ANSI STANDARDS ACTION

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VOL. 44, #30 *July 26, 2013*

Contents

American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

Comments should be addressed to the organization indicated, with a copy to the Board of Standards Review, American National Standards Institute, 25 West 43rd Street, New York, NY 10036. Fax: 212-840-2298; e-mail: psa@ansi.org

* Standard for consumer products

ISSN 0038-9633

Comment Deadline: August 25, 2013

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

Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1an-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011)

This addendum makes changes to Table 7.5.3 CO2e Emission Factors, which has equivalent carbon dioxide emission rates (CO2e) for common energy sources used in buildings.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Bert Etheredge, 404-636-8400, betheredge@ashrae.org

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

Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1ao-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011)

This addendum is intended to clarify the requirements for sealing air filter installations, which are currently overly vague and difficult to interpret.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Bert Etheredge, 404-636-8400, betheredge@ashrae.org

NGWA (National Ground Water Association)

New Standard

BSR/NGWA 01-201x, NGWA Water Well Construction Standard (new standard)

Document defines construction for residential, municipal, irrigation, industrial, and monitoring water wells. Topics include: site selection; casing and casing installation; screens, filter pack, and formation stabilizer; grouting; plumbness and alignment; development; testing for performance; data recording; disinfection with chlorine; water sampling and analysis; and permanent well and test hole decommissioning. Document is not intended for consideration as an ISO or ISO/IEC JTC-1 standard. All Comments must be submitted on the standard comment form located at http://www.ngwa.org/Professional-Resources/standards/Documents/071013%20Standard%20Comment%20Form.pdf.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Jessica Rhoads, jrhoads@ngwa.org, 800 551.7379

SPI (The Society of the Plastics Industry, Inc.)

Revision

BSR/SPI B151.27-201X, Safety Requirements for the Integration of Robots with Injection Molding Machines (revision of ANSI/SPI B151.27-2003)

The requirements of this standard apply to all robots used on or in conjunction with horizontal and vertical injection molding machines (IMM(s)). The purpose of this standard is to establish recommended safe practices and procedures for the integration, care, and use of robots entering the mold area of horizontal and vertical IMM(s). Procedures for automatic mold changers and other ancillary equipment are not included in this standard.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: David Felinski, (832) 446-6999, DFelinski@plasticsindustry.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 565-201X, Standard for Safety for Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas (Proposal dated 7-26-13) (new standard)

Changes to the proposed sixth edition of UL 565.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Linda Phinney, (408) 754-6684, Linda.L.Phinney@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 427-201x, Standard for Safety for Refrigerating Units (revision of ANSI/UL 427-2013)

(1) Proposed requirements for flammable refrigerant charge sizes greater than 150 grams.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Elizabeth Sheppard, (847) 664-3276, Elizabeth.H.Sheppard@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 817-201x, Standard for Safety for Cord Sets and Power-Supply Cords (revision of ANSI/UL 817-2013)

Revised requirements for outdoor-use cord sets to permit joints and a maximum of six outlets.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Camille Alma, (631) 546-2688, Camille.A.Alma@ul.com

Comment Deadline: September 9, 2013

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

BSR X9.69-201x, Framework for Key Management Extensions (revision of ANSI X9.69-2007)

This standard defines methods for the generation and control of keys used in symmetric cryptographic algorithms. The standard defines a constructive method for the creation of symmetric keys by combining two or more secret key components. The standard also defines a method for attaching a key usage vector to each generated key, which prevents abuses and attacks against the key. The two defined methods can be used separately or in combination.

Single copy price: $60.00

Obtain an electronic copy from: janet.busch@x9.org

Order from: Janet Busch, (410) 267-7707, janet.busch@x9.org

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

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

Addenda

BSR/ASHRAE/USGBC/IES Addendum 189.1ap-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011)

This addendum harmonizes requirements in 8.4.1.1 Minimum Sidelighting Effective Aperture with ANSI/ASHRAE/IES 90.1, Energy Standard for Buildings Except Low-Rise Residential Buildings.

Single copy price: Free

Obtain an electronic copy from: http://www.techstreet.com/ashrae?ashrae_auth_token=

Order from: Bert Etheredge, 404-636-8400, betheredge@ashrae.org

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

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

New Standard

BSR/ASHRAE Standard 181P-201x, Methods of Testing for Rating Liquid to Liquid Heat Exchangers (new standard)

This standard prescribes methods for testing liquid-to-liquid heat exchangers. To attain this objective, the standard lists and defines the terms for rating liquid-to-liquid heat exchangers and establishes testing methods that are to be used as a basis for obtaining ratings of liquid-to-liquid heat exchangers.

Single copy price: $35.00

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

Order from: standards.section@ashrae.org

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

BHMA (Builders Hardware Manufacturers Association)

New Standard

BSR/BHMA A156.37-201x, Multipoint Locks (new standard)

This Standard establishes performance requirements for Multipoint Locks and includes operational tests, cycle tests, strength tests, security tests, and finish tests.

Single copy price: 36.00 (Nonmembers)/$18.00 (BHMA Members)

Order from: Emily Brochstein, (212) 297-2126, ebrochstein@kellencompany.com

Send comments (with copy to psa@ansi.org) to: Michael Tierney, (212) 297-2122, mtierney@kellencompany.com

ISA (ISA)

New Standard

BSR/ISA 92.00.02-201x, Installation, Operation, and Maintenance of Toxic Gas-Detection Instruments (new standard)

This standard gives guidance on, and recommended practice for, the selection, installation, use, and maintenance of electrically operated equipment intended for use in industrial and commercial safety applications for the detection and measurement of toxic gases complying with the requirements of ANSI/ISA-92.00.01 and ISA-92.00.04.

Single copy price: $90.00

Obtain an electronic copy from: ebrazda@isa.org

Order from: Eliana Brazda, (919) 990-9228, ebrazda@isa.org

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

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

New National Adoption

INCITS/ISO/IEC 10646:2012/Amd 1:2013, Information technology - Universal Coded Character Set (UCS) - Amendment 1: Linear A, Palmyrene, Manichaean, Khojki, Khudawadi, Bassa Vah, Duployan, and other characters (identical national adoption of ISO/IEC 10646:2012/Amd 1:2013)

This International Standard specifies an Amendment 1 to ISO/IEC 10646:2012/Amd 1:2013, Information technology -- Universal Coded Character Set (UCS) -- Amendment 1: Linear A, Palmyrene, Manichaean, Khojki, Khudawadi, Bassa Vah, Duployan, and other characters.

Single copy price: $268.00

Obtain an electronic copy from: http://www.incits.org or http://webstore.ansi.org

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

Send comments (with copy to psa@ansi.org) to: Barbara Bennett, (202) 626-5743, comments@itic.org

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

Reaffirmation

BSR/ITSDF B56.11.6-2005 (R201x), Evaluation of Visibility from Powered Industrial Trucks (reaffirmation of ANSI/ITSDF B56.11.6-2005)

This standard establishes the conditions, procedures, equipment, and acceptability criteria for evaluating visibility from powered industrial trucks. It applies to internal combustion engine powered and electric high lift, counterbalanced, sit-down rider industrial trucks up to and including 10 000 kg (22,000 lb) capacity.

Single copy price: Free

Obtain an electronic copy from: itsdf@earthlink.net

Order from: Chris Merther, (202) 296-9880, cmerther@earthlink.net; itsdf@earthlink.net

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

MSS (Manufacturers Standardization Society)

New Standard

BSR/MSS SP-25-201x, Standard Marking System for Valves, Fittings, Flanges, and Unions (new standard)

This marking system applies to valves, fittings, flanges, and unions used in piping connections, which include (but are not limited to) flanged, soldered, brazed, threaded, or welded joints. These specified markings serve to identify the manufacturer, the rating designation, materials of construction and special service limitations imposed by the manufacturer. They are used for product identification and to assist in proper application.

Review copy is a marked-up BSR draft. Revises previous BSR/MSS SP-25-2008 (orig. BSR-8 submission). Due to previous ANSI/MSS ballot results the draft standard was revised/approved by MSS and is being re-balloted (showing mark-up) within ANSI process. Identified stakeholder are unchanged. Originally developed under MSS Committee 302 (Committee Chair: J. Ballun). U.S. customary units in this Standard Practice are the standard; the SI (metric) units are also included for reference.

Single copy price: $10.00

Obtain an electronic copy from: standards@mss-hq.org

Order from: Michelle Pennington, (703) 281-6613, Ext 101, mpennington@mss-hq.org

Send comments (with copy to psa@ansi.org) to: Robert O'Neill, (703) 281-6613, boneill@mss-hq.org

MSS (Manufacturers Standardization Society)

New Standard

BSR/MSS SP-138-201x, Quality Standard Practice for Oxygen Cleaning of Valves and Fittings (new standard)

This Standard Practice outlines the general requirements for cleaning, inspection, testing, and packaging of valves and fittings intended to be used in Oxygen service environments. Proper design and material compatibility for Oxygen systems is outside the scope of this Standard Practice. Review copy is a BSR draft only. Revises previous BSR/MSS SP-138-2009 (orig. BSR-8 submission). Identified stakeholder are unchanged. Originally developed under MSS Committee 407 & 304. Committee Chair: C. Davilla.

Single copy price: $50.00

Obtain an electronic copy from: standards@mss-hq.org

Order from: Michelle Pennington, (703) 281-6613, Ext 101, mpennington@mss-hq.org

Send comments (with copy to psa@ansi.org) to: Robert O'Neill, (703) 281-6613, boneill@mss-hq.org

NIST/ITL (National Institute of Standards and Technology/Information Technology Laboratory)

Supplement

BSR/NIST-ITL 1 Sup-Dental-201x, Supplement to ANSI/NIST-ITL 1-2011 for Dental Forensic Data (supplement to ANSI/NIST-ITL 1-2011)

Add new capabilities to transmit forensic dental data. It is closely coordinated with ANSI/ADA Standard 1058.

Obtain an electronic copy from: http://www.nist.gov/itl/iad/ig/ansi_standard.cfm

Order from: Brad Wing, (301) 975-5663, Brad.Wing@NIST.Gov

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 4-2008 (R201x), Standard for Safety for Armored Cable (reaffirmation of ANSI/UL 4-2008)

Reaffirmation and continuance of the fifteenth edition of the Standard for Armored Cable, UL 4, as an American National Standard.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: www.comm2000.com

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Camille Alma, (631) 546-2688, Camille.A.Alma@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 2459-2008 (R201x), Standard for Safety for Insulated Multi-Pole Splicing Wire Connectors (reaffirmation of ANSI/UL 2459-2008)

This Standard covers insulated multi-pole mating or non-mating splicing wire connectors intended for field wiring and factory wiring for use in accordance with the Canadian Electrical Code, Part I, in Canada, and NFPA 70, National Electrical Code, in the United States.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Marcia Kawate, (408) 754-6743, Marcia.M.Kawate@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 2580-201x, Batteries for Use in Electric Vehicles (revision of ANSI/UL 2580-2011)

(1) The proposed new edition of the joint UL/ULC Standard for Batteries for Use In Electric Vehicles, UL 2580/ULC-S2580.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Megan VanHeirseele, (847) 664-2881, Megan.M.VanHeirseele@ul.com

Comment Deadline: September 24, 2013

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME A112.19.14-201x, Six-Liter Water Closets Equipped with a Dual Flushing Device (revision of ANSI/ASME A112.19.14-2006 (R2011))

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. The tests specified in this Standard are for the removal of liquid wastes and toilet tissue or other comparable waste loads that are expected when actuating the reduced flush feature of the unit.

The use of alternate materials or methods is permitted, provided that the proposed material and method comply with the performance requirements and the intent of this Standard.

Single copy price: Free

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

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B29.26M-200x, Fatigue Testing Power Transmission Roller Chain (revision of ANSI/ASME B29.26M-2001)

This Standard covers fatigue testing, in axial tension, of power transmission roller chains in ASME B29.1M and ASME B29.3M, and nonstandard variants of those chains.

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: Calvin Gomez, (212) 591-7021, gomezc@asme.org

ASSE (ASC A10) (American Society of Safety Engineers)

Revision

BSR/ASSE A10.4-201x, Safety Requirements for Personnel Hoists and Employee Elevators on Construction and Demolition Sites (revision of ANSI/ASSE A10.4-2007)

This standard applies to the design, construction, installation, operation, inspection, testing, maintenance, alterations and repair of hoists and elevators that (1) are not an integral part of buildings, (2) are installed inside or outside buildings or structures during construction, alteration, demolition or operations and (3) are used to raise and lower workers and other personnel connected with or related to the structure. These personnel hoists and employee elevators may also be used for transporting materials under specific circumstances defined in this standard.

