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
Standards Action - February 26, 2016 - Page 2 of 63 Pages

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

Addenda

BSR/ASHRAE Addendum aa to ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2013)

This addendum adds the zeotropic refrigerant blend R-449C in Table 4-2 and Table D-2.

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

Addenda


From time to time, the various references that are used by this standard are updated. This addendum gives the dates of the current versions for the references given in Appendix B (Normative References) and Appendix A (Informative References).

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

Addenda


This addendum makes a change to the requirements for the pressure relief of heat exchanger coils that are capable of being isolated by valves and exposed to a heating source.

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

Addenda

BSR/ASHRAE Addendum y to ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants (addenda to ANSI/ASHRAE Standard 34-2013)

This addendum adds the zeotropic refrigerant blend R-513B in Table 4-2 and Table D-2.

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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EOS/ESD (ESD Association, Inc.)

Revision

BSR/ESD SP10.1-201x, ESD Association Standard Practice for the Protection of Electrostatic Discharge Susceptible Items - Automated Handling Equipment (AHE) (revision of ANSI/ESD SP10.1-2007)

This standard practice covers resistance-to-ground measurements of machine components and sources of charge in AHE. Two methods are described to measure sources of charge. One method measures charge indirectly by measuring the voltage or field associated with the charge. The second method directly measures the voltage induced on ESDS items.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Christina Earl, (315) 339-6937, earl@esda.org
NSF (NSF International)

Revision

BSR/NSF 372-201x (i4r1), Drinking Water System Components - Lead Content (revision of ANSI/NSF 372-2011)

This standard establishes procedures for the determination of lead content based on the wetted surface areas of products.

Send comments (with copy to psa@ansi.org) to: Monica Leslie, (734) 827-5643, mleslie@nsf.org

NSF (NSF International)

Revision

BSR/WSC PST 2000-201x (i4r2), WSC Standard for Pressurized Water Storage Tank (revision of ANSI/NSF WSC PST 2000-2014)

This standard prescribes minimum performance and construction requirements for pressurized storage tanks for service in water well systems with a maximum factory pre-charge pressure of 40 psig (280 kPa), to be operated in ambient air temperatures up to 120°F (49°C), with maximum working pressures not less than 75 psig (520 kPa) and not greater than 150 psig (1000 kPa) and tank volumes not exceeding 120 gallons (450 L).

Send comments (with copy to psa@ansi.org) to: Jessica Evans, (734) 913-5774, jevans@nsf.org

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 568-C.2-1-201x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100 Next Generation Cabling. (addenda to ANSI/TIA 568-C.2-2009)

Develop a new category of cabling to support future applications beyond 10GBASE-T. A new category of cabling to support increased capacity for future applications.

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 5C-201X, Standard for Safety for Surface Metal Raceways and Fittings for Use with Data, Signal, and Control Circuits (Proposal dated 02-26-16) (revision of ANSI/UL 5C-2010 (R2015))

Proposes revisions to installation instructions and external standards references.

Send comments (with copy to psa@ansi.org) to: Paul Lloret, (408) 754-6618, Paul.E.Lloret@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 96-201X, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2010)

This standard establishes procedures for the determination of lead content based on the wetted surface areas of products.

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1310-201X, Standard for Safety for Class 2 Power Units (Proposal dated 2-26-16) (revision of ANSI/UL 1310-2014a)

The following change is proposed: Addition of requirements for a flush device cover plate with integral power supply employing spring contact terminals.

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1773-201X, Standard for Safety for Termination Boxes (Proposal dated 02-26-16) (revision of ANSI/UL 1773-2011)

Revisions to introduce requirements for self-illuminated mounting posts and pedestals and to incorporate a reference to the Rain and Splash Test detailed in the Standard for Power Outlets, UL 231.

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

Comment Deadline: April 11, 2016

ABMA (ASC B3) (American Bearing Manufacturers Association)

New National Adoption


This part of ISO 15242 specifies measuring methods for vibration of rotating rolling bearings under established measuring conditions, together with calibration of the related measuring systems.

Single copy price: $60.00

Order from: info@americanbearings.org

Obtain an electronic copy from: info@americanbearings.org

Send comments (with copy to psa@ansi.org) to: jconverse@americanbearings.org
ABMA (ASC B3) (American Bearing Manufacturers Association)

New National Adoption

Specifies vibration measuring methods for single-row and double-row radial ball bearings, with a contact angle up to and including 45°. It covers radial ball bearings with cylindrical bore and outside surface, except bearings with filling slots and three- and four-point-contact ball bearings.

Single copy price: $60.00
Obtain an electronic copy from: info@americanbearings.org
Order from: info@americanbearings.org
Send comments (with copy to psa@ansi.org) to: jconverse@americanbearings.org

ABYC (American Boat and Yacht Council)

New Standard
BSR/ABYC A-27-201x, Alternating Current (AC) Generator Sets (new standard)

This standard is a guide for the design, construction, and installation of alternating current (AC) generator sets on boats.

Single copy price: $50.00
Obtain an electronic copy from: www.abycinc.org
Order from: www.abycinc.org
Send comments (with copy to psa@ansi.org) to: comments@abycinc.org

ABYC (American Boat and Yacht Council)

Revision
BSR/ABYC H-26-201x, Powering of Boats (revision of ANSI/ABYC H-26-2011)

This standard is a guide for determining the maximum power for propulsion of outboard boats; evaluating the suitability of power installed in inboard boats; and determining maneuvering speed.

Single copy price: $50.00
Obtain an electronic copy from: www.abycinc.org
Order from: www.abycinc.org
Send comments (with copy to psa@ansi.org) to: comments@abycinc.org

ABYC (American Boat and Yacht Council)

Revision
BSR/ABYC P-6-201x, Propeller Shafting Systems (revision of ANSI/ABYC P-6-2010)

This standard is a guide for the design, construction and materials for propeller shafts and struts, and the installation of shaft bearings, stern bearings, struts, shaft seals, shaft logs, shaft couplings, and propellers.

Single copy price: $50.00
Obtain an electronic copy from: www.abycinc.org
Order from: www.abycinc.org
Send comments (with copy to psa@ansi.org) to: comments@abycinc.org

ABYC (American Boat and Yacht Council)

Revision
BSR/ABYC S-8-201x, Boat Measurement and Weight (revision of ANSI/ABYC S-8-2010)

This standard is intended as a guide to establish uniformity in describing boat dimensions and weight specifications.

Single copy price: $50.00
Obtain an electronic copy from: www.abycinc.org
Order from: www.abycinc.org
Send comments (with copy to psa@ansi.org) to: comments@abycinc.org

ANS (American Nuclear Society)

Reaffirmation

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

Single copy price: $95.00
Obtain an electronic copy from: scook@ans.org
Order from: scook@ans.org
Send comments (with copy to psa@ansi.org) to: pschroeder@ans.org

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

Reaffirmation

This standard prescribes methods of laboratory testing to measure the heat rejection capabilities of remote mechanical-draft, air-cooled refrigerant condensers for refrigerating and air conditioning. The objective is to ensure uniform performance information for establishing ratings.

Single copy price: $35.00
Obtain an electronic copy from: Free download at http://www.ashrae.org/standards-research--technology/public-review-drafts
Order from: standards.section@ashrae.org
Send comments (with copy to psa@ansi.org) to: Online Comment Database at http://www.ashrae.org/standards-research--technology/public-review-drafts
ASSE (ASC Z359) (American Society of Safety Engineers)

Revision

BSR ASSE Z359.12-201X, Connecting Components for Personal Fall Arrest Systems (revision of ANSI ASSE Z359.12-2009)

This standard establishes requirements for the performance, design, marking, qualification, test methods, and removal from service of connectors.

Single copy price: $80.00

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

Send comments (with copy to psa@ansi.org) to: Allyson Byk, (212) 591-8521, byka@asme.org

AWWA (American Water Works Association)

Revision

BSR/AWWA B451-201x, Poly(Diallyldimethylammonium Chloride) (revision of ANSI/AWWA B451-2010)

This standard describes poly(diallyldimethylammonium chloride) for use in the treatment of potable water, wastewater, and reused or reclaimed water.

Single copy price: $20.00

Order from: Paul Olson, (303) 347-6178, polson@awwa.org; vDavid@awwa.org

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

CSA (CSA Group)

Reaffirmation

BSR Z21.80-2002 (R201x), Line Pressure Regulators (same as CSA 6.22) (reaffirmation of ANSI Z21.80-2002 (R2008))

Details test and examination criteria for line pressure regulators, either individual or in combination with over-pressure protection devices intended for application in natural gas piping systems between the service regulator and the gas appliance(s). This standard applies to regulators rated at 2, 5, or 10 psi (13.8, 34.5, or 68.9 kPa) with maximum outlet pressure of 1/2 or 2 psi (3.5 or 13.8 kPa), depending on the intended application.

Single copy price: Free

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

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

CSA (CSA Group)

Reaffirmation


Details test and examination criteria for flammable vapor sensor systems and components for use in gas-burning appliances. This standard applies to a flammable vapor sensor or system capable of operating throughout a temperature range of 32°F (0°C) to 125°F (51.5°C).

Single copy price: Free

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

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

DMSC, Inc. (Dimensional Metrology Standards Consortium, Inc.)

Revision

BSR/DIMIS 105.3-2015 Part 1, Dimensional Measuring Interface Standard (DIMIS Rev. 5.3) (revision and reaffirmation of ANSI/DIMIS 105.2-2009, Part 1)

The DMIS standard provides for the bi-directional communication of inspection data between computer systems and inspection equipment and can form a basis for a common inspection system native programming language. DMIS provides the vocabulary to pass inspection programs to measuring equipment and to pass measurement and process data back to an analysis, collection, or archiving system. DMIS defines a neutral format for data exchange and is designed to be man-readable and man-writable.

Single copy price: Free

Order from: http://qifstandards.org/download/

Send comments (with copy to psa@ansi.org) to: bsquier@dimis.org
ESTA (Entertainment Services and Technology Association)

**New Standard**

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

This standard describes a method of implementing ANSI E1.20 Remote Device Management messaging over an IPv4 network. The primary anticipated use of the standard would be to complement ANSI E1.31 on an IPv4 entertainment lighting control network. This project was originally described as offering extensions to E1.31, but in fact the messages work alongside E1.31 in the same network environment.

Single copy price: Free

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

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

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

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ESTA (Entertainment Services and Technology Association)

**Revision**

BSR E1.31-201x, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN (revision of ANSI E1.31-2009)

This standard describes a mechanism to transfer DMX512-A packets over a TCP/IP network using a subset of the ACN protocol suite. It covers data format, data protocol, data addressing, and network management. It also outlines a synchronization method to help ensure that multiple sinks can process this data concurrently when supervised by the same controller. This revision includes the addition of DMX universe synchronization.

Single copy price: Free

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

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

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

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FCI (Fluid Controls Institute)

**New Standard**

BSR/FCI 13-1-201x, Determining Condensate Loads to Size Steam Traps (new standard)

The standard is intended to assist users in estimating condensate loads using generally accepted formulas. The result is then used to size a steam trap with sufficient safety factor to cover the flow throughout the range without being grossly oversized.

Single copy price: Free

Obtain an electronic copy from: fci@fluidcontrolsinstitute.org

Order from: FCI, fci@fluidcontrolsinstitute.org

Send comments (with copy to psa@ansi.org) to: Leslie Schraff, (216) 241-7333, fci@fluidcontrolsinstitute.org

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NEMA (ASC C78) (National Electrical Manufacturers Association)

**Revision**

BSR C78.45-201x, Self-ballasted Mercury Lamps (revision and redesignation of ANSI ANSLG C78.45-2007 (R2010))

This standard sets forth the physical and electrical requirements for self-ballasted mercury lamps operated on 60-Hz supply lines to ensure interchangeability and safety. The data given also provides the lamp-related requirements for luminaires. Luminous flux and lamp color are not part of this standard.

Single copy price: $130.00

Order from: michael.erbesfeld@nema.org

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

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NEMA (ASC C81) (National Electrical Manufacturers Association)

**Revision**

BSR C81.61-201X, Standard for Electrical Lamp Bases - Specifications for Bases (Caps) for Electric Lamps (revision of ANSI C81.61-2009 (R2014))

This standard sets forth the specifications for bases (caps) used on electric lamps.

Single copy price: $500.00

Order from: michael.erbesfeld@nema.org

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

**New Standard**

BSR/NSF 358-3-201x (i1r2), Cross-linked Polyethylene (PEX) Pipe and Fittings for Water-Based Ground-source (Geothermal) Heat Pump Systems

The physical and performance requirements in this Standard apply to plastic piping system components as well as non-plastic components of the ground loop heat exchanger including but not limited to cross-linked polyethylene (PEX) pipes and fittings used in water-based ground-source heat pump systems. This standard does not cover refrigerant-based ground loop heat exchangers such as direct expansion (DX) systems. This Standard does not cover hydronic heating or cooling systems within buildings.

Single copy price: Free


Order from: Lauren Panoff, (734) 769-5197, lpanoff@nsf.org

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

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**TCNA (ASC A108) (Tile Council of North America)**

**Revision**

BSR A118.1-201x, Specifications for Dry-Set Cement Mortar (revision of ANSI A118.1-2012)

This specification describes the test methods and the minimum requirements for standard dry-set cement mortar.

Single copy price: $15.00

Obtain an electronic copy from: Tile Council of North America

Order from: Tile Council of North America

Send comments (with copy to psa@ansi.org) to: Katelyn Simpson, (864) 646-8453, KSimpson@tileusa.com

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**TCNA (ASC A108) (Tile Council of North America)**

**Revision**

BSR A118.4-201x, Specifications for Modified Dry-Set Cement Mortar (revision of ANSI A118.4-2012)

This specification describes the test methods and the minimum requirements for modified dry-set cement mortar.

