ANSI STANDARDS ACTION

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Contents

American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

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ISSN 0038-9633

Comment Deadline: June 25, 2017

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

Addenda

BSR/ASHRAE/ICC/USGBC/IES Addendum ar to BSR/ASHRAE/USGBC/IES Standard 189.1-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014)

The energy performance criteria in Section 7.5.2 currently includes energy cost and carbon emissions. This addendum would add a third criteria, based on source energy and zero energy performance index.

Click here to view these changes in full

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

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

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This proposal seeks to add new mandatory requirements to Section 8: Indoor Environmental Quality regarding occupant control of operable methods of glare control.

Click here to view these changes in full

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This revision to ASHRAE 189.1 contains a number of updates that were missed as part of previously approved addendum and should be included in the 2017 version of the standard.

Click here to view these changes in full

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

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This addendum would add an additional modeling requirement to Normative Appendix C for use when one is complying with the energy efficiency requirements via the performance option.

Click here to view these changes in full

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The purpose of this addendum is to update Table 7.5.2A to provide consistency with changes to Standard 90.1-2016, which is referenced by Standard 189.1 and to changes in the stringency of the prescriptive requirements in Section 7 (Energy) of Standard 189.1.

Click here to view these changes in full

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

BICSI (Building Industry Consulting Service International)

New Standard

BSR/BICSI 007-201x, Information Communication Technology Design and Implementation Practices for Intelligent Buildings and Premises (new standard)

This standard will cover the design and implementation of the information communication technology systems required to support an intelligent building/premise integrated design. Systems that are expected to be covered, include, but are not limited to: building automation/management, utility utilization, lighting, signage and wayfinding, sound and acoustical services, location, and asset tracking.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Jeff Silveira, (813) 903-4712, jsilveira@bicsi.org

NSF (NSF International)

Revision

BSR/NSF 12-201x (i11r1), Automatic Ice Making Equipment (revision of ANSI/NSF 12-2012)

This Standard contains requirements for automatic ice-making equipment and devices used in the manufacturing, processing, storing, dispensing, packaging, and transportation of ice intended for human consumption.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Allan Rose, (734) 827-3817, arose@nsf.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2900-1-201x, Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements (new standard)

The following topics for the Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements, UL 2900-1, are being recirculated: (1) Proposed first edition of the Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements, UL 2900-1.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Valara Davis, (919) 549 -0921, Valara.Davis@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1069-201x, Standard for Safety for Hospital Signaling and Nurse Call Equipment (revision of ANSI/UL 1069-2016)

The requirements in this standard cover the individual units and equipment that operate within the context of a fundamental hospital signaling nurse call system (NCS).

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Megan Monsen, (847) 664 -1292, megan.monsen@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1598C-201x, Standard for Safety for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits (revision of ANSI/UL 1598C-2016)

The following changes in requirements to the Standard for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits, UL 1985C, are being proposed: (1) Additional requirements to include LED stage and studio luminaire retrofit kits.

Click here to view these changes in full

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 60079-26-201X, Standard for Safety for Explosive Atmospheres - Part 26: Equipment with Equipment Protection Level (EPL) Ga (Proposal dated 05-26-17) (revision of ANSI/ISA 60079-26 (12.00.03)-2011)

This proposal provides revisions to the applicable NDs per the preparation of the US National Differences for IECEx.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Vickie Hinton, (919) 549 -1851, Vickie.T.Hinton@ul.com

Comment Deadline: July 10, 2017

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB BPR 007-201x, Postmortem Impression Submission Strategy for Comprehensive Searches of Essential Automated Fingerprint Identification System Databases: Best Practice Recommendations for the Medicolegal Authority (new standard)

The purpose of this document is to provide guidance regarding the submission of recorded postmortem impressions for comprehensive searches of essential automated fingerprint identification system databases. While a number of factors affect the successful search of a fingerprint through an automated fingerprint system, one of the most important factors is ensuring the fingerprint is searched through appropriate antemortem fingerprint databases. (NOTE: Document and comments template can be viewed on the AAFS Standards Board website at: https://asb.aafs.org/notification-of-standard-development-and-coordination/.)

Single copy price: Free

Obtain an electronic copy from: http://asb.aafs.org/

Order from: Document will be provided electronically on AAFS Standards Board website free of charge.

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

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB Std 018-201x, Validation Standards for Probabilistic Genotyping Systems (new standard)

These standards shall be used by laboratories for the validation of probabilistic genotyping systems related to interpreting autosomal STR results. Amelogenin is not covered by this standard. These standards are not meant to be applied to probabilistic genotyping systems which have been previously validated. However, laboratories are advised to review their previous validation relative to these standards. (NOTE: Document and comments template can be viewed on the AAFS Standards Board website at: https://asb.aafs.org/notification-of-standard-development-and-coordination/.)

Single copy price: Free

Obtain an electronic copy from: http://asb.aafs.org/

Order from: Document will be provided electronically on AAFS Standards Board website free of charge.

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

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 17664-201x, Sterilization of health care products - Information to be provided by the device manufacturer for the processing of medical devices (identical national adoption of ISO 17664)

Specifies requirements for the information to be provided by the medical device manufacturer for the processing of a medical device that requires cleaning followed by disinfection and/or sterilization to ensure that the device is safe and effective for its intended use.

Single copy price: Free

Order from: https://standards.aami.org/higherlogic/ws/public/document?document_id=11877&wg_abbrev=PUBLIC_REV

Send comments (with copy to psa@ansi.org) to: Jennifer Moyer, (703) 253 -8274, jmoyer@aami.org

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 20695-201x, Enteral feeding systems - Design and testing (identical national adoption of ISO/DIS 20695)

Specifies requirements for enteral feeding systems comprising enteral giving sets, enteral giving set extensions, enteral syringes, enteral feeding catheters, enteral accessories, and their connector systems.

Single copy price: Free

Obtain an electronic copy from: https://standards.aami.org/kws/public/document?document_id=11862&wg_abbrev=PUBLIC_REV

Order from: Cliff Bernier, 703 253 8263, cbernier@aamim.org

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

ASA (ASC S3) (Acoustical Society of America)

Reaffirmation

BSR ASA S3.4-2007 (R201x), Procedure for the Computation of Loudness of Steady Sounds (reaffirmation of ANSI ASA S3.4-2007 (R2012))

A procedure for calculating the monaural and binaural loudness of steady sounds as perceived by listeners with normal hearing. Sounds include simple and complex tones, bands of noise and mixtures of tones and noise. Spectra can be specified exactly, in terms of the frequencies and levels of individual spectral components, or approximately, in terms of the levels in 1/3 octave bands. It is applicable to sounds presented in free field with a frontal incidence, in a diffuse field, or by headphones.

Single copy price: $95.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Neil Stremmel, (631) 390-0215, asastds@acousticalsociety.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/ICC/USGBC/IES Addendum cf to BSR/ASHRAE/USGBC/IES Standard 189.1-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014)

This updates informative Appendix E to make it consistent with changes approved by Addendum k, which changed the building envelope requirements in Section 7.4.2.1.

Single copy price: $35.00

Obtain an electronic copy from: standards.section@ashrae.org

Order from: standards.section@ashrae.org

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This proposal contains appendices to be included in Standard 189.1 as informative resources to aid in the understanding and adoption of the commissioning section in Chapter 10.

Single copy price: $35.00

Obtain an electronic copy from: standards.section@ashrae.org

Order from: standards.section@ashrae.org

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

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This addendum creates an informative appendix to be used to correlate the prescriptive energy path provisions of this standard with those of the International Energy Conservation Code (IECC).

Single copy price: $35.00

Obtain an electronic copy from: standards.section@ashrae.org

Order from: standards.section@ashrae.org

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AWC (American Wood Council)

Revision

BSR/AWC NDS-201x, National Design Specification® for Wood Construction (revision and redesignation of ANSI/AF&PA NDS-2001)

Specification provides requirements for structural and fire design of wood products and their connections.

Single copy price: $25.00

Obtain an electronic copy from: bdouglas@awc.org

Order from: Bradford Douglas, (202) 463-2770, bdouglas@awc.org

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

AWS (American Welding Society)

Reaffirmation

BSR/AWS A5.3/A5.3M-1999 (R201x), Specification for Aluminum and Aluminum-Alloy Electrodes for Shielded Metal Arc Welding (reaffirmation of ANSI/AWS A5.3/A5.3M-1999 (R2007))

This specification prescribes requirements for the classification of aluminum and aluminum-alloy electrodes for shielded metal arc welding.

Single copy price: $36.50

Obtain an electronic copy from: gupta@aws.org

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

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

AWS (American Welding Society)

Revision

BSR/AWS A5.2/A5.2M-201X, Specification for Carbon and Low-Alloy Steel Rods for Oxyfuel Gas Welding (revision of ANSI/AWS A5.2/A5.2M-2007)

This specification prescribes requirements for the classification of carbon and low-alloy steel rods for oxyfuel gas welding.

Single copy price: $36.50

Obtain an electronic copy from: gupta@aws.org

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

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

AWWA (American Water Works Association)

Reaffirmation

BSR/AWWA C620-2008 (R201x), Spray-Applied In-Place Epoxy Lining of Water Pipelines, 3 In. (75 mm) and Larger (reaffirmation of ANSI/AWWA C620-2008)

This standard describes the requirements for the materials and application of an epoxy lining of water pipelines, including materials, design, application, and inspection.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, (303) 347-3434, vdavid@awwa.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA B604-201x, Granular Activated Carbon (revision of ANSI/AWWA B604-2012)

This standard describes virgin granular and extruded activated carbons for use as a filter medium and adsorbent in water treatment.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, (303) 347-3434, vdavid@awwa.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA C208-201x, Dimensions for Fabricated Steel Water Pipe Fittings (revision of ANSI/AWWA C208-2012)

This standard provides formulas to calculate overall dimensions of fittings for steel water transmission and distribution facilities.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, (303) 347-3434, vdavid@awwa.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA C227-201x, Bolted, Split-Sleeve Couplings (revision of ANSI/AWWA C227-2011)

This standard describes bolted, split-sleeve couplings used to join pipe of similar outside diameter. Couplings may be manufactured from carbon steel or stainless steel and are intended for use in systems conveying water, wastewater, or air used in water treatment. This standard covers nominal couplings sizes 3/4 in. (20 mm) and larger.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: AWWA, Attn: Vicki David, (303) 347-3434, vdavid@awwa.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA D102-201x, Coating Steel Water-Storage Tanks (revision of ANSI/AWWA D102-2014)

This standard describes coating systems for coating and recoating the inside and outside surfaces of steel tanks used for potable water storage in water supply service. Coating systems for new bolted steel tanks are not described in this standard (see ANSI/AWWA D103).

Single copy price: $20.00

Obtain an electronic copy from: vdavid@awwa.org

Order from: Vicki David, (303) 347-3434, vdavid@awwa.org

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

CSA (CSA Group)

New Standard

BSR/CSA C22.2 No. 336-201x, Particular requirements for rechargeable battery-operated commercial (new standard)

This Standard deals with the safety requirements of rechargeable battery-operated commercial robotic floor treatment machines with traction drive intended for indoor use in accordance with the Canadian Electric Code, Part I and CAN/CSA-C22.2 No. 0 in Canada, and with the National Electrical Code, NFPA 70 in the U.S., the rated voltage of the battery being not more than 75 V dc. Machines are to be powered by rechargeable batteries that are recharged by built-in battery chargers or off-board battery chargers, which may be incorporated within the circuitry of the machine, or mounted on the machine and incorporated within the enclosure or powered by batteries.

Single copy price: Free

Obtain an electronic copy from: cathy.rake@csagroup.org

Order from: Cathy Rake, (216) 524-4990 x88321, cathy.rake@csagroup.org

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

ECIA (Electronic Components Industry Association)

Revision

BSR/EIA 364-78C-201x, Cavity Leakage Bonding Integrity Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA-364-78B -2010)

This standard establishes a technique for evaluating the sealing integrity of the contact cavity walls of an environmentally sealed electrical connector by detecting leakage between a given contact cavity and those adjacent to it. This technique is suitable for application at the onset of a series of environmental tests (e.g., qualification or periodic inspection) to evaluate the soundness of the product before the start of test.

Single copy price: $75.00

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

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

FM (FM Approvals)

Revision

BSR/FM 4996-201x, Classification of Pallets and Other Material Handling Products as Equivalent to Wood Pallets (revision of ANSI/FM 4996-2013)

This standard provides a means for testing plastic pallets using a full-scale sprinklered fire test to simulate a real-life fire condition. This revision will remove totes from the scope.

Single copy price: Free

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

Order from: Josephine Mahnken, (781) 255-4813, josephine.mahnken@fmapprovals.com

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

HI (Hydraulic Institute)

Revision

BSR/HI 7.1-7.5-201x, Controlled-Volume Metering Pumps - Nomenclature, Definition, Application and Operation (revision of ANSI/HI 7.1-7.5-2013)

The Controlled Volume Metering Pump Section will limit its activity to reciprocating positive-displacement metering pumps including, but not limited to the following: (A) Hydraulic-coupled disc diaphragm; (B) Hydraulic-coupled tubular diaphragm; (C) Mechanical-coupled disc diaphragm; (D) Pack piston; and (E) Plunger. Technical documents developed shall include, but are not limited to: types and nomenclature; definitions; design and application; installation; operation and maintenance.

Single copy price: $75.00

Obtain an electronic copy from: dgiordano@pumps.org

Order from: Denielle Giordano, (973) 267-9700 x115, dgiordano@pumps.org

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

IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)

Revision

BSR C63.15-201x, Draft Standard - Recommended Practice for the Immunity Measurement of Electrical and Electronic Equipment (revision of ANSI C63.15-2010)

This recommended practice is intended to (a) Identify preferred or optional immunity test methods; (b) Describe specific measurement techniques; (c) Suggest product performance criteria as applicable to general and specific products; and (d) Identify test instrumentation specifications.

Single copy price: N/A

Order from: Susan Vogel, 732-562-3817, s.vogel@ieee.org

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

NECA (National Electrical Contractors Association)

Revision

BSR/NECA/NEMA 605-201X, Recommended Practice for Installing Underground Nometallic, Utility Duct (revision and redesignation of ANSI/NECA 605-2005)

This guideline covers recommendations for the selection, handling, and installation of underground single bore rigid nonmetallic conduit (RNC) or raceway for power, lighting, signaling, and communications applications. For the purposes of this guideline, Rigid nonmetallic conduit (RNC) or raceway refers to HDPE, PE, PVC, or RTRC conduit and duct. Corrugated coilable utility duct is not covered in this guideline; details on storage, handling, and installation are covered in NEMA TCB-3.

Single copy price: $40.00

Obtain an electronic copy from: neis@necanet.org

Order from: neis@necanet.org

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

NEMA (ASC C78) (National Electrical Manufacturers Association)

Revision

BSR C78.5-201X, Standard for Electric Lamps - Specifications for Performance of Self-Ballasted Compact Fluorescent Lamps (revision of ANSI C78.5-2003 (R2015))

This standard specifies the performance requirements together with the test methods and conditions required to show compliance of self-ballasted compact fluorescent lamps up to 60 watts which are intended for domestic and similar general lighting purposes. Globe and reflector types are excluded. Such lamps shall have a rated input voltage of 120 or 127 volts at 60 Hz and an Edison screw base.

Single copy price: $50.00

Order from: Michael Erbesfeld, 703-841-3262, Michael.Erbesfeld@nema.org

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

NSF (NSF International)

Revision

BSR/NSF 50-201x (i128r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2016)

This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation.

Single copy price: Free

Obtain an electronic copy from: http://standards.nsf.org/apps/group_public/document.php?document_id=37612&wg_abbrev=jc_rwf

Order from: Lauren Panoff, lpanoff@nsf.org

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

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 598-D-1-201x, Optical Fiber Color Coding in Cable, Addendum for Additional Colors (addenda to ANSI/TIA 598-D-2014)

This Standard defines four additional, alternative colors to complement the existing 12 colors of TIA 598 to support 16-fiber system architectures. It defines the colors (centroids and limits) and the coding scheme for 16-fiber architecture.

Single copy price: $61.00

Order from: TIA; standards@tiaonline.org

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

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 60335-2-40-201x, Standard for Household and Similar Electrical Appliances - Part 2: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (national adoption of IEC 60335-2-40 with modifications and revision of ANSI/UL 60335-2-40-2012)

Proposed revisions covering the realignment of second edition of UL 60335 -2-40 with current edition of IEC 60335-2-40; dehumidifiers; flammable refrigerants; contactor reliability; partial units; all pole-disconnected electric heat; and Ni-chrome wire, polymeric materials.

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: Alan McGrath, (847) 664 -3038, alan.t.mcgrath@ul.com

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 60335-2-72-201X, Standard for Safety for Household and Similar Electrical Appliances - Safety - Part 2-72: Particular Requirements for Floor Treatment Machines with or without Traction Drive, for Commercial Use (national adoption with modifications of IEC 60335-2-72)

This international standard deals with the safety of powered ride-on and powered walk-behind machines intended for commercial indoor or outdoor use for the following applications: sweeping, scrubbing, wet or dry pick-up, polishing, application of wax, sealing products and powder based detergents, shampooing of floors with an artificial surface.

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: Anne Marie Jacobs, (919) 549-0954, annemarie.jacobs@ul.com

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 14B-2008 (R201x), Sliding Hardware for Standard, Horizontally Mounted Tin-Clad Fire Doors (reaffirmation of ANSI/UL 14B-2008)

UL proposes a reaffirmation for ANSI approval of UL 14B.