Single copy price: $50.00

Obtain an electronic copy from: TFisher@ASSE.Org

Order from: Timothy Fisher, (847) 768-3411, TFisher@ASSE.Org

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

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

Revision

BSR/IAPMO Z1000-201x, Prefabricated Septic Tanks (revision of ANSI/IAPMO Z1000-2006)

This Standard covers prefabricated septic tanks made of concrete, fiber-reinforced polyester (FRP), thermoplastic, or steel, intended for use in residential or commercial sewage disposal systems, and specifies design, material, performance testing, and marking requirements.

Single copy price: $50.00

Obtain an electronic copy from: standards@iapmostandards.org

Order from: Abraham Murra, (909) 472-4106, abraham.murra@IAPMOstandards.org

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

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

Revision

BSR/IAPMO Z1001-201x, Prefabricated Gravity Grease Interceptors (revision of ANSI/IAPMO Z1001-2006)

This Standard covers is to establish specifications regarding the construction of prefabricated gravity grease interceptors made of concrete, fiber-reinforced polyester (FRP), thermoplastic, or steel and specifies design, material, performance, testing, and marking requirements.

Single copy price: $50.00

Obtain an electronic copy from: standards@iapmostandards.org

Order from: Abraham Murra, (909) 472-4106, Abraham.murra@iapmort.org

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2158A-201X, Standard for Safety for Clothes Dryer Transition Duct (new standard)

UL proposes the first edition of the Standard for Clothes Dryer Transition Duct, UL 2158A.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

Order from: comm2000

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

Projects Withdrawn from Consideration

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

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

BSR INCITS PN-1421-D-200x, Information Technology - Quality and Performance of Office Equipment that May Contain Reused Components (new standard)

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

BSR INCITS PN-1422-D-200x, Information Technology - Life Expectancy of Images from Office Equipment (new standard)

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

BSR INCITS PN-1433-D-200x, Determination of Image Quality for Printer Systems (new standard)

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

BSR INCITS PN-1440-D-200x, Measurement of Banding for Printer and Copier Hard Copy Output (new standard)

Technical Reports Registered with ANSI

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

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

AAMI (Association for the Advancement of Medical Instrumentation)

AAMI/ISO 24971:2013, Medical devices - Guidance on the application of ISO 14971 (TECHNICAL REPORT) (technical report)

Provides guidance in addressing specific areas of ISO 14971 when implementing risk management.

Single copy price: $50.00 (AAMI members); $100.00 (nonmembers)

Order from: Hillary Woehrle, (703) 525-4890, HWoehrle@aami.org; customerservice@aami.org

Send comments (with copy to psa@ansi.org) to: Hillary Woehrle hwoehrle@aami.org

Corrections

Incorrect Contact Information

BSR/ACCA 12 QH-201x

In the Call-for-Comment section of the July 19, 2013 issue of Standards Action, the contact information provided for the (revision and redesignation of ANSI/ACCA 12 QH-2011) had an error. It should have been listed as “Send comments (with copy to psa@ansi.org) to: Dick Shaw: standards-sec@acca.org”.

Incorrect Project Intents

BSR J-STD-036-C-1-201x

In the Call-for-Comment section of the July 19, 2013 issue of Standards Action, the Project Intent information for BSR J-STD-036-C-1-201x was incorrect. It should have been “(addenda to ANSI J-STD-036-C-2011)”.

BSR/ASME B29.400-2001 (R201x)

In the Call-for-Comment section of the July 12, 2013 issue of Standards Action, the Project Intent for BSR/ASME B29.400-2001 (R201x) was incorrectly listed. It should have been designated as a “(reaffirmation of ANSI/ASME B29.400-2001 (R2008))”.

NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

The National Fire Protection Association announced the availability of its *Second Draft Report* (previously ROC) for concurrent review and comment by NFPA and ANSI in the Volume 44, Number 30 issue of Standards Action.

The disposition of all comments received will now be published in the *Second Draft Report* (formally *Report on Comments, ROC*) located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example, www.nfpa.org/101next), can easily access the document's information page.

These documents are for the NFPA 2013 Fall Revision Cycle. The proposed NFPA documents addressed in the *First Draft Report (FDR)* (formally *Report on Proposals, ROP*) and in the follow-up *Second Draft Report (SDR)* will only be presented for action at the NFPA June 2014 Association Technical Meeting to be held June 9-12, 2014 in Las Vegas, NV when a proper Notice of Intent to Make a Motion (NITMAM) has been submitted to the NFPA by the deadline of August 23, 2013. NITMAMs submitted on Public Comments (PC) can only be submitted by the original submitter of the PC or their duly represented Designated Representative. NITMAMs can be made by anyone if the NITMAM is on a Committee Comment, Second Revision, or Second Correlating Revision or in the case of a new standard, a NITMAM to Return the Entire NFPA Standard. Additional information on NITMAMs and authorized submitters can be found in the *Regulations Governing the Development of NFPA Standards*. Instructions on how to submit NITMAMs electronically are located in the Document's Second Draft Report.

Documents that receive no motions will not be presented at the meeting and instead will be forwarded directly to the Standards Council for action on issuance. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (www.nfpa.org) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of Standards Review.

Comment Deadline: September 9, 2013

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 37-201x, Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines (revision of ANSI/NFPA 37-2010)

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

BSR/NFPA 69-201x, Standard on Explosion Prevention Systems (revision of ANSI/NFPA 69-2007)

Covers the design, construction, operation, maintenance and testing of systems for the prevention of deflagration explosions by means of the following methods: (a) control of oxidant concentration; (b) control of combustible concentration; (c) explosion suppression; (d) deflagration pressure containment; and (e) spark extinguishing systems.

BSR/NFPA 82-201x, Standard on Incinerators and Waste and Linen Handling Systems and Equipment (revision of ANSI/NFPA 82-2009)

This standard covers requirements for the installation, maintenance, and use of waste and recyclables storage rooms, containers, handling systems, incinerators, compactors, and linen and laundry handling systems. This standard does not include design criteria for the purpose of reducing air pollution. For such criteria, consult the authorities having jurisdiction. The requirements in this standard shall not apply to one- or two-family residential structures.

BSR/NFPA 730-201x, Guide for Premises Security (revision of ANSI/NFPA 730-2011)

This guide describes construction, protection, occupancy features, and practices intended to reduce security vulnerabilities to life and property. This guide is not intended to supersede government statutes or regulations.

BSR/NFPA 731-201x, Standard for the Installation of Electronic Premises Security Systems (revision of ANSI/NFPA 731-2011)

This standard covers the application, location, installation, performance, testing, and maintenance of electronic premises security systems and their components.

BSR/NFPA 750-201x, Standard on Water Mist Fire Protection Systems (revision of ANSI/NFPA 750-2010)

This standard contains the minimum requirements for the design, installation, maintenance, and testing of water-mist fire protection systems. This standard does not provide definitive fire performance criteria, nor does it offer specific guidance on how to design a system to control, suppress, or extinguish a fire. Reliance is placed on the procurement and installation of listed water-mist equipment or systems that have demonstrated performance in fire tests as part of a listing process.

BSR/NFPA 921-201x, Guide for Fire and Explosion Investigations (revision of ANSI/NFPA 921-2011)

This document is designed to assist individuals who are charged with the responsibility of investigating and analyzing fire and explosion incidents and rendering opinions as to the origin, cause, responsibility, or prevention of such incidents.

BSR/NFPA 1005-201x, Standard for Professional Qualifications for Marine Fire Fighting for Land-Based Fire Fighters (revision of ANSI/NFPA 1005 -2006)

This standard identifies the minimum job performance requirements (JPRs) for land-based fire fighters responsible for fire-fighting operations aboard commercial/military vessels over 50 ft involved in a fire, which call at North American ports or which are signatory to the International Safety of Life at Sea (SOLAS) Agreement.

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

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

BSR/NFPA 1194-201x, Standard for Recreational Vehicle Parks and Campgrounds (revision of ANSI/NFPA 1194-2011)

This standard shall provide minimum construction requirements for safety and health for occupants using facilities supplied by recreational vehicle parks and campgrounds offering temporary living sites for use by recreational vehicles, recreational park trailers, and other camping units. This standard shall not cover the design of recreational vehicles, recreational park trailers, or other forms of camping units. This standard shall not cover operational and maintenance practices for recreational vehicle parks and campgrounds.

BSR/NFPA 1561-201x, Standard on Emergency Services Incident Management System (revision of ANSI/NFPA 1561-2008)

This standard contains the minimum requirements for an incident management system to be used by emergency services to manage all emergency incidents.

BSR/NFPA 1670-201x, Standard on Operations and Training for Technical Search and Rescue Incidents (revision of ANSI/NFPA 1670-2009)

This standard shall identify and establish levels of functional capability for conducting operations at technical search and rescue incidents while minimizing threats to rescuers. This standard was developed to define levels of preparation and operational capability that should be achieved by any authority having jurisdiction (AHJ) that has responsibility for technical rescue operations. These defined levels provide an outline of a system used to manage an incident efficiently and effectively, to maximize personnel safety, and to bring about the successful rescue of victims and the eventual termination of the event.

BSR/NFPA 1963-201x, Standard for Fire Hose Connections (revision of ANSI/NFPA 1963-2009)

This standard gives the performance requirements for new fire hose couplings and adapters with nominal sizes from 3/4 in. (19 mm) through 8 in. (200 mm) and the specifications for the mating surfaces. Some fire-fighting organizations use small hose [less than 3/4 in. (19 mm) nominal diameter] fitted with garden hose couplings. Such couplings should have 0.75-11.5 NH (garden hose thread) threads conforming to ANSI/ASME B1.20.7, Standard on Hose Coupling Screw Threads.

BSR/NFPA 1975-201x, Standard on Station/Work Uniforms for Emergency Services (revision of ANSI/NFPA 1975-2009)

This standard shall specify requirements for the design, performance, testing, and certification of nonprimary protective station/work uniforms and the individual garments comprising station/work uniforms. This standard shall also specify requirements for the thermal stability of textiles used in the construction of station/work uniforms. This standard shall also specify optional requirements for flame-resistant textiles where such textiles are specified or claimed to be used in construction of station/work uniforms. This standard shall not specify requirements for clothing that is intended to provide primary protection from given hazard exposures.

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.

ASSE (ASC A10) (American Society of Safety Engineers)

Office: 1800 East Oakton Street
Des Plaines, IL 60018-2187

Contact: *Timothy Fisher*

Phone: (847) 768-3411

Fax: (847) 296-9221

E-mail: TFisher@ASSE.org

BSR/ASSE A10.4-201x, Safety Requirements for Personnel Hoists and Employee Elevators on Construction and Demolition Sites (revision of ANSI/ASSE A10.4-2007)

BHMA (Builders Hardware Manufacturers Association)

Office: 355 Lexington Avenue
New York, NY 10017

Contact: *Emily Brochstein*

Phone: (212) 297-2126

Fax: (212) 370-9047

E-mail: ebrochstein@kellencompany.com

BSR/BHMA A156.37-201x, Multipoint Locks (new standard)

ISA (ISA)

Office: 67 Alexander Drive
Research Triangle Park, NC 27709

Contact: *Eliana Brazda*

Phone: (919) 990-9228

Fax: (919) 549-8288

E-mail: ebrazda@isa.org

BSR/ISA 92.00.02-201x, Installation, Operation, and Maintenance of Toxic Gas-Detection Instruments (new standard)

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

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

Contact: *Barbara Bennett*

Phone: (202) 626-5743

Fax: (202) 638-4922

E-mail: comments@itic.org

INCITS/ISO/IEC 10646:2012/Amd 1:2013, Information technology - Universal Coded Character Set (UCS) - Amendment 1: Linear A, Palmyrene, Manichaean, Khojki, Khudawadi, Bassa Vah, Duployan, and other characters (identical national adoption of ISO/IEC 10646:2012/Amd 1:2013)

MSS (Manufacturers Standardization Society)

Office: 127 Park Street, NE
Vienna, VA 22180-4602

Contact: *Robert O'Neill*

Phone: (703) 281-6613

Fax: (703) 281-6671

E-mail: boneill@mss-hq.org

BSR/MSS SP-138-201x, Quality Standard Practice for Oxygen Cleaning of Valves and Fittings (new standard)

NEMA (ASC C29) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Suite 1752
Rosslyn, VA 22209

Contact: *Steve Griffith*

Phone: (703) 841-3297

Fax: 703-841-3397

E-mail: Steve.Griffith@nema.org

BSR C29.12-201x, Standard for Composite Insulators - Transmission Suspension Type (revision of ANSI C29.12-1997 (R2012))

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: *Charles Bohanan*

Phone: (770) 209-7276

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 699 om-201x, Analysis of pulping liquors by suppressed ion chromatography (new standard)

Final Actions on American National Standards

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

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME A112.19.2/CSA B45.1-2013, Ceramic plumbing fixtures (revision, redesignation and consolidation of ANSI/ASME A112.19.2 -2008/CSA B45.1-2008, Updates #1 & #2): 7/23/2013

ASTM (ASTM International)