Single copy price: $15.00

Obtain an electronic copy from: Tile Council of North America

Order from: Tile Council of North America

Send comments (with copy to psa@ansi.org) to: Katelyn Simpson, (864) 646-8453, KSimpson@tileusa.com

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**TCNA (ASC A108) (Tile Council of North America)**

**Revision**

BSR A118.15-201x, Specifications for Improved Modified Dry-Set Cement Mortar (revision of ANSI A118.15-2012)

This specification describes the test methods and the minimum requirements for improved modified dry-set cement mortar.

Single copy price: $15.00

Obtain an electronic copy from: Tile Council of North America

Order from: Tile Council of North America

Send comments (with copy to psa@ansi.org) to: Katelyn Simpson, (864) 646-8453, KSimpson@tileusa.com

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

**Reaffirmation**

BSR/UL 66-2011 (R201x), Standard for Safety for Fixture Wire (reaffirmation of ANSI/UL 66-2011)


Single copy price: Contact comm2000 for pricing and delivery options


Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

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

**Reaffirmation**

BSR/UL 823-2012 (R201x), Standard for Safety for Electric Heaters for Use in Hazardous (Classified) Locations (Proposal dated 02-26-16) (reaffirmation of ANSI/UL 823-2007 (R2012))


Single copy price: Contact comm2000 for pricing and delivery options


Order from: comm2000

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

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**Comment Deadline: April 26, 2016**

**ANS (American Nuclear Society)**

**New Standard**

BSR/ANS 18.1-201x, Radioactive Source Term for Normal Operation of Light Water Reactors (new standard)

This standard establishes typical long-term concentrations of principal radionuclides in fluid streams of light-water-cooled nuclear power plants for use in estimating the expected release of radioactivity from various effluent streams. These fluid streams are the coolant of a boiling water reactor (BWR), the coolant of a pressurized water reactor (PWR), and PWR steam generator fluids. The concentrations in fluid streams of BWRs and PWRs are treated in a similar manner, but have different numerical values because of the differences in design.

Single copy price: $20.00

Obtain an electronic copy from: scook@ans.org

Order from: scook@ans.org

Send comments (with copy to psa@ansi.org) to: pschroeder@ans.org
Technical Reports Registered with ANSI

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

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

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

ISO/IEC TR 10091:1995, Information technology - Technical aspects of 130 mm optical disk cartridge write-once recording format (technical report)

Is a complement to ISO/IEC 9171-2 for the type A and B formats. Covers the figures that characterize each format, the relationship between these figures, and the technological background used to reach decisions concerning the formats; in addition, gives some examples of implementation.

Single copy price: $60.00
Order from: ANSI, http://webstore.ansi.org
Send comments (with copy to psa@ansi.org) to: comments@itic.org

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


Provides guidelines for the control scenario including formatting, defect management, the usage of control zone data, etc. of drives that claim conformance to ISO/IEC 10090, in order to achieve better usability of the 90-mm optical disk cartridges conforming to ISO/IEC 10090.

Single copy price: $60.00
Order from: ANSI, http://webstore.ansi.org
Send comments (with copy to psa@ansi.org) to: comments@itic.org

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

ISO/IEC TR 13841:1995, Information technology - Guidance on measurement techniques for 90 mm optical disk cartridges (technical report)

Provides guidance on measurement techniques for 90-mm rewritable/read-only optical disk cartridges. This technical report is to aid the understanding of interchangeability between disks and drives.

Single copy price: $60.00
Order from: ANSI, http://webstore.ansi.org
Send comments (with copy to psa@ansi.org) to: comments@itic.org
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.

ABYC (American Boat and Yacht Council)
Office: 613 Third Street, Suite 10
Annapolis, MD 21403
Contact: Lynn Lipsey
Phone: (410) 990-4460
E-mail: llipsey@abycinc.org

BSR/ABYC A-27-201x, Alternating Current (AC) Generator Sets (new standard)
Obtain an electronic copy from: www.abycinc.org

BSR/ABYC P-6-201x, Propeller Shafting Systems (revision of ANSI/ABYC P-6-2010)
Obtain an electronic copy from: www.abycinc.org

ASA (ASC S3) (Acoustical Society of America)
Office: 1305 Walt Whitman Rd
Suite 300
Melville, NY 11747
Contact: Susan Blaeser
Phone: (631) 390-0215
Fax: (631) 923-2875
E-mail: asastds@acousticalsociety.org

BSR ASA S3.41-201x, Audible Emergency Evacuation (E2), Evacuation Signals with Relocation Instructions (ESRI), and Carbon Monoxide Notification Signals (T4) (revision of ANSI ASA S3.41-2015)
Obtain an electronic copy from: www.abycinc.org

ASSE (ASC Z359) (American Society of Safety Engineers)
Office: 520 N. Northwest Highway
Park Ridge, IL 60068
Contact: Tim Fisher
Phone: (847) 768-3411
Fax: (847) 296-9221
E-mail: TFisher@ASSE.org

BSR ASSE Z359.12-2010X, Connecting Components for Personal Fall Arrest Systems (revision of ANSI ASSE Z359.12-2009)
Obtain an electronic copy from: Tim Fisher

BSR ASSE Z359.6-201X, Specifications and Design Requirements for Active Fall Protection Systems (revision of ANSI ASSE Z359.6-2009)
Obtain an electronic copy from: Tim Fisher

NEMA (ASC C78) (National Electrical Manufacturers Association)
Office: 1300 N 17th St
Rosslyn, VA 22209
Contact: Michael Erbesfeld
Phone: 703-841-3262
E-mail: Michael.Erbesfeld@nema.org

BSR C78.45-201X, Self-ballasted Mercury Lamps (revision and redesignation of ANSI ANSLG C78.45-2007 (R2010))
NEMA (ASC C81) (National Electrical Manufacturers Association)
Office: 1300 N 17th St
Rosslyn, VA 22209
Contact: Michael Erbesfeld
Phone: 703-841-3262
Fax: 703-841-3362
E-mail: Michael.Erbesfeld@nema.org

BSR C81.61-201X, Standard for Electrical Lamp Bases - Specifications for Bases (Caps) for Electric Lamps (revision of ANSI C81.61-2009 (R2014))

TIA (Telecommunications Industry Association)
Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Contact: Teesha Jenkins
Phone: (703) 907-7706
Fax: (703) 907-7727
E-mail: standards@tiaonline.org

BSR/TIA 102.BAAC-D-201X, Common Air Interface Reserved Values (revision and redesignation of ANSI/TIA 102.BAAC-C-2011)

UL (Underwriters Laboratories, Inc.)
Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995
Contact: Ross Wilson
Phone: (919) 549-1511
Fax: (631) 271-6200
E-mail: Ross.Wilson@ul.com

BSR/UL 66-2011 (R201x), Standard for Safety for Fixture Wire (reaffirmation of ANSI/UL 66-2011)
Call for Members (ANS Consensus Bodies)

Formation of 8 New Consensus Bodies

Academy Standards Board (ASB) of the American Academy of Forensic Sciences (AAFS)

Application Deadline: April 12, 2016

The Academy Standards Board (ASB) of the American Academy of Forensic Sciences (AAFS) is an ANSI-accredited Standards Development Organization. It is announcing the formation of eight new Consensus Bodies: Bloodstain Pattern Analysis, Firearms and Toolmarks, Footwear and Tire, Forensic Document Examination, Medicological Death Investigation, Odontology, Patterned Injury, and Speaker Recognition. Each will have 7 to 25 members based on applications received, members will be selected by the Board of Directors of the ASB. The ASB has eight interest categories, applicants are encouraged to apply in their self-selected interest category. A person may apply to one or more Consensus Bodies, and need not indicate the same interest category for each Consensus Body application. An on-line application form is available at http://asb.aafs.org/documents-forms/, the website also contains links to several relevant documents describing the ASB. Applicants are requested to submit forms to be considered for serving on any of the Forensics Consensus Bodies by April 12. Questions: Teresa Ambrosius, TAmbrosius@aafs.org, 703-980-2555.
Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1

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.

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

*Revision*


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

*Revision*

ANSI/ASME B31.4-2016, Pipeline Transportation Systems for Liquids and Slurries (revision of ANSI/ASME B31.4-2012): 2/22/2016

**DMSC, Inc. (Dimensional Metrology Standards Consortium, Inc.)**

*Revision*


**IEEE (Institute of Electrical and Electronics Engineers)**

*New Standard*


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

*New Standard*


NEMA (National Electrical Manufacturers Association)

*New Standard*


**TIA (Telecommunications Industry Association)**

*New Standard*


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

*New Standard*


*Revision*


Final Actions

Withdrawal by Accredited Standards Developer

ABMA - American Bearing Manufacturers Association

In accordance with ANSI Essential Requirements section 4.2.1.3.2, Withdrawal by an Accredited Standards Developer, of the ANSI Essential Requirements, the following American National Standards are hereby withdrawn, effective February 15, 2016. Please direct inquiries to: Jim Converse, jconverse@americanbearings.org.

ANSI/ABMA/ISO 13411:1997 (S2010), Aerospace – Airframe needle roller, needle track roller and cylindrical roller bearings – Technical specification

ANSI/ABMA/ISO 13412:1997 (S2010), Aerospace – Airframe track roller, yoke type, single row, sealed – Inch series

ANSI/ABMA/ISO 13413:1997 (S2010), Aerospace – Airframe track roller, yoke type, double row, sealed – Inch series

ANSI/ABMA/ISO 13414:1997 (S2010), Aerospace – Airframe needle roller, single row, shielded – Inch series

ANSI/ABMA/ISO 13415:1997 (S2010), Aerospace – Airframe track roller, stud type, single row, sealed – Inch series

ANSI/ABMA/ISO 13416:1997 (S2010), Aerospace – Airframe track roller, yoke type, single row, sealed – Metric series

ANSI/ABMA/ISO 13417:1997 (S2010), Aerospace – Airframe track roller, stud type, single row, sealed – Metric series


ANSI/ABMA/ISO 14195:1998 (S2010), Aerospace – Airframe spherical roller bearings, double row, self-aligning, sealed, inner ring, light duty – Inch series

ANSI/ABMA/ISO 14196:1998 (S2010), Aerospace – Airframe spherical roller bearings, double row, self-aligning, sealed, plain inner ring, heavy duty – Inch series


ANSI/ABMA/ISO 14201:1998 (S2010), Aerospace – Airframe ball bearings, double row, self-aligning, diameter series 2 – Metric series

ANSI/ABMA/ISO 14202:1998 (S2010), Aerospace – Airframe ball bearings, single row, rigid, diameter series 0 and 2 – Metric series

ANSI/ABMA/ISO 14203:1998 (S2010), Aerospace – Airframe ball bearings, single row, rigid, diameter series 8 and 9 – Metric series
ANSI/ABMA/ISO 14204:1998 (S2010), Aerospace – Airframe ball bearings, double row, rigid, diameter series 0 – Metric series
ANSI/ABMA/ISO 14207:1998 (S2010), Aerospace – Airframe ball bearings, single row, rigid, precision, sealed, light duty – Inch series
ANSI/ABMA/ISO 14208:1998 (S2010), Aerospace – Airframe ball bearings, single row, rigid, sealed, intermediate duty – Inch series
ANSI/ABMA/ISO 14210:1998 (S2010), Aerospace – Airframe ball bearings, single row, rigid, sealed, torque tube design, light duty – Inch series
ANSI/ABMA/ISO 14215:1998 (S2010), Aerospace – Airframe Ball Bearings, Double Row, Rigid, Precision, Sealed, Heavy Duty – Inch Series
ANSI/ABMA/ISO 14220:1998 (S2010), Aerospace – Airframe ball bearings, single row, self-aligning, sealed, light duty – Inch series
Final Actions

Withdrawal by Accredited Standards Developer

ANSI D20-2009, Data Element Dictionary for Traffic Records Systems

In accordance with ANSI Essential Requirements section 4.2.1.3.2, Withdrawal by an Accredited Standards Developer, of the ANSI Essential Requirements, this American National Standard is hereby withdrawn, effective February 5, 2016. Please direct inquiries to: Mark Pritchard, mpritchard@aamva.org.
**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.

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

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

**Contact:** Amanda Benedict  
**Fax:** (703) 276-0793  
**E-mail:** abenedict@aami.org

BSR/AAMI/ISO 10993-16-201x, Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables (identical national adoption of ISO 10993-16 (current version) and revision of ANSI/AAMI/ISO 10993-16-2010 (R2014))

**Stakeholders:** Industry, practitioners, and regulators involved in the biological and clinical evaluation of medical devices.

**Project Need:** A revision was initiated for ISO standard, which affects the national adoption.

This part of ISO 10993 gives principles on how toxicokinetic studies relevant to medical devices should be designed and performed. Annex A describes the considerations for inclusion of toxicokinetic studies in the biological evaluation of medical devices.

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**ASA (ASC S3) (Acoustical Society of America)**

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

**Contact:** Susan Blaeser  
**Fax:** (631) 923-2875  
**E-mail:** asastds@acousticalsociety.org

* BSR ASA S3.41-201x, Audible Emergency Evacuation (E2), Evacuation Signals with Relocation Instructions (ESRI), and Carbon Monoxide Notification Signals (T4) (revision of ANSI ASA S3.41-2015)

**Stakeholders:** Building occupants, commercial and industrial fire, mass notification, and carbon monoxide signaling systems manufacturers, residential fire and carbon monoxide alarm manufacturers.

**Project Need:** The carbon monoxide (temporal pattern four) alarm signal should be added to this standard to consolidate the alarm signals referenced by NFPA 72 “National Fire Alarm and Signaling Code” and NFPA 720 “Standard for the Installation of Carbon Monoxide (CO) Detection and Warning Equipment.” The carbon monoxide alarm signal in NFPA 720 is inaccurately illustrated in the annex of NFPA 720. ANSI/ASA S3.41 is presently referenced by both NFPA 72 and NFPA 720.

