMS AND VALVES (TC 31)

ISO/DIS 4251-1, Code designated diagonal tyres (ply rating marked
series) for agricultural tractors, trailers and machines - Part 1: Tyre
designation and dimensions, and approved rim contours - 5/7/2018,
\$77.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 6947, Welding and allied processes - Welding positions -
4/29/2018, \$77.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 23003-3/DAMd4, Information technology - MPEG audio
technologies - Part 3: Unified speech and audio coding -
Amendment 4: USAC stream ID, MP4FF groups, reference software
and conformance - 5/6/2018, \$125.00

ISO/IEC 23008-3/DAMd5, Information technology - High efficiency
coding and media delivery in heterogeneous environments - Part 3:
3D audio - Amendment 5: Audio metadata enhancements -
5/6/2018, \$67.00

ISO/IEC 23000-19/DAMd2, Information technology - Multimedia
application format (MPEG-A) - Part 19: Common media application
format (CMAF) for segmented media - Amendment 2: XHE-AAC
and other media profiles - 5/6/2018, \$40.00

ISO/IEC DIS 19770-8, Information technology - IT asset management
- Part 8: Part 8: Guidelines for mapping of industry practices to/from
the ISO/IEC 19770 family of standards - 5/3/2018, \$62.00

IEC Standards

13/1761/CD, IEC 62053-24 ED2: Electricity metering equipment (a.c.)
- Particular requirements - Part 24: Static meters for reactive energy
at fundamental frequency (classes 0,5 S, 1S and 1), 2018/4/13

17A/1173/FDIS, IEC 62271-102 ED2: High-voltage switchgear and
controlgear - Part 102: Alternating current disconnectors and
earthing switches, 2018/3/30

20/1788/FDIS, IEC 61238-1-1 ED1: Compression and mechanical
connectors for power cables - Part 1-1: Test methods and
requirements for compression and mechanical connectors for power
cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on non-
insulated conductors, 2018/3/30

20/1789/FDIS, IEC 61238-1-2 ED3: Compression and mechanical
connectors for power cables - Part 1-2: Test methods and
requirements for insulation piercing connectors for power cables for
rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated
conductors, 2018/3/30

20/1790/FDIS, IEC 61238-1-3 ED1: Compression and mechanical
connectors for power cables - Part 1-3: Test methods and
requirements for compression and mechanical connectors for power
cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um
= 36 kV) tested on non-insulated conductors, 2018/3/30

25/621/AC, JWG 2: Revision and amendment of IEC-related parts of
ISO/IEC 80000 series - Linked to ISO/TC 12 - Call for Convenor.,
2018/3/30

34A/2067/CD, IEC 62868-1 ED1: Organic light emitting diode (OLED)
Light sources for general lighting - Safety - Part 1: General
requirements and tests, 2018/5/11

45A/1187/FDIS, IEC 62988 ED1: Nuclear power plants -
Instrumentation and control systems important to safety - Selection
and use of wireless devices, 2018/3/30

45B/898/CD, IEC 62484 ED2: Radiation protection instrumentation -
Spectroscopy-based portal monitors used for the detection and
identification of illicit trafficking of radioactive material, 2018/5/11

45B/899/CD, IEC 62706 ED2: Radiation protection instrumentation -
Environmental, electromagnetic and mechanical performance
requirements, 2018/5/11

47/2461/FDIS, IEC 62969-3 ED1: Semiconductor devices -
Semiconductor interface for automotive vehicles - Part 3: Shock
driven piezoelectric energy harvesting for automotive vehicle
sensors, 2018/3/30

59M/96/CD, IEC 62552-1/AMD1 ED1: Amendment 1 - Household
refrigerating appliances - Characteristics and test methods - Part 1:
General requirements, 2018/5/11

59M/97/CD, IEC 62552-2/AMD1 ED1: Amendment 1 - Household
refrigerating appliances - Characteristics and test methods - Part 2:
Performance requirements, 2018/5/11

59M/98/CD, IEC 62552-3/AMD1 ED1: Amendment 1 - Household
refrigerating appliances - Characteristics and test methods - Part 3:
Energy consumption and volume, 2018/5/11

62D/1567/NP, PNW 62D-1567: Medical electrical equipment -- Part 2-
xx: Particular requirements for the basic safety and essential
performance of electro-acupuncture stimulator, 2018/5/11

62D/1568/CD, IEC 60601-2-41 ED3: Medical electrical equipment -
Part 2-41: Particular requirements for the basic safety and essential
performance of surgical luminaires and luminaires for diagnosis,
2018/5/11

65C/916/CD, IEC 62657-4 ED1: Industrial communication networks -
Wireless communication networks - Part 4: Coexistence
management with central coordination of wireless applications,
2018/5/11

86A/1847(F)/CDV, IEC 60793-1-31 ED3: Optical fibres - Part 1-31:
Measurement methods and test procedures - Tensile strength,
2018/4/20

86A/1851/NP, PNW 86A-1851: Optical Fibre Cables - Part 4-30: Aerial
optical cables along electrical power lines - Family Specification for
OPPC (Optical Phase Conductor), 2018/4/13

91/1499/CD, IEC 60068-2-69/AMD1 ED3: Environmental testing - Part
2-69: Tests - Test Te/Tc: Solderability testing of electronic
components and printed boards by the wetting balance (force
measurement) method, 2018/4/13

110/942/CDV, IEC 62977-2-1 ED1: Electronic displays - Part 2-1:
Measurements of optical characteristics- Fundamental
measurements, 2018/5/11

114/256/DC, Proposed revision of IEC TS 62600-200 Ed. 1 - Proposed
transition of AHG 4, Power performance assessment of electricity
producing tidal energy converters, into a MT, 2018/3/30

119/205/FDIS, IEC 62899-303-1 ED1: Printed Electronics - Part 303-1:
Equipment - Roll-to-roll printing - Mechanical dimensions, 2018/3/30

119/204/FDIS, IEC 62899-302-2 ED1: Printed Electronics - Part 302-2:
Equipment - Inkjet - Imaging based measurement of droplet volume,
2018/3/30

121A/201/CD, IEC 60947-4-2 ED4: Low-voltage switchgear and
controlgear - Part 4-2: Contactors and motor-starters - AC
semiconductor motor controllers and starters, 2018/5/11

CIS/F/733/FDIS, CISPR 15 ED9: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment, 2018/3/30

SyCSmartEnergy/71/NP, PNW TS SYCSMARTENERGY-71: Top priority Standards development status in the domain of Smart Energy, 2018/3/16

JTC1-SC41/28/NP, PNW JTC1-SC41-28: Information technology - Internet of Things - Methodology for trustworthiness of IoT system/service, 2018/4/13



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

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 11801-9905:2018](#), Information technology - Generic cabling systems for customer premises - Part 9905: Guidelines for the use of installed cabling to support 25GBASE-T application, \$162.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 11532:2018](#), Aircraft ground equipment - Graphical symbols, \$185.00

[ISO 23038:2018](#), Space systems - Space solar cells - Electron and proton irradiation test methods, \$68.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 80601-2-55:2018](#), Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors, \$209.00

BIOGAS (TC 255)

[ISO 20675:2018](#), Biogas - Biogas production, conditioning, upgrading and utilization - Terms, definitions and classification scheme, \$138.00

CRYOGENIC VESSELS (TC 220)

[ISO 21029-1:2018](#), Cryogenic vessels - Transportable vacuum insulated vessels of not more than 1 000 litres volume - Part 1: Design, fabrication, inspection and tests, \$232.00

DENTISTRY (TC 106)

[ISO 13897:2018](#), Dentistry - Dental amalgam reusable mixing-capsules, \$68.00