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 14C-2008a (R201x), Swinging Hardware for Standard Tin-Clad Fire Doors Mounted Singly and in Pairs (reaffirmation of ANSI/UL 14C-2008a)

UL proposes a reaffirmation for ANSI approval of UL 14C.

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1820-2004 (R201x), Standard for Safety for Fire Test of Pneumatic Tubing for Flame and Smoke Characteristics (reaffirmation of ANSI/UL 1820 -2004 (R2013))

UL proposes a reaffirmation for UL 1820.

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1887-2004 (R201x), Standard for Safety for Fire Test of Plastic Sprinkler Pipe for Visible Flame and Smoke Characteristics (reaffirmation of ANSI/UL 1887-2004 (R2013))

UL proposes a reaffirmation for UL 1887.

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 2344-2012 (R201x), Standard for Safety for Material Lifts (reaffirmation of ANSI/UL 2344-2012)

UL proposes a reaffirmation for UL 2344.

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 982-201x, Standard for Safety for Motor-Operated Household Food Preparing Machines (revision of ANSI/UL 982-2016)

(1) Blender accessibility, stacked blade assembly, and blender tamper; (2) Operating controls evaluated to UL 982; (3) Magnetic interlock requirements; (4) Important safeguards clarification; (5) New supplement for household and hospitality-use single-serving cold beverage dispensers.

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: Amy Walker, (847) 664 -2023, Amy.K.Walker@ul.com

VITA (VMEbus International Trade Association (VITA))

New Standard

BSR/VITA 49.2-201x, VITA Radio Transport (VRT) Standard for Electromagnetic Spectrum: Signals and Applications (new standard)

The VITA 49.2 dot standard which is part of the VITA Radio Transport (VRT) family of standards defines a signal/spectrum protocol that expresses spectrum observation, spectrum operations, and capabilities of RF devices. This is done independent of manufacturer, equipment type, or point of use in an architecture and application. The intent of the VRT protocol is to enable RF systems to migrate from proprietary stove-pipe architectures to interoperable multi-function architectures.

Single copy price: $25.00

Obtain an electronic copy from: admin@vita.com

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

VITA (VMEbus International Trade Association (VITA))

Revision

BSR/VITA 65.0-201x, OpenVPX System Standard (revision and redesignation of ANSI/VITA 65-2012)

Defines a set of system specifications and practices for VPX modules.

Single copy price: $25.00

Obtain an electronic copy from: admin@vita.com

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

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1888.4-201x, Standard for Green Smart Home and Residential Quarter Control Network Protocol (new standard)

This standard provides protocols for measurement and control networks for home and residential quarters, so that they can achieve green, smarter functions. It specifies the interactive data format between devices and systems; and it gives standardized definitions of the sensor, actuator, and equipment and data communication interfaces.

Single copy price: $56.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 3004.8-201x, Recommended Practice for Motor Protection in Industrial and Commercial Power Systems (new standard)

This recommended practice covers the protection of motors used in industrial and commercial power systems. It is likely to be of greatest value to the power-oriented engineer with limited experience in the area of protection and control. It can also be an aid to all engineers responsible for the electrical design of industrial and commercial power systems.

Single copy price: $141.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

Comment Deadline: July 25, 2017

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 45.6-201x, Recommended Practice for Electrical Installations on Shipboard - Electrical Testing (new standard)

The recommendations for electrical testing for power generation, distribution and electric propulsion systems installed shipboard are established by this document. These recommendations reflect the present-day technologies, engineering methods, and engineering practices.

Single copy price: $58.00 (pdf); $73.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1827-201x, Guide for Electrical and Control Design of Hydroelectric Water Conveyance Facilities (new standard)

This guide describes the electrical and control design of water conveyance facilities associated with hydroelectric projects including associated penstocks, valves, and gates. The guide includes guidance to plan and prepare designs; however, it does not include details of installation, operation, or maintenance guidelines and methodologies. This guide is applicable to design of new facilities and rehabilitation or replacement of existing facilities.

Single copy price: $74.00 (pdf); $93.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE C62.44-201x, Guide for the Application of Low-Voltage (1000 V rms or Less) Surge Protective Devices Used on Secondary Distribution Systems (Between the Transformer Low-Voltage Terminals and the Line Side of the Service Equipment) (new standard)

This guide encompasses the application of surge protective devices (secondary arresters) from the secondary terminals of the distribution transformer to the line side of the service equipment.

Single copy price: $56.00 (pdf); $73.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 352-201x, Guide for General Principles of Reliability Analysis of Nuclear Power Generating Station Systems and Other Nuclear Facilities (revision of ANSI/IEEE 352-1994 (R2010))

This guide contains general reliability and availability analysis methods that can be applied to structures, systems, and components (SSCs) in nuclear power generating stations and other nuclear facilities.

Single copy price: $142.00 (pdf); $177.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 1610-201x, Guide for the Application of Faulted Circuit Indicators on Distribution Circuits (revision of ANSI/IEEE 1610-2007)

This Application Guide provides information on what a Faulted Circuit Indicator (FCI) is designed to do and describes methods for selecting and applying FCIs for 200/600-amp circuits rated 69kV and below.

Single copy price: $50.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C57.12.24-201x, Standard for Submersible, Three-Phase Transformers, 3750 kVA and Smaller: High Voltage, 34 500 GrdY/19 920 Volts and Below; Low Voltage, 600 Volts and Below (revision of ANSI/IEEE C57.12.24-2009)

This standard covers certain electrical, dimensional, and mechanical characteristics and takes into consideration certain safety features of three-phase, 60 Hz, liquid-immersed, self-cooled, submersible transformers with separable insulated high-voltage connectors. These transformers are rated 3750 kVA and smaller with high voltages of 34 500 GrdY/19 920 V and below and with low voltages of 600 V and below.

Single copy price: $58.00 (pdf); $73.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C57.138-201x, Recommended Practice for Routine Impulse Tests for Distribution Transformers (revision of ANSI/IEEE C57.138-1998 (R2005))

This recommended practice covers routine impulse tests performed on distribution transformers, as required in IEEE Std C57.12.00™, and described in subclause 10.4 of IEEE Std C57.12.90™. Distribution transformers covered by this recommended practice are liquid-immersed, single- and three-phase overhead-type up to 500 kVA; single-phase pad-mounted compartmental-type and underground-type up to 167 kVA; three-phase pad-mounted compartmental-type and underground-type up to 2500 kVA.

Single copy price: $74.00 (pdf); $93.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C62.33-201x, Standard for Test Methods and Performance Values of Metal-Oxide Varistor Surge Protective Components (revision of ANSI/IEEE C62.33-1982 (R2000))

This standard covers test methods and performance values for Metal-Oxide Varistor, MOV, surge-protective components with the following main parameter ranges: Packaging: leaded disc-type or surface-mount, Nominal Varistor voltage: 5 V to 1200 V, 8/20 surge current rating: 10 A to 70 kA, 8/20 clamping voltage: 10 V to 3 kV with appropriate component selection, these components could be used for the overvoltage protection of power and signal systems having: Continuous AC voltages: 2.5 V rms to 750 V rms, Steady-state DC voltages: 3.3 V to 1000 V 24, Peak signal feed voltages: 3.5 V to 850 V

Single copy price: $58.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

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

New Standard

INCITS 534-201x, Information technology - Serial Attached SCSI - 4 (SAS-4) (new standard)

Serial Attached SCSI - 4 is the next generation of Serial Attached SCSI, following SAS-3, SAS-2.1, SAS-2, SAS-1.1, and SAS. The following items should be considered for inclusion in Serial Attached SCSI - 4: (1) at least double the SAS-3 data rate; (2) maintain 6 Gbps and 12 Gbps SAS compatibility; (3) incorporate more efficient signal encoding; and (4) other capabilities that may fit within the scope of this project.

Single copy price: Free

Obtain an electronic copy from: https://standards.incits.org/apps/group_public/document.php?document_id=88025&wg_abbrev=eb

Order from: https://standards.incits.org/apps/group_public/document.php?document_id=88025&wg_abbrev=eb

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

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:

SCTE (Society of Cable Telecommunications Engineers)

BSR/SCTE 120-201x, Test Method for Balance Ratio of 75-300 Ohm Matching Transformer (revision of ANSI/SCTE 120-2011)

This test procedure provides a method for measuring the balance ratio of broadband radio frequency (RF) devices whose primary purpose is to provide an impedance and connector match between 75, coaxial, type “F” and 300 twin-lead open-screw connectorized devices.

Inquiries may be directed to Kim Cooney, (800) 542-5040, kcooney@scte.org

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

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

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 120-2011, Test Method for Balance Ratio of 75-300 Ohm Matching Transformer

Questions may be directed to: Kim Cooney, (800) 542-5040, kcooney@scte.org

Correction

Premature Announcement

BSR/ASME A17.6-201x

In the Call-for-Comment section of the May 19th issue of Standards Action, the Public Review listing for BSR/ASME A17.6-201x (revision of ANSI/ASME A17.6-2010) was published in error. The draft is not available for comment at this time.

Call for Members (ANS Consensus Bodies)

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

AAMI (Association for the Advancement of Medical Instrumentation)

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

Contact: *Amanda Benedict*

Phone: (703) 253-8284

Fax: (703) 276-0793

E-mail: abenedict@aami.org

BSR/AAMI/ISO 11139-201x, Sterilization of health care products - Vocabulary - Terms used in sterilization and related equipment and process standards (identical national adoption of ISO 11139)

BSR/AAMI/ISO 17664-201x, Sterilization of health care products - Information to be provided by the device manufacturer for the processing of medical devices (identical national adoption of ISO 17664)

BSR/AAMI/ISO 20695-201x, Enteral feeding systems - Design and testing (identical national adoption of ISO/DIS 20695)

ASA (ASC S12) (Acoustical Society of America)

Office: 1305 Walt Whitman Rd
Suite 300
Melville, NY 11747

Contact: *Neil Stremmel*

Phone: (631) 390-0215

Fax: (631) 923-2875

E-mail: nstremmel@acousticalsociety.org

BSR ASA S12.75-201x, Methods for the Measurement of Noise Emissions from High Performance Military Jet Aircraft (revision of ANSI ASA S12.75-2012)

CAMTS (Commission on Accreditation of Medical Transport Systems)

Office: P.O. Box 130
Sandy Springs, SC 29677

Contact: *Dudley Smith*

Phone: (513) 244-6079

E-mail: dudley.smith@camts.org

BSR/CAMTS Edition 11-201x, Air and Surface Medical Transport Standards (new standard)

ECIA (Electronic Components Industry Association)

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

Contact: *Laura Donohoe*

Phone: (571) 323-0294

Fax: (571) 323-0245

E-mail: ldonohoe@ecianow.org

BSR/EIA 364-78C-201x, Cavity Leakage Bonding Integrity Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA-364-78B-2010)

HI (Hydraulic Institute)

Office: 6 Campus Drive
Parsippany, NJ 07054

Contact: *Denielle Giordano*

Phone: (973) 267-9700 x115

E-mail: dgiordano@pumps.org

BSR/HI 7.1-7.5-201x, Controlled-Volume Metering Pumps - Nomenclature, Definition, Application and Operation (revision of ANSI/HI 7.1-7.5-2013)

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

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

Contact: *Rachel Porter*

Phone: (202) 737-8888

E-mail: rporter@itic.org

INCITS 534-201x, Information technology - Serial Attached SCSI - 4 (SAS-4) (new standard)

NECA (National Electrical Contractors Association)

Office: 3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814

Contact: *Agnieszka Golriz*

Phone: (301) 215-4549

E-mail: Aga.golriz@necanet.org

BSR/NECA/NEMA 605-201X, Recommended Practice for Installing Underground Nometallic, Utility Duct (revision and redesignation of ANSI/NECA 605-2005)

NEMA (ASC C8) (National Electrical Manufacturers Association)

Office: 1300 N. 17th Street, Suite 900
Rosslyn, VA 22209

Contact: *Gerard Winstanley*

Phone: (703) 841-3231

Fax: (703) 84-3331

E-mail: gerard.winstanley@nema.org

BSR NEMA WC 76-201x, Standard for Controlled Impedance Shielded Twisted Pairs in Internal Electrical Cable (new standard)

NSF (NSF International)

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

Contact: *Allan Rose*

Phone: (734) 827-3817

Fax: (734) 827-7875

E-mail: arose@nsf.org

BSR/NSF 12-201x (i11r1), Automatic Ice Making Equipment (revision of ANSI/NSF 12-2012)

BSR/NSF 50-201x (i128r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2016)

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

Office: 1560 Wilson Blvd.
Suite 850
Arlington, VA 22209-1903

Contact: *Yvonne Meding*

Phone: (703) 524-6686

Fax: (703) 524-6686

E-mail: YMeding@resna.org

BSR/RESNA ASE-2-2012 (R201x), RESNA Standard for Adaptive Sports Equipment - Volume 2: Adaptive Golf Cars (reaffirmation of ANSI/RESNA ASE-2-2012)

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Drive
Suite 400
Research Triangle Park, NC 27709-3995

Contact: *Mary Huras*

Phone: (613) 368-4425

E-mail: Mary.Huras@ul.com

BSR/UL 14B-2008 (R201x), Sliding Hardware for Standard, Horizontally Mounted Tin-Clad Fire Doors (reaffirmation of ANSI/UL 14B-2008)

Call for Members (ANS Consensus Bodies)

Alliance for Telecommunications Industry Solutions (ATIS)
ANSI-Accredited Standards Developer

ATIS, an ANSI-accredited SDO, brings together the top global ICT companies to advance the industry's most pressing business priorities. ATIS is currently working to address the All-IP transition, 5G, network functions virtualization, big data analytics, device solutions, emergency services, M2M, cyber security, network evolution, quality of service, billing support, operations, and much more. ATIS member companies encompass a broad scope of Communications Service Providers, Network Suppliers, Power Suppliers, Subsystems Suppliers, Government Agencies, Associations, Consumer Products Suppliers and Application/OTT Providers.

ATIS is currently seeking to broaden the membership base of its ANSI consensus bodies and is interested in new members to participate in its initiatives, including emergency services, sustainability, energy efficiency, network synchronization, and wireless technologies. Of particular interest is membership from the government, academia, and user (communications service provider) communities. Membership and participation in ATIS' activities is open to all organizations as defined in ATIS' operating procedures. More information is available at www.atis.org or by e-mail from membership@atis.org.

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ICC/ASHRAE 700-201x, National Green Building Standard

Home Innovation Research Labs is seeking committee members for ICC/ASHRAE 700-201x, National Green Building Standard (revision of ICC/ASHRAE 700-2015)

NOTE: Additional opportunity for applicants with interest in mixed-use buildings (residential and commercial occupancies) and buildings with institutional (I-1) occupancies for assisted living facilities, residential board and care facilities, and group homes.

Website for submitting application: www.homeinnovation.com/ngbs or contact:

Vladimir Kochkin
Home Innovation Research Labs
400 Prince George's Boulevard
Upper Marlboro, MD 20774-8731
Phone: (301) 430-6249
E-mail: standards@homeinnovation.com or vkochkin@HomeInnovation.com

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

AGA (ASC Z380) (American Gas Association)

Addenda

ANSI/GPTC Z380.1-2015 Edition, Addendum No. 7, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI/GPTC Z380.1-2015 Edition): 5/18/2017

ANS (American Nuclear Society)

Reaffirmation

ANSI/ANS 19.3.4-2002 (R2017), The Determination of Thermal Energy Deposition Rates in Nuclear Reactors (reaffirmation of ANSI/ANS 19.3.4-2002 (R2008)): 5/18/2017

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME AG-1-2017, Code on Nuclear Air and Gas Treatment (revision of ANSI/ASME AG-1-2015): 5/22/2017

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

Revision

* ANSI/ASSE A10.25-2017, Sanitation in Construction (revision of ANSI/ASSE A10.25-2009): 5/16/2017

ASTM (ASTM International)

New Standard

ANSI/ASTM D1785-2017, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120 (new standard): 5/16/2017

ANSI/ASTM D2152-2017, Test Method for Adequacy of Fusion of Extruded Poly(Vinyl Chloride) (PVC) Pipe and Molded Fittings by Acetone Immersion (new standard): 5/16/2017

ANSI/ASTM D2241-2017, Specification for Poly(Vinyl Chloride) (PVC) Pressure-Rated Pipe (SDR Series) (new standard): 5/16/2017

ANSI/ASTM F441/F441M-2017, Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe, Schedules 40 and 80 (new standard): 5/16/2017

ANSI/ASTM F442/F442M-2017, Specification for Chlorinated Poly (Vinyl Chloride) (CPVC) Plastic Pipe (SDRPR) (new standard): 5/16/2017

ANSI/ASTM F1760-2017, Specification for Coextruded Poly(Vinyl Chloride) (PVC) Non-Pressure Plastic Pipe Having Reprocessed-Recycled Content (new standard): 5/16/2017

ANSI/ASTM F2336-2017, Reinstatement on Standard Guide for Roller Hockey Playing Facilities (new standard): 5/15/2017

Reaffirmation

ANSI/ASTM F1937-2005 (R2017), Specification for Body Protectors Used in Horse Sports and Horseback Riding (reaffirmation of ANSI/ASTM F1937-2005 (R2010)): 5/15/2017

Revision

ANSI/ASTM E2690-2017, Practice for Specimen Preparation and Mounting of Caulks and Sealants to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2690-2010): 5/15/2017

ANSI/ASTM F2277-2017, Test Methods for Evaluating Design and Performance Characteristics of Selectorized Strength Equipment (revision of ANSI/ASTM F2277-2012): 5/15/2017