This Standard specifies the characteristics of acoustic signals used for audible emergency evacuation, audible evacuation signals with relocation instructions, and carbon monoxide notification signals. It applies to the audible signal only and not to the signaling system components or equipment. These audible emergency signals are intended to draw the attention of all persons within the signal reception area to an emergency situation so that they can take the required action.

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**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


**Stakeholders:** Fuel Cleanliness industry.

**Project Need:** This method covers a procedure to rate the ability of aviation turbine fuels to release entrained and emulsified water when passed through a water-coalescing filter.

http://www.astm.org/DATABASE.CART/WORKITEMS/WK53270.htm
BSR/FM 6090-201x, Ignitable Liquid Drainage and Containment Systems (new standard)
Stakeholders: Any manufacturing process or facility that uses, stores, or transports bulk ignitable chemicals, solvents, and the like.
Project Need: To reduce the fire hazard created by ignitable liquid use and storage occupancies by significantly limiting the potential pool size that can be created by a released ignitable liquid from a process or storage container.
This standard will be aimed at systems and devices that will quickly remove a leaked ignitable liquid that is released from a storage container or during use in manufacturing processes significantly limiting the potential pool fire that can be created and directing any spilled liquid towards a separate containment or collection area. If the liquid is ignited and a fire occurs, the system shall minimize the overall size of the fire and allow the liquid to be extinguished by a fire suppression system or safety personnel.

ILTVA (International Light Transportation Vehicle Association, Inc.)
Office: 5579-B Chamblee Dunwoody Road
Atlanta, GA 30338
Contact: Fred Somers
E-mail: fsomers@iltva.org
Fax: (770) 454-0138

* BSR/ILTVA Z130.1-201x, Standard for Golf Cars - Safety and Performance Specifications (revision of ANSI/ILTVA Z130.1-2012)
Stakeholders: Golf car manufacturers, distributors, and users.
Project Need: Existing standard requires updating.
The existing standard provides safety and performance specifications relating to golf cars. A golf car is a vehicle used to convey a person or persons and equipment to play the game of golf in an area designated as a golf course.

TIA (Telecommunications Industry Association)
Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Contact: Teesha Jenkins
Fax: (703) 907-7727
E-mail: standards@tiaonline.org

* BSR/TIA 102.BAAC-D-201x, Common Air Interface Reserved Values (revision and redesignation of ANSI/TIA 102.BAAC-C-2011)
Stakeholders: Private Land Mobile Radio users and manufacturers
Project Need: Provide updates for an existing standard.
This document is a supplement to the TIA-102.BAAA, Common Air Interface (CAI), and describes the CAI Reserved Values that may be utilized by communications equipment conforming to TIA-102 Land Mobile Radio (LMR) standards.

UL (Underwriters Laboratories, Inc.)
Office: 47173 Benicia Street
Freemont, CA 94538
Contact: Paul Lloret
E-mail: Paul.E.Lloret@ul.com

* BSR/UL 2075A-201X, Standard for Safety for CO Gas Test Kit for Gas and Vapor Detectors and Sensors (new standard)
Stakeholders: Manufacturers, suppliers, consumers, commercial users, AHJs, distributors.
Project Need: To obtain national recognition for a standard covering CO gas test kits for gas and vapor detectors and sensors.
Standard would contain requirements covering CO gas test kits used to test CO gas and vapor detectors and sensors.
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)
- AGA (American Gas Association)
- AGSC (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (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.

<table>
<thead>
<tr>
<th>Association</th>
<th>Address</th>
<th>Phone Numbers</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAMI</td>
<td>Association for the Advancement of Medical Instrumentation</td>
<td>(703) 253-8284, (703) 276-0793</td>
<td><a href="http://www.aami.org">www.aami.org</a></td>
</tr>
<tr>
<td>ABMA (ASC B3)</td>
<td>American Bearing Manufacturers Association 2025 M Street, NW Suite 800 Washington, DC 20036-3309 (919) 481-2852, (919) 827-4587</td>
<td><a href="http://www.americanbearings.org">www.americanbearings.org</a></td>
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<tr>
<td>ASME</td>
<td>American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 (212) 591-8521, (212) 591-8501</td>
<td><a href="http://www.asme.org">www.asme.org</a></td>
<td></td>
</tr>
<tr>
<td>ASSE (Safety)</td>
<td>American Society of Safety Engineers 520 N. Northwest Highway Park Ridge, IL 60068 (847) 768-3411, (847) 296-9221</td>
<td><a href="http://www.asse.org">www.asse.org</a></td>
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<td>ASTM</td>
<td>ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 (610) 832-9744, (610) 834-3683</td>
<td><a href="http://www.astm.org">www.astm.org</a></td>
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<tr>
<td>CSA</td>
<td>CSA Group 8501 East Pleasant Valley Rd. Cleveland, OH 44131 (216) 524-4990 x88321, (216) 520-8979</td>
<td><a href="http://www.csa-america.org">www.csa-america.org</a></td>
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<td>DMSC, Inc.</td>
<td>Dimensional Metrology Standards Consortium, Inc. 1350 SW Alsbury Blvd #514 Burleson, TX 76028-9219 (817) 461-1092, (862) 224-6201</td>
<td><a href="http://www.dmsc.org">www.dmsc.org</a></td>
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<tr>
<td>EITS</td>
<td>Entertainment and Technology Standards 630 Ninth Avenue Suite 609 New York, NY 10036-3748 (212) 244-1505, (212) 244-1502</td>
<td><a href="http://www.plasa.org">www.plasa.org</a></td>
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<tr>
<td>FCI</td>
<td>Fluid Controls Institute 1300 Summer Avenue Cleveland, OH 44115 (216) 241-7333, (216) 241-0105</td>
<td><a href="http://www.fluidcontrolsinstitute.org">www.fluidcontrolsinstitute.org</a></td>
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<tr>
<td>FM</td>
<td>FM Approvals 1151 Boston-Providence Turnpike Norwood, MA 02062 (781) 255-4813, (781) 762-9375</td>
<td><a href="http://www.fmglobal.com">www.fmglobal.com</a></td>
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<tr>
<td>IEEE</td>
<td>Institute of Electrical and Electronics Engineers (IEEE) 445 Hoes Lane Piscataway, NJ 08854 (732) 562-3854, (732) 796-6966</td>
<td><a href="http://www.ieee.org">www.ieee.org</a></td>
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<tr>
<td>ILTV A</td>
<td>International Light Transportation Vehicle Association, Inc. 5579-B Chamblee Dunwoody Road Atlanta, GA 30338 (770) 394-7200, (770) 454-0138</td>
<td><a href="http://www.ngcma.org">www.ngcma.org</a></td>
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<tr>
<td>NEMA (ASC C78)</td>
<td>National Electrical Manufacturers Association 1300 N 17th St Rosslyn, VA 22209 Phone: (703) 841-3262</td>
<td><a href="http://www.nema.org">www.nema.org</a></td>
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<td>NEMA (ASC C8)</td>
<td>National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 (703) 841-3271, (703) 841-3371</td>
<td><a href="http://www.nema.org">www.nema.org</a></td>
<td></td>
</tr>
<tr>
<td>UL</td>
<td>Underwriters Laboratories, Inc. 47173 Benicia Street Freemont, CA 94538 (510) 319-4269</td>
<td><a href="http://www.ul.com">www.ul.com</a></td>
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AMS, ANSI, ASME, ASSE, ASTM, AWWA, CSA, DMSC, EITS, FCI, IEEE, ILTV A, ITI, NEMA, NEMA, NEMA, TCNA, TIA, UL

ASC (American National Standards Institute)
## ISO Standards

### AGRICULTURAL FOOD PRODUCTS (TC 34)
- **ISO/DIS 21294**, Oilseeds - Manual or automatic discontinuous sampling - 5/21/2016, $53.00

### AIRCRAFT AND SPACE VEHICLES (TC 20)
- **ISO/DIS 21323**, Space data and information transfer systems - CCSDS Bundle protocol specification - 3/19/2016, $155.00
- **ISO/DIS 21324**, Space data and information transfer systems - Space data link security protocol - 3/19/2016, $134.00

### BIOLOGICAL EVALUATION OF MEDICAL AND DENTAL MATERIALS AND DEVICES (TC 194)
- **ISO/DIS 10993-16**, Biological evaluation of medical devices - Part 16: Toxicokinetic study design for degradation products and leachables - 3/19/2016, $67.00

### DENTISTRY (TC 106)
- **ISO/DIS 14457**, Dentistry - Handpieces and motors - 5/21/2016, FREE

### EARTH-MOVING MACHINERY (TC 127)

### ENVIRONMENTAL MANAGEMENT (TC 207)

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### ERGONOMICS (TC 159)
- **ISO/DIS 9241-220**, Ergonomics of human-computer interaction - Part 220: Processes for enabling, executing and assessing human-centred design within organizations - 3/19/2016, $146.00

### FIRE SAFETY (TC 92)
- **ISO/DIS 13943**, Fire safety - Vocabulary - 5/28/2016, $119.00
- **ISO/DIS 26367-2**, Guidelines for assessing the adverse environmental impact of fire effluents - Part 2: Methodology for compiling data on environmentally significant emissions from fires - 3/18/2016, $112.00

### GAS CYLINDERS (TC 58)
- **ISO/DIS 17879**, Gas cylinders - Self-closing cylinder valves - Specification and type testing - 3/19/2016, $82.00

### GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)
- **ISO/DIS 19160-4**, Addressing - Part 4: International postal address components and template languages - 5/28/2016, $134.00

### GRAPHIC TECHNOLOGY (TC 130)
- **ISO/DIS 16762**, Graphic technology - Post press - General Requirements for transfer, handling and storage - 3/18/2016, $82.00

### HYDROMETRIC DETERMINATIONS (TC 113)
- **ISO/DIS 18481**, Hydrometry - Liquid flow measurement using end depth method in channels with a free overfall - 5/21/2016, $82.00

### IMPLANTS FOR SURGERY (TC 150)
- **ISO/DIS 19227**, Cleaning of orthopedic implants - General Requirements - 3/19/2016, $62.00
ISO/DIS 1827, Rubber, vulcanized or thermoplastic - Determination of
ISO/DIS 1795, Rubber, raw natural and raw synthetic - Sampling and
RUBBER AND RUBBER PRODUCTS (TC 45)
ISO/DIS 20015, Spherical plain bearings - Method for the calculation
ROLLING BEARINGS (TC 4)
ISO/DIS 19723-2, Road vehicles - Liquefied natural gas (LNG) fuel
ISO/DIS 19723-1, Road vehicles - Liquefied natural gas (LNG) fuel
ROAD VEHICLES (TC 22)
ISO/DIS 13400-3, Road vehicles - Diagnostic communication over
Internet Protocol (DoIP) - Part 3: Wired vehicle interface based on
IEEE 802.3 - 3/18/2016, $67.00
ISO/DIS 19723-1, Road vehicles - Liquefied natural gas (LNG) fuel
systems - Part 1: Safety requirements - 5/21/2016, $67.00
ISO/DIS 19723-2, Road vehicles - Liquefied natural gas (LNG) fuel
systems - Part 2: Test methods - 5/21/2016, $53.00
ROLLING BEARINGS (TC 4)
ISO/DIS 20015, Spherical plain bearings - Method for the calculation of
static and dynamic load ratings - 5/21/2016, $53.00
RUBBER AND RUBBER PRODUCTS (TC 45)
ISO/DIS 1795, Rubber, raw natural and raw synthetic - Sampling and
further preparative procedures - 5/21/2016, $40.00
ISO/DIS 1827, Rubber, vulcanized or thermoplastic - Determination of
shear modulus and adhesion to rigid plates - Quadruple-shear
methods - 3/18/2016, $53.00
ISO/DIS 6472, Rubber compounding ingredients - Abbreviated terms -
5/21/2016, $77.00
ISO/DIS 11236, Rubber compounding ingredients - p-
Phenylenediamine (PPD) antidegradants - Test methods -
5/28/2016, $82.00
ISO/DIS 1431-3, Rubber, vulcanized or thermoplastic - Resistance to
ozone cracking - Part 3: Reference and alternative methods for
determining the ozone concentration in laboratory test chambers -
3/18/2016, $82.00
SHIPS AND MARINE TECHNOLOGY (TC 8)
ISO/DIS 18154, Ships and marine technology - Pilot operated safety
valves for low temperature applications - Design requirements -
3/19/2016, $58.00
STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)
ISO/DIS 17664, Processing of health care products - Information to be
provided by the medical device manufacturer for the processing of
medical devices - 5/28/2016
SURFACE CHEMICAL ANALYSIS (TC 201)
ISO/DIS 16962, Surface chemical analysis - Analysis of zinc- and/or
aluminium-based metallic coatings by glow-discharge optical-
emission spectrometry - 3/17/2016, $107.00
TRADITIONAL CHINESE MEDICINE (TC 249)
ISO/DIS 18668-2, Traditional Chinese medicine - Coding System of
Chinese Medicines - Part 2: Codes of Decotion Pieces - 3/18/2016,
$134.00
ISO/DIS 18668-3, Traditional Chinese medicine - Coding System of
Chinese Medicines - Part 3: Codes of Chinese Materia Medica -
3/19/2016, $112.00
ISO/DIS 18668-4, Traditional Chinese medicine - Coding System of
Chinese Medicines - Part 4: Codes of granule forms of individual
medicinals for prescriptions - 3/19/2016, $134.00
ISO/IEC JTC 1, Information Technology
ISO/IEC 14443-2/DAmd2, Identification cards - Contactless integrated
circuit cards - Proximity cards - Part 2: Radio frequency power and
signal interface - Amendment 2: Limits of electromagnetic
disturbance levels for all PICC classes - 5/28/2016, $29.00
ISO/IEC 23001-10/DAmd1, Information technology - MPEG systems
technologies - Part 10: Carriage of timed metadata metrics of media
in ISO base media file format - Amendment 1: Carriage of ROI
coordinates - 3/18/2016, $33.00
ISO/IEC DIS 20000-6, Information Technology - Service Management
- Part 6: Requirements for bodies providing audit and certification of
service management systems - 3/19/2016, $82.00
ISO/IEC DIS 23009-2, Information technology - Dynamic adaptive
streaming over HTTP (DASH) - Part 2: Conformance and reference
software - 3/29/2016
ISO/IEC DIS 30122-3, Information technology - User interfaces - Voice
ISO/IEC DIS 14496-33, Information technology - Coding of audio-
visual objects - Part 33: Internet Video Coding - 3/18/2016, $155.00
ISO/IEC DIS 30113-11, Information technology - Gesture-based
interfaces across devices and methods - Part 11: Single-point
gesture for common system actions - 5/28/2016, $98.00
IEC Standards