New Standard

ANSI/ASTM F2983-2013, Guide for Manufacturers for Labeling and Care Instructions for Wrestling Mats (new standard): 7/1/2013

Reaffirmation

ANSI/ASTM E2336-2004 (R2013), Test Methods for Fire Resistive Grease Duct Enclosure Systems (reaffirmation of ANSI/ASTM E2336-2004 (R2009)): 7/1/2013

Revision

ANSI/ASTM F2087-2013, Specification for Packing, Fiberglass, Braided, Rope, and Wick (revision of ANSI/ASTM F2087-2001 (R2007)): 7/1/2013

NFPA (National Fire Protection Association)

Revision

ANSI/NFPA 790-2013, Standard for Competency of Third-Party Field Evaluation Bodies (revision of ANSI/NFPA 790-2011): 7/18/2013

ANSI/NFPA 791-2013, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation (revision of ANSI/NFPA 791-2011): 7/18/2013

ANSI/NFPA 1720-2013, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations and Special Operations to the Public by Volunteer Fire Departments (revision of ANSI/NFPA 1720-2010): 7/18/2013

NSF (NSF International)

Revision

* ANSI/NSF 14-2013 (i48), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2013): 7/17/2013

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 248-16-2004 (R2013), Standard for Safety for Low-Voltage Fuses - Part 16: Test Limiters (reaffirmation of ANSI/UL 248-16 -2004 (R2008)): 7/23/2013

ANSI/UL 497-2004 (R2013), Standard for Safety for Protectors for Paired-Conductor Communications Circuits (reaffirmation of ANSI/UL 497-2004): 7/19/2013

Revision

ANSI/UL 142-2013, Standard for Safety for Steel Aboveground Tanks for Flammable and Combustible Liquids (revision of ANSI/UL 142 -2010a): 7/18/2013

ANSI/UL 768-2013, Standard for Safety for Combination Locks (Proposal dated 12-02-11 & 4-26-13) (revision of ANSI/UL 768 -2010): 7/10/2013

ANSI/UL 1066-2013, Standard for Safety for Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures (revision of ANSI/UL 1066-2012): 7/16/2013

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. To view information about additional standards for which a PINS has been submitted and to search approved ANS, please visit www.NSSN.org, which is a database of standards information. Note that this database is not exhaustive.

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.

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

Office: 2111 Wilson Boulevard
Suite 500
Arlington, VA 22201

Contact: *Daniel Abbate*

Fax: (703) 562-1942

E-mail: dabbate@ahrinet.org

BSR/AHRI Standard 1360 (I-P)-201x, Performance Rating of Computer and Data Processing Room Air Conditioners (new standard)

Stakeholders: This standard is intended for the guidance of the industry, including manufacturers, engineers, installers, contractors, and users.

Project Need: The purpose of this standard is to establish for computer and data processing room air conditioners: definitions; classification; test requirements; rating requirements, minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to floor-mounted Computer and Data Processing Room Air Conditioners (CDPR), which have three types: up-flow air discharge, down-flow air discharge, and horizontal free-air discharge, as illustrated in Figure 1.

ASME (American Society of Mechanical Engineers)

Office: Two Park Avenue
New York, NY 10016

Contact: *Mayra Santiago*

Fax: (212) 591-8501

E-mail: ANSIBox@asme.org

BSR/ASME B29.21M-200x, 700 Class Chains, Attachments and Sprocket Teeth for Water and Sewage Treatment Plants (new standard)

Stakeholders: Manufacturers, distributors and users of 700 Class chains, attachments and sprocket teeth for water and sewage treatment plants.

Project Need: Expand coverage of standard to include additional product lines.

This Standard covers the various types of 700 Class welded steel and cast chains, attachments and sprockets, namely straight sidebar type; curved sidebar type; and associated sprockets.

BSR/ASME B107.500-201x, Pliers (revision of ANSI/ASME B107.46M -2004)

Stakeholders: Manufacturers and users of pliers.

Project Need: To revise to reflect the current state of the art.

This Standard defines essential performance and safety requirements for several types of pliers, including long nose pliers, shears, electronic pliers, and wire cutters. It specifies test methods to evaluate performance related to the defined requirements and safety and indicates limitations of safe use.

BSR/ASME PTC 19.5-201x, Flow Measurement (revision of ANSI/ASME PTC 19.5-2004 (R2013))

Stakeholders: Manufacturers and users of flow meters.

Project Need: Revise to reflect current state of the art.

This Supplement describes the techniques and methods of all flow measurements required or recommended by the Performance Test Codes. Newer flow measurement techniques of comparably high accuracy are included to provide alternative flow measurements for special situations in which deviations from the requirements of a code are agreed to be necessary. This is a supplementary document that does not supersede the mandatory requirements of any code unless such an agreement has been expressed in writing prior to testing.

CEA (Consumer Electronics Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Fax: (703) 907-4197

E-mail: vlancaster@ce.org

* BSR/CEA 608-F-201x, Line 21 Data Services (revision and redesignation of ANSI/CEA 608-E-2008)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Revise ANSI/CEA 608-E.

CEA-608-E is a technical standard and guide for using or providing Closed Captioning services or other data services embedded in line 21 of the vertical blanking interval of the NTSC video signal. This includes provision for encoding equipment and/or decoding equipment to produce such material as well as manufacturers of television receivers which are required to include such decoders in their equipment as a matter of regulation (see Annex F).

CSA (CSA Group)

Office: 8501 East Pleasant Valley Rd.
Cleveland, OH 44131

Contact: *Cathy Rake*

Fax: (216) 520-8979

E-mail: cathy.rake@csagroup.org

* BSR Z21.97-201x, Standard for Outdoor Decorative Gas Appliances (same as CSA 2.41) (revision of ANSI Z21.97-2012)

Stakeholders: Manufacturers, utilities, consumers, testing agencies.

Project Need: Update and revise text.

Decorative gas appliances for outdoor installation for use with natural gas and propane. For connection to a fixed fuel piping system, or an integral self-contained liquefied petroleum gas supply system, provided the appliance incorporates mounting means for the attachment of a maximum of two cylinders, or to a remote self-contained liquefied petroleum gas supply system. These requirements apply to appliances operating at inlet gas pressures not exceeding 1/2 psig (3.5 kPa).

NEMA (ASC C29) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Suite 1752
Rosslyn, VA 22209

Contact: *Steve Griffith*

Fax: 703-841-3397

E-mail: Steve.Griffith@nema.org

BSR C29.12-201x, Standard for Composite Insulators - Transmission Suspension Type (revision of ANSI C29.12-1997 (R2012))

Stakeholders: Manufacturers, electric power utility companies, public utilities, high-voltage electric transmission systems.

Project Need: Need for a revision on the standard for composite insulators-transmission suspension type.

This standard covers composite suspension (tension) insulators with a minimum section length of 46 inches (1168.4 mm) made of a fiberglass-reinforced resin matrix core, polymer material weathersheds, and metal end fittings intended for use on overhead transmission lines for electric power systems.

SCTE (Society of Cable Telecommunications Engineers)

Office: 140 Philips Rd.
Exton, PA 19341

Contact: *Travis Murdock*

Fax: (610) 363-7133

E-mail: tmurdock@scte.org

BSR/SCTE 67-201x, Recommended Practice for SCTE 35 Digital Program Insertion Cueing Message for Cable (revision of ANSI/SCTE 67-2010)

Stakeholders: Cable Telecommunications Industry.

Project Need: Revise current ANS.

The goal of this Interpretation document is to serve as an informational enhancement to SCTE 35, Digital Program Insertion Cueing Message for Cable. SCTE 35 is necessarily brief in many areas in order to maintain conciseness and accuracy. This document serves as a companion to SCTE 35.

BSR/SCTE 87-1-201x, Graphic Symbols for Cable Systems - Part 1: HFC Symbols (revision of ANSI/SCTE 87-1-2008)

Stakeholders: Cable Telecommunications Industry.

Project Need: Revise current ANS.

The symbols for devices do not indicate types or model numbers of any manufacturer. They represent the function of the device operated within a cable system. The symbols permit easy addition of model or type numbers within or near their outline.

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: *Charles Bohanan*

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 699 om-201x, Analysis of pulping liquors by suppressed ion chromatography (new standard)

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 standard in order to revise it, if needed to address new technology or correct errors.

This method provides procedures for determination of sulfide, sulfite, sulfate, thiosulfate, chloride, and carbonate in white, green, and black liquors and in solidified smelt. In addition, procedures for determining oxalate, lactate, formate, acetate, and propionate in black liquor are provided.

American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provide 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)
- AAMVA (American Association of Motor Vehicle Administrators)
- AGA (American Gas Association)
- AGSC (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- MHI (ASC MH10) (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

To obtain additional information with regard to these standards, such as contact information at the ANSI accredited standards developer, please visit ANSI Online at www.ansi.org, select Internet Resources, click on "Standards Information," and see "American National Standards Maintained Under Continuous Maintenance". This information is also available directly at www.ansi.org/publicreview.

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

ANSI-Accredited Standards Developers Contact Information

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

AAMI
Association for the Advancement of Medical Instrumentation

4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633
Phone: (703) 525-4890
Fax: (703) 276-0793
Web: www.aami.org

AHRI
Air-Conditioning, Heating, and Refrigeration Institute

2111 Wilson Boulevard
Suite 500
Arlington, VA 22201
Phone: (703) 600-0327
Fax: (703) 562-1942
Web: www.ahrinet.org

ASC X9
Accredited Standards Committee X9, Incorporated

1212 West Street
Suite 200
Annapolis, MD 21401
Phone: (410) 267-7707
Fax: (410) 267-0961
Web: www.x9.org

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

1791 Tullie Circle, NE
Atlanta, GA 30329
Phone: (404) 636-8400
Fax: (404) 321-5478
Web: www.ashrae.org

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

ASSE (Safety)
American Society of Safety Engineers

1800 East Oakton Street
Des Plaines, IL 60018-2187
Phone: (847) 768-3411
Fax: (847) 296-9221
Web: www.asse.org

ASTM
ASTM International

100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9743
Fax: (610) 834-3655
Web: www.astm.org

BHMA
Builders Hardware Manufacturers Association

355 Lexington Avenue
New York, NY 10017
Phone: (212) 297-2126
Fax: (212) 370-9047
Web: www.buildershardware.com

CEA
Consumer Electronics Association

1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Fax: (703) 907-4197
Web: www.ce.org

CSA
CSA Group

8501 East Pleasant Valley Rd.
Cleveland, OH 44131
Phone: (216) 524-4990
Fax: (216) 520-8979
Web: www.csa-america.org

IAPMO (ASC Z124)
International Association of Plumbing & Mechanical Officials

5001 East Philadelphia Street
Ontario, CA 91761-2816
Phone: (909) 472-4106
Fax: (909) 472-4150
Web: www.iapmort.org

ISA (Organization)
ISA-The Instrumentation, Systems, and Automation Society

67 Alexander Drive
Research Triangle Park, NC 27709
Phone: (919) 990-9228
Fax: (919) 549-8288
Web: www.isa.org

ITI (INCITS)
InterNational Committee for Information Technology Standards

1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 626-5743
Fax: (202) 638-4922
Web: www.incits.org

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.orgdefault.asp

MSS
Manufacturers Standardization Society

127 Park Street, NE
Vienna, VA 22180-4602
Phone: (703) 281-6613
Fax: (703) 281-6671
Web: www.mss-hq.org

NEMA (ASC C29)
National Electrical Manufacturers Association

1300 North 17th Street
Suite 1752
Rosslyn, VA 22209
Phone: (703) 841-3297
Fax: 703-841-3397
Web: www.nema.org

NFPA
National Fire Protection Association

One Batterymarch Park
Quincy, MA 02169-7471
Phone: (617) 770-3000
Fax: (617) 770-3500
Web: www.nfpa.org

NGWA
National Ground Water Association

601 Dempsey Road
Westerville, 43081-8978
Phone: (614) 898-7791 x511
Fax: (614) 898-7786
Web: www.ngwa.org

NIST/ITL
National Institute of Standards and Technology/Information Technology Laboratory

100 Bureau Drive
Gaithersburg, MD 20899-8940
Phone: (301) 975-5663
Fax: (301) 975-5287
Web: www.nist.gov

NSF
NSF International

789 N. Dixboro Road
Ann Arbor, MI 48105
Fax: (734) 827-6831
Web: www.nsf.org

SCTE
Society of Cable Telecommunications Engineers

140 Philips Rd.
Exton, PA 19341
Phone: (610) 594-7308
Fax: (610) 363-7133
Web: www.scte.org

SPI
The Society of the Plastics Industry, Inc.

POB 690905
Houston, TX 77269
Phone: (832) 446-6999
Web: www.plasticsindustry.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

UL
Underwriters Laboratories, Inc.