FINE CERAMICS (TC 206)

[ISO 20379:2018](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Measurement of thixotropic behaviour of ceramic slurry by use of a rotational viscometer, \$68.00

GAS CYLINDERS (TC 58)

[ISO 10298:2018](#), Gas cylinders - Gases and gas mixtures - Determination of toxicity for the selection of cylinder valve outlets, \$103.00

[ISO 20475:2018](#), Gas cylinders - Cylinder bundles - Periodic inspection and testing, \$68.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19115-1/Amd1:2018](#), Geographic information - Metadata - Part 1: Fundamentals - Amendment 1, \$19.00

GEOTECHNICS (TC 182)

[ISO 17892-8:2018](#), Geotechnical investigation and testing - Laboratory testing of soil - Part 8: Unconsolidated undrained triaxial test, \$103.00

HEALTH INFORMATICS (TC 215)

[ISO/IEEE 11073-10427:2018](#), Health informatics - Personal health device communication - Part 10427: Device specialization - Power status monitor of personal health devices, \$209.00

IMPLANTS FOR SURGERY (TC 150)

[ISO 17327-1:2018](#), Non-active surgical implants - Implant coating - Part 1: General requirements, \$103.00

JEWELLERY (TC 174)

[ISO 8654:2018](#), Jewellery - Colours of gold alloys - Definition, range of colours and designation, \$68.00

LIGHT METALS AND THEIR ALLOYS (TC 79)

[ISO 7668:2018](#), Anodizing of aluminium and its alloys - Measurement of specular reflectance and specular gloss of anodic oxidation coatings at angles of 20 degrees, 45 degrees, 60 degrees or 85 degrees, \$103.00

MECHANICAL TESTING OF METALS (TC 164)

[ISO 6507-4:2018](#), Metallic materials - Vickers hardness test - Part 4: Tables of hardness values, \$232.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 18095:2018](#), Condition monitoring and diagnostics of power transformers, \$185.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 2081:2018](#), Metallic and other inorganic coatings - Electroplated coatings of zinc with supplementary treatments on iron or steel, \$68.00

NUCLEAR ENERGY (TC 85)

[ISO 1709:2018](#), Nuclear energy - Fissile materials - Principles of criticality safety in storing, handling and processing, \$68.00

[ISO 18229:2018](#), Essential technical requirements for mechanical components and metallic structures foreseen for Generation IV nuclear reactors, \$162.00

PAINTS AND VARNISHES (TC 35)

[ISO 12944-5:2018](#), Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 5: Protective paint systems, \$138.00

PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)

[ISO 11296-1:2018](#), Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 1: General, \$103.00

SMALL TOOLS (TC 29)

[ISO 1703:2018](#), Assembly tools for screws and nuts - Nomenclature, \$185.00

SOLID MINERAL FUELS (TC 27)

[ISO 18894:2018](#), Coke - Determination of coke reactivity index (CRI) and coke strength after reaction (CSR), \$138.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 14223-3:2018](#), Radiofrequency identification of animals - Advanced transponders - Part 3: Applications, \$162.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 21277:2018](#), Information technology - Radio frequency identification device performance test methods - Crypto suite, \$68.00

IEC Standards**AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)**

[IEC 62087-4 Ed. 1.0 b:2015](#), Audio, video, and related equipment - Determination of power consumption - Part 4: Video recording equipment, \$82.00

[IEC 62087-5 Ed. 1.0 b:2015](#), Audio, video, and related equipment - Determination of power consumption - Part 5: Set-top-boxes (STB), \$117.00

ELECTRIC CABLES (TC 20)

[IEC 60502-SER Ed. 1.0 b:2018](#), Power cables with extruded insulation and their accessories for rated voltages from 1 kV ($U_m = 1,2$ kV) up to 30 kV - ALL PARTS, \$937.00

ELECTRIC ROAD VEHICLES AND ELECTRIC INDUSTRIAL TRUCKS (TC 69)

[IEC 62576 Ed. 2.0 b:2018](#), Electric double-layer capacitors for use in hybrid electric vehicles - Test methods for electrical characteristics, \$199.00

ELECTRIC TRACTION EQUIPMENT (TC 9)

[IEC 60310 Ed. 4.0 b cor.1:2018](#), Corrigendum 1 - Railway applications - Traction transformers and inductors on board rolling stock, \$0.00

[IEC 62236-4 Ed. 3.0 b:2018](#), Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus, \$117.00

[IEC 62236-5 Ed. 3.0 b:2018](#), Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus, \$164.00

[IEC 62236-3-1 Ed. 3.0 b:2018](#), Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle, \$117.00

[IEC 62236-3-2 Ed. 3.0 b:2018](#), Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus, \$164.00

[S+ IEC 62236-4 Ed. 3.0 en:2018 \(Redline version\)](#), Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus, \$152.00

[S+ IEC 62236-5 Ed. 3.0 en:2018 \(Redline version\)](#), Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus, \$213.00

[S+ IEC 62236-3-1 Ed. 3.0 en:2018 \(Redline version\)](#), Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle, \$152.00

[S+ IEC 62236-3-2 Ed. 3.0 en:2018 \(Redline version\)](#), Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus, \$213.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60601-1-SER Ed. 1.0 b:2018](#), Medical electrical equipment - ALL PARTS, \$3644.00

FIBRE OPTICS (TC 86)

[IEC 61291-1 Ed. 4.0 b:2018](#), Optical amplifiers - Part 1: Generic specification, \$199.00

INSULATION CO-ORDINATION FOR LOW-VOLTAGE EQUIPMENT (TC 109)

[IEC 60664-SER Ed. 1.0 b:2018](#), Insulation coordination for equipment within low-voltage systems - ALL PARTS, \$1148.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 60870-5-SER Ed. 1.0 b:2018](#), Telecontrol equipment and systems - Part 5: Transmission protocols - ALL PARTS, \$3555.00

PRIMARY CELLS AND BATTERIES (TC 35)

[IEC 60086-SER Ed. 1.0 b:2018](#), Primary batteries - ALL PARTS, \$1219.00

SAFETY OF MACHINERY - ELECTROTECHNICAL ASPECTS (TC 44)

[IEC 60204-SER Ed. 1.0 b:2018](#), Safety of machinery - Electrical equipment of machines - ALL PARTS, \$1693.00

SEMICONDUCTOR DEVICES (TC 47)

[IEC 60749-13 Ed. 2.0 b:2018](#), Semiconductor devices - Mechanical and climatic test methods - Part 13: Salt atmosphere, \$82.00

SWITCHGEAR AND CONTROLGEAR (TC 17)

[IEC 62271-110 Ed. 4.0 b cor.2:2018](#), Corrigendum 2 - High-voltage switchgear and controlgear - Part 110: Inductive load switching, \$0.00

**SYSTEM ENGINEERING AND ERECTION OF ELECTRICAL
POWER INSTALLATIONS IN SYSTEMS WITH NOMINAL
VOLTAGES ABOVE 1 KV A.C., PARTICULARLY CONSIDERING
SAFETY ASPECTS (TC 99)**

[IEC 60071-SER Ed. 1.0 b:2018](#), Insulation co-ordination - ALL PARTS,
\$1266.00

IEC Technical Reports

FLUIDS FOR ELECTROTECHNICAL APPLICATIONS (TC 10)

[IEC/TR 62697-2 Ed. 1.0 en:2018](#), Test methods for quantitative
determination of corrosive sulfur compounds in unused and used
insulating liquids - Part 2: Test method for quantitative determination
of total corrosive sulfur (TCS), \$117.00

[IEC/TR 62697-3 Ed. 1.0 en:2018](#), Test methods for quantitative
determination of corrosive sulfur compounds in unused and used
insulating liquids - Part 3: Test method for quantitative determination
of elemental sulfur, \$164.00

IEC Technical Specifications

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

[IEC/TS 61724-3 Ed. 1.0 en cor.1:2018](#), Corrigendum 1 - Photovoltaic
system performance - Part 3: Energy evaluation method, \$0.00

SOLAR THERMAL ELECTRIC PLANTS (TC 117)

[IEC/TS 62862-1-1 Ed. 1.0 en:2018](#), Solar thermal electric plants - Part
1-1: Terminology, \$235.00

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

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

ANS Title and Designation Change

ANSI/IES RP-11-2017

The Illuminating Engineering Society (IES) announces that the designation and title of ANSI/IES/ALA RP-11-2017, Recommended Practice for Lighting for Interior and Exterior Residential Environments, have been changed. The new title and designation are: ANSI/IES RP-11-2017, Design Criteria for Interior Living Spaces.