2/1817/CD, IEC 60034-3 Ed.7: Rotating electrical machines - Part 3: Specific requirements for synchronous generators driven by steam turbines or combustion gas turbines and for synchronous compensators, 05/13/2016

20/1619/CD, IEC 63010-1: Electric cables - Halogen-free thermoplastic insulated and sheathed flexible cables of rated voltages up to and including 300/300 V - Part 1: general requirements, 05/13/2016

20/1620/CD, IEC 63010-2: Electric cables - Halogen-free thermoplastic insulated and sheathed flexible cables of rated voltages up to and including 300/300 V - Part 2: test methods, 05/13/2016

23/E/942/CD, IEC 60934 Ed.4: Circuit-breakers for equipment (CBE), 05/13/2016


34B/1850/FDIS, IEC 60838-1 Ed.5: Miscellaneous lampholders - Part 1: General requirements and tests, 04/01/2016

34B/1851/FDIS, IEC 60838-2-3 Ed.1: Miscellaneous lampholders - Part 2-3: Particular requirements - Lampholders for double-capped linear LED-lamps, 04/01/2016

35/1356/CDV, IEC 62281/Ed3: Safety of primary and secondary lithium cells and batteries during transport, 05/20/2016

46C/1037/FDIS, IEC 61156-9/Ed.1: Multicore and Symmetrical Pair/Quad Cables for Digital Communications - Part 9: Cables for channels with transmission characteristics up to 2 GHz - Sectional specification, 04/01/2016

46C/1038/FDIS, IEC 61156-10/Ed.1: Multicore and Symmetrical Pair/Quad Cables for Digital Communications - Part 10: Cables for cords with transmission characteristics up to 2 GHz - Sectional specification, 04/01/2016

57/1678/DTR, IEC 62351-13 TR Ed.1: Power systems management and associated information exchange - Data and communications security - Part 13: Guidelines on what security topics should be covered in standards and specifications, 04/15/2016

59K/275/CD, IEC 60705 A2 Ed.4: Amendment 2 to IEC 60705 Ed.4: Household microwave ovens - Methods for measuring performance, 05/13/2016


62D/1330/FDIS, Amendment 1 to IEC 60601-2-3: Medical electrical equipment - Part 2-3: Particular requirements for the basic safety and essential performance of short-wave therapy equipment, 04/01/2016

62D/1332/FDIS, Amendment 1 to IEC 60601-2-10: Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators, 04/01/2016

64/2103/CD, Amendment 3 to IEC 60364-5-53 (f1): Low voltage electrical installation - Part 5-53 - Selection and rectification of electrical equipment - Isolation, switching and control: Clause 530 - Scope, Definitions, 05/13/2016


64/2105/CD, Amendment 3 to IEC 60364-5-53 (f3): Low voltage electrical installation - Part 5-53 - Selection and rectification of electrical equipment - Isolation, switching and control: Clause 533 - Devices for protection against overcurrent, 05/13/2016

64/2106/CD, Amendment 3 to IEC 60364-5-53 (f4): Low voltage electrical installation - Part 5-53 - Selection and rectification of electrical equipment - Isolation, switching and control: Clause 532 - Devices and precautions for protection against thermal effects, 05/13/2016

68/531/CDV, Amendment 1 to IEC 60404-15 Ed.1: Magnetic materials - Part 15: Methods for the determination of the relative magnetic permeability of freely magnetic materials, 05/20/2016


81/508/FDIS, IEC 62793 Ed.1: Protection against lightning - Thunderstorm warning systems, 04/01/2016

91/1345/FDIS, IEC 60068-3-13 Ed.1: Environmental Testing - Part 3 -13: Supporting documentation and guidance on test T - Soldering, 04/01/2016

105/568/DT, IEC 62282-7-1 Ed.2: Fuel cell technologies - Part 7 -1: Test methods - Single cell performance tests for polymer electrolyte fuel cell (PEFC), 05/13/2016

110/726/CDV, IEC 62341-6-1 Ed.2: Organic light emitting diode (OLED) displays - Part 6-1: Measuring methods of optical and electro-optical parameters, 05/20/2016


116/278/NP, IEC 62841-2-1/Ed1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2-1: Particular requirements for hand-held drills and impact drills, 03/18/2016


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 5495/Amd1:2016**, Sensory analysis - Methodology - Paired comparison test - Amendment 1, $22.00
- **ISO 27608/Amd1:2016**, Animal and vegetable fats and oils - Determination of Lovibond® colour - Automatic method - Amendment 1, $22.00
- **ISO 6886:2016**, Animal and vegetable fats and oils - Determination of oxidative stability (accelerated oxidation test), $123.00

AIRCRAFT AND SPACE VEHICLES (TC 20)
- **ISO 3209:2016**, Aerospace - Nuts, anchor, self-locking, floating, two lug, with counterbore, with MJ threads, classifications: 1 100 MPa (at ambient temperature)/235 degrees C, 1 100 MPa (at ambient temperature)/315 degrees C and 1 100 MPa (ambient temperature)/425 degrees C - Dimensions, $51.00
- **ISO 9154:2016**, Aerospace - Bolts, with MJ threads, made of heat-resistant nickel-based alloy, strength class 1 550 MPa - Procurement specification, $149.00
- **ISO 9609:2016**, Aerospace - Nuts, hexagonal, plain, reduced height, normal across flats, with MJ threads, classifications: 450 MPa (at ambient temperature)/120 degrees C, 450 MPa (at ambient temperature)/235 degrees C, 600 MPa (at ambient temperature)/425 degrees C, 900 MPa (at ambient temperature)/315 degrees C and 1 100 MPa (ambient temperature)/600 degrees C - Dimensions, $51.00
- **ISO 9618:2016**, Aerospace - Screws, pan head, internal offset cruciform ribbed or unribbed drive, stepped shank, short or medium length MJ threads, metallic material, coated or uncoated, strength classes less than or equal to 1 100 MPa - Dimensions, $51.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)
- **ISO 14408:2016**, Tracheal tubes designed for laser surgery - Requirements for marking and accompanying information, $88.00
- **ISO 7396-1:2016**, Medical gas pipeline systems - Part 1: Pipeline systems for compressed medical gases and vacuum, $265.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)
- **ISO 7870-6:2016**, Control charts - Part 6: EWMA control charts, $149.00

COPPER, LEAD AND ZINC ORES AND CONCENTRATES (TC 183)
- **ISO 10378:2016**, Copper, lead and zinc sulfide concentrates - Determination of gold and silver - Fire assay gravimetric and flame atomic absorption spectrometric method, $200.00

COSMETICS (TC 217)

ERGONOMICS (TC 159)
- **ISO 9241-161:2016**, Ergonomics of human-system interaction - Part 161: Guidance on visual user-interface elements, $240.00

FIRE SAFETY (TC 92)
- **ISO 9705-1:2016**, Reaction to fire tests - Room corner test for wall and ceiling lining products - Part 1: Test method for a small room configuration, $200.00

FLUID POWER SYSTEMS (TC 131)
- **ISO 15171-2:2016**, Connections for fluid power and general use - Hydraulic couplings for diagnostic purposes - Part 2: Coupling with M16 x 2 end for connection under pressure, $88.00

GLASS IN BUILDING (TC 160)
- **ISO 1288-1:2016**, Glass in building - Determination of the bending strength of glass - Part 1: Fundamentals of testing glass, $123.00
- **ISO 1288-2:2016**, Glass in building - Determination of the bending strength of glass - Part 2: Coaxial double-ring test on flat specimens with large test surface areas, $123.00
- **ISO 1288-3:2016**, Glass in building - Determination of the bending strength of glass - Part 3: Test with specimen supported at two points (four point bending), $88.00
- **ISO 1288-4:2016**, Glass in building - Determination of the bending strength of glass - Part 4: Testing of channel shaped glass, $88.00
- **ISO 1288-5:2016**, Glass in building - Determination of the bending strength of glass - Part 5: Coaxial double ring test on flat specimens with small test surface areas, $88.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

INDUSTRIAL TRUCKS (TC 110)
- **ISO 10896-2:2016**, Rough-terrain trucks - Safety requirements and verification - Part 2: Slewing trucks, $200.00
| **INTERNAL COMBUSTION ENGINES (TC 70)** |  |
| ISO 4548-14:2016, Methods of test for full-flow lubricating oil filters for internal combustion engines - Part 14: Cold start simulation and hydraulic pulse durability for composite filter housings, $51.00  |
| **MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)** |  |
| ISO 19901-5:2016, Petroleum and natural gas industries - Specific requirements for offshore structures - Part 5: Weight control during engineering and construction, $240.00  |
| ISO 21809-3:2016, Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 3: Field joint coatings, $265.00  |
| **NUCLEAR ENERGY (TC 85)** |  |
| ISO 16637:2016, Radiological protection - Monitoring and internal dosimetry for staff members exposed to medical radionuclides as unsealed sources, $173.00  |
| **OPTICS AND OPTICAL INSTRUMENTS (TC 172)** |  |
| ISO 14490-3:2016, Optics and photonics - Test methods for telescopic systems - Part 3: Test methods for telescopic sights, $123.00  |
| **OTHER** |  |
| ISO 2417:2016, Leather - Physical and mechanical tests - Determination of the static absorption of water, $51.00  |
| ISO 2589:2016, Leather - Physical and mechanical tests - Determination of thickness, $51.00  |
| ISO 3377-2:2016, Leather - Physical and mechanical tests - Determination of tear load - Part 2: Double edge tear, $51.00  |
| **PAINTS AND VARNISHES (TC 35)** |  |
| ISO 2811-1:2016, Paints and varnishes - Determination of density - Part 1: Pycnometer method, $88.00  |
| **PLASTICS (TC 61)** |  |
| ISO 4892-3:2016, Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps, $123.00  |
| ISO 17855-2:2016, Plastics - Polyethylene (PE) moulding and extrusion materials - Part 2: Preparation of test specimens and determination of properties, $88.00  |
| **PLASTICS PIPES, FITTINGS AND VALVES FOR THE TRANSPORT OF FLUIDS (TC 138)** |  |
| ISO 8639:2016, Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods for leaktightness and proof of structural design of flexible joints, $88.00  |
| **POWDER METALLURGY (TC 119)** |  |
| ISO 4499-3:2016, Hardmetals - Metallographic determination of microstructure - Part 3: Measurement of microstructural features in Ti (C, N) and WC/cubic carbide based hardmetals, $149.00  |
| ISO 4499-4:2016, Hardmetals - Metallographic determination of microstructure - Part 4: Characterisation of porosity, carbon defects and eta-phase content, $88.00  |
| **ROAD VEHICLES (TC 22)** |  |
| ISO 3917:2016, Road vehicles - Safety glazing materials - Test methods for resistance to radiation, high temperature, humidity, fire and simulated weathering, $88.00  |
| ISO 6624-2:2016, Internal combustion engines - Piston rings - Part 2: Half keystone rings made of cast iron, $123.00  |
| ISO 6624-4:2016, Internal combustion engines - Piston rings - Part 4: Half keystone rings made of steel, $149.00  |
| **ISO 12156-1:2016, Diesel fuel - Assessment of lubricity using the high-frequency reciprocating rig (HFRR) - Part 1: Test method, $123.00**  |
| **RUBBER AND RUBBER PRODUCTS (TC 45)** |  |
| ISO 289-2:2016, Rubber, unvulcanized - Determinations using a shearing-disc viscometer - Part 2: Determination of pre-vulcanization characteristics, $88.00  |
| ISO 18898:2016, Rubber - Calibration and verification of hardness testers, $149.00  |
| ISO 23233:2016, Rubber, vulcanized or thermoplastic - Determination of resistance to abrasion using a driven, vertical abrasive disc, $88.00  |
| **SMALL TOOLS (TC 29)** |  |
| ISO 16916:2016, Tools for moulding - Tool specification sheet for injection moulds, $88.00  |
| **SOIL QUALITY (TC 190)** |  |
| ISO 17586:2016, Soil quality - Extraction of trace elements using dilute nitric acid, $123.00  |
| **TIMBER (TC 218)** |  |
| ISO 8903:2016, Broadleaved sawn timber - Nominal sizes, $51.00  |
| **TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)** |  |
| **TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)** |  |
| ISO 8362-5:2016, Injection containers and accessories - Part 5: Freeze drying closures for injection vials, $88.00  |
| **TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)** |  |
| ISO 14296:2016, Intelligent transport systems - Extension of map database specifications for applications of cooperative ITS, $265.00  |
| **WATER QUALITY (TC 147)** |  |
| ISO 19827:2016, Water quality - Determination of the acute toxicity to the freshwater rotifer Brachionus calyciflorus, $123.00  |

**ISO Technical Reports**

| **HYDROMETRIC DETERMINATIONS (TC 113)** |  |
| ISO/TR 21414:2016, Hydrometry - Groundwater - Surface geophysical surveys for hydrogeological purposes, $240.00  |