455 E Trimble Road
San Jose, CA 95131-1230
Phone: (408) 754-6684
Fax: (408) 754-6684
Web: www.ul.com

ISO Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to Karen Hughes, at ANSI's New York offices (isot@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

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

ACOUSTICS (TC 43)

ISO 10140-3/DAmd3, Acoustics - Laboratory measurement of sound insulation of building elements - Part 3: Measurement of impact sound insulation - Amendment 3 - 8/19/2013, $29.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 9940, Aerospace series - Fluid, hydraulic, phosphate ester-base, fire resistant - Technical specification - 10/7/2013, $107.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 22514-8, Statistical methods in process management - Capability and performance - Part 8: Machine performance of a multi-state production process - 10/20/2013, $112.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 7240-1, Fire detection and alarm systems - Part 1: General and definitions - 10/24/2013

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 10766, Hydraulic fluid power - Cylinders - Housing dimensions for rectangular-section-cut bearing rings for pistons and rods - 9/29/2013, $53.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19110, Geographic information - Methodology for feature cataloguing - 11/8/2004, $146.00

ISO/DIS 19135-1, Geographic information - Procedures for item registration - Part 1: Fundamentals - 11/30/2012, $146.00

ISO/DIS 19136-2, Geographic information - Geography Markup Language (GML) - Part 2: Extended schemas and encoding rules - 10/6/2013, $155.00

INFORMATION AND DOCUMENTATION (TC 46)

ISO/DIS 18626, Information and documentation - Interlibrary Loan Transactions - 10/6/2013, $102.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 18589-3, Measurement of radioactivity in the environment - Soil - Part 3: Measurement of gamma-emitting radionuclides - 9/29/2013, $82.00

OTHER

ISO/DIS 3380, Leather - Physical and mechanical tests - Determination of shrinkage temperature up to 100°C - 8/26/2013, $40.00

ISO/DIS 17235, Leather - Physical and mechanical tests - Determination of softness - 8/26/2013, $33.00

ISO/DIS 5402-2, Leather - Determination of flex resistance - Part 2: Vamp flex method - 8/26/2013, $40.00

PLASTICS (TC 61)

ISO/DIS 10364, Structural adhesives - Determination of the pot life (working life) of multi-component adhesives - 9/3/2013, $46.00

ISO/DIS 16012, Plastics - Determination of linear dimensions of test specimens - 10/24/2013, $53.00

PROJECT COMMITTEE: ENERGY MANAGEMENT (TC 242)

ISO/DIS 50003, Energy management systems - Requirements for bodies providing audit and certification of energy management systems - 10/6/2013, $82.00

ISO/DIS 50015, Measurement and verification of organizational energy performance - General principles and guidance - 10/6/2013, $82.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

ISO/DIS 17582, Quality management systems - Particular requirements for the application of ISO 9001:2008 for electoral organizations at all levels of government - 10/3/2013, $102.00

ROAD VEHICLES (TC 22)

ISO/DIS 3468, Passenger cars - Windscreen defrosting and demisting systems - Test method - 10/10/2013, $53.00

ISO/DIS 17409, Electrically propelled road vehicles - Connection to an external electric power supply - Safety requirements - 10/6/2013, $71.00

ISO/DIS 16844-4, Road vehicles - Tachograph systems - Part 4: CAN interface - 10/24/2013, $82.00

ISO/DIS 16844-6, Road vehicles - Tachograph systems - Part 6: Diagnostics - 10/24/2013, $62.00

ISO/DIS 16844-7, Road vehicles - Tachograph systems - Part 7: Parameters - 10/24/2013, $146.00

ROLLING BEARINGS (TC 4)

ISO/DIS 464, Rolling bearings - Radial bearings with locating snap ring - Dimensions and tolerances - 10/27/2013

SAFETY OF MACHINERY (TC 199)

ISO 13849-1/DAmd1, Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design - Amendment 1 - 11/30/2013, $107.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 17325-2, Ships and marine technology - marine environment protection - Oil booms - Part 2: Strength and performance requirements - 10/27/2013

SMALL TOOLS (TC 29)

ISO/DIS 1711-1, Assembly tools for screws and nuts - Technical specifications - Part 1: Hand-operated wrenches and sockets - 10/7/2013, $40.00

ISO/DIS 1711-2, Assembly tools for screws and nuts - Technical specifications - Part 2: Machine-operated sockets (impact) - 10/7/2013, $53.00

ISO/DIS 12164-3, Hollow taper interface with flange contact surface - Part 3: Dimensions of shanks for stationary tools - 9/29/2013, $53.00

ISO/DIS 12164-4, Hollow taper interface with flange contact surface - Part 4: Dimensions of receivers for stationary tools - 9/29/2013, $40.00

TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)

ISO/DIS 11040-4, Prefilled syringes - Part 4: Glass barrels for injectables and sterilized subassembled syringes ready for filling - 10/5/2013, $125.00

ISO/DIS 11040-7, Prefilled syringes - Part 7: Packaging systems for sterilized subassembled syringes ready for filling - 10/5/2013, $88.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 15012-4, Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 4: Design requirements - 12/7/2013, $53.00

ISO/DIS 15614-1, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys - 12/7/2013, $107.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 10118-4/DAmd1, Information technology - Security techniques - Hash-functions - Part 4: Hash-functions using modular arithmetic - Amendment 1 - 10/26/2013

ISO/IEC 14496-4/DAmd41, Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 4: Conformance testing of MVC plus depth extension of AVC - 9/29/2013

ISO/IEC 19794-1/DAmd2, Information technology - Biometric data interchange formats - Part 1: Framework - Amendment 2: Framework for XML encoding - 10/20/2013

ISO/IEC DIS 29197, Evaluation Methodology for Environmental Influence in Biometric Systems - 10/20/2013

ISO/IEC CD 11770-3, Information technology - Security techniques - Key management - Part 3: Mechanisms using asymmetric techniques - 10/26/2013

ISO/IEC CD 17811-1, Device Control and Management - Part 1: Architecture - 10/26/2013

ISO/IEC CD 17839-1, Information technology - Identification cards - Biometric system on card - Part 1: Functional architecture - 10/20/2013

ISO/IEC DIS 29794-6, Biometric Sample Quality Standard - Part 6: Iris Image - 10/20/2013

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 27019:2013, Information technology - Security techniques - Information security management guidelines based on ISO/IEC 27002 for process control systems specific to the energy utility industry, $164.00

ACOUSTICS (TC 43)

ISO 2922/Amd1:2013, Acoustics - Measurement of airborne sound emitted by vessels on inland waterways and harbours - Amendment 1, $20.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO 6517:2013, Air cargo - Certified lower deck containers - Design and testing, $126.00

CINEMATOGRAPHY (TC 36)

ISO 4241:2013, Cinematography - Theatre projection leader, trailer and cue marks - Specifications, $90.00

DENTISTRY (TC 106)

ISO 7405/Amd1:2013, Dentistry - Evaluation of biocompatibility of medical devices used in dentistry - Amendment 1: Positive control material, $20.00

ISO 16498:2013, Dentistry - Minimal dental implant data set for clinical use, $60.00

DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

ISO 14253-2/Cor1:2013, Geometrical product specifications (GPS) - Inspection by measurement of workpieces and measuring equipment - Part 2: Guidance for the estimation of uncertainty in GPS measurement, in calibration of measuring equipment and in product verification - Corrigendum, FREE

GAS CYLINDERS (TC 58)

ISO 11120/Amd1:2013, Gas cylinders - Refillable seamless steel tubes for compressed gas transport, of water capacity between 150 l and 3000 l - Design construction and testing - Amendment 1: Requirements for design of tubes for embrittling gases, $20.00

GRAPHIC TECHNOLOGY (TC 130)

ISO 12647-7:2013, Graphic technology - Process control for the production of half-tone colour separations, proof and production prints - Part 7: Proofing processes working directly from digital data, $126.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

IEC 62264-1:2013, Enterprise-control system integration - Part 1: Models and terminology, $285.00

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

ISO 14998:2013, Petroleum and natural gas industries - Downhole equipment - Completion accessories, $172.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 10819:2013, Mechanical vibration and shock - Hand-arm vibration - Measurement and evaluation of the vibration transmissibility of gloves at the palm of the hand, $135.00

NUCLEAR ENERGY (TC 85)

ISO 13304-1:2013, Radiological protection - Minimum criteria for electron paramagnetic resonance (EPR) spectroscopy for retrospective dosimetry of ionizing radiation - Part 1: General principles, $112.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 18899:2013, Rubber - Guide to the calibration of test equipment, $104.00

SAFETY OF MACHINERY (TC 199)

ISO 13856-3:2013, Safety of machinery - Pressure-sensitive protective devices - Part 3: General principles for design and testing of pressure-sensitive bumpers, plates, wires and similar devices, $192.00

SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)

ISO 26824:2013, Particle characterization of particulate systems - Vocabulary, $181.00

SMALL CRAFT (TC 188)

ISO 7840:2013, Small craft - Fire-resistant fuel hoses, $80.00

ISO 8469:2013, Small craft - Non-fire-resistant fuel hoses, $70.00

SOLID MINERAL FUELS (TC 27)

ISO 1170:2013, Coal and coke - Calculation of analyses to different bases, $70.00

ISO 11722:2013, Solid mineral fuels - Hard coal - Determination of moisture in the general analysis test sample by drying in nitrogen, $60.00

STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)

ISO 11137-1/Amd1:2013, Sterilization of health care products - Radiation - Part 1: Requirements for development, validation and routine control of a sterilization process for medical devices - Amendment 1, $20.00

TYRES, RIMS AND VALVES (TC 31)

ISO 3324-1:2013, Aircraft tyres and rims - Part 1: Specifications, $150.00

ISO 3324-2:2013, Aircraft tyres and rims - Part 2: Test methods for tyres, $104.00

ISO Technical Specifications

FOOTWEAR (TC 216)

ISO/TS 16189:2013, Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine dimethylformamide in footwear materials, $60.00

ISO/TS 16190:2013, Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAH) in footwear materials, $60.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 21000-3/Amd2:2013, Information technology - Multimedia framework (MPEG-21) - Part 3: Digital Item Identification - Amendment 2: Digital item semantic relationships, $20.00

ISO/IEC 14496-10/Amd1:2013, Information technology - Coding of audio-visual objects - Part 10: Advanced Video Coding - Amendment 1: Additional profiles and supplemental enhancement information (SEI) messages, $126.00

ISO/IEC 19510:2013, Information technology - Object Management Group Business Process Model and Notation, $285.00

ISO/IEC 30190:2013, Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk, $285.00

ISO/IEC 30191:2013, Information technology - Digitally recorded media for information interchange and storage - 120 mm Triple Layer (100,0 Gbytes per disk) and Quadruple Layer (128,0 Gbytes per disk) BD Recordable disk, $285.00

ISO/IEC 30192:2013, Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk, $285.00

ISO/IEC 30193:2013, Information technology - Digitally recorded media for information interchange and storage - 120 mm Triple Layer (100,0 Gbytes per disk) BD Rewritable disk, $285.00

ISO/IEC 15444-6:2013, Information technology - JPEG 2000 image coding system - Part 6: Compound image file format, $235.00

ISO/IEC 23002-5:2013, Information technology - MPEG video technologies - Part 5: Reconfigurable media coding conformance and reference software, $98.00

ISO/IEC 15444-14:2013, Information technology - JPEG 2000 image coding system - Part 14: XML representation and reference, $235.00

IEC Standards

AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)

IEC 62071-2 Ed. 1.0 b:2005, Helical-scan compressed digital video cassette system using 6,35 mm magnetic tape - Format D-7 - Part 2: Compression format, $337.00

IEC 62297-2 Ed. 1.0 b:2005, Triggering messages for broadcast applications - Part 2: Transport methods, $74.00

FIBRE OPTICS (TC 86)

IEC 61754-4 Ed. 2.0 en:2013, Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 4: Type SC connector family, $227.00

IEC 61280-1-3 Ed. 2.0 b:2010, Fibre optic communication subsystem test procedures - Part 1-3: General communication subsystems - Central wavelength and spectral width measurement, $104.00

IEC 61300-3-2 Ed. 3.0 b:2009, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-2: Examination and measurements - Polarization dependent loss in a single-mode fibre optic device, $92.00

IEC 60793-1-54 Ed. 2.0 b:2012, Optical fibres - Part 1-54: Measurement methods and test procedures - Gamma irradiation, $74.00

IEC 60793-2-30 Ed. 3.0 b:2012, Optical fibres - Part 2-30: Product specifications - Sectional specification for category A3 multimode fibres, $139.00

IEC 61300-2-28 Ed. 2.0 en:2013, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-28: Tests - Industrial atmosphere (sulphur dioxide), $44.00

IEC 61300-2-44 Ed. 3.0 en:2013, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-44: Tests - Flexing of the strain relief of fibre optic devices, $55.00

IEC 61300-3-48 Ed. 1.0 en:2013, Fibre optic interconnect devices and passive components - Basic test and measurement procedures - Part 3-48: Examinations and measurements - Spring compression force of the coupling sleeve for rectangular ferrule multi-fibre connectors, $55.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