Withdrawal

ANSI/ASTM E1239-2005, Practice for Description of Reservation/Registration-Admission, Discharge, Transfer (R-ADT) Systems for Electronic Health Record (EHR) Systems (withdrawal of ANSI/ASTM E1239-2005 (R2010)): 5/9/2017

ANSI/ASTM E1340-2005, Guide for Rapid Prototyping of Information Systems (withdrawal of ANSI/ASTM E1340-2005 (R2010)): 5/9/2017

ANSI/ASTM E1744-2005, Practice for View of Emergency Medical Care in the Electronic Health Record (withdrawal of ANSI/ASTM E1744-2005 (R2010)): 5/9/2017

ANSI/ASTM E2017-1999, Guide for Amendments to Health Information (withdrawal of ANSI/ASTM E2017-1999 (R2010)): 5/9/2017

ANSI/ASTM E2212-2002, Practice for Healthcare Certificate Policy (withdrawal of ANSI/ASTM E2212-2002 (R2010)): 5/9/2017

ANSI/ASTM E2436-2010, Specification for the Representation of Human Characteristics Data in Healthcare Information Systems (withdrawal of ANSI/ASTM E2436-2010): 5/9/2017

ESTA (Entertainment Services and Technology Association)

Reaffirmation

ANSI E1.16-2002 (R2017), Entertainment Technology - Configuration Standard for Metal-Halide Ballast Power Cables (reaffirmation of ANSI E1.16-2002 (R2012)): 5/18/2017

ANSI E1.37-1-2012 (R2017), Additional Message Sets for ANSI E1.20 (RDM) - Part 1, Dimmer Message Sets (reaffirmation of ANSI E1.37 -1-2012): 5/18/2017

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

ANSI/IEEE 117-2015, Standard Test Procedure for Thermal Evaluation of Systems of Insulating Materials for Random-Wound AC Electric Machinery (new standard): 5/22/2017

ANSI/IEEE 1062-2015, Recommended Practice for Software Acquisition (new standard): 5/22/2017

Revision

ANSI/IEEE 802.15.4-2015, Standard for Low-Rate Wireless Personal Area Networks (WPANs) (revision of ANSI/IEEE 802.15.4-2011): 5/22/2017

ANSI/IEEE 1068-2015, Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical, and Process Industries (revision of ANSI/IEEE 1068-2009): 5/22/2017

NEMA (ASC C82) (National Electrical Manufacturers Association)

New Standard

* ANSI C82.17-2017, Lighting Equipment: High Frequency (HF) Electronic Ballasts for Metal Halide Lamps (new standard): 5/18/2017

Revision

ANSI C82.4-2017, Standard for Lamp Ballasts - Ballasts for High-Intensity-Discharge and Low- Pressure Sodium Lamps (Multiple-Supply Type) (revision of ANSI C82.4-2002 (R2010)): 5/18/2017

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 60079-17-2017, Standard for Safety for Explosive Atmospheres - Part 17: Electrical Installations Inspection and Maintenance (Proposal dated 02-17-17) (national adoption with modifications of IEC 60079-17): 5/12/2017

ANSI/UL 60079-17-2017a, Standard for Safety for Explosive Atmospheres - Part 17: Electrical Installations Inspection and Maintenance (Proposal dated 02-17-17) (national adoption with modifications of IEC 60079-17): 5/12/2017

ANSI/UL 60079-30-1-2017, Standard for Safety for Explosive Atmospheres - Part 30-1: Electrical Resistance Trace Heating - General and Testing Requirements (national adoption with modifications of IEC/IEEE 60079-30-1): 5/5/2017

* ANSI/UL 60335-2-40-2017, Household and Similar Electrical Appliances, Part 2: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (national adoption of IEC 60335-2-40 with modifications and revision of ANSI/UL 60335-2-40-2012): 5/15/2017

* ANSI/UL 60335-2-40-2017a, Household and Similar Electrical Appliances, Part 2: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers (national adoption of IEC 60335-2-40 with modifications and revision of ANSI/UL 60335-2-40-2012): 5/15/2017

Reaffirmation

ANSI/UL 260-2008 (R2017), Standard for Safety for Dry Pipe and Deluge Valves for Fire-Protection Service (reaffirmation of ANSI/UL 260-2008 (R2013)): 5/18/2017

ANSI/UL 1029-2012 (R2017), Standard for Safety for High-Intensity-Discharge Lamp Ballasts (reaffirmation of ANSI/UL 1029-2012): 5/17/2017

ANSI/UL 1565-2013 (R2017), Standard for Safety for Positioning Devices (reaffirmation of ANSI/UL 1565-2013): 5/5/2017

Revision

* ANSI/UL 325-2017b, Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2016): 5/19/2017

ANSI/UL 674-2017, Standard for Safety for Electric Motors and Generators for Use in Hazardous (Classified) Locations (Proposal dated 02-17-17) (revision of ANSI/UL 674-2011 (R2015)): 5/19/2017

ANSI/UL 746C-2017, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2016): 5/19/2017

ANSI/UL 746C-2017a, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2016): 5/19/2017

ANSI/UL 1063-2017, Standard for Safety for Machine-Tool Wire and Cables (Proposal dated 4-15-16) (revision of ANSI/UL 1063-2012): 5/19/2017

ANSI/UL 1063-2017a, Standard for Safety for Machine-Tool Wires and Cables (Proposal dated 11/18/16) (revision of ANSI/UL 1063-2012b): 5/19/2017

ANSI/UL 1283-2017, Standard for Safety for Electromagnetic Interference Filters (revision of ANSI/UL 1283-2015b): 5/17/2017

ANSI/UL 1626-2017, Standard for Residential Sprinklers for Fire-Protection Service (revision of ANSI/UL 1626-2012): 5/15/2017

* ANSI/UL 62841-3-9-2017, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-9: Particular Requirements for Transportable Mitre Saws (revision of ANSI/UL 62841-3-9-2016): 4/28/2017

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.

AAMI (Association for the Advancement of Medical Instrumentation)

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BSR/AAMI/ISO 11139-201x, Sterilization of health care products - Vocabulary - Terms used in sterilization and related equipment and process standards (identical national adoption of ISO 11139)

Stakeholders: Manufacturers, regulators, and other sterilization professionals.

Project Need: Establish common vocabulary and definitions for terms in the field of sterilization of healthcare products.

Defines terms in the field of sterilization of healthcare products used in the standards developed by ISO/TC 198 “Sterilization of healthcare products”, CEN/TC204 “Sterilization of medical devices”, and CEN/TC102 “Sterilizers and associated equipment for processing of medical devices”.

ANS (American Nuclear Society)

Office: 8669 NW 36 St, #130
Miami, FL 33166

Contact: *Rakesh Gupta*

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BSR/AWS A5.02/A5.02M-201X, Specification for Filler Metal Standard Sizes, Packaging, and Physical Attributes (revision of ANSI/AWS A5.02/A5.02M-2006)

Stakeholders: AWS A5 committee.

Project Need: AWS needs this standard so that we can refer to this in other AWS A5 standards instead of repeating this information in each AWS A5 standard.

This specification prescribes requirements for standard sizes and packages of welding filler metals and their physical attributes, such as product appearance and identification.

ASA (ASC S12) (Acoustical Society of America)

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Melville, NY 11747

Contact: *Neil Stremmel*

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BSR ASA S12.75-201x, Methods for the Measurement of Noise Emissions from High Performance Military Jet Aircraft (revision of ANSI ASA S12.75-2012)

Stakeholders: Government agencies that specify, purchase, and/or operate high-performance aircraft, aircraft industry, environmental interests, and academia.

Project Need: High-performance aircraft frequently dominate the noise contours at bases and airfields where they are operated. Accurate, reliable, and repeatable measurement techniques for both flyover and ground run-up noise are required for use in estimating aircraft source characteristics. The aircraft source characteristics are then used in various propagation models to estimate community noise levels for environmental assessments and environmental impact statements.

This standard describes noise measurement procedures to characterize the noise emissions from high-performance (supersonic jet flow) military aircraft. Noise measurement procedures are described for characterizing noise for environmental impact statements, for describing personnel noise exposures, for scientific investigations such as noise reduction and propagation studies, and for evaluation of aircraft and propulsion system compliance with noise requirements.

ASME (American Society of Mechanical Engineers)

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New York, NY 10016

Contact: *Mayra Santiago*

Fax: (212) 591-8501

E-mail: ansibox@asme.org

BSR/ASME B73.1-201x, Specification for Horizontal End Suction Centrifugal Pumps for Chemical Process (revision of ANSI/ASME B73.1-2001 (R2007))

Stakeholders: Manufacturers/producers, designers, distributors, users of chemical pumps.

Project Need: To reflect the state of the art with regard to horizontal-end suction pumps for chemical process.

This Standard is a design and specification standard that covers metallic and solid polymer centrifugal pumps of horizontal, end-suction single-stage, centerline discharge design. This Standard includes dimensional interchangeability requirements and certain design features to facilitate installation and maintenance and to enhance reliability and safety of B73.1 pumps. It is the intent of this Standard that pumps of the same standard dimension designation from all sources of supply shall be interchangeable with respect to mounting dimensions, size, and location of suction and discharge nozzles, input shafts, baseplates, and foundation bolt holes.

ASTM (ASTM International)

Office: 100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

Contact: *Corice Leonard*

Fax: (610) 834-3683

E-mail: accreditation@astm.org

BSR/ASTM WK58957-201x, New Specification for Polyolefin Pipe and Fittings for Drainage, Waste and Vent (DWV) Applications (new standard)

Stakeholders: Plastic Piping Systems industry.

Project Need: This specification covers requirements for non-pressure polyolefin pipe and fittings for drainage, waste, and vent applications. Pipe is produced in Schedule 40 and 80 IPS sizes, and in DR IPS sizes for two polyolefins, polyethylene (PE) and polypropylene (PP).

http://www.astm.org/DATABASE.CART/WORKITEMS/WK58957.htm

AWS (American Welding Society)

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130
Miami, FL 33166

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BSR/AWS B5.14-201X, Specification for the Qualification of Welding Sales Representatives (revision of ANSI/AWS B5.14-2009)

Stakeholders: Welders, employers, and manufacturers.

Project Need: This is needed to provide guidance to the welding industry on the qualification of welding sales representatives

This standard defines the minimum education, experience, and knowledge necessary to function effectively as a welding sales representative. It provides a method, through documentation of education and experience and a written examination, to qualify an individual as a Welding Sales Representative. It also provides general job functions a Welding Sales Representative should be able to perform.

BSR/AWS B5.15-201X, Specification for the Qualification of Radiographic Interpreters (revision of ANSI/AWS B5.15-2009)

Stakeholders: Radiographic interpreters, employers, and radiographic equipment manufacturers.

Project Need: This is needed to provide guidance to the welding industry on the qualification of radiographic interpreters.

This specification establishes the requirements for qualification of radiographic interpreters, with emphasis on film interpretation. It describes how these personnel shall be qualified, establishes training requirements, defines experience requirements, and establishes areas and levels of knowledge required to perform the functions related to radiographic interpretation.

AWS (American Welding Society)

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BSR/AWS A5.23/A5.23M-201x, Specification for Low-Alloy Steel Electrodes and Fluxes for Submerged Arc welding (revision of ANSI/AWS A5.23/A5.23M-2011)

Stakeholders: Filler Metal manufacturers and consumers.

Project Need: Adding new filler metal classifications.

This specification prescribes requirements for the classification of carbon steel and low-alloy steel electrodes (both solid and composite) and fluxes for submerged arc welding. Multiple pass flux-electrode classifications include requirements for low-alloy weld metal composition. Two-run flux-electrode classifications, which are also permitted under this specification, have no requirements for weld metal composition. The multiple pass classification of flux-electrode combinations for carbon steel submerged arc welding is not within the scope of this specification.

BSR/AWS A5.30/A5.30M-201X, Specification for consumables Inserts (new standard)

Stakeholders: Fabricators and consumers.

Project Need: Welding industry needs consumable inserts.

This specification prescribes requirements for the classification of plain steel, chromium-molybdenum low-alloy steel, stainless steel, nickel alloy, and copper-nickel alloy consumable inserts for use in conjunction with the gas tungsten arc welding process. These inserts also may be used with any other welding process for which they are found suitable.

AWS (American Welding Society)

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BRS/AWS F2.3M-201X, Specification for Transparent Welding Curtains and Screens (revision of ANSI/AWS F2.3M-2011)

Stakeholders: Welders, manufacturers, welding engineers.

Project Need: This document is needed to provide guidance to the welding industry on the testing, selection, and safe use of transparent welding curtains and screens.

The purpose of this standard is to provide reasonable and adequate means, ways, and methods for the testing, selection, and safe use of transparent welding curtains and screens. In order to carry this out, the function of these transparent welding curtains and screens needs to be understood clearly. These devices are designed to provide outside viewers, at some distance from the welding arc or operation, a safe view of the operation and operator.

S BSR/AWS F2.2-201x, Lens Shade Selector (revision of ANSI/AWS F2.2-2001 (R2009))

Stakeholders: Welders, manufacturers, welding engineers.

Project Need: This document provides guidance to the welding industry on the proper lens shade number to be used for eye protection for a variety of welding and cutting processes.

This chart provides minimum suggested protective lens shades and suggested comfort lens shades for a variety of commonly used welding and cutting processes.

BSR/AWS G1.2M/G1.2-201X, Specification for Standardized Ultrasonic Welding Test Specimen for Thermoplastics (revision of ANSI/AWS G1.2M/G1.2-1999 (R2010))

Stakeholders: Welders, manufacturers, welding engineers.

Project Need: This document is needed to provide guidance to the welding industry on the requirements for the ultrasonic welding test sample for thermoplastics and its welding and testing.

This specification outlines the requirements for a standard ultrasonic welding test sample for thermoplastics and its welding and testing.

BICSI (Building Industry Consulting Service International)

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Tampa, FL 33637

Contact: *Jeff Silveira*

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E-mail: jsilveira@bicsi.org

BSR/BICSI N1-201x, Installation Practices for Telecommunications and ICT Cabling and Related Cabling Infrastructure (new standard)

Stakeholders: Telecom, ICT, and converged system infrastructure designers and installers; manufacturers of building and communication systems, products; and requisite infrastructure that utilize network communications; system integrators; professionals and inspectors for building systems that utilize network connectivity.

Project Need: As more systems utilize or converge onto the data network, cabling and related infrastructure installation practices need to be defined, providing an effective and efficient physical network, allowing for safe and effective operation of all connected systems.

This standard describes minimum requirements and procedures for installing the cabling and cabling infrastructure for telecommunications and ICT systems. Additionally, this standard will provide recommendations, which may optimize performance or longevity of the cabling and cabling infrastructure and serve as a reference for “neat and workmanlike manner” installation practices.

BSR/BICSI N2-201x, Practices for the Installation of Telecommunications and ICT Cabling Intended to Support Remote Power (new standard)

Stakeholders: Telecom, ICT, and intelligent building system infrastructure designers and installers; manufacturers of remote power systems, products, and requisite infrastructure; professionals and inspectors related to the installation and inspection of remote power systems.

Project Need: As more system-utilized telecommunication and ICT cabling for supplying both power and data connectivity, and as the power supplied across these cables increases, additional requirements and guidance beyond the minimum specifications within electrical and safety codes needs to be established to increase performance, flexibility in deployments and mitigate foreseeable issues that may arise in the future.

This standard specifies best practices for installation of telecommunications cabling intended to support remote power. These installation practices are intended to facilitate compliance with applicable codes (e.g., National Electrical Code, Canadian Electrical Code) and to follow the recommendations and requirements of applicable standards. (NOTE: This topic is being developed in parallel with BICSI N1, but being kept separate to allow flexibility and speed of revision, as the topic is currently in flux and of import within NFPA 70.)

CAMTS (Commission on Accreditation of Medical Transport Systems)

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BSR/CAMTS Edition 11-201x, Air and Surface Medical Transport Standards (new standard)

Stakeholders: Aviation, surface (ground ambulance, water ambulance, snowmobile, etc.) providers,program administration(including communication), clinical, general interest (including the general public).

Project Need: This project is to review, modify and approve the existing CAMTS 10th edition accreditation standards under the ANSI approved process. The Standards address Management and Staffing, Quality Management (includes quality, safety and utilization management), Patient Care, Communications and Rotorwing, Fixedwing and Surface requirements for air and ground critical care, advanced and basic life support services and medical escorts.

This project is to review, modify, and approve the existing CAMTS 10th edition accreditation standards under the ANSI-approved process. The Standards address Management and Staffing; Quality Management (includes quality, safety, and utilization management); Patient Care; Communications and Rotorwing, Fixedwing and Surface requirements for air and ground critical care; advanced and basic life-support services; and medical escorts.

IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)

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Piscataway, NJ 08855-1331
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BSR C63.5-201x, Standard for Electromagnetic Compatibility - Radiated Emission Measurements in Electromagnetic Interference (EMI) Control - Calibration and Qualificaton of Antennas (9 kHz to 40 GHz) (revision of ANSI C63.5-2017)

Stakeholders: EMC test laboratories, EMC test equipment manufacturers, EMC laboratory accreditation bodies, regulatory bodies.

Project Need: This project proposes to amend the currently published document, ANSI C63.5, with clarifications and amendments.

Amend sections for time domain, loop calibrations, and frequency step size; Amend uncertainty calculations; Improve harmonization with IEC/CISPR; and Address other topics as they apply to the above.

IEEE (Institute of Electrical and Electronics Engineers)

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BSR/IEEE 2030.7-201x, Standard for the Specification of Microgrid Controllers (new standard)

Stakeholders: Vendors and manufacturers; transmission and distribution system operators; independent system operators; independent microgrid operators (industrial and community microgrids); and all entities participating in the capacity, energy, power, and ancillary services markets.