**ISO Technical Specifications**

| **SMALL TOOLS (TC 29)** |  |

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

| **ISO/IEC 14651:2016, Information technology - International string ordering and comparison - Method for comparing character strings and description of the common template tailorable ordering, $200.00**  |
| ISO/IEC 27000:2016, Information technology - Security techniques - Information security management systems - Overview and vocabulary, $173.00  |
| ISO/IEC 23001-7:2016, Information technology - MPEG systems technologies - Part 7: Common encryption in ISO base media file format files, $149.00  |
IEC Standards

ELECTRICAL ACCESSORIES (TC 23)
- **IEC 62196-2 Ed. 2.0 b:2016**, Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories, $339.00
- **IEC 60670-21 Ed. 1.1 b:2016**, Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means, $91.00
- **IEC 60670-21 Amd.1 Ed. 1.0 b:2016**, Amendment 1 - Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 21: Particular requirements for boxes and enclosures with provision for suspension means, $17.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)
- **IEC 60601-2-33 Ed. 3.0 b cor.2:2016**, Corrigendum 2 - Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis, $0.00

FIBRE OPTICS (TC 86)
- **IEC 61291-2 Ed. 4.0 en:2016**, Optical amplifiers - Part 2: Single channel applications - Performance specification template, $121.00
- **IEC 62343-1 Ed. 1.0 en:2016**, Dynamic modules - Part 1: Performance standards - General conditions, $43.00
- **IEC 62572-3 Ed. 3.0 en:2016**, Fibre optic active components and devices - Reliability standards - Part 3: Laser modules used for telecommunication, $121.00
- **IEC 60794-3-20 Ed. 2.0 b:2009**, Optical fibre cables - Part 3-20: Outdoor cables - Family specification for self-supporting aerial telecommunication cables, $157.00
- **IEC 61753-031-3 Ed. 2.0 b:2014**, Fibre optic interconnecting devices and passive components - Performance standard - Part 031-3: Non-connectorized single-mode 1×N and 2×N non-wavelength-selective branching devices for Category U - Uncontrolled environment, $121.00

FLAT PANEL DISPLAY DEVICES (TC 110)

NUCLEAR INSTRUMENTATION (TC 45)
- **IEC/IEEE 60780-323 Ed. 1.0 b:2016**, Nuclear facilities - Electrical equipment important to safety - Qualification, $230.00

SAFETY OF HAND-HELD MOTOR-OPERATED ELECTRIC TOOLS (TC 116)
- **IEC 62841-3-4 Ed. 1.0 b:2016**, Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders, $182.00

SEMICONDUCTOR DEVICES (TC 47)
- **IEC 62779-1 Ed. 1.0 b:2016**, Semiconductor devices - Semiconductor interface for human body communication - Part 1: General requirements, $97.00
- **IEC 62779-2 Ed. 1.0 b:2016**, Semiconductor devices - Semiconductor interface for human body communication - Part 2: Characterization of interfacing performances, $97.00

IEC Technical Reports

ELECTROMAGNETIC COMPATIBILITY (TC 77)
- **IEC/TR 61000-1-7 Ed. 1.0 en:2016**, Electromagnetic compatibility (EMC) - Part 1-7: General - Power factor in single-phase systems under non-sinusoidal conditions, $230.00

IEC Technical Specifications

AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)
- **IEC/TS 62436 Ed. 1.1 en:2016**, Guideline for implementation of copy controlled multimedia interface, $145.00
- **IEC/TS 62436 Amd.1 Ed. 1.0 en:2016**, Amendment 1 - Guideline for implementation of copy controlled multimedia interface, $22.00

FIRE HAZARD TESTING (TC 89)
- **IEC/TS 60695-11-11 Ed. 2.0 b:2016**, Fire hazard testing - Part 11-11: Test flames - Determination of the characteristic heat flux for ignition from a non-contacting flame source, $206.00
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 issued by Member countries of the World Trade Organization (WTO). In accordance with the WTO Agreement on Technical Barriers to Trade (TBT Agreement), Members are required to report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

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

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

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

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum 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 its oversight of programs of its 40+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board has eleven membership categories that can be viewed at http://www.incits.org/participation/membership-info. Membership in all categories is always welcome. INCITS also seeks to broaden its membership base and looks to recruit new participants in the following under-represented membership categories:

- **Producer – Hardware**
  This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**
  This category primarily produces software products for the ITC marketplace.

- **Distributor**
  This category is for distributors, resellers or retailers of conformant products in the ITC industry.

- **User**
  This category includes entities that primarily reply on standards in the use of a products/service, as opposed to producing or distributing conformant products/services.

- **Consultants**
  This category is for organizations whose principal activity is in providing consulting services to other organizations.

- **Standards Development Organizations and Consortia**
  - “Minor” an SDO or Consortia that (a) holds no TAG assignments; or (b) holds no SC TAG assignments, but does hold one or more Work Group (WG) or other subsidiary TAG assignments.

- **Academic Institution**
  This category is for organizations that include educational institutions, higher education schools or research programs.

- **Other**
  This category includes all organizations who do not meet the criteria defined in one of the other interest categories.

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, please contact Jennifer Garner at 202-626-5737 or jgarner@itic.org. Visit www.INCITS.org for more information regarding INCITS activities.

Calls for Members

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

Address Correction

The address for ASC X9 that appeared in last week’s issue of Standards Action was incorrect. The correct listing is as follows:

**ASC X9**
Accredited Standards Committee X9, Inc.
275 West Street
Suite 107
Annapolis, MD 21401
Phone: (410) 267-7707
Fax: (410) 267-0961
Web: www.x9.org

PINS Withdrawals

ASTM Standards

ASTM has withdrawn the following project from the ANS process; questions may be directed to accreditation@astm.org.

BSR/ASTM WK37812-201x, New Practice for Calibration
ANSI Accredited Standards Developers

Approval of Accreditation as an ANSI ASD
American Board of Multiple Specialties in Podiatry (ABMSP)

ANSI’s Executive Standards Council has approved the American Board of Multiple Specialties in Podiatry (ABMSP), a new ANSI Member in 2014, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on ABMSP-sponsored American National Standards, effective February 23, 2016. For additional information, please contact: Stephen B. Perkinson, MD, Acting Director, American Board of Multiple Specialties in Podiatry, Standards Development Organization, 555 Eighth Avenue, Suite 1902, New York, NY 10018; phone: 301.537.7019; e-mail: sbp@standardsbasedprograms.com.

Approval of Reaccreditation
APA – The Engineered Wood Association

The reaccreditation of the APA – The Engineered Wood Association, an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI’s Executive Standards Council under APA’s recently revised operating procedures for documenting consensus on APA-sponsored American National Standards, effective February 17, 2016. For additional information, please contact: Borjen Yeh, Ph.D., P.E., Director, Technical Services Division, APA, 7011 South 19th Street, Tacoma, WA 98466-5333; phone: 253.620.7467; e-mail: borjen.yeh@apawood.org.

ANSI Accreditation Program for Third Party Product Certification Agencies

Request for Scope Extension
ACB, Inc.

Comment Deadline: March 28, 2016
Ms. Susan Holman
ACB, Inc.
6731 Whittier Avenue, Suite C110
McLean, VA 22101
Phone: 703-847-4700
Fax: 703-847-6888
E-mail: susan@acbcert.com
Web: www.ACBcert.com
ACB, Inc., an ANSI-accredited certification body, has requested an extension of ANSI accreditation to include the following:
- EU EMC Directive 2014/30/EU
Please send your comments by March 28, 2016 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, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

Compatible Electronics, Inc.

Comment Deadline: March 28, 2016
Mr. Jeff Klinger
Director of Engineering/Quality Manager
Compatible Electronics, Inc.
114 Olinda Drive
Brea, CA 92823
Phone: 714-579-0500
Fax: 714-528-8984
E-mail: jeff@celectronics.com
Web: www.celectronics.com
Compatible Electronics, Inc., an ANSI-accredited certification body, has requested an extension of ANSI accreditation to include the following:
- EU EMC Directive 2014/30/EU
Please send your comments by March 28, 2016 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, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

Curtis-Straus, LLC

Comment Deadline: March 28, 2016
Mr. Tadas Stukas - Quality & HSE Manager
Curtis-Straus, LLC
One Distribution Center Circle, Suite #1
Lilliton, MA 01460
Phone: 978-486-8880
Fax: 978-486-8828
E-mail: tadas.stukas@us.bureauveritas.com
Web: www.curtis-straus.com
Curtis-Straus, LLC, an ANSI-accredited certification body, has requested a scope extension to include the following:
- EU EMC Directive 2014/30/EU
Please send your comments by March 28, 2016 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, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

PCTEST Engineering Laboratory, Inc.

Comment Deadline: March 28, 2016
Mr. Randy Orantez - President
PCTEST Engineering Laboratory, Inc.
6660-B Dobbin Road
Columbia, MD 21045
Phone: 410-290-6652
Fax: 410-290-6654
E-mail: randy@pcitestlab.com
Web: www.pctestlab.com
PCTEST Engineering Laboratory, Inc., an ANSI-accredited certification body, has requested a scope extension to include the following:
- EU EMC Directive 2014/30/EU
Call for U.S. TAG Administrator
ISO/TC 282/SC 1 – Treated wastewater reuse for Irrigation

ANSI has been informed that the American Society of Agricultural and Biological Engineers (ASABE), the ANSI-accredited U.S. TAG Administrator for ISO/TC 282/SC 1, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 282/SC 1 operates under the following scope:

Standardization in the field of Treated wastewater reuse for irrigation within the scope of ISO/TC 282:

- Standardization of water re-use of any kind and for any purpose. It covers both centralized and decentralized or on-site water re-uses, direct and indirect ones as well as intentional and unintentional ones. It includes technical, economic, environmental and societal aspects of water re-use. Water re-use comprises a sequence of the stages and operations involved in uptaking, conveyance, processing, storage, distribution, consumption, drainage and other handling of wastewater, including the water re-use in repeated, cascaded and recycled ways. The scope of ISO/PC 253 (Treated wastewater re-use for irrigation) is merged into the proposed new committee.

Excluded:

- the limit of allowable water quality in water re-use, which should be determined by the governments, WHO and other relevant competent organizations;
- all aspects of TC 224 scope (service activities relating to drinking water supply systems and wastewater systems -- Quality criteria of the service and performance indicators);
- methods for the measurement of water quality, which are covered by TC 147.

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

ISO/IEC JTC 1/SC 23 – Digitally Recorded Media for Information Interchange and Storage

ANSI has been informed that the InterNational Committee for Information Technology Standards (INCITS), the ANSI accredited U.S. TAG Administrator for ISO/IEC JTC 1/SC 23, wishes to relinquish their role as U.S. TAG Administrator.

ISO/IEC JTC 1/SC 23 operates under the following scope:

Standardization in the field of removable digital storage media utilizing optical, holographic and magnetic recording technologies, and flash memory technologies for digital information interchange, including:

- algorithms for the lossless compression of data
- volume and file structure
- methods for determining the life expectancy of digital storage media
- methods for error monitoring of digital storage media

Organizations interested in serving as the U.S. TAG Administrator should contact ISOT@ansi.org.

ISO/IEC JTC 1/SC 34 – Document description and processing languages

ANSI has been informed that the InterNational Committee for Information Technology Standards (INCITS), the ANSI accredited U.S. TAG Administrator for ISO/IEC JTC 1/SC 34, wishes to relinquish their role as U.S. TAG Administrator.

ISO/IEC JTC 1/SC 34 operates under the following scope:

Standardization in the field of document description and processing languages, within the scope of ISO/IEC JTC 1: Standardization in the field of information technology.

Organizations interested in serving as the U.S. TAG Administrator should contact ISOT@ansi.org.

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat
ISO/TC 211 – Geographic information/Geomatics

ANSI has been informed by the ISO Technical Management Board (ISO/TMB) that Standards Norway (SN), the ISO delegated secretariat, wishes to relinquish the role of the secretariat. ISO/TC 211 operates under the following scope:

Standardization in the field of digital geographic information.

Note: This work aims to establish a structured set of standards for information concerning objects or phenomena that are directly or indirectly associated with a location relative to the Earth.

These standards may specify, for geographic information, methods, tools and services for data management (including definition and description), acquiring, processing, analyzing, accessing, presenting and transferring such data in digital / electronic form between different users, systems and locations.

The work shall link to appropriate standards for information technology and data where possible, and provide a framework for the development of sector-specific applications using geographic data.

Information concerning the United States acquiring the role of international secretariat may be obtained by contacting ANSI at isot@ansi.org.
New Work Item Proposal
Natural Bitumen (Mineral) – Specifications and Test Methods

Comment Deadline: March 25, 2016
ISIRI, the ISO member body for the Islamic Republic of Iran, has submitted to ISO a new work item proposal for development of an ISO standard on Natural Bitumen (Mineral) – Specifications and Test Methods, with the following scope statement:
The purpose of this standard is to determine the specifications and test methods of natural bitumen extracted from mines, used for different purposes in industries.

Anyone wishing to review the new work item proposal can request a copy of the proposal by contacting ANSI’s ISO Team via e-mail: isot@ansi.org with submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, March 25, 2016.

Urban Pedestrian Bridge (Footbridge) Assemblies – Location

Comment Deadline: March 25, 2016
ISIRI, the ISO member body for the Islamic Republic of Iran, has submitted to ISO a new work item proposal for development of an ISO standard on Urban Pedestrian Bridge (Footbridge) Assemblies – Location, with the following scope statement:

This standard specifies location requirements of Urban pedestrian bridge (footbridge) assemblies in cities. Pedestrian bridges outside of cities are not covered by this standard. This International Standard is also intended to facilitate the understanding of installers of urban pedestrian bridges and municipalities.

Anyone wishing to review the new work item proposal can request a copy of the proposal by contacting ANSI’s ISO Team via email: isot@ansi.org with submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, March 25, 2016.