IEC 62439-1 Ed. 1.1 b:2013, Industrial communication networks - High availability automation networks - Part 1: General concepts and calculation methods, $403.00

IEC 61158-3-2 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-2: Data-link layer service definition - Type 2 elements, $257.00

IEC 61158-3-7 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-7: Data-link layer service definition - Type 7 elements, $205.00

IEC 61158-3-8 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-8: Data-link layer service definition - Type 8 elements, $205.00

IEC 61158-3-11 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-11: Data-link layer service definition - Type 11 elements, $205.00

IEC 61158-3-16 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-16: Data-link layer service definition - Type 16 elements, $169.00

IEC 61158-3-17 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-17: Data-link layer service definition - Type 17 elements, $185.00

IEC 61158-3-18 Ed. 1.0 b:2007, Industrial communication networks - Fieldbus specifications - Part 3-18: Data-link layer service definition - Type 18 elements, $169.00

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC 60081 Amd.5 Ed. 5.0 b:2013, Amendment 5 - Double-capped fluorescent lamps - Performance specifications, $359.00

POWER CAPACITORS (TC 33)

IEC 60358-1 Ed. 1.0 b cor.1:2013, Corrigendum 1 - Coupling capacitors and capacitor dividers - Part 1: General rules, $0.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

IEC 60870-5-SER Ed. 1.0 b:2013, Telecontrol equipment and systems - Part 5: Transmission protocols - ALL PARTS, $2861.00

SEMICONDUCTOR DEVICES (TC 47)

IEC 62215-3 Ed. 1.0 b:2013, Integrated circuits - Measurement of impulse immunity - Part 3: Non-synchronous transient injection method, $205.00

IEC 62047-11 Ed. 1.0 b:2013, Semiconductor devices - Micro-electromechanical devices - Part 11: Test method for coefficients of linear thermal expansion of free-standing materials for micro-electromechanical systems, $139.00

IEC 62047-18 Ed. 1.0 b:2013, Semiconductor devices - Micro-electromechanical devices - Part 18: Bend testing methods of thin film materials, $74.00

IEC 62047-19 Ed. 1.0 b:2013, Semiconductor devices - Micro-electromechanical devices - Part 19: Electronic compasses, $185.00

SURGE ARRESTERS (TC 37)

IEC 61643-312 Ed. 1.0 b cor.1:2013, Corrigendum 1 - Components for low-voltage surge protective devices - Part 312: Selection and application principles for gas discharge tubes, $0.00

IEC Technical Reports

FIBRE OPTICS (TC 86)

IEC/TR 62658 Ed. 1.0 en:2013, Roadmap of optical circuit boards and their related packaging technologies, $139.00

IEC Technical Specifications

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

IEC/TS 60870-5-7 Ed. 1.0 en:2013, Telecontrol equipment and systems - Part 5-7: Transmission protocols - Security extensions to IEC 60870-5-101 and IEC 60870-5-104 protocols (applying IEC 62351), $257.00

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4946.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

PUBLIC REVIEW

Sentinel Real Estate Corporation

Public Review: July 19 to October 16, 2013

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

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

Proposed Foreign Government Regulations

Call for Comment

U.S. manufacturers, exporters, regulatory agencies and standards developing organizations may be interested in proposed foreign technical regulations issued 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 report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology (NIST), distributes these proposed foreign technical regulations to U.S. stakeholders via an online service, Notify U.S. Notify U.S. is an e-mail and Web service that allows interested U.S. parties to register, obtain notifications, and read full texts of regulations from countries and for industry sectors of interest to them. To register for Notify U.S., please go to Internet URL: http://www.nist.gov/notifyus/ and click on “Subscribe”.

NCSCI is the WTO TBT Inquiry Point for the U.S. and receives all notifications and full texts of regulations to disseminate to U.S. Industry. For further information, please contact: NCSCI, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-2160; Telephone: (301) 975-4040; Fax: (301) 926-1559; E-mail: ncsci@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

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 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 its oversight of programs of its 40+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board seeks to broaden its membership base and is recruiting new participants in the following membership categories:

- special interest (user, academic, consortia)
- non-business (government and major/minor SDOs)

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, please contact Jennifer Garner at 202-626-5737 or jgarner@itic.org. Visit www.INCITS.org for more information regarding INCITS activities.

Calls for Members

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

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

PINS Correction

Incorrect Project Intent

BSR/ISO/ASME 14414-201x

BSR/ISO/ASME 14414-201x, which was listed in the PINS section of the June 21, 2013 issue of Standards Action, should have been designated as a (revision and redesignation of ANSI/ASME EA-2-2009), not as a national adoption.

ANSI Accredited Standards Developers

Reaccreditation

Air Conditioning Contractors of America (ACCA)

Comment Deadline: August 26, 2013

The Air Conditioning Contractors of America (ACCA) has submitted revisions to its currently accredited procedures for documenting consensus on ACCA-sponsored American National Standards, under which it was last reaccredited in 2008. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Dick Shaw, Standards Manager & Technical Education Consultant, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206; phone: 202.251.3835; e-mail: shawddd@aol.com. You may view/download a copy of the revisions during the public review period at the following URL: http://publicaa.ansi.org/sites/apdl/Documents/Forms/AllItems.aspx?RootFolder=%2fsites%2fapdl%2fDocuments%2fStandards%20Activities%2fPublic%20Review%20and%20Comment%2fANS%20Accreditation%20Actions&View=%7b21C60355%2dAB17%2d4CD7%2dA090%2dBABEEC5D7C60%7d. Please submit any public comments on the revised procedures to ACCA by August 26, 2013, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: jthompso@ANSI.org).

ANSI Accreditation Program for Third Party Product Certification Agencies

Voluntary Withdrawal from ANSI Accreditation (of specific scopes)

ACB, Inc.

Ms. Susan Holman
Financial & HR Manager/Quality Assurance Rep.
ACB, Inc.
6731 Whittier Avenue, Suite C110
McLean, VA 22101
Phone: 703-847-4700
Fax: 703-847-6888
E-mail: susan@acbcert.com
Web: www.ACBcert.com

Effective July 18, 2013, ACB, Inc. voluntarily withdrew from ANSI accreditation of the following scopes:

SCOPE(S)

OFCA Radio Equipment Specifications (HKCA 10XX)

HKCA 1001, HKCA 1007, HKCA 1008, HKCA1035, HKCA1039, HKCA 1042, HKCA 1061

If you have any questions regarding this or other matters related to Product Certification Accreditation, please contact Reinaldo Balbino Figueiredo, Senior Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: rfigueir@ansi.org, or Nikki Jackson, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

International Organization for Standardization (ISO)

Call for Comments

ISO/DGUIDE 82 – Guide for Addressing Sustainability in Standards

Comment Deadline: August 2, 2013

The ISO TMB's Sustainability Guide Drafting Group (ISO/TMB/SGDG) has produced a draft guide entitled ISO/DGUIDE 82 - Guide for addressing sustainability in standards. The scope is as follows:

> This guide provides guidance to standards writers on how to take account of sustainability in the drafting of ISO standards and similar deliverables. It outlines a methodology for ISO standards writers to develop their own approach to the task on a subject specific basis.

Organizations interested in submitting comments should contact Rachel Hawthorne at rhawthorne@ansi.org by August 2, 2013.

U.S. Technical Advisory Groups

Application for Accreditation

U.S. TAG to ISO/PC 284 – Management System for Quality of Private Security Company (PSC) Operations – Requirements with Guidance

Comment Deadline: August 26, 2013

ASIS International has submitted an Application for Accreditation for a proposed U.S. Technical Advisory Group (TAG) to ISO/PC 284, Management System for Quality of Private Security Company (PSC) Operations – Requirements with Guidance and a request for approval as TAG Administrator. The proposed TAG will operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

For additional information, or to offer comments, please contact: Ms. Susan M. Carioti, Director, Standards and Guidelines, ASIS International, 1624 Prince Street, Alexandria, VA 22314; phone: 703.518.1416; e-mail: sue.carioti@asisonline.org. Please forward any comments on this application to ASIS International, with a copy to the Recording Secretary, ExSC in ANSI's New York Office (fax: 212.840-2298; e-mail: jthompso@ansi.org) by August 26, 2013.

Meeting Notices

ANSI/ASSE Z359 Committee (Z359 ASC) for Fall Protection and Fall Arrest

The next meeting of the ANSI/ASSE Z359 Committee (Z359 ASC) for Fall Protection and Fall Arrest will be Tuesday, October 22 through Thursday, October 24, 2013 in the Chicago area. If you wish to attend, please contact Tim Fisher for more information: Tim Fisher, (847) 768-3411, TFisher@ASSE.Org.

ANSI-Accredited U.S. TAG to ISO/TC 229 – Nanotechnologies

The ANSI-Accredited U.S. TAG to ISO/TC 229 Nanotechnologies will meet on August 27 – 28, 2013, at the offices of Sidley Austin in Washington, DC. For additional information or to join the U.S. TAG, please contact Heather Benko (hbenko@ansi.org) at ANSI.

Information Concerning

International Organization for Standardization (ISO)

Call for Comments

ISO/TMB – Standards under Systematic Review

Every International Standard published by ISO shall be subject to systematic review in order to determine whether it should be confirmed, revised/amended, converted to another form of deliverable, or withdrawn at least once every five years.

ISO has launched Systematic Review ballots on the following standards that are the responsibility of the ISO/TMB:

- **ISO 310:1992 (Ed 3, vers 4),** Manganese ores and concentrates -- Determination of hygroscopic moisture content in analytical samples -- Gravimetric method
- **ISO 312:1986 (Ed 3, vers 4),** Manganese ores -- Determination of active oxygen content, expressed as manganese dioxide -- Titrimetric method
- **ISO 554:1976 (vers 6),** Standard atmospheres for conditioning and/or testing -- Specifications
- **ISO 4293:1982 (vers 3),**Manganese ores and concentrates -- Determination of phosphorus content -- Extraction-molybdovanadate photometric method
- **ISO 4296-1:1984 (vers 3),** Manganese ores -- Sampling -- Part 1: Increment sampling
- **ISO 4571:1981 (vers 5),** Manganese ores and concentrates -- Determination of potassium and sodium content -- Flame atomic emission spectrometric method
- **ISO 5890:1981 (vers 5),** Manganese ores and concentrates -- Determination of silicon content -- Gravimetric method
- **ISO 6129:1981 (vers 5),** Chromium ores -- Determination of hygroscopic moisture content in analytical samples -- Gravimetric method
- **ISO 6130:1985 (vers 3),** Chromium ores -- Determination of total iron content -- Titrimetric method after reduction
- **ISO 7990:1985 (vers 3),** Manganese ores and concentrates -- Determination of total iron content -- Titrimetric method after reduction and sulfosalicylic acid spectrophotometric method
- **ISO 8530:1986 (vers 4),** Manganese and chromium ores -- Experimental methods for checking the precision of sample division
- **ISO 8542:1986 (vers 4),** Manganese and chromium ores -- Experimental methods for evaluation of quality variation and methods for checking the precision of sampling

As there is no accredited U.S. TAG to provide the U.S. consensus positions on these documents, we are seeking comments from any directly and materially affected parties.

Organizations or individuals interested in submitting comments or in requesting additional information should contact ISOT@ansi.org.

Information Concerning

International Electrotechnical Commission (IEC)

New Field of Technical Activity

Proposal for a new technical committee entitled “Switchgear and controlgear and their assemblies for low voltage”

Comment Deadline: August 30, 2013

The IEC National Committees have been invited to vote before September, 6, 2013 on a proposal by IEC SC17B and IEC SC17D Secretaries for a New Field of Technical Activity – Switchgear and Controlgear and Their Assemblies for Low Voltage.

> Draft Scope: To prepare international standards for low-voltage switchgear and controlgear equipment for industrial, commercial and similar use rated below or equal to 1 kV a.c. and 1,5 kV d.c, electromechanical as well as semiconductor (solid state) equipment. The scope includes open and enclosed separate items of equipment as well as assemblies which are the combinations of items of equipment into complete functional units.
>
> Purpose and Justification: Introduction: After the consultation made by TC 17 (document 17/996/Q) about its structure, the resulting comments (document 17/998/RQ) have pointed the necessity for a stronger coordination between SC 17B and SC 17D which was not easy without any activities at TC 17 level. The document proposes a new organization for low voltage activities.
>
> Business: In mature countries, most of the devices covered by SC 17B are integrated within assemblies covered by SC 17D. Continued effort is required to ensure wider adoption of the standards in less developed markets and countries. The market trend is to optimise solutions in terms of functions and performance, at a high level of safety for each domain of application, for example: infrastructure, building, machinery, etc. This implies a stronger coordination between component and assembly standards committees, especially for new industrial applications, such as PV, windmills, etc.
>
> Technology: The new trends are the incorporation of more electronic parts in switchgear, of more IT subsystems integrated in assemblies, of DC power supply distribution and of aluminum conductors. These are the challenges for future common rules in SC 17B and SC 17D.