Project Need: The standard will assist vendors and users (utilities, independent microgrid operators) to specify and configure microgrid controllers.

The scope of this standard is to address the technical issues and challenges associated with the proper operation of the Microgrid Energy Management System (MEMS) that are common to all microgrids, regardless of topology, configuration or jurisdiction, and to present the control approaches required from the distribution system operator and the microgrid operator. Testing procedures are addressed.

BSR/IEEE 60214-2-201x, Tap-Changers - Part 2: Application Guide (new standard)

Stakeholders: The stakeholders of this guide include the electric utility users; commercial and industrial users; consultants; manufacturers of tap-changers, controls and transformers; and test laboratories.

Project Need: IEEE PE/TR does not have an tap-changer application guide to go along with its existing Load Tap Changer, C57.131. IEC TC14 has an application guide 60214-2 to go along with its on load tap-changer standard 60214-1. IEC TC14 has agreed a revison of 60214-2 is warranted due to a recently completed revision of 60214-1.

This application guide assists in the understanding, selection, and operation of tap-changers designed in accordance with the latest IEEE C57.131 and IEC 60214 Part 1 standards which include both resistor and reactor types, de-energized tap-changers, and their associated equipment. It applies for use with the tapped windings of power and distribution transformers of all types and reactors. It applies to tap-changers immersed in mineral-insulating oil, air, or gas insulation or other insulating liquids if applicable. It applies to tap-changers with arcing and arcing-free contacts depending on the application.

NEMA (ASC C8) (National Electrical Manufacturers Association)

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BSR NEMA WC 76-201x, Standard for Controlled Impedance Shielded Twisted Pairs in Internal Electrical Cable (new standard)

Stakeholders: Aerospace, electrical, electronic, and high-performance applications.

Project Need: A need exists to standardize specific requirements for finished cables with controlled impedance shielded twisted pair.

This Standards Publication was developed to cover specific requirements for finished cables with controlled impedance shielded twisted pair(s). This standard uniquely enables a user to specify various numbers of shielded pairs (1 - 61) with a required Impedance requirement, and tailor the materials to meet a specific end application. The cables are intended for wiring of electrical equipment.

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

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Contact: *Yvonne Meding*

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* BSR/RESNA ASE-2-2012 (R201x), RESNA Standard for Adaptive Sports Equipment - Volume 2: Adaptive Golf Cars (reaffirmation of ANSI/RESNA ASE-2-2012)

Stakeholders: Manufacturers of adaptive golf cars, golf course operators, mobility-impaired users of adaptive golf cars, public or private organizations or individuals that have an interest in the safety of adaptive golf cars.

Project Need: To reaffirm the standard for adaptive golf cars.

ANSI/NGCMA Z130.1-2004 provides Safety and Performance for Golf Cars. Adaptive golf cars are similar to standard golf cars in many respects but have hand controls, a swivel seat, and the golfer swings the golf club while sitting in the adaptive golf car. This creates numerous safety issues not addressed by ANSI/NGCMA Z130.1-2004 that need to be resolved.

TNI (The NELAC Institute)

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Weatherford, TX 76086

Contact: *Ken Jackson*

Fax: (817) 598-1177

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BSR/FSMO-V1-201x, General Requirements for Field Sampling and Measurement Organizations (revision of ANSI/FSMO-V1-2016)

Stakeholders: Field sampling and measurement organizations, governmental and non-governmental accreditation bodies, environmental laboratories, data users, regulatory agencies.

Project Need: The current standard was finalized in 2014 and is in need of review and updating to align with the new ISO 17025 that is in the process of being finalized.

The current standard will be reviewed and updated to ensure clarity and to bring the standard into alignment with the latest version of ISO 17025.

BSR/FSMO-V2-201x, General Requirements for Accreditation Bodies Accrediting Field Sampling and Measurement Organizations (revision of ANSI/FSMO-V2-2016)

Stakeholders: Field sampling and measurement organizations, governmental and non-governmental accreditation bodies, environmental laboratories, data users, regulatory agencies.

Project Need: The current standard was finalized in 2014, and is in need of review and updating to align with the new ISO 17011 that is in the process of being finalized.

The current standard will be reviewed and updated to ensure clarity and to bring the standard into alignment with the latest version of ISO 17011.

American National Standards Maintained Under Continuous Maintenance

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

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

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

- AAMI (Association for the Advancement of Medical Instrumentation)
- AAMVA (American Association of Motor Vehicle Administrators)
- AARST (The AARST Consortium on National Radon Standards)
- AGA (American Gas Association)
- AGSC-AGRSS (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (The Green Building Initiative)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- IESNA (The Illuminating Engineering Society of North America)
- 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)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

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

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

ANSI-Accredited Standards Developers Contact Information

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

AAFS
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AAMI
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ASA (ASC S12)
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ASA (ASC S3)
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ASHRAE
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

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ASME
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ASSE (Safety)
American Society of Safety Engineers

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ASTM
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AWWA
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BICSI
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CAMTS
Commission on Accreditation of Medical Transport Systems

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CSA
CSA Group

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ECIA
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ESTA
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FM
FM Approvals

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Norwood, MA 02062
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Fax: (781) 762-9375
Web: www.fmglobal.com

HI
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IEEE
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IEEE (ASC C63)
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ITI (INCITS)
InterNational Committee for Information Technology Standards

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Web: www.incits.org

NECA
National Electrical Contractors Association

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Web: www.neca-neis.org

NEMA (ASC C78)
National Electrical Manufacturers Association

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NEMA (ASC C8)
National Electrical Manufacturers Association

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NEMA (ASC C82)
National Electrical Manufacturers Association

1300 N 17th St
Rosslyn, VA 22209
Phone: 703-841-3262
Fax: 703-841-3362
Web: www.nema.org

NSF
NSF International

789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 827-3817
Fax: (734) 827-7875
Web: www.nsf.org

RESNA
Rehabilitation Engineering and Assistive Technology Society of North America

1560 Wilson Blvd.
Suite 850
Arlington, VA 22209-1903
Phone: (703) 524-6686
Fax: (703) 524-6686
Web: www.resna.org

TIA
Telecommunications Industry Association

1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Fax: (703) 907-7727
Web: www.tiaonline.org

TNI
The NELAC Institute

PO Box 2439
Weatherford, TX 76086
Phone: (518) 899-9697
Fax: (817) 598-1177
Web: www.NELAC-Institute.org

UL
Underwriters Laboratories, Inc.

333 Pfingsten Road
Northbrook, IL 60062-2096
Phone: (847) 664-3038
Fax: (847) 664-3038
Web: www.ul.com

VITA
VMEbus International Trade Association (VITA)

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

ISO & IEC Draft International Standards

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

Comments

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

Ordering Instructions

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

ISO Standards

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

IEC/DIS 60601-2-26, Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalographs, $53.00

BIOTECHNOLOGY (TC 276)

ISO/DIS 20387, Biotechnology - Biobanking - General requirements for biobanking - 8/12/2017, $98.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

ISO/DIS 19432-1, Building construction machinery and equipment - Portable, hand-held, internal-combustion-engine-driven abrasive cutting machines - Part 1: Safety requirements for cut-off machines for centre-mounted rotating abrasive wheels - 8/6/2017, $125.00

DENTISTRY (TC 106)

ISO/DIS 10139-1, Dentistry - Soft lining materials for removable dentures - Part 1: Materials for short-term use - 6/8/2017, $58.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 6182-8, Fire protection - Automatic sprinkler systems - Part 8: Requirements and test methods for pre-action dry alarm valves - 8/9/2017, $82.00

FIRE SAFETY (TC 92)

ISO/DIS 26367-1, Guidelines for assessing the adverse environmental impact of fire effluents - Part 1: General - 6/10/2017, $77.00

FREIGHT CONTAINERS (TC 104)

ISO/DIS 1496-5, Series 1 freight containers - Specification and testing - Part 5: Platform and platform-based containers - 8/12/2017, $98.00

GAS CYLINDERS (TC 58)

ISO 17871/DAmd1, Gas cylinders - Quick-release cylinder valves - Specification and type testing - Amendment 1: Gas cylinders - Quick-release cylinder valves - Specification and type testing - Amendment - 8/12/2017, $29.00

IMPLANTS FOR SURGERY (TC 150)

ISO/DIS 14242-4, Implants for surgery - Wear of total hip-joint prostheses - Part 4: Testing hip prostheses under variations in component positioning which results in direct edge loading: variation in cup inclination and medial-lateral centres offset - 6/7/2017, $62.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8178-6, Reciprocating internal combustion engines - Exhaust emission measurement - Part 6: Report of measuring results and test - 8/6/2017, $82.00

ISO/DIS 8528-5, Reciprocating internal combustion engine driven alternating current generating sets - Part 5: Generating sets - 6/8/2017, $119.00

MACHINE TOOLS (TC 39)

ISO/DIS 19085-12, Woodworking machines - Safety - Part 12: Tenoning/profiling machines - 6/8/2017, $134.00

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

ISO/DIS 21809-1, Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 1: Polyolefin coatings (3-layer PE and 3-layer PP) - 6/7/2017, $134.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 16836, Non-destructive testing - Acoustic emission testing - Measurement method for acoustic emission signals in concrete - 8/6/2017, $46.00

ISO/DIS 16837, Non-destructive testing - Acoustic emission inspection - Test method for damage qualification of reinforced concrete beams - 8/6/2017, $40.00

ISO/DIS 16838, Non-destructive testing - Acoustic emission inspection - Test method for classification of active cracks in concrete structures - 8/6/2017, $33.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 12123, Optics and photonics - Specification of raw optical glass - 8/10/2017, $82.00

OTHER

ISO/DIS 3690, Welding and allied processes - Determination of hydrogen content in arc weld metal - 6/11/2017, $88.00

ISO/DIS 8249, Welding - Determination of Ferrite Number (FN) in austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metals - 6/11/2017, $93.00

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

ISO/DIS 13259, Thermoplastics piping systems for underground non-pressure applications - Test method for leaktightness of elastomeric sealing ring type joints - 6/8/2017, $58.00

ISO/DIS 11296-1, Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 1: General - 8/9/2017, $67.00

ISO/DIS 11296-3, Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks - Part 3: Lining with close-fit pipes - 8/9/2017, $71.00

ISO/DIS 11297-1, Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 1: General - 8/9/2017, $71.00

ISO/DIS 11297-3, Plastics piping systems for renovation of underground drainage and sewerage networks under pressure - Part 3: Lining with close-fit pipes - 8/9/2017, $71.00

ISO/DIS 11298-1, Plastics piping systems for renovation of underground water supply networks - Part 1: General - 8/9/2017, $71.00

ISO/DIS 11298-3, Plastics piping systems for renovation of underground water supply networks - Part 3: Lining with close-fit pipes - 8/9/2017, $67.00

POWDER METALLURGY (TC 119)

ISO/DIS 4506, Hardmetals - Compression test - 6/11/2017, $40.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

ISO/DIS 9004, Quality management - Quality of an organization - Guidance to achieve sustained success - 6/9/2017, $125.00

QUANTITIES, UNITS, SYMBOLS, CONVERSION FACTORS (TC 12)

ISO/DIS 80000-3, Quantities and units - Part 3: Space and time - 8/6/2017, $53.00

ISO/DIS 80000-8, Quantities and units - Part 8: Acoustics - 8/6/2017, $53.00

ROAD VEHICLES (TC 22)

ISO/DIS 12103-3, Road vehicles - Test contaminants for filter evaluation - Part 3: Soot aerosol - 6/11/2017, $67.00

ISO/DIS 18541-5, Road vehicles - Standardized access to automotive repair and maintenance information (RMI) - Part 5: Heavy duty specific provision - 6/8/2017, $125.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 6502-1, Rubber - Measurement of vulcanization characteristics using curemeters - Part 1: Introduction - 6/8/2017, $62.00

ISO/DIS 6502-2, Rubber - Measurement of vulcanization characteristics using curemeters - Part 2: Oscillating disc curemeter - 6/8/2017, $58.00

ISO/DIS 6502-3, Rubber - Measurement of vulcanization characteristics using curemeters - Part 3: Rotorless curemeter - 6/8/2017, $77.00

STEEL (TC 17)

ISO/DIS 18632, Alloyed steel - Determination of manganese - Potentiometric and visual titration method - 8/10/2017, $62.00

SURFACE CHEMICAL ANALYSIS (TC 201)

ISO/DIS 13084, Surface chemical analysis - Secondary-ion mass spectrometry - Calibration of the mass scale for a time-of-flight secondary-ion mass spectrometer - 8/9/2017, $67.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

ISO/DIS 37106, Sustainable development and communities - Guide to establishing strategies for smart cities and communities - 6/11/2017, $119.00

ISO/DIS 37120, Sustainable development in communities - Indicators for city services and quality of life - 6/11/2017, $165.00

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

ISO/DIS 7176-30, Wheelchairs - Part 30: Wheelchairs for changing occupant posture - test methods and requirements - 8/6/2017, $77.00

TIMBER STRUCTURES (TC 165)

ISO/DIS 19624, Bamboo structures - grading of bamboo culms - Basic principles and procedures - 6/8/2017, $82.00

ISO/DIS 22157-1, Bamboo structures - Determination of physical and mechanical properties of bamboo culms - Part 1: Test methods - 6/8/2017, $77.00

TYRES, RIMS AND VALVES (TC 31)

ISO/DIS 9413, Tyre valves - Dimensions and designation - 6/8/2017, $175.00

ISO/DIS 7867-1, Metric series for agricultural, forestry machines and construction tyres - Part 1: Tyre designation, dimensions and marking, and tyre/rim coordination - 8/9/2017, $119.00

ISO/DIS 7867-2, Metric series for agricultural, forestry machines and construction tyres - Part 2: Load ratings for agricultural tyres - 8/9/2017, $98.00

WATER QUALITY (TC 147)

ISO/DIS 11704, Water quality - Gross alpha and gross beta activity - Test method using liquid scintillation counting - 8/5/2017, $77.00

WATER RE-USE (TC 282)

ISO/DIS 20761, Water reuse in urban areas - Guidelines for water reuse safety evaluation: assessment parameters and methods - 6/9/2017, $93.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 29100/DAmd1, Information technology - Security techniques - Privacy framework - Amendment 1: Clarifications - 8/5/2017, $40.00

ISO/IEC 14888-3/DAmd1, Information technology - Security techniques - Digital signatures with appendix - Part 3: Discrete logarithm based mechanisms - Amendment 1: SM2 digital signature mechanism - 8/12/2017, $88.00

ISO/IEC 23000-19/DAmd1, Information technology - Multimedia application format (MPEG-A) - Part 19: Common media application format (CMAF) for segmented media - Amendment 1: SHVC media profile and additional audio media profiles - 8/9/2017, $67.00

ISO/IEC DIS 19086-2, Information technology - Cloud computing - Service level agreement (SLA) framework - Part 2: Metric Model - 8/9/2017, $112.00

ISO/IEC DIS 24748-2, Systems and software engineering - Life cycle management - Part 2: Guidelines to the application of ISO/IEC/IEEE 15288 (System life cycle processes) - 8/12/2017, $125.00

ISO/IEC DIS 23000-20, Information technology - Multimedia application format (MPEG-A) - Part 20: Omnidirectional media application format - 8/5/2017, $107.00

IEC Standards

1/2329/CDV, IEC 60050-426 ED3: International Electrotechnical Vocabulary - Part 426: Equipment for explosive atmospheres, 2017/8/11

22F/455/CD, IEC 60633 ED3: Terminology for high-voltage direct current (HVDC) transmission, 2017/7/14

22F/454/CD, IEC 62751-2/AMD1 ED1: Power losses in voltage sourced converter (VSC) valves for high-voltage direct current (HVDC) systems - Part 2: Modular multilevel converters, 2017/7/14

22F/453/CD, IEC 62747/AMD1 ED1: Terminology for voltage-sourced converters (VSC) for high-voltage direct current (HVDC) systems, 2017/7/14

23J/432/CDV, IEC 61058-2-1 ED3: Switches for appliances - Part 2-1: Particular requirements for cord switches, 2017/8/11

23J/434/CDV, IEC 61058-2-5 ED3: Switches for appliances - Part 2-5: Particular requirements for change-over selectors, 2017/8/11

23J/435/CDV, IEC 61058-2-6 ED2: Switches for appliances - Part 2-6: Particular requirements for switches used in electric motor-operated hand-held tools, transportable tools and lawn and garden machinery, 2017/8/11

23J/433/CDV, IEC 61058-2-4 ED2: Switches for appliances - Part 2-4: Particular requirements for independently mounted switches, 2017/8/11

46C/1073A/NP, PNW 46C-1073: Hybrid telecommunication cables - Part 3: Outdoor hybrid cables - Sectional specification, 017/8/4/

47/2386/CDV, IEC 60749-12 ED2: Semiconductor devices - Mechanical and climatic test methods - Part 12: Vibration, variable frequency, 2017/8/11

47E/572/CD, IEC 60747-9 ED3: Semiconductor devices - Part 9: Discrete devices - Insulated-gate bipolar transistors (IGBTs), 2017/8/11

49/1229/FDIS, IEC 60679-1 ED4: Piezoelectric, dielectric and electrostatic oscillators of assessed quality - Part 1: Generic specification, 2017/6/30

51/1181/CDV, IEC 63093-7 ED1: Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 7: EER-cores, 2017/8/11

57/1860/CDV, IEC 62351-4 ED1: Power systems management and associated information exchange - Data and communications security - Part 4: Profiles including MMS, 2017/8/11