Inquiries may be directed to Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org.

ANSI Accredited Standards Developers

Approval of Reaccreditation

ASC Z136 – Safe Use of Lasers

The reaccreditation of Accredited Standards Committee Z136, Safe Use of Lasers, has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ASC Z136-sponsored American National Standards, effective February 21, 2018. For additional information, please contact the Secretariat of ASC Z136: Ms. Barbara Sams, Director of Standards Development, Laser Institute of America, 13501 Ingenuity Drive, Suite 128, Orlando, FL 32826; phone: 407.380.1553; e-mail: bsams@lia.org.

Concrete Reinforcing Steel Institute (CRSI)

The reaccreditation of the Concrete Reinforcing Steel Institute (CRSI), 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 CRSI-sponsored American National Standards, effective February 20, 2018. For additional information, please contact: Ms. Amy Trygestad, P.E., F.ACI, Director of Codes and Standards, Concrete Reinforcing Steel Institute, 933 N. Plum Grove Road, Schaumburg, IL 60173; phone: 630.380.5874; e-mail: atrygestad@crsi.org.

National Association of State Boating Law Administrators

The reaccreditation of the National Association of State Boating Law Administrators under its recently revised operating procedures for documenting a consensus on NASBLA-sponsored American National Standards (incorporating its NASBLA Procedures for the Registration of Technical Reports with ANSI), is approved at the direction of the ANSI Executive Standards Council, effective February 21, 2018. For additional information, please contact: Ms. Pam Dillon, CAE, Director, Education & Standards, National Association of State Boating Law Administrators, 1648 McGrathiana Parkway, Suite 360, Lexington, KY 40511; phone: 859.225.9487; e-mail: pam@nasbla.org.

Single Ply Roofing Industry (SPRI)

The reaccreditation of the Single Ply Roofing Industry (SPRI), 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 SPRI-sponsored American National Standards, effective February 20, 2018. For additional information, please contact: Ms. Linda King, Managing Director, Single Ply Roofing Institute, 465 Waverley Oaks Road, Suite 421, Waltham, MA 02452; phone: 781.647.7026; e-mail: info@spri.org.

Scope of ASD Accreditation

American Society of Safety Engineers (ASSE)

Comment Deadline: March 26, 2018

The American Society of Safety Engineers (ASSE), an ANSI Accredited Standards Developer (ASD) and organizational member, has updated its informational scope of standards activity on file with ANSI:

These standards establish, for the occupational safety and health profession, core competencies, technical safety processes, procedures, and requirements, qualification levels and credentials, performance assessments, outcomes, record-keeping, risk assessment, measurement, and learning support resources.

Any comments or questions related to the revised scope should be submitted by March 26, 2018 to: Mr. Tim Fisher, American Society of Safety Engineers, 520 N. Northwest Highway, Park Ridge, IL 60068; phone: 847.768.3411; e-mail: TFisher@ASSE.org .

Meeting Notices

Association of Challenge Course Technology (ACCT) Consensus Group Meetings

The next meetings of the ACCT Consensus Group will be conference calls and are scheduled for the purposes of:

- Processing comments from the current public comment period for BSR/ACCT 03-201X , scheduled to close on March 27th , 2018.

Location: ACCT Operations Conference Line

Meeting Dates: April 10th & 12th, 2018

Time: 12 pm – 1:30 pm EST

These meetings are open to the public. Persons wishing to attend these meetings are required to pre-register by contacting Bill Weaver, ACCT Director of Operations, bill@acctinfo.org; 800-991-0286, extension 2.

Background:

During the February 4, 2018 review of the comments issued during document D042's ballot, four items were proposed and accepted by the assembled subcommittee that were considered as a substantive change, and thus, require formal approval.

This ballot contains the following items requiring approval.

Ballot Content:

To the approved content of Draft Document D042, to be formally identified as BICSI 004-18, do the following items:

Note: For all items, addition(s) are indicated by underline, with deletion(s) indicated by ~~strikethrough~~.

Item 1)

Make the following change to Section 4.1 Definitions

Rationale: Termination may occur to more than one type of cabling media.

termination

The physical connection of a conductor or fiber to connecting hardware.

Item 2)

Make the indicated change in Section 8.3.3.2

Rationale: Not all systems using optical fiber require an optical fiber interconnecting unit.

8 Healthcare Systems**8.3 Patient Monitoring (Telemetry)****8.3.3 Cabling****8.3.3.2 Backbone Distribution**

If optical fiber is used, a minimum of six (6) multimode strands or single mode optical fiber cabling shall be provided from each TR to equipment room. ~~A separate optical fiber interconnecting unit (LIU) for the optical fiber cabling shall be provided.~~

Item 3)

Make the indicated change in Section 9.1.2.1

Rationale: There are more power options than a powered amplifier that may be used.

9 Other Information Communication Technology Systems**9.1 Notification Systems****9.1.2 System Types****9.1.2.1 IP Addressable Speaker**

As the IP signal alone will not power the loudspeakers, ~~a powered amplifier is required at~~ additional power will need to be supplied to the loudspeaker location.

Item 4)

Make the indicated changes in Sections 6.5.1 and 6.5.2

Rationale: Clarification of requirements and recommendations specific to TR location and sizing.

6 Communications Infrastructure**6.5 Telecommunications Rooms****6.5.1 Requirements**

Where not otherwise specified in this standard, the TR shall be designed in accordance with the requirements of the standards being followed (e.g., NFPA 99, ANSI/TIA-1179-A, ISO/IEC 14763-2, FGI Guidelines)

A minimum of one TR shall be placed on each floor.

TRs shall be located outside of surgery suites and other sterile area (before the “redline”) to allow TR maintenance without requiring personnel to dress out in protective clothing in the sterile areas. TR shall be directly accessible from a corridor without passing through another space (e.g., electric closet, mechanical room).

A TR may not serve an area exceeding 1860 m² (20,000 ft²). TR shall be located as close as practical to the center of the area served.

~~In multi-story buildings TRs shall be located so the entire floor dimensions of a TR are contained within the floor dimensions of the TR directly above and below, as applicable.~~

~~The floor dimensions of the a TR shall be at least 4 m × 4.5 m (12 feet × 14 feet)~~

~~NOTE: A growth factor of 50% should be considered when determining final TR size.~~

The minimum floor dimensions of a TR shall meet the requirements of the AHJ (e.g., NFPA 99, *Guidelines for Design and Construction of Hospitals*). Where AHJ requirements are not present, the minimum floor dimensions shall be 4 m × 4.5 m (12 ft × 14 ft). If the TR is to support additional systems (e.g., building automation, nurse call, security, CATV, paging, intercom, or clinical systems), the TR’s physical size shall be increased in size to provide adequate space for these additional systems. This may require additional physical space.