The U S National Committee has been invited to indicate if it agrees with the scope proposed for this new IEC TC, if it wishes to register as a Participating Member and if it intends to actively participate. If the USNC is to become a P Member, a Technical Advisory Group (TAG) will have to be established and a TAG Administrator will have to be assigned. If any entities are interested in the position of TAG Administrator, they are invited to contact by FRIDAY, AUGUST 30, 2013, Tony Zertuche, USNC Deputy General Secretary, at tzertuche@ansi.org.

Information Concerning

International Electrotechnical Commission (IEC)

New Field of Technical Activity

Proposal for a new technical committee on UHV AC transmission systems

Comment Deadline: August 30, 2013

The IEC National Committees have been invited to vote before September 6, 2013 on a proposal from the Chinese National Committee for a New Field of Technical Activity – UHV AC transmission systems.

> Draft Scope: Standardization in the field of AC transmission technology at 1000 kV and above, comprising systems-oriented guidance such as that for planning, design aspects, technical requirements, construction, commissioning, reliability, availability, operation and maintenance. Processes for specifying requirements and demonstrating whether the required performance of UHV systems is assured.
>
> Responsibility for equipment standards remains with product TCs, except for specific equipment which is not within the scope of an existing TC but is nevertheless essential for the UHV transmission system. The UHV AC Transmission TC will consult and coordinate with the product TCs in all systems-related aspects of equipment standards.

The U S National Committee has been invited to indicate if it agrees with the scope proposed for this new IEC TC, if it wishes to register as a Participating Member and if it intends to actively participate. If the USNC is to become a P Member, a Technical Advisory Group (TAG) will have to be established and a TAG Administrator will have to be assigned. If any entities are interested in the position of TAG Administrator, they are invited to contact by FRIDAY, AUGUST 30, 2013, Tony Zertuche, USNC Deputy General Secretary, at tzertuche@ansi.org.

BSR/ASHRAE/IES/USGBC Addendum an to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011

Public Review Draft

Proposed Addendum an to Standard 189.1-2011 Standard for the Design of High-Performance Green Buildings
Except Low-Rise Residential Buildings

First Public Review (July 2013)
(Draft Shows Proposed Changes to Current Standard)

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed addendum, go to the ASHRAE website at http://www.ashrae.org/technology/page/331 and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE web site) remains in effect.

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AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR-CONDITIONING ENGINEERS, INC. 1791 Tullie Circle, NE Atlanta GA 30329-2305

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

FOREWORD

This addendum makes changes to Table 7.5.3 which has equivalent carbon dioxide emission rates (CO_2e) for common energy sources used in buildings. The energy performance option (Section 7.5) has three tests: energy cost, electric peak and CO_2e emissions. Values in Table 7.5.3 are used to determine the CO_2e emission rates for both the baseline and the proposed design.

The table values are updated for a number of reasons, primarily the shift in the electric generation industry from coal to natural gas since the table was last published. Modifications to the table also respond to requests to add data for district energy (purchased steam, chilled water and hot water), and biomass.

The proposed values include both direct emissions at the building as well as indirect (upstream) emissions. The methodology used to derive the recommended values is consistent with the 2007 NREL report entitled "Source Energy and Emission Factors for Energy Use in Buildings", but uses more current information from EIA, EPA, USGBC, DOE, and NREL, as well as public information from industry groups, trade associations, and web sites.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.

Addendum an to 189.1-2011

Modify Table 7.5.3 as follows:

7.5.3 Annual Carbon Dioxide Equivalent (CO2e). The *building project* shall have an annual *CO2e* less than or equal to that achieved by compliance with Sections 7.3 and 7.4, and Sections 5.3.2.2, 5.3.2.3, 6.3.2, 6.4.2, 8.3.1, 8.3.4, and 8.4.1. Comparisons shall be made using Normative Appendix D provided that the baseline building design is calculated in accordance with Section 7.5.2. To determine the *CO2e* value for each energy source supplied to the *building project*, multiply the energy consumption by the emissions factor. *CO2e* emission factors shall be taken from Table 7.5.3.

Table 7.5.3 CO_2e Emission Factors

***Building Project* Energy Source**	**CO2e lb/kWh (kg/kWh)**
Grid delivered electricity and other fuels not specified in this table	~~1.670 (0.758)~~ 1.387 (0.630)
LPG or propane	~~0.602 (0.274)~~ 0.600 (0.272)

Fuel Oil (residual)	~~0.686 (0.312)~~ 0.751 (0.341)
Fuel Oil (distillate)	~~0.614 (0.279)~~ 0.706 (0.320)
Coal ~~(except lignite)~~	~~0.822 (0.373)~~ 0.836 (0.379)
~~Coal (lignite)~~	~~1.287 (0.583)~~
Gasoline	~~0.681 (0.309)~~ 0.689 (0.313)
Natural Gas	~~0.510 (0.232)~~ 0.483 (0.219)
Wood and Wood Waste	0.751 (0.341)
Agricultural Biomass	0.943 (0.428)
District Chilled Water	0.332 (0.151)
District Steam	0.812 (0.368)
District Hot Water	0.767 (0.348)

Note: The values in this table are national averages for the United States and include both direct and indirect emissions.

BSR/ASHRAE/IES/USGBC Addendum ao to ANSI/ASHRAE/USGBC/IES Standard 189.1-2011

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FOREWORD

This addendum is intended to clarify the requirements for sealing air filter installations, which are currently overly vague and difficult to interpret. The SSPC has already received one interpretation request, which was challenging to response to given the existing requirements. The changes describe where and what type of sealing is required.

Note: In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~strikethrough~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes. Only these changes are open for review and comment at this time. Additional material is provided for context only and is not open for comment except as it relates to the proposed substantive changes.

Addendum ao to 189.1-2011

Modify Table 7.5.3 as follows:

8.3.1.3 Filtration and Air Cleaner Requirements

c. **~~Bypass Pathways~~ Sealing.** ~~All filter frames, air cleaner racks, access doors, and air cleaner cartridges shall be sealed.~~ Where particulate matter filters or air cleaners are required by 8.3.1.3, filter tracks, filter supports, filters and access doors shall be sealed in accordance with the following:

Where filter track and filter support systems incorporate multiple filters, the gap between each filter shall be sealed with a gasket and the gap between the filter and its track or support shall be sealed using gaskets that expand when the filter is removed. Filter support systems shall include a filter-to-support gasket permanently installed on the filter support, except for filter track and filter support systems that seal around the filter by means of a friction fit.

Filter tracks and filter supports shall be sealed to the HVAC equipment housing and ducts by a sealant or other sealing method.

Filter access doors shall be sealed to minimize filter bypass and air leakage into or out of the system.

Gaskets and seals used to comply with the requirements of this section shall be capable of effecting a seal for the anticipated life of the equipment, and the system shall be designed such that the seals are readily accessible.

Field or shop fabricated spacers shall not be installed for the purpose of replacing the intended size filter with a smaller size filter.

BSR/NGWA 01-201x

Disclaimer
While this National Ground Water Association (NGWA) standard represents the consensus work product of the NGWA and its members after careful study and deliberation as of the date of this document, this standard does not, and cannot, reflect variances in local and state law, custom, and practice in a certain locality, or regional geology. It is a standard, not a mandatory one. Those relying upon the standard are encouraged to make their own independent assessment and evaluation of options as to appropriate construction practices for their business and in the geographic region of their work. NGWA does not endorse any product or product type for water well system construction or water well system operation and does not approve, certify, or test any such products.
The Association assumes no liability or responsibility for the contents of the publication.
Removed previous disclaimer text.

1. Well Site Selection
Added "safety of the public and project personnel."

2.1. Water Well Casing Materials
Stenciling and/or mill test reports shall be made available to the well owner as required.

2.2. Casing Properties
When calculating strength requirements, an added safety margin shall be considered for dynamic forces encountered during installation.

2.2.1. Casing Diameter
The inside diameter of the casing shall allow for the maximum flow capacity and minimal head loss during expected well life and the size and type of installed pumping equipment.

2.2.2. Resistance to Collapse
Industry standard formulae, such as the Timoshenko formula for steel or the F480 for PVC, shall be used to calculate casing collapse strength, appropriate to the casing material:

2.3.1 Centralizer Placement and Use with an Annulus
Professional judgment shall be used in all cases for the placement and spacing of centralizers.

2.3.2. Steel Casing
The placement method shall not compromise the alignment or structural integrity of the casing.

2.3.2.1. Lowering
Removed "~~jointed~~."
Added that the casing string shall be "supported at all times during installation."

2.3.2.2. Jacking
Replaced "~~pulling down on~~" with "by manipulating" and "~~two to four~~" with "one or more."
Removed the term "~~exactly~~" parallel. Retained parallel.

2.3.2.3. Driving
~~Only~~ Steel casing ~~specified as drive casing can~~ material shall be selected to withstand the forces applied during driving.
Replaced "~~a standard~~" with "a commercially available" drive shoe…

2.3.3. Thermoplastic, Concrete Tile, and Fiberglass Casing
Removed shall not be "~~pushed~~" into place. ~~These casings~~ The placement method shall ~~only be lowered in place~~ not compromise the alignment or structural integrity of the casing.

2.3.3.1. Lowering
Removed "~~jointed~~."
Added that the casing string shall be "supported at all times during installation."

2.4. Methods of Joining
Replaced "~~well~~" with "normal operating" conditions. There should be no leakage at joints above the screened interval. The joining of casing sections, screen sections, and casing to screens shall be made by direct joint connection or friction seal.

2.4.1. Steel Casing
Added "Welding materials shall be compatible with the casing materials being joined; collars, when used, shall have the same chemical and physical properties as the corresponding casing section. The height and other dimensions of the collar shall be in accordance with the manufacturer's recommendations. The collars shall be rolled to fit the outside diameter and factory welded to one end of each section. Three inspection holes shall be provided in each collar to assure proper matching of the casing sections.
Removed "~~compression fittings~~."

2.4.2. Thermoplastic Casing
Removed "~~compression fittings~~."

2.5. Casing Termination Point
The surrounding aquifer material must be stabilized before and during grout placement. Temporary casing or adequate fluid pressure is necessary to prevent borehole collapse and loss of necessary space for sealing the annulus. Regardless of size, weight, or length of the well casing, it is important in all conditions that proper seals are achieved at design termination depths.

2.4.3.2.5.1. Consolidated Formations ~~(Seated)~~
~~The casing shall be seated so that it will not move vertically or go out of alignment. Where the casing is to be lowered into place,~~ In consolidated formations, the bottom of the casing shall extend a sufficient distance into competent, unfractured rock, to create an adequate bottom seal. Where an annular space exists, it shall be grouted as described in Section 4 Grouting.

2.4.4.2.5.2. Unconsolidated Formations
In unconsolidated formations, the bottom of the casing shall extend a sufficient distance ~~into a competent rock~~ the formation, to ~~assure a proper seat and bottom seal~~ the desired depth. Where ~~top of rock water is the target, the casing~~ an annular space exists, it shall be ~~set to ensure a solid and sanitary formation seal. Where~~ grouted as described in Section 4 Grouting. When casing is driven, a drive shoe shall be ~~to refusal~~.
~~Terminating Casing in~~ used at the bottom of the casing, and shall be driven into the desired formation. The casing can be pulled back to expose a screen.
~~The casing shall be seated so that it will not move vertically or go out of alignment.~~

2.5.2.6. Wellhead ~~Protection~~ Completion
Added the casing shall be "ventilated and secured" and removed "~~a locking or standard~~" sanitary well cap.
~~If thermoplastic well casing is used, the wellhead shall be protected from any potential for damage that could compromise the integrity of the well.~~
~~There shall be no openings in the casing below its top except for an approved pitless well adapter or unit.~~
When used, pitless units and pitless adapters shall be attached to the casing by threading, welding, or compression connection in a manner that will make the connection watertight. If an access port is installed, it must be watertight.

3.1. Screen
Changed "~~pre-manufactured~~" to read "factory-manufactured."
Removed all reference to mill slots and mills knife cuts. Added "factory slotted screens."

3.4.1. Length and Positioning
Removed: ~~Where the transmissivity of the aquifer is very large in comparison to the length of screen needed for desired production or in wells designed for low capacity where smaller percentages of the aquifer can be screened without affecting well efficiency, the length of the openings shall be reduced accordingly~~ added: Current and future aquifer conditions and design capacity should be taken into consideration in deciding screen length.

3.4.2. Openings
In addition to the design requirements of Section 3.4.5 Slot Size Selection, ~~slots~~ consideration shall be given to make the aperture openings as wide as possible, with ~~a configuration (width, number of rows, etc.) that optimizes flow performance, consistent~~ even spacing, and with the ~~need to maintain structural integrity,~~ largest percentage open area as possible to facilitate development, to reduce biofouling, to maximize production of water, and to maintain the entrance velocity at a rate which provides laminar flow.