66/632/CDV, IEC 61010-031/AMD1 ED2: Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held and hand-manipulated probe assemblies for electrical test and measurement., 2017/8/11

68/570/CDV, IEC 60404-16 ED1: Magnetic materials - Part 16: Methods of measurement of the magnetic properties of Fe-based amorphous strip by means of a single sheet tester, 2017/8/11

68/571/CDV, IEC 60404-8-11 ED1: Magnetic materials - Part 8-11: Specifications for individual materials - Fe-based amorphous strip delivered in the semi-processed state, 2017/8/11

68/572/CDV, IEC 60404-6 ED3: Magnetic materials - Part 6: Methods of measurement of the magnetic properties of magnetically soft metallic and powder materials at frequencies in the range 20 Hz to 100 kHz by the use of ring specimens, 2017/8/11

86A/1798/CD, IEC 60793-1-31 ED3: Optical fibres - Part 1-31: Measurement methods and test procedures - Tensile strength, 2017/8/11

86A/1800/CD, IEC 60793-1-40 ED2: Optical fibres - Part 1-40: Measurement methods and test procedures - Attenuation, 2017/8/11

86C/1463/NP, PNW 86C-1463: Fibre-optic communication subsystem test procedures - Part 3: Passive optical networks - Attenuation and optical return loss measurements, 2017/8/11

96/465/FDIS, IEC 62041 ED3: Transformers, power supplies, reactors and similar products- EMC requirements, 2017/6/30

100/2936/DC, Maintenance of IEC 61883-7 Ed.1.0 Consumer audio/video equipment - Digital interface - Part 7: Transmission of ITU-R BO.1294 System B (TA 4), 2017/6/23

100/2938/DC, IEC 61937-8 Ed.1.0 Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 8: Non-linear PCM bitstreams according to the Windows Media Audio (WMA) professional format (TA 4), 2017/6/23

100/2937/DC, IEC 61937-4 Ed.1.0 Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 4: Non-linear PCM bitstreams according to the MPEG audio format (TA 4), 2017/6/23

104/724/CDV, IEC 60068-2-67/AMD1 ED1: Environmental testing - Part 2-67: Tests - Test Cy: Damp heat, steady state, accelerated test primarily intended for components, 2017/8/11

112/388(F)/CDV, IEC 61857-33 ED1: Electrical insulation systems - Procedures for thermal evaluation - Part 33: Multifactor evaluation with increased factors at elevated temperature, 017/8/4/

CISPR/1374/Q, Emission limits above 6 GHz, 2017/6/30

SyCSmartEnergy/57/CD, IEC TS 62913-1 ED1: Generic Smart Grid Requirements - Part 1: Specific application of the Use Case methodology for defining Generic Smart Grid Requirements according to the IEC System approach, 2017/8/11

Newly Published ISO & IEC Standards

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 11290-1:2017, Microbiology of the food chain - Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. - Part 1: Detection method, $185.00

ISO 11290-2:2017, Microbiology of the food chain - Horizontal method for the detection and enumeration of Listeria monocytogenes and of Listeria spp. - Part 2: Enumeration method, $162.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO 80601-2-74:2017, Medical electrical equipment - Part 2-74: Particular requirements for basic safety and essential performance of respiratory humidifying equipment, $232.00

ANALYSIS OF GASES (TC 158)

ISO 16664:2017, Gas analysis - Handling of calibration gases and gas mixtures - Guidelines, $103.00

BIOLOGICAL EVALUATION OF MEDICAL AND DENTAL MATERIALS AND DEVICES (TC 194)

ISO 10993-16:2017, Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables, $103.00

BUILDING CONSTRUCTION (TC 59)

ISO 16745-1:2017, Sustainability in buildings and civil engineering works - Carbon metric of an existing building during use stage - Part 1: Calculation, reporting and communication, $185.00

ISO 16745-2:2017, Sustainability in buildings and civil engineering works - Carbon metric of an existing building during use stage - Part 2: Verification, $45.00

CORROSION OF METALS AND ALLOYS (TC 156)

ISO 15257:2017, Cathodic protection - Competence levels of cathodic protection persons - Basis for a certification scheme, $162.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO 16063-45:2017, Methods for the calibration of vibration and shock transducers - Part 45: In-situ calibration of transducers with built in calibration coil, $103.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

ISO 20267:2017, Thermal spraying - Determination of interfacial toughness of ceramic coatings by indentation, $68.00

PAPER, BOARD AND PULPS (TC 6)

ISO 9416:2017, Paper - Determination of light scattering and absorption coefficients (using Kubelka-Munk theory), $68.00

ROAD VEHICLES (TC 22)

ISO 17949/Amd1:2017, Impact test procedures for road vehicles - Seating and positioning procedures for anthropomorphic test devices - Procedure for the WorldSID 5Oth percentile male side-impact dummy in front outboard seating positions - Amendment 1, $19.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO 6482:2017, Shipbuilding - Deck machinery - Warping end profiles, $45.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO 20308:2017, Traditional Chinese medicine - Gua Sha instruments, $103.00

ISO 20498-2:2017, Traditional Chinese medicine - Computerized tongue image analysis system - Part 2: Light environment, $45.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO 14823:2017, Intelligent transport systems - Graphic data dictionary, $185.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO 14555:2017, Welding - Arc stud welding of metallic materials, $209.00

ISO Technical Reports

DOCUMENT IMAGING APPLICATIONS (TC 171)

ISO/TR 15801:2017, Document management - Electronically stored information - Recommendations for trustworthiness and reliability, $185.00

HUMAN RESOURCE MANAGEMENT (TC 260)

ISO/TR 30406:2017, Human resource management - Sustainable employability management for organizations, $103.00

IRON ORES (TC 102)

ISO/TR 9686:2017, Direct reduced iron - Determination of carbon and/or sulfur - High-frequency combustion method with infrared measurement, $103.00

ISO Technical Specifications

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/TS 19046-1:2017, Cheese - Determination of propionic acid level by chromatography - Part 1: Method by gas chromatography, $68.00

ISO/TS 19046-2:2017, Cheese - Determination of propionic acid level by chromatography - Part 2: Method by ion exchange chromatography, $68.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 13818-1/Amd3/Cor1:2017, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Corrigendum, FREE

ISO/IEC 13818-1/Cor2:2017, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Corrigendum, FREE

ISO/IEC/IEEE 15939:2017, Systems and software engineering - Measurement process, $185.00

IEC Standards

CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)

IEC 61169-59 Ed. 1.0 en:2017, Radio-frequency connectors - Part 59: Sectional specification for type L32-4 and L32-5 threaded multi-pin radio-frequency connectors, $235.00

CAPACITORS AND RESISTORS FOR ELECTRONIC EQUIPMENT (TC 40)

IEC 60384-15 Ed. 2.0 en:2017, Fixed capacitors for use in electronic equipment - Part 15: Sectional specification: Fixed tantalum capacitors with non-solid or solid electrolyte, $235.00

ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)

IEC 60079-13 Ed. 2.0 en:2017, Explosive atmospheres - Part 13: Equipment protection by pressurized room and artificially ventilated room, $235.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

IEC 60601-2-65 Amd.1 Ed. 1.0 b:2017, Amendment 1 - Medical electrical equipment - Part 2-65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment, $23.00

IEC 60601-2-65 Ed. 1.1 b:2017, Medical electrical equipment - Part 2 -65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment, $410.00

ELECTRICAL INSTALLATIONS OF SHIPS AND OF MOBILE AND FIXED OFFSHORE UNITS (TC 18)

IEC 60092-376 Ed. 3.0 en:2017, Electrical installations in ships - Part 376: Cables for control and instrumentation circuits 150/250 V (300 V), $164.00

IEC/PAS 63108 Ed. 1.0 en:2017, Electrical installations in ships - Primary DC distribution - System design architecture, $117.00

S+ IEC 60092-376 Ed. 3.0 en:2017 (Redline version), Electrical installations in ships - Part 376: Cables for control and instrumentation circuits 150/250 V (300 V), $213.00

ELECTROMAGNETIC COMPATIBILITY (TC 77)

IEC 61000-3-3 Amd.1 Ed. 3.0 b:2017, Amendment 1 - Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection, $12.00

IEC 61000-3-3 Ed. 3.1 b:2017, Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤16 A per phase and not subject to conditional connection, $322.00

IEC 61000-4-11 Amd.1 Ed. 2.0 b:2017, Amendment 1 - Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests, $23.00

IEC 61000-4-11 Ed. 2.1 b:2017, Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests, $293.00

ELECTROMECHANICAL COMPONENTS AND MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENTS (TC 48)

IEC 61587-6 Ed. 1.0 en:2017, Mechanical structures for electrical and electronic equipment - Tests for IEC 60917 and IEC 60297 series - Part 6: Security aspects for indoor cabinets, $82.00

IEC 61076-3-104 Ed. 3.0 en:2017, Connectors for electrical and electronic equipment - Product requirements - Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz, $352.00

IEC 61076-3-122 Ed. 1.0 en:2017, Connectors for electrical and electronic equipment - Product requirements - Part 3-122: Detail specification for 8-way, shielded, free and fixed connectors for I/O and Gigabit Ethernet applications in harsh environments, $235.00

FLAT PANEL DISPLAY DEVICES (TC 110)

IEC 62341-6-4 Ed. 1.0 en:2017, Organic light emitting diode (OLED) displays - Part 6-4: Measuring methods of transparent properties, $235.00

IEC 62715-5-1 Ed. 1.0 en:2017, Flexible display devices - Part 5-1: Measuring methods of optical performance, $281.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

IEC 61326-3-1 Ed. 2.0 b:2017, Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications, $281.00

IEC 61326-3-2 Ed. 2.0 b:2017, Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment, $235.00

S+ IEC 61326-3-1 Ed. 2.0 en:2017 (Redline version), Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications, $366.00

S+ IEC 61326-3-2 Ed. 2.0 en:2017 (Redline version), Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment, $305.00

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC 61184 Ed. 4.0 b:2017, Bayonet lampholders, $352.00

IEC 60598-1 Ed. 8.0 b cor.3:2017, Corrigendum 3 - Luminaires - Part 1: General requirements and tests, $0.00

IEC 62386-301 Ed. 1.0 b:2017, Digital addressable lighting interface - Part 301: Particular requirements - Input devices - Push buttons, $164.00

IEC 62386-302 Ed. 1.0 b:2017, Digital addressable lighting interface - Part 302: Particular requirements - Input devices - Absolute input devices, $164.00

IEC 62386-303 Ed. 1.0 b:2017, Digital addressable lighting interface - Part 303: Particular requirements - Input devices - Occupancy sensor, $164.00

IEC 62386-304 Ed. 1.0 b:2017, Digital addressable lighting interface - Part 304: Particular requirements - Input devices - Light sensor, $164.00

MEASURING EQUIPMENT FOR ELECTROMAGNETIC QUANTITIES (TC 85)

IEC 62974-1 Ed. 1.0 b:2017, Monitoring and measuring systems used for data collection, gathering and analysis - Part 1: Device requirements, $199.00

POWER ELECTRONICS (TC 22)

IEC 62909-1 Ed. 1.0 b:2017, Bi-directional grid connected power converters - Part 1: General requirements, $281.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

IEC 61850-SER Ed. 1.0 en:2017, Communication networks and systems for power utility automation - ALL PARTS, $8383.00

IEC 62351-SER Ed. 1.0 en:2017, Power systems management and associated information exchange - Data and communications security - ALL PARTS, $2392.00

IEC 62351-9 Ed. 1.0 en:2017, Power systems management and associated information exchange - Data and communications security - Part 9: Cybersecurity key management for power system equipment, $352.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

IEC 62784 Ed. 1.0 b:2017, Vacuum cleaners and dust extractors providing equipment protection level Dc for the collection of combustible dusts - Particular requirements, $47.00

SECONDARY CELLS AND BATTERIES (TC 21)

IEC 62877-1 Ed. 1.0 b cor.1:2017, Corrigendum 1 - Electrolyte and water for vented lead acid accumulators - Part 1: Requirements for electrolyte, $0.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

IEC 60904-SER Ed. 1.0 b:2017, Photovoltaic devices - ALL PARTS, $979.00

IEC 60904-1-1 Ed. 1.0 b:2017, Photovoltaic devices - Part 1-1: Measurement of current-voltage characteristics of multi-junction photovoltaic (PV) devices, $82.00

IEC 60904-8-1 Ed. 1.0 b:2017, Photovoltaic devices - Part 8-1: Measurement of spectral responsivity of multi-junction photovoltaic (PV) devices, $82.00

SURFACE MOUNTING TECHNOLOGY (TC 91)

IEC 61189-5-503 Ed. 1.0 en:2017, Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 5-503: General test method for materials and assemblies - Conductive anodic filaments (CAF) testing of circuit boards, $164.00

IEC Technical Reports

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

IEC/TR 60601-4-1 Ed. 1.0 en:2017, Medical electrical equipment - Part 4-1: Guidance and interpretation - Medical electrical equipment and medical electrical systems employing a degree of autonomy, $352.00

MAGNETIC ALLOYS AND STEELS (TC 68)

IEC/TR 62981 Ed. 1.0 en:2017, Studies and comparisons of magnetic measurements on grain-oriented electrical steelsheet determined by the single sheet test method and Epstein test method, $235.00

MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)

IEC/TR 63090 Ed. 1.0 en:2017, Dimensional tolerances of ferrite cores, $317.00

PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)

IEC/TR 63061 Ed. 1.0 en:2017, Adjusted volume calculation for refrigerating appliances, $82.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

IEC/TR 61850-90-17 Ed. 1.0 en:2017, Communication networks and systems for power utility automation - Part 90-17: Using IEC 61850 to transmit power quality data, $352.00

IEC Technical Specifications

ELECTROMAGNETIC COMPATIBILITY (TC 77)

IEC/TS 61000-5-10 Ed. 1.0 en:2017, Electromagnetic compatibility (EMC) - Part 5-10: Installation and mitigation guidelines - Guidance on the protection of facilities against HEMP and IEMI, $317.00

STANDARD VOLTAGES, CURRENT RATINGS AND FREQUENCIES (TC 8)

IEC/TS 62898-1 Ed. 1.0 en:2017, Microgrids - Part 1: Guidelines for microgrid projects planning and specification, $235.00

Proposed Foreign Government Regulations

Call for Comment

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

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

To register for Notify U.S., please visit http://www.nist.gov/notifyus/.

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

For further information about the USA TBT Inquiry Point, please visit: https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point

Contact the USA TBT Inquiry Point at:(301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

SCTE is currently seeking to broaden the membership base of its 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.

Comment Deadline Extension

BSR/UL 1090-201x

The Call for Comment Deadline on UL 1090 has been extended to 7/10/2017. The following UL proposal was listed in the May 25, 2017 Standards Action

BSR/UL 1090-201x, Standard for Safety for Electric Snow Movers (revision of ANSI/UL 1090-2016)

(1) Proposed addition of Electrostatic Discharge Test requirements to determine if potential safety hazards exist during operation; (2) Proposed revision and addition of safety instruction requirements to specify minimum gauge requirements.

Single copy price: Contact comm2000 for pricing and delivery options

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Beth Northcott, (847) 664-3198, Elizabeth.Northcott@ul.com

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

ANSI Accredited Standards Developers

Approval of Reaccreditation

National Board of Boiler and Pressure Vessel Inspectors (NBBPVI)

ANSI's Executive Standards Council has approved the reaccreditation of the National Board of Boiler and Pressure Vessel Inspectors (NBBPVI), an ANSI Member and Accredited Standards Developer, under its recently revised National Board Inspection Code Procedure for documenting consensus on NBBPVI-sponsored American National Standards, effective May 19, 2017. For additional information, please contact: Mr. Brad Besserman, Staff Engineer, National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Avenue, Columbus, OH 43229; phone: 614.431.3236; e-mail: BBesserman@nationalboard.org.

VMEbus International Trade Association (VITA)

The reaccreditation of the VMEbus International Trade Association (VITA), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised Procedures for the Development of American National Standards within the VITA Standards Organization (in addition to the current VSO Policies and Procedures on file), effective May 18, 2017. For additional information, please contact: Mr. Jing Kwok, Technical Director, VMEbus International Trade Association, 929 W. Portobello Avenue, Mesa, AZ 85210; phone: 602.281.4497; e-mail: jing.kwok@vita.com.

ANSI Accreditation Program for Third Party Product Certification Agencies

Initial Accreditation

UL LLC

Comment Deadline: June 26, 2017

Mr. Keith Mowry
Manager, Accreditation Services
UL LLC
333 Pfingsten Road
Northbrook, IL 60062
Phone: (847) 272-8800
E-mail: keith.a.mowry@ul.com
Web: www.ul.com

On May 19, 2017, UL LLC was granted accreditation for the following:

Certification Scheme:

EPA WaterSense® Product Certification System

Scopes:

- Tank-Type High-Efficiency Toilets
- High-Efficiency Lavatory Faucets
- High-Efficiency Flushing Urinals
- Flushometer-Valve Toilets
- Showerheads
- Commercial Pre-Rinse Spray Valves

Please send your comments by June 26, 2017 to Reinaldo Balbino Figueiredo, Senior Program Director, Product/Process/Services Accreditation Programs, 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, Director, Product/Process/Services Accreditation Programs, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: njackson@ansi.org.

Scope Extension

UL Verification Services, Inc.