NOTE: A growth factor of 50% of the systems and services being supported by the TR should be considered when determining the final physical size of the TR.

NOTE: Some facilities do not allow placing medical or building systems in the TR. Where this restriction applies, medical and building systems shall be placed within a dedicated space adjacent to the TR. The space shall be designed in accordance with the requirements of ANSI/TIA-569-D. Room sizing shall take into consideration the wall mounting area required of each system (e.g., building automation, nurse call, security, CATV, paging, intercom, or clinical systems).

When placing a TR below grade level, water infiltration issues and mitigation shall be considered during the design, including:

- Height below surrounding drainage systems
- Water detection systems
- Secure and continuous vapor barriers
- Water and vapor extraction systems
- Main building systems that might create damage
- Hazardous materials stored or utilized in the basement
- Flooding potential during and following severe weather events

Working space in front and behind racks, cabinets and equipment shall be at least 0.9 m (3 ft).

Entry to TR shall be restricted to authorized personnel

6.5.2 Recommendations

In multi-story buildings, TRs on each floor should be located so that the TR’s physical footprint matches or is contained within or encompasses the physical footprint of the TR directly above and below, as applicable. This “stacking” minimizes the length of pathway required to connect TRs on adjacent floors.

The TR should be located on the same floor as the work areas served. TRs should be located away from MRI rooms and other imaging modalities to minimize electric and magnetic field interference.

No other equipment should be mounted above the equipment within the TR.

Where systems, applications and other requirements are not defined, the floor dimensions of a TRs should be at least 4 m × 4.9 m (12 ft × 16 ft).

Entrances to a TR should be controlled through the use of electronic access control (e.g., credential reader).

SUMMARY OF CHANGES TO ESD DSTM11.13-2018LB

6.0 TEST EQUIPMENT

6.1 Two-Point Probe

Refer to Figure 1 and Table 1.

This two-point probe consists of an insulated metal body with a Teflon[®] insulator inserted into each end. One insulator holds test leads; the other holds receptacles that accept spring-loaded pins. One receptacle is surrounded by a cylindrical insulator, which is surrounded by a metal shield. The pins are gold plated and have a spring force of 0.465 kg (16.4 ounces) \pm 10% at a travel of ~~4.32 mm 0.00432 meter~~ (0.170 inch). The pin tips are machined to accept friction fitted ~~3.180 mm 0.00318 meter~~ (0.125 inch) diameter electrically conductive rubber electrodes. The rubber has a Shore-A (IRHD) durometer hardness of 50-70 (ASTM Method D 2240). The electrodes are ~~3.180 mm 0.00318 meter~~ (0.125 inch) long. Electrode volume resistivity is < 500 ohms-cm.

6.5 Verification Resistors

The low resistance verification fixture will consist of a 1.0×10^5 ohm (\pm 1%) resistor electrically bonded to two isolated metal contact plates. The plates must be of size and shape so that each probe electrode contacts only one plate, ~~and the plates are not in contact with each other.~~ The plates shall be affixed to a material with the same properties as the insulative support surface described in Section 6.2. Figure 3 illustrates one possible configuration of a resistance verification fixture.

The high resistance verification fixture will consist of a 1.0×10^9 ohm (\pm 5%) resistor electrically bonded to two isolated metal contact plates. The plates must be of size and shape so that each probe electrode contacts only one plate, ~~and the plates are not in contact with each other.~~ The plates shall be affixed to a material with the same properties as the insulative support surface described in Section 6.2. Figure 3 illustrates one possible configuration of a resistance verification fixture.

The actual value of the resistors should be measured periodically in accordance with the manufacturer's recommendation. This measured value should be used to verify probe operation.

7.0 SAMPLE PREPARATION

Condition six samples of the item to be tested in an environment with a relative humidity of ~~42°C12%~~ \pm 3% and temperature of $23^\circ\text{C} \pm 3^\circ\text{C}$ (~~73°F \pm 5°F~~). Preconditioning of the samples shall be a period of at least 48 hours. All testing will be conducted in the preconditioned environment.

[®] Teflon is a registered brand of DuPont.

Table 1. Materials for Two-Point Probe

NOTE: This is not intended to be a complete materials list for probe construction, but does provide key elements that enable performance replication. Refer to Figure 1 for part placement. Part manufacturers and numbers information are for reference. Equivalent parts may be used.

Teflon® Insulators	Approx. 0.0254 m 25.4 mm (1.0 inch) by 0.0427 m 12.7 mm (0.5 inch) diameter.	
Electrode Shield	Metal tubing approx. 0.0318 m 31.80 mm (1.25 inch) by 0.00475 m 4.750 mm (0.187 in) diameter.	
Electrode Insulator	Heat shrinkable Teflon® or other insulator.	
Receptacles	Receptacle – with solder cup.	Interconnect Devices Inc. R-5-SC
Pins	Spring Pins 0.465 kg (16.4 oz) at 0.00432 m 4.32 mm (0.170 inch) travel. Tip machined to accept electrode.	Interconnect Devices Inc. S-5-F-16.4-G
Electrodes	0.00318 m 3.180 mm (0.125 inch) by 0.00318 m 3.180 mm (0.125 inch) diameter conductive material with a Shore A (IRHD) durometer hardness between 50 and 70. Volume resistivity to be < 500 ohm-cm.	Vanguard Products, VC-7815

ANNEX A (INFORMATIVE) - TEST METHOD NOTES

A.1. A change in the dimensions of the sample can affect the measurements.

A.2. Resistance measurements can be affected by the size and spacing between electrodes. The ~~0.00318 meter~~3.180 mm (0.125 inch) diameter and ~~0.00318 meter~~3.180 mm (0.125 inch) spacing of the electrodes was selected to test a wide range of packaging types and sizes.

A.3. Resistance measurements of a particular sample material may vary due to:

- Variations in sample surface composition or thickness.
- Compression of the sample by the force of the electrodes.
- Variations of the resistance in the electrode material.
- Change in material properties due to the measurement current.
- Cleanliness of electrodes or sample.

A.4. Testing of various electrode materials indicates that the use of harder rubber materials than specified creates a greater variation in readings.

ANNEX B (INFORMATIVE) – REVISION HISTORY FOR ANSI/ESD STM11.13- 2015

B.2 2017 Version

1. Change made in the verification resistor range to 1.0 x 10⁴ ohms and 1.0 x 10¹¹ ohms.

4-2. Adjusted the dimensions from meter to mm where necessary.