3.4.3. Diameter
Added "considering all related factors."

3.4.3.2. Filter Pack Completion
The frequency of sampling shall adequately represent the vertical interval to be screened. Typical sampling intervals are every five (5) to ten (10) feet or at each formation change. A uniform filter pack shall be clean, well-rounded, have as high a silica content as possible, and shall be acid resistant. The filter pack shall be placed by a method that prevents bridging and creates uniform placement and prevents the pumping of fines.

3.4.3.2.4. Special Design for Filter Pack Installation
Clarified …additional "filter pack" material…

3.4.3.2.5.2. Unconsolidated Formations
Removed "~~temporarily~~."

3.4.3.2.6. Casing and Screen Diameter to Borehole Size
Centralizers shall be uniformly spaced vertically to maintain the screen in the center of the borehole. ~~Centralizers shall be placed at a maximum of forty (40) foot intervals. When the screen length is less than forty (40) feet, a centralizer~~ In all cases, professional judgment shall be ~~placed at the top and the bottom of the screen~~ utilized to select the proper annular thickness based on site conditions and local regulatory requirements.

3.4.6. Pressure Relief Screen
~~design consideration for necessary~~ A pressure relief screen or tell-tale screen shall be used in telescoping screen applications to relieve the differential pressure between the inner liner and outer casing. The pressure relief screen shall be placed between the top of the production screen and below the top of the riser pipe or packer to relieve differential pressure during pumping. Differential pressure has a tendency to expel the filter pack material and slip packer.

Figure 1: Pressure Relief Screen
<INSERT FIGURE DERIVED FROM GW&W 3rd Ed. p.437>
Adapted from *Groundwater and Wells*, with permission of Johnson Screens/ a Weatherford Company.

~~3.5.1. Single String (Pipe Size)~~
~~3.5.2. Telescoping~~
In telescoping wells, a packer assembly shall be ~~by continuously joined, solvent welded, threaded, welded, or accepted mechanical joining methods. A seal at~~ considered as applicable to the ~~top~~ design and usage of the well. ~~Screen to the inside diameter (ID) of the casing shall be provided~~

~~3.6.1. Fabricated Plug~~
3.6.1. Bottom Plate or Cap
Removed "~~of the deepest screen section~~" and replaced "~~plug~~" with "cap."

3.6.2. Self-Closing Valve (e.g., Washdown/Float Shoe)
Replaced "~~is~~" with "shall be."

3.6.3. Cement Plug
A cement plug shall be either prefabricated and placed as a component of the casing, or after the well is completed using a tremie pipe, dump bailer, or bag cement method.

3.6.4. Sump Assembly
~~Blank casing at the bottom of the~~ A sump assembly shall serve to contain sediment that enters the well ~~screen.~~during casing installation or well development and use. The sump assembly shall be minimized in length to reduce biofouling.

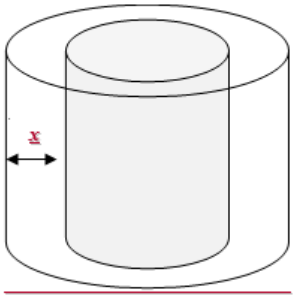

Figure 2: Annular space (x)

4.4.1.1. Grouting with a Tremie Pipe
The borehole required to create the annular space shall be a minimum of three (3) inches (7.62 cm) in diameter greater than the outer diameter of the casing or coupling. The bottom of the tremie pipe shall be continuously submerged in grout during placement of the grout.

4.4.1.2. Placing Bentonite Chips ~~Outside~~ or Pellets
Placement of ~~the Casing~~ bentonite chips or pellets shall be by manufacturer's specification. The centralizer design shall ensure adequate space for the placement of the bentonite chips or pellets.
Added chip "or pellet" throughout the section.
Added "the borehole required to create" the annular space shall…
Bentonite chips shall be placed at the surface of the annulus and allowed to free-fall to depth while measuring frequently to confirm placement, or shall be placed through a tremie pipe. The tremie pipe shall be rigid and a minimum of four (4) times the size of the pellet or chip to be placed.

~~4.3.1.1.1. Neat Cement Grout with Fly Ash Additive~~
Removed subsection.

4.6.1.2.4.6.1.1. Sand-Cement Grout
Changed "~~seven (7~~" to "six (6" gallons.

4.6.2. Bentonite Grout
Replaced "~~powdered~~" with "different forms of" sodium bentonite clay ~~and,~~ mixed with or hydrated by clean water ~~in the proportion of not less than one (1) pound of powdered bentonite to one (1) gallon of water.~~

4.6.2.1. High Solids Bentonite Grout
High solids bentonite grout is highly plastic sodium clay, ~~composed largely of montmorillonite, designed to be mixed at fifteen (15~~ and is defined as twenty (20) percent solids, or greater, by weight.

4.6.2.2. Granular Bentonite Grout
Clarified "sodium bentonite" clay. Removed "~~Like processed bentonite, it swells~~"

5.1. Plumbness Requirements
Replaced "~~vertical drift~~" with "horizontal deviation" and "~~borehole~~" with "well centerline from a true vertical centerline."

5.2. Alignment Requirements
Alignment is the horizontal deviation between the actual well centerline and a straight line.

5.2.1.1. Dummy Frame with Rings
Clarified Dummy Frame "with Rings" throughout the subsection.

Table 1: Dummy Frame with Rings Minimum Rigidity (IPS)

Nominal Diameter Casing or Open Borehole Completion	Rigid Frame
Greater than 10 inch (25.4 cm), up to 20 inch (50.8 cm)	8 inch (20.32 cm) Schedule 30

6.1. Development Process
Added "and corresponding drawdowns" to production (pumping) rate.
Added: Additional parameters shall be monitored as necessary, including – but not limited to – pH, electrical conductivity, and temperature.

6.2. Chemical Development
Removed "~~NSF approved~~."

6.3. Evaluating Well Development
The well shall be considered developed when the yield, specific capacity, and sand content goals, as determined by pumping test, have been met.

6.3.1. Testing for Sand ~~and Turbidity~~
Removed details regarding sand measurements and added "in accordance with the specific well application."
Removed "~~such as a Rossum Sand Tester, or other apparatus~~."
Removed content relating to turbidity meters.

7. Testing for Performance
A well performance test (WPT) is performed when specifically required in the document referencing this standard.
Removed "~~at predetermined pumping capacities and durations.~~"

8.1.1. Well Location
Removed reference to Hanna 2006. Changed data point reference from "~~township, section, and range to establish the nearest quarter-quarter with well measured to the nearest quarter-quarter section line~~" to "locally accepted position designations."

9. Disinfection with Chlorine
Due to the potential of interference with groundwater quality testing programs, chlorination shall be optional for monitoring wells.

9.5. Filter Pack Material Chlorination
Removed "~~in liquid form and~~" and replaced with "A chlorine solution with"
Removed footnote regarding filter pack disinfectant volume calculation.

9.7 Dechlorination
Where necessary, proper dechlorination techniques must be utilized to protect the environment and public health.

10. Water Sampling and Analysis
If sampling is performed, resampling shall be performed periodically to monitor water quality. If the microbial analysis indicates exceedences, resampling shall be performed.

10.1. Sample Collection for Analyses
The well shall be purged of at least three (3) well bore volumes to ensure the sample is representative of the water in the targeted aquifer.

11.2.1 Decommissioning a Borehole and 11.2.2 Decommissioning a Well
An abandoned borehole/well shall be decommissioned as soon as possible. Any abandoned borehole/well that presents an immediate threat to the groundwater resource shall have an action plan initiated by the responsible party within seventy-two (72) hours upon discovery. All boreholes/wells shall be secured and never used for disposal prior to decommissioning. ~~Any abandoned borehole/well shall be decommissioned immediately.~~
11.5 Disinfection
When bentonite grouting materials are used, chlorine contents shall not exceed fifty (50) parts per million.

Substantive changes to BSR/SPI B151.27-201X from comment resolutions

1.1 Scope

The requirements of this standard shall apply to all robots used on or within the guarded area of Injection Molding Machines (IMMs).

Machinery suppliers and users shall use the risk assessment process in the manufacture, care, and use of the machinery.

Deviations from the requirements of this standard shall be based on a documented risk assessment.

E1.1

In developing the requirements of this standard, the committee used the risk assessment process. A list of hazards typical of this machinery appears in clause 6. For each hazard identified within the scope of the standard, the committee assessed the potential severity of injury related to the hazard, the frequency of exposure to the hazard, and possible avoidance. This process involved discussion among the committee, and resulted in the recommended risk reduction measures included in clauses 7 through 10 inclusive and additional Annex reference material. Compliance with this standard is considered to adequately control hazards identified in clause 6. Other hazards not listed in clause 6 that can occur with this machinery should be evaluated using the risk assessment process and may require additional risk reduction measures not included in this standard.

See ANSI B11.0 for additional information on the risk assessment process.

5.1.4 Power disconnect

The system shall have one or more means to disconnect all power to all system equipment. This/these means shall be located outside the ~~restricted~~ maximum space and shall have lockout capability. This disconnect shall only be lockable in the off or open position. Disconnection or loss of power at any time shall not result in a hazard.

7.2.3 Emergency stop

~~The system shall have a hard-wired emergency stop circuit.~~ The emergency stop circuit ~~when activated~~ shall always be active and when activated, shall override all other controls and cause the robot, IMM, and associated equipment within the ~~perimeter guarded area~~ span of control that may present a hazard to stop all motion.

Pushbuttons that activate the emergency stop circuit shall be red, unguarded, palm or mushroom-head type. The emergency stop pushbuttons shall be of the self-latching type requiring manual resetting and shall have positive (direct) opening contacts. Red palm or mushroom-head type pushbuttons shall not be used for any function except emergency stop.

Following an emergency stop command, restarting the system shall require a deliberate action by the operator to follow a prescribed start-up procedure, which shall ~~take place~~ be completed outside the ~~perimeter~~ safeguarded area.

The background immediately around pushbuttons and disconnect switch actuators used as emergency stop devices shall be colored YELLOW. The RED/YELLOW color combination shall be reserved exclusively for emergency stop applications.

BSR/UL 565, Standard for Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas

1.1 These requirements cover liquid-level gauges for anhydrous ammonia and liquefied petroleum gas (LP-Gas) for use with pressure vessels in nonrefrigerated systems in installations covered by the following American National Standards and others:

a) Compressed Gas ~~Gass~~ Association, CGA G-2.1.

b) Liquefied Petroleum Gas Code, NFPA 58.

c) Storage and Handling of Liquefied Petroleum Gases at Utility Plants, ANSI/NFPA 59.

2A Glossary

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

2A.2 FIXED LIQUID LEVEL GAUGE - A liquid level indicator that uses a positive shutoff vent valve to indicate that the liquid level in a container being filled has reached the point at which the indicator communicates with the liquid level in the container. ~~A device that will determine only one liquid level in a container.~~

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2A.5 ROTARY GAUGE - A type of variable liquid level gauge that indicates the liquid level on a dial gauge installed on an ASME container by manually rotating an open ended tube inside the container, which is connected to a positive shutoff vent valve. ~~A type of variable liquid level gauge that incorporates a bent tube that rotates inside a container, which is connected to a vent valve and dial face to indicate the position of the end of the tube. The dial is calibrated so that position of the tube indicates liquid level. This type of gauge releases contained fluid to atmosphere in order to function.~~

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2A.6 SLIP TUBE GAUGE - A variable liquid level gauge in which a small positive shutoff valve is located at the outside end of a straight tube that is installed vertically within a container. ~~A type of variable liquid level gauge that is installed in the top of a container that incorporates a straight tube that is raised or lowered to indicate the liquid level. The tube is connected to a vent valve. This type of gauge releases contained fluid to atmosphere in order to function.~~

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2A.7 VARIABLE LIQUID LEVEL GAUGE - A device that indicates the liquid level in a container throughout a range of levels. ~~A device that will determine a range of liquid levels in a container.~~

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2.4.2 Gauging devices covered by these requirements are intended for use at ambient temperatures within the range of minus 40°C - 55°C (minus 40°F - 130°F) ~~minus 40°F - 130°F (minus 40°C - 55°C)~~.

3.1 A gauge when not assembled by the manufacturer as a unit, shall be arranged in as few subassemblies as practical ~~practicable~~; and shall be capable of being installed as a final assembly without alteration, other than for adjustment in the length of a gauging tube.

3.6 A dial of a magnetic-float or of a rotary-tube type gauge intended to be installed on a container greater than 1200 gallons for use with LP-Gas, and which is intended to be used for filling in accordance with Liquefied Petroleum Gas Code, NFPA 58, shall be marked so that the maximum liquid level for butane, for a 50-50 butane-propane mixture, and for propane is readily determinable at ~~a~~ temperatures between minus 7 - 46°C (20 - 115°F) ~~of range of minus 7 - 46°C (20 - 115°F)~~. Markings shall be in increments of not more than 11°C (20°F).