New Work Item Proposal for a New Field of ISO Technical Activity
Safety Management of Complex Technical Systems

Comment Deadline: April 8, 2016
GOST R, the ISO member body for the Russian Federation, has submitted to ISO a new work item proposal for a new field of ISO technical activity on Safety Management of Complex Technical Systems, with the following scope statement:

Standardization in the field of complex technical systems, such as aerospace systems, including all their constituent elements (operators, manufacturers of industrial products, industrial infrastructures, maintenance and repair organizations, training centers, etc.) throughout the full Life Cycle – definition, classification of threats and risk factors, procedures for determining Safety Efficiency, including predictive risk modeling; recommendations on the practical application of risk management.

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, April 8, 2016.

U.S. Technical Advisory Groups

Approval of Reaccreditation
ISO TC 164 – Mechanical Testing of Metals
ANSI’s Executive Standards Council has approved the reaccreditation of the U.S. Technical Advisory Group to ISO TC 164, Mechanical testing of metals under its recently revised operating procedures, effective February 18, 2016.

Meeting Notices

AHRI Meeting
Development of AHRI Proposed Standards 1510P and 1511P, Performance Rating of Ultraviolet Light Treatment Equipment
The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on March 10 from 1 p.m. to 3 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Ted Wayne at twayne@ahrinet.org.

Green Building Initiative
GBI 01-201x
The thirteenth meeting of the Green Building Initiative – GBI 01-201x Consensus Body will be held in-person in Chicago and via conference call / webinar:
Day 1: Monday, March 21st, 1:00 PM to 7:30 PM CT
Day 2: Tuesday, March 22nd, 7:30 AM to 6:30 PM CT
Day 3: Wednesday, March 23rd, 7:30 AM to 2:00 PM CT

The purpose for these teleconferences is for the Consensus Body members to prepare responses to comments from the public comment period.
The tentative agenda is posted on the GBI webpage for the standard at: http://www.thegbi.org/ansi. All meetings are open to the public. Any member of the public or subcommittee participant who would like to attend the meeting should contact the Secretariat, Maria Woodbury, preferably at least 15 days in advance of the meeting to ensure they are included in relevant communications in preparation for the meeting. Webinar access will be provided to those unable to attend in person.

To attend, and for additional information, please contact:
Maria Woodbury
Secretariat for Green Building Initiative
207-807-8666 (direct)
Maria@thegbi.org
Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/IEC JTC 1/SC 37 – Biometrics

Currently, the U.S. holds a leadership position as secretariat of ISO/IEC JTC 1/SC 37 – Biometrics. The InterNational Committee for Information Technology Standards (INCITS) Executive Board has advised ANSI to relinquish its role as secretariat for this committee.

ISO/IEC JTC 1/SC 37 operates under the following scope:

*Standardization of generic biometric technologies pertaining to human beings to support interoperability and data interchange among applications and systems. Generic human biometric standards include: common file frameworks; biometric application programming interfaces; biometric data interchange formats; related biometric profiles; application of evaluation criteria to biometric technologies; methodologies for performance testing and reporting and cross jurisdictional and societal aspects.*

*Excluded is the work in ISO/IEC JTC 1/SC 17 to apply biometric technologies to cards and personal identification.*

*Excluded is the work in ISO/IEC JTC 1/SC 27 for biometric data protections techniques, biometric security testing, evaluations, and evaluations methodologies.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated secretariat for ISO/IEC JTC 1/SC 37. Alternatively, ANSI may be assigned the responsibility for administering an ISO secretariat. Any request that ANSI accepts to 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 US 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/IEC JTC 1/SC 37 secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity, 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 at isot@ansi.org.
BSR/ASHRAE Addendum aa
to ANSI/ASHRAE Standard 34-2013

First Public Review Draft

Proposed Addendum aa
to Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review (February 2016)
(Draft shows Proposed Changes to Current Standard)

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

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BSR/ASHRAE Addendum aa to ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review Draft

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

FOREWORD

This addendum adds the zeotropic refrigerant blend R-449C in Table 4-2 and Table D-2.

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

Addendum aa to 34-2013

Add the following underlined data to Table 4-2 and Table D-2 in the columns indicated.

**TABLE 4-2 Data and Safety Classifications for Refrigerant Blends**
Refrigerant Number = 449C
Composition (Mass %) = R-32/125/1234yf/134a (20.0/20.0/31.0/29.0)
Composition tolerances = +0.5,-1.5/+1.5,-0.5/+0.5,-1.5/+1.5,-0.5
OEL = 800
Safety Group = A1
RCL = 98,000 ppm v/v; 23 lb/Mcf; 360 g/m3
Highly Toxic or Toxic Under Code Classification = Neither

**TABLE D-2 Data for Refrigerant Blends**
Refrigerant Number = 449C
Composition (Mass %) = R-32/125/1234yf/134a (20.0/20.0/31.0/29.0) Average Molecular Mass = 90.3 g/mol
Bubble Point (°F) = -48.3
Dew Point (°F) = -36.6
Bubble Point (°C) = -44.6
Dew Point (°C) = -38.1
BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 15-2013

First Public Review Draft

Proposed Addendum b to Standard 15-2013, Safety Standard for Refrigeration Systems

First Public Review (February 2016)
(Draft shows Proposed Changes to Current Standard)

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

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Addendum b to 15-2013

(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

From time to time, the various references that are used by this standard are updated. This addendum gives the dates of the current versions for the references given in Appendix B (Normative References) and Appendix A (Informative References).

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

INFORMATIVE APPENDIX A

INFORMATIVE REFERENCES

This appendix contains full citations for informative references only. Full citations for normative references are listed in Normative Appendix B. References in this standard are numbered in the order in which they appear in the document, so the numbers for the normative references are shown for the convenience of the user.

1. Not an informative reference.
5. Not an informative reference.
15. NIST REFPROP, Standard Reference Database 23, Version 9.1, (2013), National Institute of
NORMATIVE APPENDIX B
NORMATIVE REFERENCES
This appendix contains full citations for normative references. Full citations for references that are solely informative are included in Informative Appendix A. Note that in some locations within the standard, normative references are also used as informative references. References in this standard are numbered in the order in which they appear in the document, so the numbers for the informative references are shown for the convenience of the user.

6. ANSI/ASME Boiler and Pressure Vessel Code, Section VIII, Rules for Construction of Pressure Vessels, Division 1, 2014-2013, American Society of Mechanical Engineers (ASME), 3 Park Avenue, New York, NY 10016-5990.
   Note: Reference 6 is mandatory for designers, manufacturers, and producers of refrigeration equipment. For all other users, this reference is informative.
8. ANSI/ASME B31.5-2014 Refrigeration Piping and Heat Transfer Components, American Society of Mechanical Engineers (ASME), 3 Park Avenue, New York, NY 10016.
   Note: Reference 8 is mandatory for designers, manufacturers, and producers of refrigeration equipment. For all other users, this reference is informative.
15. Not a normative reference.
BSR/ASHRAE Addendum e
to ANSI/ASHRAE Standard 15-2013

First Public Review Draft

Proposed Addendum e to
Standard 15-2013, Safety Standard
for Refrigeration Systems

First Public Review (February 2016)
(Draft shows Proposed Changes to Current Standard)

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

This addendum makes a change to the requirements for the pressure relief of heat exchanger coils that are capable of being isolated by valves, and exposed to a heating source.

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

Addendum e to 15-2013

3. DEFINITIONS

Add new definition as shown:

heat exchanger coil: a refrigerant-containing heat transfer component constructed of pipe or tubing.

Revise Section 9.4.4 as shown:

9.4.4 Evaporators. Heat exchanger coils located downstream, or upstream within 18 in. (460 mm), of a heating coil source and capable of being isolated shall be fitted with a pressure-relief device which discharges discharging to another part of the system in accordance with Section 9.4.3 or outside the building any enclosed space in accordance with the requirements of Section 9.7.8. The pressure relief device shall be connected at the highest possible location of the heat exchanger or piping between the heat exchanger and its manual isolation valves.

Exceptions:

1. Relief valves shall not be required on heat exchanger coils that are designed to have a design produce a temperature that will result in the pressure greater than 110% of refrigerant saturation pressure of the refrigerant being less than the design pressure when exposed to the maximum heating source temperature.
BSR/ASHRAE Addendum y
to ANSI/ASHRAE Standard 34-2013

First Public Review Draft

Proposed Addendum y to
Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review (February 2016)
(Draft shows Proposed Changes to Current Standard)

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BSR/ASHRAE Addendum y to ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review Draft

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FOREWORD

This addendum adds the zeotropic refrigerant blend R-513B in Table 4-2 and Table D-2.

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

Addendum y to 34-2013

Add the following underlined data to Table 4-2 and Table D-2 in the columns indicated.

**TABLE 4-2 Data and Safety Classifications for Refrigerant Blends**
Refrigerant Number = 513B  
Composition (Mass %) = R-1234yf/134a (58.5/41.5)  
Composition tolerances = ±0.5/±0.5  
OEL = 640  
Safety Group = A1  
RCL = 74,000 ppm v/v; 21 lb/Mcf; 330 g/m3  
Highly Toxic or Toxic Under Code Classification = Neither

**TABLE D-2 Data for Refrigerant Blends**
Refrigerant Number = 513B  
Composition (Mass %) = R-1234yf/134a (58.5/41.5) Average Molecular Mass = 108.7 g/mol  
Azeotropic Temperature (°F) = 81.0  
Normal Boiling Point (°F) = -20.6  
Azeotropic Temperature (°C) = 27.2  
Normal Boiling Point (°C) = -29.2
BSR/ASHRAE Addendum z
to ANSI/ASHRAE Standard 34-2013

First Public Review Draft

Proposed Addendum z to
Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review (February 2016)
(Draft shows Proposed Changes to Current Standard)

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BSR/ASHRAE Addendum z to ANSI/ASHRAE Standard 34-2013, Designation and Safety Classification of Refrigerants

First Public Review Draft

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FOREWORD

This addendum adds the zeotropic refrigerant blend R-454C in Table 4-2 and Table D-2.

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

Addendum z to 34-2013

Add the following underlined data to Table 4-2 and Table D-2 in the columns indicated.

**TABLE 4-2 Data and Safety Classifications for Refrigerant Blends**

Refrigerant Number = 454C

Composition (Mass %) = R-32/1234yf (21.5/78.5)

Composition tolerances = ±2.0/±2.0

OEL = 620

Safety Group = A2L

RCL = 19,000 ppm v/v; 29 lb/Mcf; 460 g/m3

Highly Toxic or Toxic Under Code Classification = Neither

**TABLE D-2 Data for Refrigerant Blends**

Refrigerant Number = 454C

Composition (Mass %) = R-32/1234yf (21.5/78.5) Average Molecular Mass = 90.8 g/mol

Bubble Point (°F) = -50.8

Dew Point (°F) = -36.0

Bubble Point (°C) = -46.0

Dew Point (°C) = -37.8
Public Review Draft

Proposed Addendum I to Standard 189.1-2014

Standard for
the Design of
High-Performance
Green Buildings
Except Low-Rise
Residential Buildings

First Public Review (February 2016)
(Draft Shows Proposed Changes to Current Standard)

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

This addendum revises the title and scope of Section 9 in order to improve clarity and more accurately describe the content of the section.

**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 L to 189.1-2014**

Revise the Section 9 title as follows:

9. THE BUILDING’S IMPACT ON THE ATMOSPHERE, MATERIALS, AND RESOURCES

Revise Section 9.1 as follows:

9.1 Scope. This section specifies requirements for the building’s impact on the atmosphere, materials, and resources, including construction waste management, refrigerants, storage and collection of recyclables, and reduced impact materials related to the environmental and human health impacts of materials, including resource conservation, reduced life cycle impacts of building materials, impacts on the atmosphere, product transparency, and waste management.
Public Review Draft

Proposed Addendum m to Standard 189.1-2014

Standard for the Design of High-Performance Green Buildings
Except Low-Rise Residential Buildings

First Public Review (February 2016)
(Draft Shows Proposed Changes to Current Standard)

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

This addendum augments provisions for connection of on-site walkways and bicycle paths to street sidewalks and bicycle paths. Facilitating pedestrian and bicycle connectivity reduces the need to drive short distances, thereby reducing transportation impacts, such as air pollution and greenhouse gas emissions. In addition, such connectivity can improve building occupant productivity by providing opportunities to walk or cycle to get places while improving health through physical activity.

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 m to 189.1-2014

Modify Section 5.3.7.1 as follows:

5.3.7.1 Pedestrian and Transit Bicycle Connectivity

5.3.7.1.1 Pedestrian Walkways. Each primary building entrance shall be provided with a pedestrian walkway that extends to either a public way or a transit stop. Walkways across parking lots shall be not less than 5 ft (1.5 m) in width and shall be clearly delineated.

A public-use walkway shall be provided along the length of the adjoining public way frontage of the building project site and such walkway shall connect to adjacent public-use walkways.

5.3.7.1.2 Bicycle paths. On-site bicycle paths shall be designed to connect bicycle parking areas to existing and planned off-site bicycle path(s) adjacent to the building project.
7.0 TEST PROCEDURES – CHARGE ACCUMULATION MEASUREMENT

7.1 Test Preparations – Dynamic Test

7.1.1 It is often not practical to measure charge directly. Therefore, the effects of charge will be evaluated using a voltage sensor (electrostatic voltmeter) to measure the voltage associated with a given charge.

7.1.2 For a fixed amount of charge, the voltage on a device changes (inversely) with its proximity to ground. During the measurement process the positions of the device, the voltage sensor, and ground should be fixed.

7.1.3 Install the voltage sensor using Annex C for guidance.

7.1.4 During all testing, test personnel within 2 meters (6.757 feet) of the AHE should be properly grounded to the same potential as the machine under test. Reference ANSI/ESD S16.1.

