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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: July 26, 2015

AABC (Associated Air Balance Council)

New Standard

BSR/AABC MN-1-201x, AABC National Standards for Total System Balance, 7th Edition (new standard)

After the first public comment period, a revision has been proposed to Chapter 5 - Leakage Testing, Section 5.6.2 - Casing Deflection Test. The revision adds an exclusion to the Casing Deflection Test for central-station air-handling units that are shipped as complete assemblies and certified under AHRI's AHUC certification program, and also adds a reference to AHRI Standard 1350. Only comments on the limited proposed revisions are being considered at this time. Comments must be submitted on a form provided by AABC.

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

Send comments (with copy to psa@ansi.org) to: Raymond Bert, (202) 737-0202, ray@aabc.com

ASME (American Society of Mechanical Engineers)

New Standard

BSR/ASME PTC 4.3-201x, Air Heaters (new standard)

This Code applies to all air heaters used in industrial application, for example, air heaters servicing steam generators and industrial furnaces. This specifically includes:

- (a) Combustion gas-to-air heat exchanger including air heaters with multi-section air streams.
- (b) Air preheater coils utilizing noncondensing (single-phase) steam, water, or other hot fluids.

This code does not cover direct-fired air heaters or gas-to-gas heat exchangers. In the latter application, this Code may be used to determine both the thermal and pressure-drop performance while alternate methods of leakage measurement should be agreed upon between the parties. This code also does not cover heat exchangers where the heating fluid is condensed while passing through the heater. Air heaters in parallel shall be tested individually (wherever possible) for purposes of checking standard of design performance.

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

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME B16.1-201x, Gray Iron Pipe Flanges and Flanged Fittings - Classes 25, 125, and 250 (revision of ANSI/ASME B16.1-2005)

This Standard covers Classes 25, 125, and 250 Gray Iron Pipe Flanges and Flanged Fittings. It includes

- (a) pressure-temperature ratings;
- (b) sizes and method of designating openings of reducing fittings;
- (c) marking;
- (d) materials;
- (e) dimensions and tolerances;
- (f) bolting and gaskets; and
- (g) pressure testing.

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

Send comments (with copy to psa@ansi.org) to: Carlton Ramcharran, (212) 591-7955, ramcharranc@asme.org

IIAR (International Institute of Ammonia Refrigeration)

Revision

BSR/IIAR 2-201x, Standard for Safe Design of Closed-Circuit Ammonia Refrigeration Systems (revision, redesignation and consolidation of ANSI/IIAR 2-2008 and ANSI/IIAR 2-2012, Addendum B)

The standard is being revised and shall provide the minimum safe requirements for application and design of ammonia refrigeration systems.

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

Send comments (with copy to psa@ansi.org) to: Tony Lundell, (703) 312-4200, tony_lundell@iiar.org

IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

Revision

BSR/IICRC S500-201x, Standard and Reference Guide for Professional Water Damage Restoration (revision of ANSI/IICRC S500-2006)

This Standard provides a specific set of practical standards for water damage restoration. It does not attempt to teach comprehensive water damage restoration procedures; rather, it provides the foundation for basic principles of proper restoration practices. It does not attempt to include exhaustive performance characteristics or standards for the manufacture or installation of structural components, materials, and contents (personal property).

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

Send comments (with copy to psa@ansi.org) to: Mili Washington, (702) 850-2710, mili@iicrc.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 705-201x, Standard for Safety for Power Ventilators (revision of ANSI/UL 705-2013)

(1) Addition of a new appendix to provide examples of controls intended to be used as operating or protective controls.

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

Send comments (with copy to psa@ansi.org) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 858-201x, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2015a)

(1) New requirements for radiant, open-wire/ribbon heating elements guarded by mesh barriers.

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

Send comments (with copy to psa@ansi.org) to: Amy Walker, (847) 664-2023, Amy.K.Walker@ul.com

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

BSR/UL 1203-201X, Standard for Safety for Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations (Proposal dated 06-26-15) (revision of ANSI/UL 1203-2015)

This proposal includes (1) Revisions to 10.2.1 and Section 34; and (2) Revisions to 15.1 and Section 24 to align UL 1203 with the current ferrous metal electrical enclosure corrosion protection requirements in UL 50E.

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

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

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

BSR/UL 1647-201x, Standard for Motor-Operated Massage and Exercise Machines (revision of ANSI/UL 1647-2014a)

(1) Clarification of maximum normal operation for a hand-held massager or vibration device as operation with no load applied; (4) Clarification that automatically and remotely controlled appliance requirements are specific to only those parts of the appliance that are automatically or remotely controlled; (7) Revision to specify the correct reference standard for non-class 2 power supplies, UL 1012, Standard for Power Units Other than Class 2.

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

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

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

BSR/UL 8750-201X, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2015a)

The following topics for the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750, are being recirculated: (3) Clarify voltage labeling requirements for constant current systems; (4) Add Supplement SA - Requirements for safety-related electronic circuits; (5) Revise footnote a in 3.24 to correct maximum ac + dc voltages for wet locations; (7) Add Supplement SC - Requirements for Temperature Limited (Type TL) LED drivers; (8) Revise polymeric material requirements including requirements for secondary optics; (9) Add Supplement SD - Requirements for light-emitting diode packages.