Exception: If the marked temperature range does not include ~~is not between~~ minus 7 and 46°C (20 and 115°F), the gauge dial shall be marked in accordance with 15.3.1.

3.7 A dial of a magnetic-float or of a rotary-tube type gauge intended to be installed on ASME containers for use with anhydrous ammonia shall be marked so that the maximum liquid level for anhydrous ammonia is readily determinable at temperatures between minus 7 and 38°C (20 and 100°F). Markings shall be in increments of not more than 11°C (20°F).

Exception: If the marked temperature range does not include ~~is not between~~ minus 7 and 38°C (20 and 100°F), the gauge dial shall be marked in accordance with 15.3.1.

8.3 For the External Leakage and Hydrostatic Strength Tests in Sections 9 and 10, a positive shutoff valve and a pressure measuring device ~~are to~~ shall be installed in the pressure supply piping~~. The pressure gauge is to be installed in the piping~~ between the shutoff valve and the product under test.

15.3.1 When a gauging device does not have the complete temperature range as required by 3.6 for LP-Gas use or 3.7 for anhydrous ammonia use, the dial shall include a cautionary statement that the container shall not be filled beyond the temperature range provided on the dial.

BSR/UL 427, Standard for Safety for Refrigerating Units

1. Proposed requirements for flammable refrigerant charge sizes greater than 150 grams

PROPOSAL

SA2.3 Limits of Flammability - The range of refrigerant concentrations in air, minimum and maximum, capable of flame propagation in accordance with the Standard Test Method for Concentration Limits of Flammability of Chemicals (Vapors and Gases), ASTM E681, using a spark ~~flammable refrigerant~~ ignition source and a 12 liter (0.424 ft^3) flask. Commonly called Lower Flammable Limit (LFL) and Upper Flammable Limit (UFL).

SA2.4 Lower Flammability Limit (LFL) - The minimum flammable limit used in the Limits of Flammability range of refrigeration concentrations in air.

SA2.5 Refrigerant Concentration Limit (RCL) - The refrigerant concentration limit, in air, is in accordance with the Standard for Designation and Safety Classification of Refrigerants, ASHRAE 34. For A3 flammable refrigerants, this value is equal to 25 percent of the Lower Flammable Limit (LFL).

SA2.6 Upper Flammability Limit (UFL) - The maximum flammable limit used in the Limits of Flammability range of refrigeration concentrations in air.

SA3.3 The refrigerant charge size limit for refrigerating units shall be as follows for the kind of refrigerant used. If the refrigerating unit contains multiple refrigeration circuits, the charge limit is applied to each refrigeration circuit.

a) No charge limit - ASHRAE 34 Class 1, No-flame propagation refrigerant. Has no limits of flammability and no auto-ignition temperature.

b) No charge limit - When the blend complies with the exception to SA3.4.

c) 500 grams (17.7 oz) - ASHRAE 34 Class 2, Lower Flammability refrigerant. Has limits of flammability, and heat of combustion less than 19,000 kJ/kg (8,169 Btu/lb).

d) 150 grams (5.3 oz) - ASHRAE 34 Class 3, Higher Flammability refrigerant. Has limits of flammability and heat of combustion greater than 19,000 kJ/kg (8,169 Btu/lb).

Exception: When the refrigerant charge of an ASHRAE 34 Class 3 refrigerant within a refrigerating unit exceeds 150 grams (5.3 oz), the refrigerant charge shall not exceed 300 grams (10.6 oz) and

a) The refrigerating unit shall be intended for use only with a walk-in cooler or freezer with volume dimensions exceeding those determined in SA3.3.1; or

b) The refrigerating unit shall be:

1) Provided with refrigerant detection as indicated in SA4.3; and

2) Intended for use with a walk-in cooler or freezer containing components evaluated for installation in a Class 1, Division 2 location.

SA3.3.1 In reference to the Exception to SA3.3(d), the minimum walk-in cooler or freezer volume shall be determined by dividing the refrigerating unit charge size by the refrigerant concentration limit (RCL) of the specific refrigerant being used. If the refrigerating unit contains multiple refrigeration circuits, then the refrigerant amount for the largest circuit shall be used for this calculation. The following example shows the calculation of the minimum walk-in cooler or freezer volume for a refrigerating unit having 300 grams (10.6 oz) of propane refrigerant (calculation shown in English units):

Minimum walk-in cooler or freezer volume (ft^3) = Refrigerating Unit Charge Size (lb) / RCL (lb/Mcf)

In which:

RCL= Refrigeration Concentration Limit, lb/Mcf

RCL for propane = 0.56 lb/Mcf; value in accordance with Table 1 of ASHRAE 34

Mcf = 1000 ft^3 of air space.

300 grams (10.6 oz) of propane = 0.66 pounds

So:

Minimum walk-in cooler or freezer volume, ft^3 = 0.66 lb ÷ [0.56 lb/Mcf] = 0.66 x [1000 ÷ 0.56] = 1179 ft^3

SA3.3.2 Table SA3.1 contains refrigeration concentration limits (RCLs) for common flammable refrigerants and the minimum walk-in cooler or freezer volume based on some refrigerant charges.

Table SA3.1

Minimum Walk-In Cooler or Freezer Volume

Variables	Propane			Butane and Isobutane		
Unit Charge Size, lb (g)	0.44 (199.6)	0.55 (249.5)	0.66 (299.4)	0.44 (199.6)	0.55 (249.5)	0.66 (299.4)
RCL[a], lb/Mcf (g/m^3)	0.56 (9.5)	0.56 (9.5)	0.56 (9.5)	0.59 (9.6)	0.59 (9.6)	0.59 (9.6)
Minimum Cooler or Freezer Volume, ft^3 (m^3)	786 (22.3)	982 (27.8)	1179 (33.4)	733 (20.8)	917 (26.0)	1100 (31.1)

[a] RCL values are in accordance with the Standard for Designation and Safety Classification of Refrigerants, ASHRAE 34. Values for other flammable refrigerants shall be obtained from ASHRAE 34

SA4.3 Refrigerant Detection

SA4.3.1 A refrigerant detector provided in accordance with the Exception to SA3.3(d) item (b)(1) shall be set to raise an alarm if the refrigerant concentration level within the air stream of the refrigerating unit exceeds 25 percent of the Lower Flammable Limit (LFL) of the refrigerant. Twenty five percent of the LFL is equal to the Refrigerant Concentration Limit (RCL). Values of RCL for common refrigerants are shown in Table SA3.1 and as an example, if propane is the refrigerant, then the detector would need to operate once the refrigerant concentration level in the air stream equals 0.56 lb per 1000 ft^3 of air volume (9.5 g/m^3 of air volume).

SA4.3.2 If a refrigerant detector is provided for compliance with the Exception toSA3.3(d) item (b)(1), it shall comply with the Standard for Gas and Vapor Detectors and Sensors, UL 2075 or with the Standard for Electrical Equipment for Measurement, Control and Laboratory Use; Part 1: General Requirements, UL 61010-1.

SA6.1.9 With reference to the Exception to SA3.3(d), refrigerating units with an ASHRAE 34 Class A3 refrigerant charge exceeding 150 grams (5.3 oz.) shall be marked "CAUTION - This refrigerating unit shall be installed and operated with a walk-in cooler or freezer of a size or type as indicated in the installation instructions."

SA6.2.4 With reference to SA6.2.3, the instructions for a refrigerating unit with an ASHRAE 34 Class A3 refrigerant charge exceeding 150 grams (5.3 oz.) shall indicate "This refrigerating unit is to be installed on a walk-in cooler or freezer having a minimum inside total volume of [a] cubic feet. If the volume of the walk-in cooler or freezer is less than [a] cubic feet, the refrigerating unit can be installed if the electrical equipment in the

walk-in cooler or freezer meets Class 1, Division 2; refrigerant leak detection is provided, and all other requirements for refrigerated rooms in ASHRAE 15 are met ".

[a] The walk-in cooler or freezer minimum inside total volume shall be calculated in accordance with SA3.3.1

SA6.2.5 The walk-in cooler or freezer minimum inside total volume specified in SA6.2.4 and calculated in accordance with SA3.3.1 shall be stated within the instructions as an actual value of minimum walk-in cooler or freezer volume.

BSR/UL 817, Standard for Safety for Cord Sets and Power-Supply Cords

1. Revised Requirements for Outdoor-Use Cord Sets to Permit Joints and a Maximum of Six Outlets

Table 30.1

Smallest acceptable conductor size with respect to fittings used on outdoor-use cord sets and outdoor-use power-supply cords[e]

					Smallest acceptable conductor size (AWG)		
Ampere rating of fittings	Number of cord conductors	Number of current-carrying conductors in cord[a]	Grounding required	Maximum number of outlets in cord connector when provided	6 - 50[b] ft (1.8 - 15.2 Meters)	Over 50 ft (Over 15.2 Meters)	Ampacity rating of cord (Amperes)
	2	2	No	1	-	18	7
	3 or 4	2	Yes	1	-	18	7
	4	3	Yes	1	-	18	7
	2	2	No	1	18	16	10
	3 or 4	2	Yes	1	18	16	10
	4	3	Yes	1	18	16	7 (10)[c]
15	2	2	No	1	16	14	13
	3 or 4	2	Yes	3	16	14[d]	13
	4	3	Yes	1	16	14	10 (13)[c]
	2	2	No	1	14	12	15
	3 or 4	2	Yes	1	14	12	15
	4	3	Yes	1	14	12	15
	3	2	Yes	3	14	12[d]	15
	3	2	Yes	4 - 6	12	10[d]	15
20	3 or 4	2	Yes	1	12	10	20
	4	3	Yes	1	12	10	20
30	3 or 4	2	Yes	1	10	8	30
	4	2	Yes	1	10	8	30
50	3 or 4	2	Yes	1	6	4	50
	4	3	Yes	1	4	2	50

60	4	2	Yes	1	4	2	60
	4	3	Yes	1	4	2	60

[a] For the purpose of this table, a conductor that is used to carry the unbalanced current from the other conductors is not counted as a circuit conductor.

[b] Lengths specified are for outdoor-use cord sets only.

[c] The ampacity rating for over 50 ft (15.2 m).

[d] The maximum length of a cord set with 3 outlets in the cord connector shall be 100 ft (30.5 m).

[e] See the applicable Section for the specific requirements for each type of outdoor-use cord set.

32.2 The cord connector may have a maximum of 3 outlets. The configuration of the contact members shall be the same for the cord connector as the attachment plug.

Exception No. 1: Up to six outlets may be provided in an outdoor-use extension cord set employing 12 AWG, Type SJ or equivalent flexible cord that is constructed in accordance with 32A.1 and marked in accordance with 35.8.

Exception No. 2: Up to six in-line outlets, including the end fitting, may be provided in an outdoor-use extension cord set employing 12 AWG, Type SJ or equivalent flexible cord and marked in accordance with 35.8.

(NEW SECTION)

32A Joints

32A.1 An outdoor-use cord set may have a joint in the flexible cord with the cord branching to two cords, each terminating in a load fitting provided with a maximum of three outlets, or to three cords, each terminating in a load fitting provided with a maximum of two outlets. In either case, the total number of outlets provided on the cord set shall not be more than six.

32A.2 The resistance of the joint insulation to sunlight and mechanical abuse shall be at least equal to that of the interconnecting flexible cord. Molded-on joint insulation shall be compatible with the material used in the jacket of the flexible cord and shall adhere tightly to the jacket so as to exclude moisture.

32A.3 A joint between two flexible cords in an outdoor-use cord set shall have a minimum insulating-body thickness of 3/32 inch (2.4 mm) covering all live parts.

32A.4 The thickness mentioned in 32A.3 is to be measured from any part of the live contacts and uninsulated flexible-cord conductors (conductors from which the flexible-cord insulation has been removed) to the nearest point on the outer surface of the insulating body.

32A.5 Insulation of neoprene, polyvinyl chloride, or butyl rubber is acceptable provided its adhesion to the cord jacket complies with 60.2. Joint insulation of other material may be investigated to determine its acceptability.

35.8 An outdoor-use cord set employing in-line cord connectors (see Exception No. 2 to 29.6 and Exception No. 2 to 32.2) or a joint (see 32A.1) shall be marked on a tag permanently attached to the cord set, with the following or equivalent wording following the word "WARNING":

a) "WARNING - To reduce the risk of electric shock, this product is not for use on construction sites or similar locations." Alternately, this marking may be added to the marking tag in Section 23.14, and

b) Within 3 inches (76 mm) of each cord connector: "WARNING - To reduce the risk of fire, the total amperes drawn from all the cord connectors shall not exceed ____ Amps". The blank shall be filled in with the maximum current rating of the outdoor-use cord set.

Lettering shall be a minimum of 1/16 inch (1.6 mm) high. The markings and tags shall comply with the permanence requirements of 23.14.