Tracking #14i95r1
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Revision to NSF/ANSI 14-2016b
Draft 1, Issue 95 (February 2018)

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Table 9.29 – PVC0 pressure pipe

Test	Frequency	Frequency	Frequency
dimensions			
pipe OD	2 h	2 h	2 h
pipe wall thickness	2 h	2 h	2 h
regression	qualification	qualification	qualification
sustained pressure	annually	annually	annually ²
burst	24 h	24 h	—
flattening	8 h	8 h	8 h
extrusion quality	8 h	8 h	8 h
impact	—	24 h	24 h
apparent tensile strength	—	—	annually
hydrostatic integrity	annually	annually	—
product standard(s)	AWWA C909 ¹	ASTM F1483	CSA B137.3.1
¹ Pipe compliant to AWWA C909 shall additionally follow the QC requirements of AWWA C909.			
² Testing per section 5.4 of CSA B137.3.1			

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Table 9.35 – Standard specification for elastomeric seals (gaskets) for joining plastic pipe

Test	Frequency (thermoplastics elastomers)	Frequency (thermosets elastomers)
tensile strength	annually	annually
elongation	annually	annually
100% modulus ¹	qualification	—
hardness	annually	annually
low temperature hardness ²	annually	annually
compression set ¹	annually	annually
ozone resistance	qualification	qualification
accelerated aging	qualification	qualification
elastomer-plastic compatibility test	qualification	qualification
change on volume	qualification	qualification
stress relaxation	qualification	—
low temperature flexibility ³	—	qualification
product standard(s)	ASTM F477 CSA B181.0	ASTM F477 CSA B181.0
¹ Testing does not apply for products tested to CSA 181.0		
² Testing does not apply to thermoset elastomers tested to CSA 181.0		
³ Testing does not apply for products tested to ASTM F477		

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[Note – the changes are illustrated below using ~~strikeout~~ for proposed removal of existing text and grey highlights to indicate the proposed new text. ONLY the highlighted text and ~~strikeout~~ text is within the scope of this ballot. Rationale Statements are in RED and only used to add clarity; these statements will NOT be in the finished publication]

NSF/ANSI Standard 49 for Biosafety Cabinetry — Design, Construction, Performance, and Field Certification

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6 Performance

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6.10 Inflow velocity

The velocity of the inflow air through the work access opening shall be determined. Subsequent production cabinets of the initial model and size conforming to 6.7 may also qualify if the ~~directly measured and calculated inflow velocities are~~ average inflow velocity is within ± 5 ft/min (± 0.025 m/s) of the nominal set point ~~velocities~~ velocity.

6.10.1 The minimum ~~directly measured and calculated inflow velocities~~ average inflow velocity of Type A1 cabinets shall be 75 ft/min (0.38 m/s).

6.10.2 The minimum inflow quantity per 1 ft (0.3 m) of work area width of Type A1 cabinets shall be 45 ft³/min (76 m³/h) (see 6.7 and 6.9).

6.10.3 The minimum ~~directly measured and calculated inflow velocities~~ average inflow velocity of Type A2, B1, B2 and C1 cabinets shall be 100 ft/min (0.51 m/s).

6.10.4 The minimum inflow quantity per 1 ft (0.3 m) of work area width of Type A2, B1, B2 and C1 cabinets volume rate shall be 65 ft³/min (110 m³/h) (see 6.7 and 6.9).

~~**6.10.5** The minimum directly measured and calculated inflow velocities of Type B1 and B2 cabinets shall be 100 ft/min (0.51 m/s).~~

~~**6.10.6** The minimum inflow quantity per 1 ft (0.3 m) of work area width of Type B1 and B2 cabinets volume rate shall be 65 ft³/min (110 m³/h).~~

Rationale: during the recent update regarding the Type C1 BSC, Inflow requirements were not added to section 6.10 for Type C1 cabinets. This language adds these requirements, as well as makes consistent the use of language found in the definitions of Section 3. Additionally, during the revision 1 balloting process, the group decided it would also be beneficial to combine those requirements which are the same among BSC Types.

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NSF/ANSI Standard For Wastewater Technology –

Onsite residential and commercial water reuse treatment systems

1 General

1.1 Purpose

The purpose of this Standard is to establish minimum material, design, and construction, and performance requirements for onsite residential and commercial water treatment systems. This Standard also specifies the minimum literature that manufacturers shall supply to authorized representatives and owners as well as the minimum service-related obligations that a manufacturer shall extend to owners.

1.2 Scope

This Standard contains minimum requirements for onsite residential and commercial water treatment systems. Systems may include the following:

- Greywater treatment systems having a rated treatment capacity up to 5,678 L/day (1,500 gal/day). This applies to onsite residential and commercial treatment systems that treat greywater, those that treat laundry water from residential laundry facilities, and those that treat bathing water. See 8.1 for performance testing and evaluation.
- Residential wastewater treatment systems having a rated treatment capacity up to 5,678 L/day (1,500 gal/day). This applies to onsite residential treatment systems that treat combined wastewater generated by the occupants of residence(s). A reuse system treating 1,514 L/day (400 gal/day) to 5,678 L/day (1,500 gal/day) shall either be demonstrated to have met the Class I requirements of NSF/ANSI 40, or must meet these requirements during concurrent testing to this Standard. A treatment system treating less than 1,514 L/day (400 gal/day) is not required to have met the Class I requirements of NSF/ANSI 40. See 8.2 for performance testing and evaluation.
- Commercial treatment systems – this applies to onsite commercial treatment systems that treat combined commercial facility wastewater and commercial facility laundry water of any capacity, and those treatment systems that treat greywater from commercial facilities with capacities exceeding 5,678 L/day (1,500 gal/day). These systems shall be performance tested and evaluated at the location of the reuse system installation, using the wastewater generated onsite from the facility serving the treatment system. See 8.3 for performance testing and evaluation. The key elements of a field evaluation of a commercial treatment system are described in Annex A.

Management methods and end uses appropriate for the treated effluent discharged from onsite residential and commercial treatment systems meeting Class R (single family residential) or Class C (multi-family and commercial facilities) requirements of this Standard include indoor restricted urban water use, such as toilet and urinal flushing, and outdoor unrestricted urban water use, such as surface irrigation. Effluent quality criteria consistent with these uses are described in 8.6, Criteria.

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This Standard is intended to address public health and environmental issues. Actual performance for any site or system may vary, depending on variations in raw water supply (such as alkalinity and hardness), wastewater constituents, and patterns of use. The end use of the effluent is the responsibility of the owner, design professionals, and regulatory officials.

System components covered under other NSF or NSF/ANSI standards or criteria shall also comply with the requirements therein. This Standard shall in no way restrict new system designs, provided such designs meet the minimum specifications described herein.

1.3 Alternate materials, design, and construction

While specific materials, designs, and constructions may be stipulated in this Standard, systems that incorporate alternate materials, designs, or constructions may be acceptable when it is verified that such systems meet the applicable requirements of this Standard.

1.4 Performance classification

For the purpose of this Standard, systems are classified according to the chemical, biological, and physical characteristics of their effluents as determined by the performance testing and evaluations described herein.

Greywater treatment systems within a manufacturer's model series may be classified according to the performance testing and evaluation of the system (8.1) expected to produce the poorest effluent quality within the series based upon design characteristics.

Residential wastewater treatment systems within a manufacturer's model series may be classified according to the performance testing and evaluation of the system (8.2) with the smallest hydraulic capacity within the series. A series is limited to treatment capacities below 1,514 L/day (400 gal/day), and treatment capacities between 1,514 L/day (400 gal/day) and 5,678 L/day (1,500 gal/day).

~~Greywater and residential wastewater treatment systems having rated treatment capacities less than 378 L/day (100 gal/day) shall be within a manufacturer's model series having rated treated capacities at or above 378 L/day (100 gal/day).~~

The manufacturer shall submit design drawings and specifications of the entire model series, which shall include critical design parameters for the systems. An engineering review of the design parameters may be completed in lieu of performance testing and evaluation of other systems within the series provided they are determined to be appropriately proportionate to the evaluated system based on sound engineering principles.

Commercial treatment systems that treat combined commercial facility wastewater and commercial facility laundry water of any capacity, and treatment systems that treat greywater from commercial facilities with capacities exceeding 5678 L/day (1500 gal/day) performance tested and evaluated in accordance with 8.3 and Annex A, may be similarly classified within a manufacturer's model series. However, consideration must be given to the conditions of the field evaluation of the system, including the wastewater characteristics, treatment system loading conditions, and other variables affecting performance. These conditions shall become limitations for classifying other systems within a manufacturer's model series.