7.1.5 Before making any measurements, the AHE to be evaluated should be cleaned in accordance with the manufacturer’s recommendations.

7.1.6 The AHE and all probes shall be in their normal operating environment (i.e. temperature and humidity) for a minimum of 24 hours preceding any testing.

7.2 Correlation Sample – Integrated Circuit

7.2.1.1 Select a representative device to be measured.

7.2.1.2 Attach conductive material, such as aluminum foil, to the surface of the device to be measured. Keep the conductive material the same size and shape as the device to be measured in the actual AHE. Isolate the conductive material from any grounded or dissipative surface.

NOTE: Some ICs have the case/lid connected to a ground pin whereby this measurement will not work.

7.2.1.3 Turn off any ionizers in the vicinity of the test that may be operating in the vicinity.

7.2.1.4 Apply 500 volts ± 10% to the conductive material, referenced to the third wire safety ground (i.e., the EGC).

NOTE: Other voltages may be used.

7.2.1.5 Position the probe over the device and adjust spacing for the maximum reading or to the manufacturer’s specified spacing. Record spacing and orientation as well as the voltage reading.

NOTE: A maximum reading lower than the applied voltage may be an indication that the instrumentation’s probe aperture is too large for the size of the device being measured. (See Annex B.) Also, be aware that the voltage on the test device may decay over time due to its resistance to ground or due to surface contamination. The voltage reading should be made before this effect is of appreciable magnitude, for example, less than 10%.

Caution: Electrostatic voltmeter probes have a voltage on the probe that is shown on the voltmeter display. Avoid touching the conductive elements of the probe.

7.2.1.6 Record the voltage measurements, spacing, and location for each probe position that will be used in measuring devices on the AHE.

NOTE: The ratio of the measured voltage to the applied voltage (for a known spacing) is important. It will allow calculations from later measurements in Section 7.3 to help determine the apparent voltage present on the device measured.

7.2.1.7 Turn on any ionizers that were turned off in 7.2.1.3.
7.2.2 Correlation Sample – PC Board

7.2.2.1 Select a sample of the product to be monitored – populated or unpopulated.

7.2.2.2 Attach conductive material, such as aluminum foil to the surface to be measured. Keep to same size and shape as surface to be measured in actual AHE (e.g., make a rectangle out of foil the same size as one of the devices on the production PC board). Isolate the conductive material from any grounded or dissipative surface.

NOTE: Some ICs have the case/lid connected to a ground pin.

7.2.2.3 Turn off any ionizers in the vicinity of the test that may be operating in the vicinity.

7.2.2.4 Apply 500 volts ± 10% to the conductive material, referenced to the third wire safety ground (i.e., the EGC).

NOTE: Other voltages may be used.

7.2.2.5 Position the probe over the PC board and adjust spacing for the maximum reading or to the manufacturer’s specified spacing. Record spacing and orientation as well as the voltage reading.

NOTE: A maximum reading lower than the applied voltage may be an indication that the instrumentation’s probe aperture is too large for the size of the device being measured. (See Annex B.) Also, be aware that the voltage on the test device may decay over time due to its resistance to ground or due to surface contamination. The voltage reading should be made before this effect is of appreciable magnitude, for example, less than 10%.

Caution: Electrostatic voltmeter probes have a voltage on the probe that is shown on the voltmeter display.

7.2.2.6 Record the voltage measurements, spacing, and location for each probe position that will be used in measuring devices on the AHE.

NOTE: The ratio of the measured voltage to the applied voltage (for a known spacing) is important. It will allow calculations from later measurements in Section 7.3 to help determine the apparent voltage present on the device measured.

7.2.2.7 Turn on any ionizers that were turned off in 7.2.2.3.

7.2.3 Correlation Testing

7.2.3.1 Run the AHE in normal operating mode.

7.2.3.2 Use the correlation sample from 7.2.1.2 or 7.2.2.2.

7.2.3.3 Turn off any ionizers in the vicinity of the test that may be operating in the vicinity.

7.2.3.4 Apply 500 volts ± 10% to the conductive material, referenced to the third wire safety ground (EGC).

7.2.3.5 Make sure the probe is in the same orientation and has the same spacing as recorded in step 7.2.1.5.

7.2.3.6 Connect and setup the storage oscilloscope to capture the voltmeter output waveform for the charged device that will pass by the probe. Pass the device or board through the AHE and capture the waveform.

7.2.3.7 Compare the peak voltage of the captured waveform to the applied voltage and to the voltages recorded in step 7.2.1.6.

7.2.3.8 Turn on any ionizers that were turned off in step 7.2.3.3.
7.3 Test Preparations – Static Test

7.3.1 It is often not practical to measure charge directly. Therefore, the effect of charge will be evaluated using an HIDVM to measure the voltage on the device pins or PCB contacts associated with a given charge.

7.3.2 For a fixed amount of charge, the voltage on a device changes (inversely) with its proximity to ground. During the measurement process the position of the device should be fixed as close to the point it will contact ground as practical, while still allowing access to the HIDVM measurement probe.

7.3.3 During all testing, test personnel within 2 meters (6.67 feet) of the AHE should be properly grounded to the same potential as the machine under test. Reference ANSI/ESD-S1.1.

7.3.4 Before making any measurements, the AHE to be evaluated should be cleaned in accordance with the manufacturer’s recommendations.

7.3.5 The AHE and all probes shall be in their normal operating environment (i.e., temperature and humidity) for a minimum of 24 hours preceding any testing.

NOTE: Minimum humidity conditions usually result in the highest voltage readings.

ANNEX A (INFORMATIVE) – SUGGESTED EQUIPMENT GROUNDING GUIDELINES

The following are suggested guidelines for AHE design, construction, and testing.

- All stationary/fixed conductive machine elements are typically grounded to the machine chassis within 1 ohm.
  NOTE: 1 ohm is considered a realistic guideline but may not be satisfactory for high current operation modes (e.g., motors) or fault modes (shorts to chassis components)—lower resistance connections may be necessary to limit voltages to acceptable levels.

- All insulative materials within 15 cm (6 inches) of a device’s critical path can be shielded, coated, plated, or otherwise rendered static safe.
  NOTE: With today’s technology, many plastics can be made dissipative or conductive with the addition of suitable compounds, and the dissipative plastic can then be grounded.

- All dissipative and conductive materials within 15 cm (6 inches) of static sensitive devices should be grounded.

- Equipment that handles sensitive devices should have designated operator ground point(s).

- Where possible, all machine components that contact device leads should be static dissipative and grounded to prevent CDM (charged device model) type damage.

- Where possible, all machine components separated from the chassis by bearings of any kind (solid, rolling, radial linear, etc.) should be grounded in a manner that will provide a constant ground path (1 megohm or less) regardless of rotary or transitional rate. This may include but is not limited to: flexible ground conductors (i.e. braided cables), metal brushes, graphite commutators, beryllium copper commutators, conductive greases, etc. Measurements of continuity on these assemblies when idle or powered-down may not take into account intermittent connections of moving parts.

- Any surfaces on which operators may be prone to place devices should be static dissipative and grounded.

- Pneumatic and electrical lines should be constrained in order to minimize rubbing (and hence tribocharging) between themselves and other machine components.

- Pneumatic lines operating in close proximity (15 cm [6 inches]) to product should be conductive or static dissipative and grounded, wherever possible. Otherwise, they should be shielded and grounded using braided shielding.

- Wire bundles in close proximity (15 cm [6 inches]) to product should be shielded and grounded using braided shielding.
- Device pick-up mechanisms such as vacuum cups, nozzles and grippers should be conductive or static dissipative and grounded. Pick-up mechanisms contacting devices should do so with a minimal contact area and velocity, within reason, in order to minimize tribocharging on device packages.
- Designated ESD ground points should all be directly connected to the EGC, with a resistance of 1 ohm or less.
- Where possible, all machine conductors (wires and components) which are relied upon to provide a ground path, shall be connected to the machine’s EGC in a manner which will provide sufficient strength such that it may not be inadvertently disconnected. ESD ground path conductors should be braided wire where possible.
- For anodized surfaces - ensure that the underlying conductive substrate is connected to the EGC.

ANNEX B (INFORMATIVE) – SELECTION OF ELECTROSTATIC VOLT METERS
The important considerations for selecting an electrostatic voltmeter are:

a) the required electrostatic voltage measurement range;
b) the required measurement response time;
c) the required measurement accuracy;
d) the spatial resolution.

1. The electrostatic voltmeter should have a sufficient voltage range that will accommodate consistent with the anticipated levels of voltage potential on surfaces or devices being processed by the AHE. A selection of too high a measurement range may sacrifice voltage resolution at the low end of the range due to noise, while selection of too low of a measurement range may cause out-of-range-operation (saturation).

2. The required response time of the electrostatic voltmeter must be carefully selected in applications where (a) surfaces with different voltage levels are rapidly scanned by moving the electrostatic voltmeter probe across the surfaces, or (b) where charged devices are moving quickly past the probe. For full measurement accuracy, the electrostatic voltmeter needs to have a response time (10% to 90%) that is four times faster than the time period that the surface / device is under the probe.

   Example: If the time from the leading edge of the device passing under the probe until the trailing edge of the device passing under the probe is 12 milliseconds, then the electrostatic voltmeter should have a response time of 3 milliseconds or faster.

3. The accuracy of an electrostatic voltmeter measurement is dependent on factors such as:

   A. The spacing distance between the measured surface and the probe;
      In general, if the probe’s sensing electrode aperture is distance D (e.g., 2 mm) away from the surface / device, the probe will resolve an area on the surface that is approximately 5D (e.g., 10 mm) in diameter.

   B. The presence of electrostatic fields from extraneous charge sources (not related to the surface/device) to the probe.
      Keeping the probe very close to the surface-under-test during a measurement significantly limits the effects of extraneous electrostatic fields on the accuracy of the measurement.

   C. The size and geometry of the measured surface / device in relation to the size and geometry of the probe’s sensing electrode aperture.

Reference the equipment manufacturer for more information.
1 Purpose, scope, and normative references

1.3 Normative references

The following documents contain procedures referenced in this document. The following documents contain requirements that, by reference in this text, constitute requirements of this 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.

ASTM E29-08 1

ASTM E29-08 1 Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications


EPA SW 846 Test Methods for Evaluating Solid Waste, Physical Chemical Methods, Method 3050 B – Acid Digestion of Sediments, Sludges, and Soils 2

EPA SW846, Method 3052 - Microwave Assisted Acid Digestion of Siliceous and Organically Based Matrices 2

EPA SW 846, Method 6010C Inductively Coupled Plasma-Atomic Emission Spectrometry 2

Safe Drinking Water Act 2


1 ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2859 <www.astm.org>.
2 Environmental Protection Agency, Environmental Monitoring and Support Laboratory, Cincinnati, OH 45268 <www.epa.gov>.

Page 1 of 1
5  Design acceptance criteria

5.2.5.3 The acceptance criteria shall be 10,000 cycles without leaks for steel tanks and 42,000 - 33,000 cycles without leaks for composite tanks.

6  Minimum construction performance design method criteria

6.1.3 For steel tanks, the hydrostatic pressure shall gradually be increased until the required test pressure is reached. The test vessel shall be located between the pressure source and the pressure measurement device. It shall be held for 15 minutes. There shall be no sign of external leakage.

6.1.4 For composite tanks, a cyclic pressure test shall be performed in accordance with 5.2.5.2. The acceptance criteria shall be 33,000 cycles without leakage. After the cyclic pressure test, a hydrostatic pressure test shall be performed. The hydrostatic test pressure in the test vessel shall be increased at a rate not exceeding 20 psig/sec (140 kPa/sec) until the required hydrostatic test pressure is achieved. The test vessel shall be located between the pressure source and the pressure measurement device, and the test pressure shall be held at the required hydrostatic test pressure for 5 seconds. There shall be no sign of external leakage.
### Default Ballot

**ANSI/TIA-568-C.2-1, Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100 Ohm Category 8 Cabling**

This default ballot is a result of the comment resolution held regarding ANSI/TIA-PN-568-C.2-1 and is limited to 6 specific technical changes, and one rejected technical comment listed below. Other comments submitted to the second default ballot regarding ANSI/TIA-PN-568-C.2-1 were resolved editorially. The results of this ballot consisted of 25 “approve” votes, 1 “approve with comment” vote, 3 “disapprove with comments” votes, and 10 “abstain” votes.