Comment Deadline: June 26, 2017

Mr. Rick Titus
UL Verification Services, Inc.
333 Pfingsten Road
Northbrook, IL 60062
Phone: (847) 664-3281
E-mail: Rick.A.Titus@ul.com
Web: www.ul.com

On May 19, 2017, UL Verification Services Inc. was granted accreditation for the following:

Certification Scheme:

Conditions and Criteria for Recognition of Certification Bodies for the ENERGY STAR® Program

Scope:

Office Equipment

- Large Network Equipment

Please send your comments by June 26, 2017 to Reinaldo Balbino Figueiredo, Senior Program Director, Product/Process/Services Accreditation Programs, 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, Director, Product/Process/Services Accreditation Programs, 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 U.S. TAG Administrator

ISO/TC 17/SC 7 – Methods of Testing (Other than Mechanical Tests and Chemical Analysis)

Reply Deadline: June 22, 2017

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17, wishes to relinquish their membership in ISO/TC 17/SC 7.

ISO/TC 17/SC 7 operates under the following scope:

Standardization of methods of testing steel other than:

- mechanical tests
- -chemical analysis
- -non-destructive tests covered by other ISO/TC 17/SCs and ISO/TC 135.

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

ISO/TC 17/SC 20 – General Technical Delivery Conditions, Sampling and Mechanical Testing Methods

Reply Deadline: June 22, 2017

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17, wishes to relinquish their membership in ISO/TC 17/SC 20.

ISO/TC 17/SC 20 operates under the following scope:

Standardization of general technical delivery conditions, inspection documents and general rules for selection and preparation of samples and test pieces for mechanical testing of wrought steels.

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

Establishment of ISO Subcommittees

ISO/TC 35/SC 15 – Protective Coatings: Concrete Surface Preparation and Coating application

ISO/TC 35, Paints and Varnishes, has created a new ISO Subcommittee on Protective coatings: concrete surface preparation and coating application (SC 15). The Secretariat has been assigned to the United States (ANSI).

ISO/TC 35/SC 15 operates under the following scope:

This subcommittee will develop standards for protective coatings being applied to a concrete substrate. The intent of the committee is to cover all aspects from the creation of the specification to pre-surface preparation through cure of coating that has been applied. It will cover testing for contaminants on/in the concrete substrate, surface preparation materials and methods, coatings applied and coating application methods, and inspection techniques used once coating has been applied and cured.

NACE International has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO/TC 68/SC 8 – Reference Data for Financial Services

ISO/TC 68, Financial Services, has created a new ISO Subcommittee on Reference Data for Financial Services (SC 8). The Secretariat has been assigned to Switzerland (SNV).

ISO/TC 68/SC 8 operates under the following scope:

> Standardization in the field of reference data for financial services.

Accredited Standards Committee X9, Inc. Financial Industry Standards, has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO/TC 68/SC 9 – Information Exchange for Financial Services

ISO/TC 68, Financial Services, has created a new ISO Subcommittee on Information Exchange for Financial Services (SC 9). The Secretariat has been assigned to France (AFNOR).

ISO/TC 68/SC 9 operates under the following scope:

> Standardization in the field of information exchange for financial services.

Accredited Standards Committee X9, Inc. Financial Industry Standards has committed to administer the U.S. TAG. Organizations interested in participating on the U.S. TAG should contact ANSI's ISO Team (isot@ansi.org).

ISO Proposal for a New Field of ISO Technical Activity

Excellence in Service

Comment Deadline: June 23, 2017

DIN, the ISO member body for Germany, has submitted to ISO a proposal for a new field of ISO technical activity on Excellence in Service, with the following scope statement:

> This standardization project wants to develop documents on the guidance for the creation of outstanding customer experiences through the provision of excellent services to achieve customer delight. It does not focus on providing basic customer service which organizations should already have in place. These documents apply to all organizations delivering services, such as commercial organizations, public services and not-for-profit organizations.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 23, 2017.

U.S. Technical Advisory Groups

Approval of Reaccreditation

U.S. TAG to ISO TC 301, Energy Management and Energy Savings

ANSI's Executive Standards Council has approved the reaccreditation of the U.S. Technical Advisory Group to ISO TC 301, Energy Management and Energy Savings under its recently revised operating procedures, effective May 19, 2017. For additional information, please contact the TAG Administrator of the U.S. TAG to ISO TC 301: Ms. Deann Desai, Project Manager, Georgia Tech Energy and Sustainability Services, 1050 Willow Ridge, Athens, GA 30606; phone: 770.605.4474; e-mail: deann.desai@innovate.gatech.edu.

Information Concerning

International Organization for Standardization (ISO)
Call for International (ISO) Secretariat
ISO/TC 85/SC 6 – *Reactor Technology*
Reply Deadline: June 9, 2017

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 85/SC 6 – *Reactor Technology*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 85/SC 6 to the ASTM International. ASTM has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 85/SC 6 operates under the following scope:

> *Development of standards in the Reactor technology within the scope of ISO/TC 85:*
>
> *Standardization in the field of peaceful applications of nuclear energy, nuclear technologies and in the field of the protection of individuals and the environment against all sources of ionizing radiations.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 85/SC 6. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;
2. The affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;
3. The relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
4. ANSI is able to fulfill the requirements of a Secretariat.

If no U.S. organization steps forward to assume the ISO/TC 85/SC 6 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by June 9, 2017, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

Information concerning the United States retaining the role of international Secretariat may be obtained by contacting ANSI's ISO Team (isot@ansi.org).

Public Review Draft

Proposed Addendum ar to Standard 189.1-2014

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

Second Public Review (May 2017)
(Draft Shows Independent Substantive Changes to Previous Public Review Draft)

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

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

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

FOREWORD

The energy performance criteria in Section 7.5.2 currently includes energy cost and carbon emissions. This addendum would add a third criteria, based on source energy and zero energy performance index. There are two other addenda (w and x) under consideration which also make changes to 7.5.2, but they are entirely independent of this proposal.

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

Addendum ar to 189.1-2014

Revise as follows:

7.5.2(c) Zero Energy Performance Index. The zero energy performance index ($zEPI_{2004}$) of the *proposed design*, including *on-site renewable energy systems*, shall be less than the target ($zEPI_{2004\ Target}$). $zEPI_{2004}$ and $zEPI_{2004\ Target}$ shall be calculated as described below.

$$zEPI_{2004} = \frac{\sum_i PD\text{~~S~~}E_i \times r_i}{\sum_i BB\text{~~S~~}E_i \times r_i}$$

where

$zEPI_{2004}$	Zero energy performance index relative to the Standard 90.1 baseline as defined in the performance rating method of Appendix G.
$PD\text{~~S~~}E_i$	Proposed design ~~source~~ site energy use for energy type i.
$BB\text{~~S~~}E_i$	Baseline building ~~source~~ site energy use for energy type i. The baseline building is created following the rules in Standard 90.1, Appendix G.
r_i	Source energy conversion factor for energy type i, value taken from Table 7.5.4A.

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$$zEPI_{2004\ Target} = \frac{BBUSE + (BBRSE \times BPF) - RECSE}{BBUSE + BBRSE}$$

where

$zEPI_{2004\ Target}$ Zero energy performance index target ($zEPI_{2004\ Target}$) required for achieving compliance with the standard, unitless.

BBUSE Baseline building *unregulated energy use* expressed in source units.

BBRSE Baseline building *regulated energy use* expressed in source units.

BPF Building performance factor taken from Table 7.5.2A, unitless.

RECSE Renewable energy production determined from Section 7.4.1.1.1 and converted to source energy.

Informative Note: Informative Appendix I details a methodology for converting $zEPI_{2004}$ to zEPI. $zEPI_{2004}$ uses Standard 90.1 Appendix G to define the baseline building. The traditional definition of zEPI uses the median energy of the existing building stock in the year 2000 as the baseline. The traditional zEPI definition is used by the Architecture 2030 program and for other programs.

TABLE 7.5.4 - National Average Source Energy Conversion Factors

Energy Type	Conversion Factor (r)
Electricity, Imported	3.15
Electricity, Exported Renewable	3.15
Natural Gas	1.09
Fuel Oil (1,2,4,5,6,Diesel, Kerosene)	1.19
Propane & Liquid Propane	1.15
Steam	1.45
Hot Water	1.35
Chilled Water	1.04
Coal or Other	1.05

Note: The values in this table represent national averages for the United States.

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Add the following Informative Appendix:

INFORMATIVE APPENDIX I
zEPI CONVERSION METHODOLOGY

The procedures in Section 7.5.4 result in a zEPI target ($zEPI_{2004\ Target}$) and a zEPI rating ($zEPI_{2004}$) which use 90.1 Appendix G to define the baseline building. The traditional baseline for zEPI uses CBECS 2003 to approximate the building stock at the turn of the millennium. Both $zEPI_{2004\ Target}$ and $zEPI_{2004}$ can be converted to the traditional baseline by applying the multipliers in Table I-1.

$$zEPI = zEPI_{2004} \times M$$

$$zEPI_{Target} = zEPI_{2004\,Target} \times M$$

where

zEPI	zero energy performance index using CBECS 2003 as the baseline
$zEPI_{2004}$	zero energy performance index using 90.1 Appendix G as the baseline
$zEPI_{Target}$	zero energy performance index target using CBECS 2003 as the baseline
$zEPI_{2004\ Target}$	zero energy performance index target using 90.1 Appendix G as the baseline

TABLE I-1 – zEPI Conversion Factors (M)

	1A	2A	3A	4A	5A	6A	7	2B	3B	4B	5B	6B	3C	4C	8
Multifamily	0.93	0.86	0.81	0.78	0.79	0.79	0.76	0.86	0.91	0.80	0.80	0.79	0.82	0.77	0.74
Healthcare/Hospital	0.82	0.83	0.82	0.83	0.86	0.86	0.87	0.81	0.82	0.82	0.85	0.86	0.87	0.83	0.85
Hotel/Motel	0.80	0.85	0.88	0.92	0.95	0.98	1.01	0.83	0.87	0.91	0.95	0.97	0.91	0.93	1.03
Office	0.75	0.76	0.71	0.71	0.72	0.72	0.70	0.75	0.73	0.71	0.72	0.72	0.78	0.72	0.68
Restaurant	0.92	0.93	0.92	0.92	0.92	0.91	0.90	0.93	0.94	0.92	0.92	0.92	0.94	0.93	0.88
Retail	0.61	0.62	0.59	0.61	0.61	0.61	0.61	0.61	0.59	0.61	0.60	0.62	0.61	0.64	0.61
School	0.83	0.83	0.79	0.81	0.82	0.84	0.83	0.82	0.81	0.80	0.83	0.84	0.84	0.80	0.75
Semi-heated Warehouse	2.07	0.94	0.80	0.68	0.61	0.56	0.54	1.02	1.06	0.74	0.66	0.60	0.88	0.75	0.49
All Others	0.93	0.81	0.78	0.78	0.78	0.78	0.79	0.81	0.83	0.78	0.78	0.80	0.81	0.79	0.77

Public Review Draft

Proposed Addendum aw to Standard 189.1-2014

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

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Foreword

This proposal seeks to add new mandatory requirements to Section 8: Indoor Environmental Quality regarding occupant control of operable methods of glare control. To achieve and maintain high levels of indoor environmental quality, it is essential that buildings have methods and devices that reduce glare, and that building occupants have the capability to manipulate these methods and devices to achieve acceptable levels of performance and comfort.

The changes noted in this revised public review draft proposal reflect comments submitted during the first public review suggesting clarifications to exception b and addition of a table of the impacted space types to be consistent with a separate proposal to update the daylighting requirements in the standard.

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

Addendum aw to 189.1-2014

Revise section 8.3.8 as follows:

8.3.8 Glare Control. *View fenestration* for the following *spaces* listed in Table 8.4.1.2A shall comply with this section:

- ~~Classroom / Training Room~~
- ~~Conference / Meeting / Multipurpose Room except in convention centers~~
- ~~Lounge / Breakroom~~
- ~~Enclosed office and open plan office~~
- ~~Library reading area~~

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- ~~Patient rooms and physical therapy rooms within a healthcare facility~~ □

Table 8.4.1.2A Daylit Spaces

Classroom / Training Room
Conference / Meeting / Multipurpose Room except in convention centers
Lounge / Breakroom
Enclosed office and open plan office
Library reading area
Patient rooms and physical therapy rooms within a healthcare facility

View fenestration shall have an operable glare control device(s) capable of reducing the *specular visible transmittance* of the fenestration assembly to 3% or less. Such glare control devices shall allow an occupant or control system to change the device's position or light transmission level in order to address glare in the *space*. Operable glare control devices include movable interior window blinds, curtains, and shades; movable exterior louvers, screens, awnings, shades, and blinds; and dynamic glazing. Where fabric shades are used, the openness factor, also known as direct-direct transmittance, shall be tested according to standard EN14500.

Exceptions:

a. For buildings located greater than 20 degrees latitude north or south of the equator, *view fenestration* oriented within 10 degrees of true north in northern hemisphere locations or within 10 degrees of true south in southern hemisphere location.

b. Where permanent interior or exterior obstructions, such as buildings, structures, overhangs and fins, have a *specular visible transmittance* of not greater than 3% and ~~prevent~~ block ~~the *view fenestration* from admitting~~ a direct beam of sunlight from passing through the *view fenestration* at ~~into the space through~~ a point in the middle of the *view fenestration* both horizontally and vertically, ~~one third of the distance between top and bottom of the *view fenestration* above the bottom of the *view fenestration*~~, at the peak solar altitude and four hours before and after the peak solar altitude on the summer solstice and the spring equinox as determined by sun angle studies.

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c. *Spaces* that have an *annual sunlight exposure* of not more than 93 footcandles (1,000 lux) of direct sunlight illumination for more than 250 hours per year for less than 3% of the floor area.

Public Review Draft

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

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Foreword
This revision to ASHRAE 189.1 contains a number of updates that were missed as part of previously approved addendum and should be included in the 2017 version of the standard.

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 ch to 189.1-2014

Revise Section 5 as follows:

5.3.5.4 ***Solar Reflectance Index (SRI).***

…

b. For roofing products, the *SRI* values shall be based on a minimum three-year-aged solar reflectance and thermal emittance, as measured in accordance with ~~the~~ CRRC S100~~-1 standard~~, and shall be certified by the manufacturer.

Revise Section 11 as follows:

11. NORMATIVE REFERENCES

Reference	Title	Section

Air-Conditioning, Heating, and Refrigeration Institute (AHRI)
2111 Wilson Blvd, Suite 500
Arlington, VA 22201, United States
1-703-524-8800; www.ahrinet.org

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~~ANSI/AHRI 340/360-2007 (with Addenda 1 and 2)~~ AHRI 340/360-2015 (I-P) ~~and AHRI 341/361-2015 (SI)~~	Performance Rating of Commercial and Industrial Unitary Air-Conditioning and Heat Pump Equipment	Appendix ~~C~~B

ASHRAE
1791 Tulle Circle NE
Atlanta, GA 30320, United States
1-404-636-8400; www.ashrae.org

ANSI/ASHRAE Standard 52.2-2017	Method of Testing General Ventilation Air-Cleaning Devices for Removal Efficiency by Particle Size	8.3.1.3
ANSI/ASHRAE Standard 55-2013 ~~2010~~ (with addenda a, b, c, d, e, f and g)	Thermal Environmental ~~Comfort~~ Conditions for Human Occupancy	8.3.2, 10.3.1.2.1
ANSI/ASHRAE Standard 160-~~2009~~ 2016	Criteria for Moisture-Control Design Analysis in Buildings	8.3.6

ASTM International
100 Barr Harbor Dr.
West Conshohocken, PA 19428-2959, United States
1-610-832-9585; www.astm.org

ASTM C1371-04a	Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers	5.3.~~2~~5.4
ASTM C1549-09	Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer	5.3.~~2~~5.4
ASTM E408-71(2008)	Standard Test Methods for Total Normal Emittance of Surfaces Using Inspection-Meter Techniques	5.3.~~2~~5.4
ASTM E1918-06	Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field	5.3.~~2~~5.4

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ASTM E1980-11	Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces	5.3.~~2~~5.4
ASTM E2843-2017	Standard Specification for Demonstrating That a Building is in Walkable Proximity to Neighborhood Assets	5.3.1.1

Cooling Roof Rating Council (CRRC)
449 15th Street, Suite ~~200~~ 400
Oakland, CA 94612
United States
1-866-465-2523; www.coolroofs.org

ANSI/CRRC Standard ~~1-2012~~ S100-2016	~~ANSI/CRRC-1~~ Standard Test Methods for Determining Radiative Properties of Materials	5.3.~~2~~5.4

International Code Council
500 New Jersey Ave NW # 300
Washington, DC 20001, United States
1-800-786-4452; www.iccsafe.org

2015 IFC	International Fire Code	5.3.5.5

NSF International
789 Dixboro Road
Ann Arbor, MI 48105, United States
734-769-8010; www.nsf.org; info@nsf.org

NSF/ANSI 44-2016	Residential Cation Exchange Water Softeners	6.3.4
NSF/ANSI 58-2016	Reverse Osmosis Drinking Water Treatment Systems	6.3.5
NSF/ANSI 350-2017	On-site Residential and Commercial Water Reuse Systems	6.3.5

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United States Department of Energy (U.S. DOE)
Energy Information Administration
Washington, DC 20585, United States
1-202-586-5000; www.eia.doe.gov/emeu/cbecs/contents.html and http://tonto.eia.doe.go

~~Title 10 Energy Chapter II Department of Energy Part 430~~ 10 CFR Part 430, App N	~~Energy Conservation Program for Consumer Products~~ Uniform Test Method for Measuring the Energy Consumption of Furnaces	Appendix ~~C~~B
~~Title 10 Energy Chapter II Department of Energy~~ 42 USC 6831, et seq., Public Law 102-486	~~Energy Efficiency Program for Certain Commercial and~~ Energy Policy Act of 1992, EPACT 2005, and EISA 2007	~~Appendix C~~ Appendix B

United States Environmental Protection Agency (EPA)
Ariel Rios Building
1200 Pennsylvania Avenue, NW
Washington, DC 20460, United States
1-919-541-0800; www.epa.gov
ENERGY STAR ® 1-888-782-7937
WaterSense 1-866-987-7367 and 1-202-564-2660

EPA-420-F-07-063, November 2007	Green Vehicle Guide: Consider a SmartWay Vehicle Program Requirements for Certified Passenger Vehicles, ~~http://epa.gov/greenvehicles/Aboutratings.do#aboutsmartway~~	5.3.7

Public Review Draft

Proposed Addendum ck to Standard 189.1-2014

Standard for the Design of High-Performance Green Buildings

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FOREWORD

This addendum would add an additional modeling requirement to Normative Appendix C for use when one is complying with the energy efficiency requirements via the performance option. The proposal requires that the energy consumption of thermal and electric storage systems to charge, discharge, and store energy be modeled in the proposed building design.