2/5/18 ANSI/TIA-568.2-D, Balanced Twisted-Pair Telecommunications Cabling and Components Standard

1

2nd default ballot

2 This default ballot is a result of the comment resolution held regarding ANSI/TIA-568.2-D and is limited to
3 three comments listed below, plus the clause G.1.3. Comments CS-01, Sur-3, Sur-4, Sur-5 and Panduit
4 resulted in extensive changes to clause G.1.3, so this clause is included in the default ballot in its entirety.
5 There were no other comments on the default ballot.

6 This default ballot includes a table with the submitter (source) of each ANSI/TIA-568.2-D ballot comment
7 included in the "ID" column for each row. Each comment within this default ballot corresponds to the
8 location within the ANSI/TIA-568.2-D ballot document (page, clause, line). Additionally, this default ballot
9 includes the text of clause G.1.3.

10 Your comments to this default ballot should indicate the ID of the original comment being commented on
11 (for example 'AESA_01'), or the line number.

12 E: editorial, T: technical, TN: technical no vote issue

13 ID: Company with comment #

Page	Line	Clause	E/T/TN	ID	Comment (rationale)	Proposed change (specific; add, delete. From-to)	Resolution
143	3759	C.1.2	TN	AESA_01	The resolution of AESA_12 was not well understood. The intension of the comment was to copy the requirements from ANSI/TIA-568-C.2-1 to ANSI/TIA-568.2-D.	Copy table C.1 from ANSI/TIA-568-C.2-1 to ANSI/TIA-568.2-D to secure backward compatibility.	Rejected, no consensus for change. Delete the type-o's in the OSB frequency column.
7	93	G.1.1	T	Sur-1	UL-444 provides the guidelines for DC resistance used in TIA standards, for example 9.38 Oms per 100 m solid conductor 24 AWG, 20 degrees C, uncoated conductors.	The correct value for 28 AWG stranded conductors at 20 degrees C from the UL 444 standard is 22.3 Ohms per 100 m for uncoated conductors at 20 degrees C. Replace 26 Ω (TBD) with 22.3 Ω. Remove (TBD)	Accept with edits. (use values for 28 AWG uncoated solid conductors) Replace 26 Ω (TBD) with 23.6 Ω. Remove (TBD)
7	94	G.1.1	T	Sur-2	UL-444 provides the guidelines for DC resistance used in TIA standards, for example 9.38 Oms per 100 m solid conductor 24 AWG, 20 degrees C, uncoated conductors.	The correct value for 28 AWG stranded conductors at 20 degrees C from the UL 444 standard is 22.3 Ohms per 100 m for uncoated conductors at 20 degrees C. Using the temperature coefficient of resistance of .00393 per degree C, the resistance at 60 degrees C should be 25.81 Ohms Replace 30.09 Ω (TBD) with 25.8 Ω. Remove (TBD) (round to one decimal place).	Accept with edits Replace 30.09 Ω (TBD) with 27.3 Ω. Remove (TBD)

14

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16

17 **Modified Text:**18 **G.1.3 28 AWG cord cable use cases**

19 The maximum length of 28 AWG cords shall not exceed 15 m (49.2 ft) and is determined using equation G-1 with
 20 link temperature of 20 °C and equation G-3 for link temperatures of 60 °C. Table G.1 gives some example use cases
 21 with the corresponding maximum permanent link length and maximum channel length at 20 °C . Table G.2 gives
 22 maximum permanent link and maximum channel length at 60 °C.

23

$$24 \quad P = \frac{102 - H}{D} \quad (G-1)$$

25 And

$$26 \quad C = H + P \quad (G-2)$$

27 Where:

28 *H* is the length (m) of the permanent link (horizontal cable).29 *D* is the insertion loss de-rating factor for the cord type (1.95 for 28 AWG cords)30 *P* is the length of 28 AWG patch cords31 *C* is the total length of the channel

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Table G.1 - 28 AWG cord cable example use cases at 20 °C

Maximum permanent link length m(ft)	Maximum length of 28 AWG cord cable m(ft)	Maximum channel length m(ft)
90.0 (295.3)	6.2 (20.2)	96.2 (315.5)
82.5 (270.7)	10.0 (32.8)	92.5 (303.5)
72.8 (238.7)	15.0 (49.2)	87.8 (287.9)

34

35 At 60 °C the maximum permanent link and channel lengths are decreased due to the increased insertion loss in the
 36 horizontal cable as shown in the following equations.

37

$$38 \quad P_{60} = \frac{102 - 1.2 \cdot H}{D} \quad (G-3)$$

39 And

$$40 \quad C_{60} = H + P_{60} \quad (G-4)$$

41 Where:

42 *H* is the length (m) of the permanent link (horizontal cable).43 *D* is the insertion loss de-rating factor for the cord type (1.95 for 28 AWG cords)44 *P*₆₀ is the length of 28 AWG patch cords45 *C*₆₀ is the total length of the channel at with the permanent link at 60 °C

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Table G.2 - 28 AWG cord cable example use cases with permanent link at 60 °C

Maximum permanent link length m(ft)	Maximum length of 28 AWG cord cable m(ft)	Maximum channel length m(ft)
75.0 (246.1)	6.2 (20.2)	81.2 (266.4)
68.8 (225.7)	10.0 (32.8)	78.8 (258.5)
60.7 (199.1)	15.0 (49.2)	75.7 (248.4)
NOTE - This table assumes that the patch cords included in the channel are at 20 °C.		

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Text with modifications shown:

5413 **G.1.3 → 28-AWG cord cable use cases**
 5414 ~~When using 28AWG cord cable of various lengths, the maximum length of 28-AWG cords shall not~~
 5415 ~~exceed 15 m (49.2 ft) and is determined using equation G-1 with link temperature of 20 °C and equation~~
 5416 ~~G-3 for link temperatures of 60 °C. Table G.3 gives some exemplary example use cases with the~~
 5417 ~~corresponding maximum permanent link length and maximum channel length at 20 °C, whereas, Table~~
 5418 ~~G.4 gives maximum permanent link and maximum channel length at 60 °C.~~
 5419 ¶
 5420 ~~At 20 °C, the lengths are calculated using the following equations.~~ ¶

5422
$$P = \frac{102-H}{D} \rightarrow \text{(G-1)} ¶$$

5423 And ¶
 5424
$$C = H + P \rightarrow \text{(G-2)} ¶$$

5425 Where: ¶
 5426 H is the length (m) of the permanent link (horizontal cable). ¶
 5427 D is the insertion loss de-rating factor for the cord type (1.95 for 28-AWG cords) ¶
 5428 P is the length of 28-AWG patch cords ¶
 5429 C is the total length of the channel ¶

5430 **Table G.3 → 28-AWG cord cable example use cases at 20 °C (TBD)** ¶

Maximum permanent link length m(ft) ¶	Maximum length of 28-AWG cord cable m(ft) ¶	Maximum channel length m(ft) ¶
90.0 (295.3) ¶	6.2 (20.2) ¶	96.2 (315.5) ¶
82.5 (270.7) ¶	10.0 (32.8) ¶	92.5 (303.5) ¶
72.8 (238.7) ¶	15.0 (49.2) ¶	87.8 (287.9) ¶

5431 ¶
 5432 At 60 °C the maximum ~~patch cord permanent link and channel~~ lengths ~~is are~~ decreased due to the
 5433 increased insertion loss in the horizontal cable as shown in the following equations. ¶

5434 ¶
 5435
$$P_{60} = \frac{102-1.2H}{D} \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \text{(G-3)} ¶$$

5436 And ¶
 5437
$$C_{60} = H + P_{60} \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \rightarrow \text{(G-4)} ¶$$