1/25/2016 comments for PN-568-C.2-1, Draft 3.3, Balanced Twisted-Pair Telecommunications Cabling and Components Standard, Addendum 1: Specifications for 100 Ohm Category 8 Cabling, to be published as ANSI/TIA-568-C.2-1, Third default ballot

#### Table

<table>
<thead>
<tr>
<th>Page</th>
<th>Line</th>
<th>Clause</th>
<th>E/T/ TN</th>
<th>ID</th>
<th>Comment (rationale)</th>
<th>Proposed change (specific; add, delete. From-to)</th>
<th>Resolution</th>
</tr>
</thead>
</table>
| 31   | 1089 | 6.2. 15 Channel TLC | TN   | CS-01 | Since the TCL and ELTCTL for screened pair cables were relaxed, it is now possible to make a non-compliant channel from compliant components. To correct this, the ISO screened pair channel requirements should be used, for both the channel and the permanent link. | Change requirement from 23-17log(f/100) To 50-17log(f) In footnote 1, change 40 to 30 | Accept with edits. 
Change requirement from 23-17log(f/100) To 50-17log(f) In footnote 1, change 40 to 30 |
| 32   | 1098 | 6.2. 17 channel ELT CTL | TN   | CS-02 | Since the TCL and ELTCTL for screened pair cables were relaxed, it is now possible to make a non-compliant channel from compliant components. To correct this, the ISO screened pair channel requirements should be used, for both the channel and the permanent link. | Change requirement from 46.8-20log(f) To 34.6-20log(f) Add a footnote with a low frequency plateau of 30 dB Keep the high frequency plateau of 3 dB, now starting at 38 MHz. | Accepted |

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

ID: Company with comment # (do not automate comment #)
| 46  | 1306 | 6.3.15 Permanent link TCL | TN | CS-03 | Since the TCL and ELTCTL for screened pair cables were relaxed, it is now possible to make a non-compliant channel from compliant components. To correct this, the ISO screened pair channel requirements should be used, for both the channel and the permanent link. | Change requirement from 23-17log(f/100) To 50-17log(f) In footnote 1, change 40 to 30 | Accept with edits. Change requirement from 23-17log(f/100) To 50-17log(f) In footnote 1, change 40 to 30 Hi f plateau of 3 dB |
| 47  | 1315 | 6.3.17 TN | CS-04 | Since the TCL and ELTCTL for screened pair cables were relaxed, it is now possible to make a non-compliant channel from compliant components. To correct this, the ISO screened pair channel requirements should be used, for both the channel and the permanent link. | Change requirement from 46.8-20log(f) To 34.6-20log(f) Add a footnote with a low frequency plateau of 30 dB Keep the high frequency plateau of 3 dB, now starting at 38 MHz. | Accepted |
| 68  | 1644 | 6.5.16 TN | Leviton | Previous requirements where already relaxed, and already marginally backwards compatible to lower category products. An argument has been made that since category 8 is a fully shielded system, balance requirements are not of significant importance. However, a problem can arise when cat 8 cable (with poorer balance), is used in conjunction with unshielded lower category products. CM signals can propagate into these cables and causing an increase in alien crosstalk coupling between these cables. | Revert back to previous requirements for horizontal cable TCL and ELTCTL. Revert back to previous requirements for channel and permanent link ELTCTL. | Rejected – no consensus for change. (Alternate proposal for TCL was also rejected: 40 to 2000 MHz 28-15log(f/100), min 10 (sloped part same as before Miami, hi f plateau added) (Leviton believes this proposal would accommodate the concern raised originally.)) |
Having two levels of requirements for different types of shielding would be confusing for end users, and is not needed for any technical reason. Therefore, a relaxed limit should be adopted for the TCL, TCTL, and ELTCTL requirements. In this case adopting ISO limits for all types of shielding would help harmonization, and fix the current issue.

### Table 17 - Channel TCL

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>TCL (dB)¹,²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 2000</td>
<td>5023 - 17log(f/100)</td>
</tr>
</tbody>
</table>

¹ Calculations that result in category 8 channel TCL values greater than 3040 dB shall revert to a requirement of 3040 dB minimum.

² Calculations that result in category 8 channel TCL values less than 3 dB shall revert to a requirement of 3 dB minimum.

### Table 19 - Channel ELTCTL

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>ELTCTL (dB)¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 38455</td>
<td>34.6465 - 20log(f)</td>
</tr>
<tr>
<td>38455 &lt; f ≤ 2000</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Calculations that result in category 8 channel ELTCTL values greater than 30 dB shall revert to a requirement of 30 dB minimum.

### Table 41 – Permanent link TCL

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>TCL (dB)¹,²</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 2000</td>
<td>5023 - 17log(f/100)</td>
</tr>
</tbody>
</table>

¹ Accept with edits.

Unify the cable TCL and ELTCTL specs to be the present X/FTP specs for all cables. (Delete X/UTP requirements, entire row, and delete X/FTP in the first column and in the note 2.) Also include tables 3 and 4 as modified in the default ballot.
1 Calculations that result in category 8 permanent link TCL values greater than 3040 dB shall revert to a requirement of 3040 dB minimum.

2 Calculations that result in category 8 permanent link TCL values less than 3 dB shall revert to a requirement of 3 dB minimum.

<table>
<thead>
<tr>
<th>Category 8</th>
<th>Frequency (MHz)</th>
<th>ELTCTL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 38155</td>
<td>34.6 - 20log(f)</td>
<td>3</td>
</tr>
<tr>
<td>38155 &lt; f ≤ 2000</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Table 43 – Permanent link ELTCTL

1 Calculations that result in category 8 permanent link ELTCTL values greater than 30 dB shall revert to a requirement of 30 dB minimum.

Table 77 - Horizontal cable TCL

<table>
<thead>
<tr>
<th>Category 8 X/UTP</th>
<th>Frequency (MHz)</th>
<th>Horizontal cable TCL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 2000</td>
<td>28 - 15log(f/100)</td>
<td></td>
</tr>
<tr>
<td>Category 8 X/FTP</td>
<td>1 ≤ f ≤ 2000</td>
<td>20 - 15log(f/100)</td>
</tr>
</tbody>
</table>

1 Calculations that result in category 8 cable TCL values greater than 40 dB shall revert to a requirement of 40 dB minimum.

2. Calculations that result in category 8 X/FTP cable TCL values less than 7 dB shall revert to a requirement of 7 dB minimum for individually shielded pairs.

Table 79 - Horizontal cable ELTCTL

<table>
<thead>
<tr>
<th>Category 8 X/UTP</th>
<th>Frequency (MHz)</th>
<th>Horizontal cable ELTCTL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 129</td>
<td>47.2 - 20log(f)</td>
<td>5</td>
</tr>
<tr>
<td>129 &lt; f ≤ 2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category 8 X/FTP</th>
<th>Frequency (MHz)</th>
<th>Horizontal cable ELTCTL (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ≤ f ≤ 56</td>
<td>40 - 20log(f)</td>
<td>5</td>
</tr>
<tr>
<td>56 &lt; f ≤ 2000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BSR/UL 5C, Standard for Safety for Surface Metal Raceways and Fittings for Use with Data, Signal, and Control Circuits

PROPOSALS

1. Revision to Installation Instructions

2.4 Installation

2.4.1 The method of installation, as outlined in the instructions accompanying the raceway and fittings or in a statement indicating where to find instructions on the manufacturer’s website, shall be practical and feasible under probable conditions met in practice.

18. Details

18.1 The smallest unit shipping container for raceways and raceway fittings (including fixture boxes, device boxes, and transition fittings added to the raceway system independent of the raceway installation itself) shall be provided with instructions, or a statement indicating where to find instructions on the manufacturer’s website, so that intended installation of the raceway and/or fitting can be accomplished.

Exception: Installation instructions for elbows, tees, inside and outside corners, and other fittings possibly included in the initial installation of the raceway system are not required to be provided with these products when they are provided as part of the installation instructions for the overall raceway system.

2. Updates to External Standards References

15.3 A laboratory type burner having a tube with a length of 3.94 ±0.39 inch (100 ±10 mm) and an inside diameter of 0.374 ±0.012 inch (9.5 ±0.3 mm) is to be used. The barrel is not to be equipped with any end attachments, such as stabilizers. The burner shall comply with Standard Specification for Laboratory Burner Used for Small-Scale Burning Tests on Plastic Materials, ASTM D 5025. Adjust the burner to produce a 3/4 inch nominal (20 ±1 mm) yellow-tipped blue flame. Increase the air supply until the yellow tip just disappears. Measure the height of the flame again and readjust it as necessary. The test flame shall be calibrated in accordance with the Standard Practice for Calibration Confirmation of 20-mm (50-W) and 125-mm (500-W) Test Flames for Small-Scale Burning Tests on Plastic Materials, ASTM D 5207, at least once a week and when the gas supply is changed, test equipment is replaced, or when data is questioned.

15.5 Two 30-second applications of the tip of the flame are to be made to each specimen with a 1-minute interval between the applications. A supply of technical-grade methane gas (minimum 98 percent pure) is to be used with a regulator and meter for uniform gas flow. The methane gas supply to the burner shall be arranged as in Figure 15.1 and adjusted to produce a gas flow rate of 105 ml/min with a back pressure less than 0.39 inch (10 mm) of water. See Standard Practice for Confirmation of 20-mm (50-W) and 125-mm (500-W) Test Flames for Small-Scale Burning Tests on Plastic Materials, ASTM D 5207. The flow meter shall be a rotometer calibrated in accordance with the Standard Practice of Rotometer Calibration, ASTM D3195/D3195M, with correlation curves appropriate for the gas or a mass flow meter with ±2 percent accuracy.

Exception: Natural gas having a heat content of approximately 37 MJ/m³ at 23°C (1000 Btu/ft³ at 73.4°F) provides similar results. Technical grade methane shall be used in case of dispute.
BSR/UL 96, Standard for Safety for Lightning Protection Components, UL 96

2. Copper Alloys and Content

5.1 Class I components shall be made of copper, copper alloy, aluminum or aluminum alloy with hardware made from stainless steel, unless otherwise required in this Standard, as outlined below:

a) Copper conductors and air terminals shall be made from electrical grade copper, C11000, generally designated as being 95% conductivity when annealed.

b) Aluminum conductors shall be made of electrical grade aluminum, with a minimum chemical composition of 99% aluminum.

c) Aluminum air terminals, stampings and couplings, shall be made with an alloy having a minimum chemical composition of 90% aluminum.

d) Stainless Steel hardware, such as nuts, bolts, washers, screws, threaded rods, and fasteners shall be of minimum 18-8 grade (Chromium & Nickel content) with acceptable alloys being 302, 303 and 304.

e) All Copper Alloys other than brass shall have a minimum copper content of 80%.

f) Aluminum alloys suitable for use in castings shall have a minimum aluminum content of 85%.

g) Brass alloys suitable for use in couplings, connectors, bases and fittings shall have a minimum copper content of 60%.
BSR/UL 498A, Standard for Current Taps and Adapters

1. Addition of requirements for use guidelines

PROPOSAL

7.13 Series connection prohibited

7.13.1 A device shall be marked with the following or equivalent statements, “Series connection to other current tap or relocatable power tap devices is prohibited.”

8.1A Use

8.1A.1 A current tap is intended to be connected to a permanently installed branch receptacle outlet.

8.1A.2 A current tap is not intended to be series connected (daisy chained) to other current tap or relocatable power tap (RPT) devices.

8.2.5 A device shall not be series connected (daisy chained) to other current tap or relocatable power tap devices.
BSR/UL 1310, Standard for Class 2 Power Units

1. Addition of requirements for a flush device cover plate with integral power supply employing spring contact terminals

PROPOSAL

81.2 These requirements are applicable to flush-type, parallel blade construction of the ANSI/NEMA 1-15R or 5-15R configurations only. These requirements do not cover products incorporating a flush device cover plate with connection means other than plug blades.

81.2.1 A flush device cover plate that employs a spring contact terminal intended for electrical connection to a duplex receptacle shall comply with all of the following:

a) A flush device cover plate that employs a spring contact terminal intended for electrical connection to a duplex receptacle shall be designed to make electrical contact with the wire-binding screws of the receptacle as specified in the manufacturer’s installation instructions (see 88.6). Compliance shall be determined by inspection and by the Contact Temperature Test of the Standard for Attachment Plugs and Receptacles, UL 498.

b) The spring contact terminal shall be designed to prevent incidental electrical contact with the outlet box; and

c) The spring contact terminal shall be designed to allow proper seating of the cover plate over the outlet box after installation.

88.6 The instructions for an illuminating cover plate employing spring contact terminals shall identify the following, which may be in the form of instructions and pictograms:

a) The intended duplex receptacle; and

b) Any other limitations of use for the product.
BSR/UL 1773, Standard for Safety for Termination Boxes

1. Revisions to introduce requirements for self-illuminated mounting posts and pedestals and to incorporate a reference to the Rain and Splash Test detailed in the Standard for Power Outlets, UL 231.

PROPOSAL

7.1.3 Where intended for outdoor use, the mounting post or pedestal shall comply with the requirements of the Standard for Enclosures for Electrical Equipment, Non-Environmental Considerations, UL 50 and the Standard for Electrical Equipment, Environmental Considerations, UL 50E for the intended use. Mounting posts or pedestals with an integral door or cover intended to provide environmental protection of factory or field installed receptacles shall provide environmental protection with and without attachment plugs connected. See Rain and Splash Test specified in Section 22A.

7.7 Luminaires (illuminated mounting posts and pedestals)

7.7.1 A mounting post or pedestal provided with luminaire(s) shall comply with the requirements specified in 7.7.2, and the applicable requirements in Appendix A.

7.7.2 Luminaire(s) that may be supplied by a source separate from equipment intended to be mounted to the post or pedestal shall comply with the following:

a) Luminaire wiring compartment(s) and any lamp(s) that are intended for field replacement shall be separated from other wiring compartments provided in the post or pedestal by a barrier to provide separation of circuits.

b) The mounting post or pedestal shall be provided with a field installable label that specifies that the equipment may be supplied by multiple sources. See 26.10.2.

22A Rain and Splash Test

22A.1 A mounting post or pedestal provided with a cover or door to provide environmental protection of receptacles (whether intended to be installed in the field or in the factory) shall be subjected to the Rain and Splash Test as specified in the Standard for Power Outlets, UL 231.

23A Illuminated Mounting Posts and Pedestals

23A.1 Temperature test

23A.1.1 A mounting post or pedestal provided with luminaire(s) shall be subjected to the Temperature Test as specified in the Outline of Investigation for Multioutlet Assemblies, UL 111.
26.10 Illuminated mounting posts and pedestals

26.10.1 Luminaire(s) provided with a mounting post or pedestal shall be marked for connection to a Listed branch-circuit type overcurrent protection device, such as a circuit breaker or a fuse that is rated 20 amperes maximum. Luminaires shall also be marked, in a location that is visible during installation and replacement of lamps, with electrical rating in volts and watts.

26.10.2 An illuminated mounting post or pedestal that may be supplied by multiple sources, as specified in 7.7.2, shall be provided with a field installable label that is marked with the word “WARNING” and the following or equivalent: “Multiple supply sources - disconnect all sources before servicing.”

APPENDIX A

Standards for Components

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

Title of Standard - UL Standard Designation

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<tr>
<th>Title of Standard</th>
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<tr>
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