Note: In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (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 ck to 189.1-2014

Modify Appendix C as follows:

C1.1.14 Energy Storage. Electric and thermal storage systems and ancillary energy consumption and charging, discharging, and standby losses associated with thermal and electric storage shall be modeled in the *proposed design*.

Public Review Draft

Proposed Addendum cl to Standard 189.1-2014

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Foreword
The purpose of this addendum is to update Table 7.5.2A to provide consistency with changes to Standard 90.1-2016, which is referenced by Standard 189.1 and to changes in the stringency of the prescriptive requirements in Section 7 (Energy) of Standard 189.1.

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 cl to 189.1-2014

Modify Table 7.5.2A as follows:

TABLE 7.5.2A Performance Option A: Energy Cost and CO_2e ~~Reductions~~ Building Performance Factors

Building Type	~~Percent Reduction~~ Building Performance Factor (BPF)
Multifamily	0.71
Healthcare/Hospital	0.56
Hotel/Motel	0.58
Office	0.54
Restaurant	0.59
Retail	0.50
School	0.37
Semi-heated Warehouse[a]	0.44
All Others	0.54
~~Apartments~~	~~10%~~

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~~Restaurants~~	~~5%~~
~~Lodging~~	~~12%~~
~~Semi-heated Warehouses[a]~~	~~45%~~
~~Other[b]~~	~~24%~~

a. Conditioned warehouses shall use the "Other" category.

~~b. When the modeled energy use that is not regulated energy use exceeds 35% of the total proposed building energy use, the reduction shall be calculated using the following equation: Percent reduction = 0.55 – 0.99 x Percent Non-Regulated Energy. The reduction shall be no lower than 5%.~~

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Background:

In the May 12, 2017 review of the comments issued during document D033A's ballot, six items were proposed and accepted by the assembled subcommittee. These items were considered substantive in nature, and thus, require formal approval.

This ballot contains the following items requiring approval.

Ballot Content:

To the approved content of Draft Document D033A, to be formally identified as BICSI 007-2017, do the following items:

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

Item 1)

Add the following as definitions to Section 4.1 Definitions

channel	The complete transmission path between two pieces of application-specific equipment.
permanent link	The permanently installed portion of horizontal cabling, excluding cords (e.g., test, equipment, patch).

Item 2)

Make the indicated change in Section 5.3.2.2

5 Communications Infrastructure
5.3 Spaces
5.3.2 Telecommunications Rooms and Telecommunications Enclosures
5.3.2.2 Requirements

Enclosures shall meet the requirements of Section 5.5.6. Enclosures installed outdoors shall be selected to meet or exceed the environmental conditions for the particular region. Enclosure design and selection shall accommodate the environmental ranges of the equipment to be installed.

Item 3)

Delete the indicated text in Section 5.4.2.2

Rationale: The indicated text refers to systems outside the scope of this document, with the proposed action increasing clarity of the remaining requirements and related standards.

5 Communications Infrastructure
5.4 Cabling
5.4.2 Horizontal Cabling
5.4.2.2 Requirements

~~Horizontal cabling for non-intelligent buildings systems shall follow applicable standards (e.g., ISO/IEC 11801-1, ANSI/TIA-568-D series, EN 50173-1).~~

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Item 4)

Add the indicated text as a new subsection of 6.7.3

6 Design Considerations for Building Systems
6.7 Network Convergence
6.7.3 Network Convergence Challenges
6.7.3.3 General Site Conditions

Care should be taken to insure proper conditions are available and maintained. A clean, dust-free, maintained environment is critical. Such conditions should be coordinated well in advance and included as a line item on the construction schedule.

Item 5)

Replace the existing text of Section 7.3.5 as indicated

7 Design Considerations for Building Systems
7.3 Designing and Planning Building Management Systems
7.3.5 Power

~~Some BAS controllers and power supplies are current limited (e.g., fused) at a current capacity larger than recommended for typical telecommunications cabling.~~
~~In this situation:~~

- ~~Replace fuses in the BAS controller with fuses sized for the cable type.~~
- ~~Use an HCP to incorporate positive temperature coefficient (PTC) resistor devices to limit input and output circuits.~~
- ~~Limit both conductors of each two-conductor circuit to limit the current, and protect against inadvertent conductor reversals.~~

~~NOTE: In general, a PTC resistor device with the hold current (e.g., the maximum current at which the device will not trip) of 1.0 A, typically used for 0.205 mm^2 (24 AWG) cable, will provide current limiting to 1.0 A. In addition to the current rating factors, response time and temperature rating also should be considered when selecting a PTC device. Larger diameter conductor cables, 0.326 mm^2 (22 AWG) to 1.31 mm^2 (16 AWG), may not require additional fusing since most BAS circuits are current limited to 2 A.~~

~~Typical BAS equipment cabling (e.g., powered sensors and current loops) also may be connected via the HCP. Depending on local codes and equipment location, this terminating hardware may have to be enclosed in a metallic housing or mounted within the same electrical panel as the controller. External fusing is not allowed in fire alarm systems and some manufacturers have different fusing arrangements available for use with telecommunications type cable.~~

Receive verification from a licensed electrical engineer that the system meets power, vendor, system, and life-safety requirements.

Some BAS controllers and power supplies are current limited (e.g., fused) at a current capacity that is larger than recommended limit of telecommunication or ICT cabling. As such, use of these controllers and power supplies should be avoided.

NOTE: Recommended and maximum current capacity is determined in part by the size of conductor. Connectors or other terminations may also affect the recommended and maximum current capacity of the cabling link.

When the use of alternative controllers or equipment is not possible:

- Verify that the intended implementation complies with codes (e.g., NFPA 70) and the AHJ
- Verify that the current to be supported does not exceed the maximum allowed for any element (e.g., cabling ,connector, port) used within the cabling channel
- Employ methods, if allowed, to limit the current on the communication cabling (e.g., use of a positive temperature coefficient (PTC) resistor).
- Use “keyed” or other connectors which minimize the risk of inadvertent conductor reversals.

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Item 6)
Within Section 10.2.1, make the following changes

10.2 Integrated Services, Design and Integration
10.2.1 Public Network Services
10.2.1.1 Introduction

Options for integrating with a public network services are typically defined by the service provider. Examples include:

- Public switched telephone network (PSTN) (e.g., lease line service, message telephone service (dial-up), ISDN, DSL)
- Ethernet network (e.g., LAN/WAN)
- Cellular wireless (e.g., TDMA, CDMA, GSM)
- Mesh and point-to-point (PTP) wireless (e.g., terrestrial microwave, satellite)

10.2.1.2 Requirements

~~The integrated systems shall utilize one or more of the following types of networks for their information transmission:~~

- ~~Public switched telephone network (PSTN)~~
- ~~Personal area network~~
- ~~LAN~~
- ~~WAN~~
- ~~Metropolitan area network~~
- ~~Cellular wireless (e.g., TDMA, CDMA, GSM)~~
- ~~Mesh wireless – licensed and unlicensed frequencies~~
- ~~Point-to-point (PTP) wireless – licensed and unlicensed frequencies~~

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

NSF/ANSI Standard
for Food Equipment –

Automatic ice making equipment

.
.
.

2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this NSF/ANSI Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. The most recent published edition of the document shall be used for undated references.

40 C.F.R. §152.500 *Requirements for devices* (*Pesticide Registration and Classification Procedures)*[1]

40 C.F.R. §§162-180 *Federal Insecticide, Fungicide, and Rodenticide Act*[1]

40 C.F.R. §180.940 *Tolerance exemptions for active and inert ingredients for use in antimicrobial formulations (Food-Contact Surface Sanitizing Solutions)* [1]

ANSI Z97.1 – 2009. Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test [2]

ANSI/ASSE 1001 – 2008. *Atmospheric Type Vacuum Breakers* [3]

ANSI/ASSE 1020 – 2004. *Pressure Vacuum Breaker Assembly* [3]

ANSI/ASSE 1022 – 2003. *Backflow Preventer for Beverage Dispensing Equipment* [3]

ANSI/ASSE 1024 –2004. *Dual Check Backflow Preventers* [3]

APHA *Standard Methods for the Examination of Water and Wastewater*, ~~21st~~ 22nd edition[4]

ASSE 1032 – 2004. *Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers – Post Mix Type* [3]

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[1] U. S. Government Printing Office, Washington, DC 20402 <www.gpo.gov>.

[2] American National Standards Institute, 25 West 43rd Street, New York, NY 10036 <www.ansi.org>.

[3] ASSE International Office, P. O. Box 40362, Bay Village, OH 44140 <www.asse.org>.

[4] American Public Health Association, 800 I St. NW, Washington, DC 20001 <www.apha.org>.

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IEEE/ASTM SI 10 – 2010. *American National Standard for Metric Practice* [5]

NSF/ANSI 51. *Food equipment materials*

NSF/ANSI 170. *Glossary of food equipment terminology*

UL 197 – 2010, *Standard for Commercial Electrical Cooking Appliances*[6]

Rationale: *Normative reference update.*

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5.22 Casters~~, rollers,~~ and gliders

If used, casters~~, rollers,~~ and gliders shall be easily cleanable and shall comply with NSF/ANSI 2.

Rationale: *Language updated to similarly match language in other NSF/ANSI Food Equipment Standards. The term "rollers" is no longer used in NSF/ANSI 2, and has been removed from the Food Equipment Glossary NSF/ANSI 170, as of the 2015 edition.*

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5.27 Backflow prevention

5.27.1 Units intended to be connected to a water supply system under pressure shall have one of the following:

– an air gap at least twice the diameter of the water supply inlet but not less than 1.0 in (25 mm); or

– a vacuum breaker that conforms to ANSI/ASSE 1001[3], *Atmospheric Type Vacuum Breakers* (for intermittent pressure conditions); or

– a vacuum breaker that conforms to ANSI/ASSE 1020[3], *Pressure Vacuum Breaker Assembly* (for continuous pressure conditions); or

– a backflow prevention device that conforms to ANSI/ASSE 1022[3], *Backflow Preventer for Beverage Dispensing Equipment*; or

– a backflow prevention device that conforms to ANSI/ASSE 1024[3], *Dual Check Backflow Preventers*; or

– a backflow prevention device that conforms to ASSE 1032[3], *Performance Requirements for Dual Check Valve Type Backflow Preventers for Carbonated Beverage Dispensers – Post Mix Type*; or

[5] Institute of Electrical and Electronics Engineers, Inc., 345 E. 47th Street, New York, NY 10017 <www.ieee.org>.

[6] Underwriters Laboratories, Inc., 33 Pfingsten Road, Northbrook, IL 60062 <www.ul.com>

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– a statement in the installation instruction and on a label permanently affixed to the equipment that clearly indicates that the equipment is to be installed with adequate backflow protection to comply with applicable federal, state, and local codes.

Rationale: *Language updated to match boilerplate language in NSF/ANSI 2 – 2015, section 5.56.4.1*

BSR/UL 2900-1, Standard for Software Cybersecurity for Network- Connectable Products, Part 1: General Requirements

1. Proposed First Edition of the Standard for Software Cybersecurity for Network- Connectable Products, Part 1: General Requirements, UL 2900-1

1.2 This standard describes:

a) Requirements regarding the software developer (vendor or other supply chain member) ~~vendor's~~ risk management process for their product.

b) Methods by which a product shall be evaluated and tested for the presence of vulnerabilities, software weaknesses and malware.

c) Requirements regarding the presence of security risk controls in the architecture and design of a product.

2.1 All references are for the latest published version of the document, unless stated otherwise.

[4] Cybersecurity information exchange - Vulnerability/state exchange - Common vulnerabilities and exposures (CVE); retrievable from https://cve.mitre.org/,
ITU-T X.1520

[5] Cybersecurity information exchange - Vulnerability/state exchange - Common vulnerability scoring system (CVSS); retrievable from https://www.first.org/cvss/specification-document,
ITU-T X.1521

[7] Cybersecurity information exchange - Vulnerability/state exchange - Common weakness scoring system (CWSS); retrievable from https://cwe.mitre.org/cwss,
ITU-T X.1525

[8] Cybersecurity information exchange - Event/incident/heuristics exchange - Common attack pattern enumeration and classification (CAPEC); retrievable from https://capec.mitre.org,
ITU-T X.1544

3.20 I2C BUS - An inter-integrated circuit chip bus.

3.27.A NETWORK CONNECTABLE - Any device, component, or software that can be connected via physical, wireless, cellular, and other non physical transmission means to another device, component or software or groups of devices, components or systems of software

3.29 PERSONALLY IDENTIFIABLE INFORMATION (PII)- Any information about an individual maintained by the product, including any information that can be used to distinguish or trace an individual's identity, such as name, social security number, date and place of birth, mother's maiden name, or biometric records; AND Any other information that is linked or linkable to an individual, such as medical, educational, financial, and employment information.

Note: This can be, but is not limited to an individual's location, health records and/or financial records that when used can determine the actual individual's identity.

3.44 SPI BUS - is a serial peripheral shared interface ~~bus~~.

4 DOCUMENTATION OF PRODUCT, PRODUCT DESIGN AND PRODUCT USE

4.1 Product Documentation

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4.1.1 The vendor shall provide the following for a product evaluation:

a) A description of all Design functions, Security functions, and management functions provided by the product, including any ~~m~~Management functions.

b) A list of all external interfaces or physical inputs or outputs of the product in its intended configuration, where applicable, including:

1) All remote interfaces;

2) All local interfaces - product local internal interfaces such as SPI, I2C, JTAG and serial ports ~~shall be included~~;

3) All wireless interfaces;

4) All file inputs;

5) All communication protocols supported on each of these interfaces.

c) A list of all executables and libraries in the product, including all third party and open source software. All executables and libraries shall be identified by both a software name and version number. Known operating system executables and libraries can be defined as the stated distribution of that operating system but any additional operating system libraries not defined in the known distribution shall be identified.

Note: An equivalent software bill of materials i.e a list of the contents of the software can be substituted.

d) ~~The source code of all software in the product, to the extent that source code is available to the vendor. This source code shall be the production code or fully representative of production (release) code. It shall include all scripts, libraries, makefiles, build configuration parameters and tool information. The source code provided shall be unobfuscated.~~ As part of the section Software Weakness, a code analysis will need to be performed. This involves using tools against the existing source code of all software in the product that is available. This includes scripts, libraries, make files, build configuration parameters.

e) The binary code and/or bytecode and associated identifiers of all software in the product, unless the vendor has no access or no rights to this binary or bytecode as in a third party library that is controlled. A risk management assessment of a controlled third party library that the vendor has no access or rights to shall be required. The binary code and/or bytecode provided shall be unobfuscated.

Note: An associated identifier ~~like~~ such as a hash or signature or SWID tags that can validate the contents and functionality of the binary and/or bytecode

f) ~~Information~~ Detailed instructions on the product software build and integration process.

6A Product use documentation supports the overall cyber security objectives through the product cycle life. Other organizations have written various good practices manuals. The National Standards Institute Cybersecurity Framework (NIST, 2014), and the SP 800 series are two examples.

6.1 The vendor shall provide documentation addressing security considerations on the intended use of the product and the configuration ~~and environment in which the product is intended to be used~~.

6.1A The vendor shall provide documentation addressing the environment in which the product is intended to be used.

6.3 The vendor shall document all external interfaces and all communication protocols used externally by the product, including which external interfaces support which protocols.

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6.4 The vendor shall ~~document~~ provide documentation of all version numbers of all software binaries, libraries and executables used in the product. Known operating system executables and libraries can be defined as the stated distribution of that operating system but any additional operating system libraries not defined in the known distribution shall be identified.

6.5 The vendor shall ~~document~~ provide documentation the list of security-related event descriptions, logged by the product according to 11.3.

6.6 The vendor shall ~~document~~ provide documentation any requirements and recommendations on the product's configuration and the environment in which the product is installed that are necessary to ensure the product's security.

Note: This should include requirements on network security, physical access control to the product, firewall ports and protocols, local interfaces' configuration options etc.

6.7 The vendor shall ~~document~~ provide documentation that the product's authentication and authorization method and subsequent authenticated and authorization communications cannot be bypassed using any procedure that uses less computation than exercising all elements of the set of values necessary for systematic deduction of the authentication's secret value(s).

6.8 Any overrides to 6.7 shall be evaluated and documented in the risk assessment with a rationale.

Note 1: For example, if a key is used for authentication, then it should require at least as many operations to circumvent the authentication means as it is to guessing the credential.