5438 Where: ¶
 5439 H is the length (m) of the permanent link (horizontal cable). ¶
 5440 D is the insertion loss de-rating factor for the cord type (1.95 for 28-AWG cords) ¶
 5441 P₆₀ is the length of 28-AWG patch cords ~~with the horizontal cable at 60 °C~~ ¶
 5442 C₆₀ is the total length of the channel at ~~with the permanent link at 60 °C~~ ¶

5444 **Table G.4 → 28-AWG cord cable example use cases with permanent link at 60 °C (TBD)** ¶

Maximum permanent link length m(ft) ¶	Maximum length of 28-AWG cord cable m(ft) ¶	Maximum channel length m(ft) ¶
75.0 (246.1) ¶	6.2 (20.2) ¶	81.2 (266.4) ¶
68.8 (225.7) ¶	10.0 (32.8) ¶	78.8 (258.5) ¶
60.7 (199.1) ¶	15.0 (49.2) ¶	75.7 (248.4) ¶

NOTE -- This table assumes that the patch cords included in the channel are at 20 °C. ¶

5445 ¶
 5446 ~~It is not recommended to use more than 15 meters (TBD) of 28-AWG patch cords within a channel.~~ ¶

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BSR/UL 2258, Standard for Aboveground Nonmetallic Tanks for Fuel Oil and Other Combustible Liquids

1. Revisions to scope
2. Addition of definition for Waste Oil
3. Revision to Materials Requirements
4. Revision to Interstitial Communication Test
5. Revision to Pool Fire Test
6. Revision to Marking Methods

1 SCOPE

1.7 These requirements do not cover storage of waste oils or other combustible liquids with different fire, physical or material compatibility properties with respect to the intended liquids in Clause 1.1 but do cover 100 % biodiesel and biodiesel blends up to 100% ~~20~~ %. These requirements do not cover storage of flammable liquids.

5 GLOSSARY

5.3 ATMOSPHERIC TANK (also known as NONPRESSURE TANK) - A storage tank that has been designed to operate at pressures from atmospheric through a gauge pressure of 6.9 kPa (1.0 psig) measured at the top of the tank; not intended to accommodate an internal vacuum greater than 300 Pa (0.0435 psi) (gauge) or -2.25 mmHg (-0.0886 inHg).

5.31 WASTE OIL -General description of oils that contain some undefined amounts of water, gasoline, diesel, or other contaminants that change the liquid Class of the oil or may adversely affect the storage tank. Oils of unknown origin shall be considered waste oil.

8.2 MATERIALS

8.2.7 All threaded fittings and pipe provided with the tank which are intended to be connected to external pipe (fill, vent) or devices (gauge) shall be compatible with NPT threaded pipe, and shall be threaded and in accordance with ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch).

8.2.8 Electrical components, whether provided by or recommended for use by the manufacturer, shall not be located inside the primary tank or secondary containment unless evaluated for the application or in accordance with UL 180, Liquid-Level Gauges for Oil Burner Fuels and Other Combustible Liquids.

9.3.3 Interstitial Communication Test

9.3.3.2 With the primary tank filled to 100 % rated capacity with water on a level surface, a maximum of 2 % of the rated primary tank capacity of water shall be injected into the interstitial space of the tank system at a point farthest from the leak detector or monitor opening. If the tank system provides an integral leak detection system, provided by the manufacturer, that device shall be evaluated for leak detection in accordance with the instructions. Fuel oil may be used instead of water if required by the leak detection method.

9.3.7 Pool Fire Test

9.3.7.2 A representative tank with the greatest surface area per capacity (typically the smallest size) and in the thinnest wall thickness shall be placed in a test fixture described in Clause 9.3.7.3. Any damage sustained during the Normal or Abnormal tests as described in Clause 9.1.6 shall be re-created for the fire test sample. Any supplied fittings and accessories shall be installed in accordance with the manufacturer's recommended instructions, and connections shall be made with 50.8 mm (2.0 in) Schedule 40 steel pipe for the fill and vent. ~~After installation into the test fixture, the primary tank shall be filled with No. 2 fuel oil to 50% rated capacity.~~ The fire test shall be conducted in a controlled environment.

12.3 MARKING METHODS

12.3.1 The required markings shall be molded into the tank wall (raised or indented), on a metal tag according to the requirements of Clause 12.3.2 or adhesive labels according to the requirements of Clause 12.3.3 affixed to the tank. The markings shall use letters at least 3 mm (3/32 in) high of a color contrasting to the background, if not molded. The general information ~~nameplate shall be on a limited area of the tank shell using a separate corrosion resistant metal plate securely attached to the tank, or corrosion resistant metal bracket or holder securely attached to the tank.~~

BSR/UL 260-201x, Standard for Safety for Dry Pipe and Deluge Valves for Fire-Protection Service

1. Pipe size extension

6.1 Valves covered by these requirements include sizes 12 - 16 inches (~~25-450~~ - ~~305~~406 mm), inclusive.

Table 25.1

Additional valve compression force

Valve pipe size, inches	Pounds-force	(N)
2	153	(680)
2-1/2	236	(1050)
3	323	(1437)
4	489	(2175)
6	944	(4199)
8	1507	(6703)
10	2237	(9950)
<u>12</u>	<u>3069</u>	<u>(13647)</u>
<u>14</u>	<u>4036</u>	<u>(17948)</u>
<u>16</u>	<u>5132</u>	<u>(22822)</u>

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BSR/UL 1004-1, Standard for Rotating Electrical Machines - General Requirements

1. Clarification for Determining Compliance for Grounding Continuity and Bonding

10.5 All exposed dead metal parts and all dead metal parts within the enclosure that are exposed to contact during any user servicing operation and likely to become energized shall be reliably connected to the means for grounding. Compliance shall be checked by the Grounding Test, Section 39.

21.2.1 Bonding shall be by a positive means, such as by clamping, riveting, bolted or screwed connection, brazing, or welding. Connection devices or fittings that depend solely on solder shall not be used. The bonding connection shall reliably penetrate nonconductive coatings such as paint. Compliance shall be checked by the Grounding Test, Section 39.

39.1 The resistance of the grounding and bonding path shall be no more than 0.1 ohms. The resistance is to be determined by applying a current equal to the full-rated machine input/output between the part intended to be grounded and/or bonded and the grounding conductor terminal, measuring the voltage drop and dividing the voltage drop potential by the current flowing in the circuit to calculate the grounding path impedance.

2. Updates to Markings

44.1 A machine shall be marked to indicate:

- a) Manufacturer's name or identification;
- b) Machine catalog or model number;
- c) Rated voltage;
- d) Full-load amperes, watts or kilowatts, or both;
- e) Rated speed;
- f) Rated horsepower or output wattage if over ~~93 W~~ 100 W (1/8 hp);

Exception No. 1: A fractional horsepower air-over motor is not required to be marked to indicate output horsepower or wattage.

Exception No. 2: Generators may be marked with kVA when additionally marked with the intended Power Factor (PF) rating of the machine.

- g) Rated temperature rise or the insulation system class;
- h) Rated ambient temperature, if other than 40°C (104°F);
- i) Rated frequency - expressed in one of the following terms: hertz, Hz, ac-dc, (frequency in Hz)/dc (for example, 60/dc), or ac only - or direct current; and, for a machine intended for use on a polyphase circuit, number of phases; and
- j) If greater than 1, number of phases.
- k) A continuous duty motor shall be marked "Continuous" or "CONT".
- l) A direct-current motor shall be marked to indicate the winding type - straight shunt, stabilized shunt, compound, or series.

- m) A multi-speed motor, other than a shaded-pole or a permanent-split-capacitor motor, shall be marked with the amperes and horsepower at each speed.
- n) The rated service factor for motors intended to be operated without a dedicated drive, where service factor exceeds 1.0.