Note 2: This requirement is intended to define disclosure requirements stating the difficulty of bypassing, brute-forcing, or otherwise circumventing the authentication system of the product.

Note 3: If authenticated communication~~s~~ is not physically or cryptographically secure, then 6.7 cannot be met.

7 Risk Controls

7.1 The product (or the product's vendor, as applicable) shall comply with all of the security risk controls specified in Sections ~~7~~ 8 - 11, unless the risk assessment performed by the vendor according to Section 12, Vendor Product Risk Management Process, shows that the risks associated with not implementing a specific control are acceptable in product use.

8.1 Product operation or management functions which may affect or alter the security of the product as defined by the vendor documentation shall require authentication and authorization prior to access of the product.

8.3 If the product uses an authentication credential mechanism for authenticating users:

a) The product shall use a cryptographically secure mechanism complying with the requirements in Appendix B to store and transmit the credential.

b) Authentication error messages provided by the product shall not allow for enumerating valid credentials.

c) The product shall support the possibility to set requirements regarding the~~,~~ complexity, update frequency, strength or length for credentials.

i) If the credential is a password, its minimum length shall be 6 characters.

ii) For every 10 sequential unsuccessful authentication attempts of a user, operator or process within the product over a one hour period, the credential shall either be disabled or a timeout of a minimum of 30 minutes shall be applied before another authentication attempt is allowed.

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iii) If i) or ii) are not met, the required minimum length, frequency and strength of the credential shall be evaluated and documented in the risk assessment. Some alternatives that can be utilized are an increasing delay for each unsuccessful attempt and anti-robot protection such as captcha tests

Note: A complexity test can also be run. Complexity options can include special characters, minimum length, upper and lowercase and combinations of options and/or key sizes.

d) The product shall protect against brute force attacks.

Note: Examples of mechanisms to do so include key stretching; salts or preventing login attempts for the given credential after a specified number of failed attempts and/or dictionary attacks and/or rainbow table use.

e) The product shall have no default credential that cannot be modified or supplanted by an alternative (like a user defined credential that replaces a built in factory default). All default credentials should have a mechansim for change upon first use after installation with a user notification of Default Credentials in use if applicable.

f) The product shall have an option to limit the number of unsuccessful attempts.

8.5 The product shall support the possibility to manage the list of valid user accounts by adding, removing and/or suspending user accounts (i.e. “whitelisting” or potentially “blacklisting”) or by ~~addition, revocation~~ adding, revocating, or updating of authentication credentials.

10.1 The product shall ensure the confidentiality of all sensitive data and personally identifiable ~~data~~ information generated, stored, used or communicated by the product. The product shall use a secure mechanism complying with the requirements in Appendix B to store the sensitive data and personally identifiable ~~data~~ information.

11.1 The ~~produce~~ product shall be designed and implemented to allow for application of security updates to the product's software. This process will also ~~allow for revert to~~ support reverting to previously installed version is the update fails. The roll back would revert to the previously installed version.

11.5 Decommissioning of the product after its use shall allow the ability to completely erase all user defined:

a) Configuration data;

b) Sensitive data; and

c) Personally identifiable ~~data~~ information

Zeroization of this data is acceptable and can be performed as an operation or as a process procedure:

a) The operation or procedure shall destroy the configuration data, sensitive data or personally identifiable ~~data~~ information from all components of the product. This process should require significant effort using specialized tools and skill sets to recover the configuration data, sensitive data or personally identifiable ~~data~~ information.

11.6 The following are approved integrity mechanisms for software updates. Validating software updates OR software source using the following techniques:

a) A message authentication code generated on the software and firmware binaries, executables and libraries.

b) A digital signature applied to the software and firmware components.

c) A hash applied to the software and firmware binaries, executables, and libraries, where the hash is published in such a way that it is ~~difficult for an attacker to change~~ possible for the device to retrieve securely assure firmware source and contents.

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11.7 All integrity mechanisms defined in 11.~~7~~6shall comply with Appendix C.

11.8 ~~A summary shall be provided~~ Documentation shall exist describing the plan for providing validated software updates and patches as needed throughout the lifecycle of the product to continue to assure its continued security management

14.1 The binary code and bytecode in the product ~~shall contain no known malware~~ be scanned by at least one malware detection tool to identify if any known malware exists in the final deliverables of the product. The malware tools shall be applicable to the operating system that the software resides on.

15.1 The product shall continue to operate as intended when subject to invalid or unexpected inputs on its external interfaces and shall not display unexpected behavior, such as, but not limited to the following:

a) The product resets or reinitializes its configuration;

b) A process crash or assertion failure occurs without a recovery to its previous state after the test is completed in 2 minutes or less;

c) A process hangs;

d) The testing uses resources of the product and the product does not relinquish these resources after testing;

e) The product software throws an unhandled exception;

f) A storage data corruption occurs;

g) The product loses the connection to the malformed input testing tool;

h) The specified behavior of the product is interrupted and the product does not continue to operate as intended within a timeframe defined by the manufacturer;

i) The product shall not disclose any personally identifiable data or sensitive data over any interface enumerated in 4.1(b).

j) The product shall not become non-responsive on external interfaces other than the one under test by the input testing tool.

16.4 All risk assessment items scored in the risk assessment as not addressed shall be assessed with attempts to exploit to validate the risk assessment.

B1 Requirements for Secure Mechanisms for Storing Sensitive Data and Personally Identifiable ~~Data~~ Information

1.1-C1.3 ~~non Appendix C algorithm choices~~ Algorithms choices not covered in C1.1 are to be identified and validated in the Risk Assessment

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BSR/UL 1069, Standard for Safety for Hospital Signaling and Nurse Call Equipment

1. Proposal to include Real Time Location Sensing (RTLS) Integration requirements and test methods when RTLS is used to cancel calls

(NEW)

2.2.13 Calls initiated by fundamental NCS equipment may only be cancelled at the originating patient care area or room of origin. The following means of call cancelation shall be permitted:

a) When two or more stations are located in the same area and all are visible from any call location, the call event may be canceled at any station in the same area.

b) A routine call may be canceled remotely if two-way audio communication has been established, with the end-to-end connection verified prior to hang-up, between the calling patient care area or room of origin and the remote location.

c) A code call or an emergency call annunciated on a Portable Nurse Control Station must be canceled by an action separate and unique from terminating communication.

d) A routine call may be canceled remotely if RTLS Integration in accordance with 17.20 has been implemented.

3.78A REAL TIME LOCATION SERVICES (RTLS) - A supplemental system consisting of tags, sensors and wired or wireless hardware to monitor staff location.

17A Real Time Location Services

17A.1 A routine call can be canceled based on RTLS integration provided the following are verified by functional tests.

a) Routine calls placed when a nurse is already in the room shall not be automatically canceled.

b) Emergency or Code calls shall not be automatically canceled.

c) Provisions shall be provided and tested for multi-occupancy rooms, no inadvertent canceling of calls shall occur.

d) Routine calls placed shall not be inadvertently canceled by staff in hallways or other non-patient care areas near sensors.

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17A.2 Functional tests of clause 17A.1 shall be performed as follows:

a) According to the worst-case installation criteria specified in the instructions for use, giving consideration to cross-talk between sensors placed in adjacent rooms and adjacent floors.

b) Carried out under full scale physical simulations.

c) Under the above conditions, the RTLS should give accurate location information allowing for the proper cancelation of calls and relay of nurse or patient location.

d) Under no circumstance should a call be inadvertently canceled or a location be reported in an adjacent bed or room to the physical sensor location.

46.9 The following shall appear in the installation manuals covering systems that comply with the requirements in 17A:

a) The installation criteria for sensor and tag locations to meet the testing requirements in 17A.

b) The minimum times that staff may be in the vicinity of a patient when automatic cancelling of a routine call may occur.

c) The types of staff that may wear tags that can cancel calls.

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BSR/UL 1598C, Standard for Safety for Light-Emitting Diode (LED) Retrofit Luminaire Conversion Kits

1. Additional requirements to include LED stage and studio luminaire retrofit kits

1.6 This standard does not cover retrofit luminaire conversion kits for amateur movie lights; aquarium lights, cabinet lights, decorative lighting strings, combination fan/IR lamps used for heating, electric signs, exit signs, junction boxes for swimming pool fixtures, lamp adapters, low-level path marking and lighting systems, low-voltage landscape lighting, low voltage lighting fixtures for use in recreational vehicles, low voltage marine lighting, luminaires for hazardous locations, luminaires for recreational vehicles, marine navigational lights, portable electric displays, portable hand lamps, portable luminaires, portable sun/heat lamps, self-ballasted lamps and lamp adapters, ~~stage and studio luminaires,~~ submersible luminaires, swimming pool luminaires, temporary lighting strings, therapeutic lamps, track lighting systems, under-cabinet lights and cord-connected under-cabinet lights, and unit equipment for emergency lighting.

1.8 Additional requirements for LED retrofit luminaire conversion kits intended for stage and studio luminaires are in Supplement SB.

6.1 After installation of the retrofit kit, a luminaire shall comply with the requirements in Mechanical Construction, Section 5, of the Standard for Luminaires, UL 1598.

Exception: Retrofit kits for stage and studio luminaires shall comply with requirements in Supplement SB.

7.1 A polymeric material serving to complete the enclosure required in Enclosures, Section 5.3, of the Standard for Luminaires, UL 1598, or providing structural support for any electrical component or for any non-electrical component weighing more than 3 ounces (85 g) shall comply with the requirements in Polymeric Materials, Section 5.7, of UL 1598.

Exception: Retrofit kits for stage and studio luminaires shall comply with requirements in Supplement SB.

9.1 Metal parts of a retrofit kit and those portions of a luminaire affected by installation of the retrofit kit shall comply with the requirements in Metal Thickness for Enclosures, Section 5.5, of the Standard for Luminaires, UL 1598.

Exception: Retrofit kits for stage and studio luminaires shall comply with requirements in Supplement SB.

10.1 After installation of a retrofit kit, a luminaire shall comply with the requirements in Electrical Construction, Section 6, of the Standard for Luminaires, UL 1598.

Exception: Retrofit kits for stage and studio luminaires shall comply with requirements in Supplement SB.

12.2 The supplemental wiring provided with the retrofit kit shall comply with applicable requirements in Electrical Construction, Section 6, of the Standard for Luminaires, UL 1598. Wiring requirements do not apply to integral leads of luminaire components evaluated for use in the retrofit kit.

Exception: Retrofit kits for stage and studio luminaires shall comply with requirements in Supplement SB.

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SUPPLEMENT SB - ADDITIONAL REQUIREMENTS FOR LED RETROFIT CONVERSION KITS FOR STAGE AND STUDIO LUMINAIRES

SB1 Scope

SB1.1 These requirements apply to retrofit kits intended for specific models or model families of stage and studio luminaires covered by the scope of the Standard for Stage and Studio Luminaires and Connector Strips, UL 1573.

SB1.2 Applications excluded from the scope of the Standard for Stage and Studio Luminaires and Connector Strips, UL 1573, are also excluded from the scope of this supplement.

SB1.3 All requirements in the main body of this standard also apply to these retrofit kits unless specifically superseded by a requirement in this supplement.

SB2 Glossary

SB2.1 STAGE AND STUDIO LUMINAIRE - A luminaire rated 600 volts or less for use in theaters, studios, and similar locations in accordance with Articles 520 and 530 of the National Electrical Code, NFPA 70.

SB3 General Requirements

SB3.1 Retrofit kits shall be constructed such that, after their installation, converted stage and studio luminaires comply with all applicable construction and test requirements in the Standard for Stage and Studio Luminaires and Connector Strips, UL 1573.

SB3.2 If a retrofit kit requires modifying the luminaire in a way that could negatively affect its test performance (i.e.: adding openings, modifying gaskets, new or modified electrical components, etc.) then the appropriate tests from the Standard for Stage and Studio Luminaires and Connector Strips, UL 1573 shall be conducted on the converted luminaire.

SB3.3 A luminaire shall not be modified such that it draws more current or power than its original construction.

SB3.4 When applying Section 15:

a) Compliance shall be determined using the Standard for Stage and Studio Luminaires and Connector Strips, UL 1573; and

b) 15.3 does not apply since this supplement only addresses conversions of specific luminaire models or model families.

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SB4 Additional Markings and Instructions

SB4.1 Retrofit kits shall be provided with instructions identifying the manufacturer and model designation(s) of the stage and studio luminaires for which they are intended.

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BSR/UL 60079-26, Standard for Safety for Explosive Atmospheres – Part 26: Equipment with Equipment Protection Level (EPL) Ga

1. This proposal provides revisions to applicable NDs per the preparation of the US National Differences for IECEx.

PROPOSAL

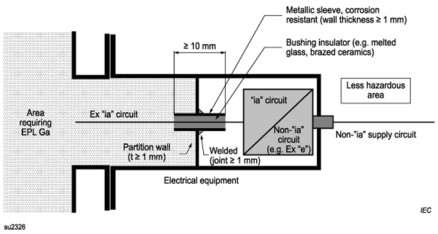

Figure 1 - Example of a partition wall with a conductor bushing considered as gas diffusion tight

Figure 1DV DR Modification for Figure 1 as follows:

Replace "Area requiring EPL Ga" with "Area Requiring ~~EPL Ga~~ Class I, Zone 0".

For ease of review, items a) and c) have been included with the correction noted for item b).

Table 1 - Separation elements

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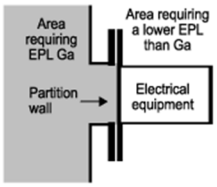
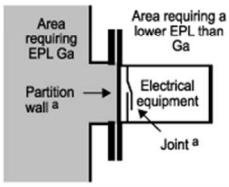
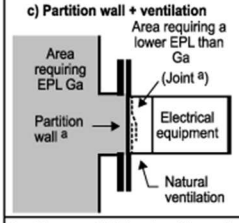
Type of construction	Requirements depending on the thickness, t, of the partition wall i) $t \geq 3$ mm: no additional requirements		
	ii) 3 mm > $t \geq$ 1 mm	iii) 1 mm > $t \geq$ 0.2 mm ("X" marking required)	iv) $t <$ 0.2 mm ("X" marking required)
a) Partition wall 	EPL Gb Type of Protection and no ignition source under normal operation (for example no exposed contacts)	Type of Protection intrinsic safety' "ib"	Not permissible
b) Partition wall + joint 	EPL Gb Type of Protection		EPL Gb Type of Protection and no ignition source under normal operation (for example no exposed contacts)
c) Partition wall + ventilation 	EPL Gb Type of Protection	EPL Gb Type of Protection and flameproof joint (dashed)	
[a] Flameproof joint and partition wall are exchangeable in sequence of order.			

su2328

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Table 1DV DR Modification for Table 1 as follows:

Delete "("X" marking required) from iii) and iv) heading.

For item a), replace "Area requiring EPL Ga" with "Class I, Zone 0", and "Area requiring a lower EPL than Ga" with "Less hazardous area".

For item b), replace "Area requiring EPL Ga" with "Class I, Zone 0", and "Area requiring a lower EPL than Ga" with "Less hazardous area".

For item c), replace "Area requiring EPL Ga" with "Class I, Zone 0", and "Area requiring a lower EPL than Ga" with "Less hazardous area".

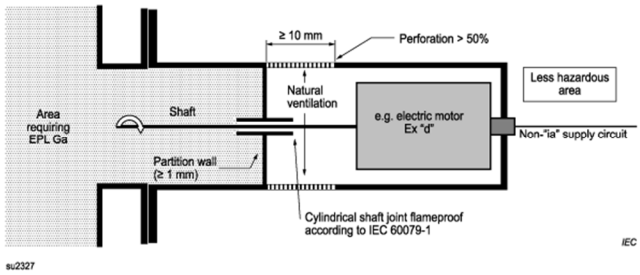

Figure 2 - Example of a separation element with a cylindrical shaft joint and natural ventilation

Figure 2DV DR Modification of Figure 2 as follows:

Replace "Area requiring EPL Ga" with "Area requiring Class I, Zone 0", "Ex "d"" with "Ex "db"", and "IEC 60079-1" with "UL 60079-1".

6.2DV DR Modification of Clause 6.2 to replace with the following:

For ease of review, 6.2 has been provided in its entirety.

~~**a) Equipment protected by two Types of Protection which is intended to be completely installed inside the area requiring EPL Ga for example:**~~

~~**Ex d+e IIB T4 Ga**~~

b) Equipment which is installed in the boundary wall between an area requiring EPL Ga and the less hazardous area, both EPLs are marked on the label separated by a slash "/", for example:

~~**Ex d IIC T6 Ga/Gb**~~ **Class I, Zone 0/1 AEx db IIC T6 Ga/Gb**

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or

~~**Ex ia/d IIC T6 Ga/Gb**~~ **Class I, Zone 0/1 AEx ia/db IIC T6 Ga/Gb**

NOTE 1 Intrinsic safety "ia" equipment providing EPL Ga with a flameproof "db" compartment providing EPL Gb.

~~**or**~~

~~**Ex d+e / d IIB T4 Ga/Gb**~~

~~**NOTE 2 Two independent Types of Protection flameproof "d" and increased safety "e" providing EPL Ga with a flameproof "d" compartment providing EPL Gb.**~~

or

~~**Ex ia IIC T4 / Ex d IIB T6 Ga/Gb**~~ **Class I, Zone 0 AEx ia IIC T4 Ga/ Class I, Zone 0/1 AEx db IIC T6 Ga/Gb**

NOTE 3 An intrinsically safe sensor providing EPL Ga suitable for Group IIC and having a temperature class T4 and a flameproof compartment providing EPL Gb suitable for Group IIB, having a temperature class T6.

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