3. Clarification for KVA Codes for Motors with Drives

44.9 For field installed motors, an alternating-current motor rated 1/2 horsepower (373 W output) or more shall be marked with a code letter to indicate the locked-rotor amperes in accordance with the *National Electrical Code*®, NFPA 70.

Exception: Motors requiring a drive to operate as intended, where the in-rush current is limited, may have the locked rotor amperes (KVA) code letter omitted. If the drive is separately provided from the motor and the KVA code letter is omitted, the motor shall be marked "inverter duty" or equivalent.

4. Addition of Annex A, Aging Test on Motors

23.6 All materials used in the insulation system of a machine rated Class E or higher above Class A shall comply with the requirements specified in the Standard for Systems of Insulating Materials - General, UL 1446, or in accordance with Annex A.

Exception: Polymeric enclosures of thermal motor protectors and/or insulating tubing or sleeving used to insulate thermal motor protectors which are in contact with motor windings are not required to be part of the motor insulating system.

Annex A Aging Test on Motors (Normative)

This annex is applicable when there is doubt with regard to the temperature classification of the insulation of a motor winding, for example:

- if the temperature rise of the motor winding exceeds the values specified in Table 32.1;

- when well-known insulating materials are used in an unconventional way;

- when combinations of materials of different temperature classes are used at a temperature higher than that allowed for the lowest class;

- when materials are used for which sufficient experience is not available, for instance in motors having integral core insulation.

This test is to be carried out on six samples of the motor.

The rotor of each motor is to be locked, and a current is to be passed individually through the rotor winding and the stator winding. This current being such that the temperature of the relevant winding is equal to the maximum temperature rise allowed for the declared system classification, increased as shown in Table A.1. The corresponding total time during which the current is passed is indicated in the table.

Table A.1
Test conditions

<u>Temperature increase, K</u>	<u>Total time, hours</u>
10 ±3	p
20 ±3	0.5 p
30 ±3	0.25 p
40 ±3	0.125 p
NOTE 1 - The temperature increase chosen is selected by the manufacturer.	
NOTE 2 - p is 8,000 unless otherwise declared by the manufacturer.	

The total time is to be divided into four equal periods, each being followed by a period of 48 hours in a humidity cabinet containing air with a relative humidity of 93 ±3 percent. The temperature of the air is to be maintained within 2 K of any convenient value t between 20°C and 30°C. Before being placed in the humidity cabinet, the appliance is to be brought to a temperature of less than 70°C. After the final humidity test, the insulation shall withstand the Dielectric Voltage-Withstand Test of Section 37, but with the test voltage reduced to 50 percent of the value specified.

Failure of only one of the six motors during the first of the four periods of the test is to be ignored.

If one of the six motors fails during the second, third, or fourth period of the test, the remaining five motors are subjected to a fifth period followed by the humidity test and the electric strength test.

The remaining five motors shall complete the test.

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BSR/UL 1004-4, Standard for Electric Generators

1. Revision to Scope

1.2 This Standard covers electric generators, ~~sometimes also~~ referred to as generator heads ~~alternators~~, which, when coupled with prime movers, such as engines or electric motors, are used to produce electricity. This Standard covers generators ~~(DC machines) and alternators (AC machines) rated 7,200~~, including those for standby use rated 34,000 volts or less.

2. Alternative means to evaluate voltage regulators used in generators

2.1 Voltage regulators shall comply with the requirements of the Standard for Industrial Control Equipment, UL 508. following requirements:

- a) The Standard for Industrial Control Equipment, UL 508;
- b) The Standard for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements, UL 61010-1; or
- c) The Outline of Investigation for Controls for Stationary Engine Driven Assemblies, UL 6200.

3. Addition of definition for standby generator

2A Glossary

2A.1 For the purpose of this Standard, the following definitions apply.

2A.2 STANDBY GENERATOR - Electrical generator intended to provide power during emergency (temporary) conditions.

4. Addition of construction requirements for machines rated over 1,000 V or employing form wound constructions

CONSTRUCTION

2B General

2B.1 Machines rated in excess of 1,000 V or rated 460 V employing a form wound insulation system shall additionally meet the requirements of the Standard for Form Wound and Medium Voltage Rotating Electrical Machines, UL 1004-9.

5. Revision of overspeed test

3.2 The generator is to be ~~connected to a resistive load, run at rated RPM and then the load adjusted so that the generator is delivering full rated output power. The rotational velocity of the generator is then to be increased to~~ operated at 120 percent of rated RPM and maintained at that speed for 1 minute.

Exception: Generators rated larger than 5 kw may have the overspeed test conducted loaded or unloaded at the manufacturer's option.

6. Addition of temperature requirements for standby generators

6A Temperature Test for Standby Generators

6A.1 When tested in accordance with the Temperature Test of UL 1004-1, the windings of a standby generator shall not exceed the limits specified in Table 6A.1, when adjusted to a 40°C (104°F) ambient.

Table 6A.1
Maximum winding temperature for standby generators
(thermocouple or resistance method)

<u>Materials and components</u>	<u>°C</u>	<u>(°F)</u>
Class A (105)	125	(257)
Class B (130)	145	(293)
Class F (155)	170	(338)
Class H (180)	190	(374)

6A.2 During the Temperature Test when the temperature on a field-installed lead or on any part within the wiring compartment that can be contacted by a lead is more than 60°C (140°F) when adjusted to the rated ambient, the standby generator shall be marked at or near the point where field connections shall be made, and so located that the marking is readily visible during installation in accordance with 7.3. The temperature value to be used in the marking shall be in accordance with Table 6A.2.

Table 6A.2
Terminal box marking

<u>Maximum temperature^a attained in terminal box or compartment during temperature test</u>		<u>Temperature marking</u>	
<u>°C</u>	<u>(°F)</u>	<u>°C</u>	<u>(°F)</u>
61 - 75	(142 - 167)	75	(167)
76 - 90	(169 - 194)	90	(194)

^a Corrected to an ambient temperature of 40°C (104°F)

7.2 A standby generator shall be marked "Standby Service".

7.3 When the temperature within a terminal box exceeds 60°C (140°F) at a point where field installed leads can contact, a standby generator shall be additionally marked with the following: "CAUTION: Use supply wires suitable for ____ °C " or equivalent wording. The temperature to be marked shall be 75°C or 90°C for temperature ranges of 61 - 75°C and 76 - 90°C, respectively. The marking shall appear on the nameplate, in the terminal box, or near the point where the supply connections are made.

Exception: Generators intended for use only as components or specific equipment need not be so marked if this information is provided separately.

BSR/UL 1581, Standard for Safety for Reference Standard for Electrical Wires, Cables, and Flexible Cords

PROPOSAL

Table 50.246

Physical properties of 75°C and 80°C Thermoplastic EVA^a insulation and jacket

Condition of specimens at time of measurement	Minimum ultimate elongation (1-inch or 25-mm bench marks)	Minimum tensile strength
Unaged	<u>150 percent</u>	1300 lbf/in ² or 8.9 MPa
Aged in a full-draft circulating-air oven for:		
168 h at 113.0 ±1.0°C (235.4 ±1.8°F) for specimens of 80°C insulation or jacket	50 percent of the result with unaged specimens	85 percent of the result with unaged specimens
240 h at 100.0 ±1.0°C (212.0 ±1.8°F) for specimens of 75°C insulation or jacket	45 percent of the result with unaged specimens	85 percent of the result with unaged specimens
^a Thermoplastic EVA designates a thermoplastic compound whose characteristic constituent is ethylene vinyl acetate.		

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