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

Send comments (with copy to psa@ansi.org) to: Heather Sakellariou, (847) 664-2346, Heather.Sakellariou@ul.com

Comment Deadline: August 10, 2015**API (American Petroleum Institute)****Reaffirmation**

BSR/GPA 2172/API MPMS CH. 14.5, 3rd Edition-2007 (R201x), Calculation of Gross Heating Value, Relative Density, Compressibility and Theoretical Hydrocarbon Liquid Content for Natural Gas Mixtures for Custody Transfer (reaffirmation of ANSI/GPA 2172/API MPMS CH. 14.5, 3rd Edition-2007)

Presents procedures for calculating, at base conditions from composition, the following properties of natural gas mixtures: gross heating value, relative density (real and ideal), compressibility factor, and theoretical hydrocarbon liquid content, which in the U.S. is typically expressed as GPM, the abbreviation for gallons of liquid per thousand cubic feet of gas.

Single copy price: \$72.00

Obtain an electronic copy from: jonesj@api.org

Order from: Jennifer Jones, (202) 682-8073, jonesj@api.org

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

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

BSR ASA S3.52-201x, Measurements of the Threshold of Hearing and Signal Detectability in a Sound Field (new standard)

Covers requirements, conditions, and procedures for threshold-of-hearing measurements in a sound field. May also be used for conducting other sound-field hearing tests and as a research tool for assessing the effects of listening conditions and headgear worn by the listener on detectability of various test signals. Three sound fields are referenced: free sound field, quasi-free sound field, and diffuse sound field. Test signals include frequency-modulated/warble tones and narrow-band noises.

Single copy price: \$120.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Susan Blaeser, (631) 390-0215, asastds@acousticalsociety.org

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

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

BSR/ASAE S355.5 MONYEAR-201x, Safety Practices for Agricultural Front-End Loaders (revision and redesignation of ANSI/ASAE S355.4-2010)

This Standard provides a uniform method of warning owners, bystanders, and operators of the potential hazards encountered in the operation and servicing of agricultural tractors equipped with agricultural front-end loaders. It emphasizes that hazard control and accident prevention are dependent upon the awareness, concern, and prudence of personnel involved in the operation, transport, and maintenance of equipment. Annex A includes safe practice messages to enhance safety in the operation and servicing of such equipment.

Single copy price: \$55.00

Obtain an electronic copy from: vangilder@asabe.org

Order from: Carla VanGilder, (269) 932-7015, vangilder@asabe.org

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

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

BSR/ASHRAE Standard 41.7-201x, Standard Methods for Gas Flow Measurement (revision of ANSI/ASHRAE Standard 41.7-1984 (R2006))

This revision of ANSI/ASHRAE Standard 41.7-1984 expands the scope of this standard to cover the breadth of gas flow measurement devices used for testing heating, ventilating, air-conditioning, and refrigeration systems and components, and to include field gas flow measurements in addition to laboratory gas flow measurements.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

ASPE (American Society of Plumbing Engineers)**Revision**

BSR/WQA/ASPE S-803-201x, Sustainable Drinking Water Treatment Systems (revision of ANSI/WQA/ASPE S-803-2014)

This standard applies to products that treat or otherwise produce water for human consumption (e.g., drinking and/or food/beverage preparation) or recreation, but excludes products that treat wastewater. Revisions added new sections on sustainability guidelines for UV systems, dispensers/fountains, and electrical components, and added definitions that are included in these sections.

Single copy price: Free

Order from: Gretchen Pienta, (847) 296-0002, gpienta@aspe.org

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

ATIS (Alliance for Telecommunications Industry Solutions)**Revision**

BSR/ATIS 1000067-201x, IP NGN Enhanced Calling Name (eCNAM) (revision of ANSI/ATIS 1000067-201x)

This American National Standard defines the Calling Name Delivery service in the IMS-based Next Generation Network (NGN) and in the mixed NGN-PSTN environment. The enhanced CNAM service includes additional access protocols, an optional longer name field, and the capability for the network to verify the validity of the received name information.

Single copy price: \$60.00

Obtain an electronic copy from: kconn@atis.org

Order from: Kerrienne Conn, (202) 434-8841, kconn@atis.org

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

CEA (Consumer Electronics Association)**Reaffirmation**

BSR/CEA 109-D-2010 (R201x), Intermediate Frequencies for Entertainment Receivers (reaffirmation of ANSI/CEA 109-D-2009)

CEA-109-D specifies Intermediate Frequencies (IFs) to be used in Standard Broadcast (AM), FM, and TV broadcast receivers. In CEA-109-D, the term, Intermediate Frequency (IF), refers to the dominant interference-rejecting and passband-shaping circuits in receiver front-ends.

Single copy price: \$49.00

Obtain an electronic copy from: standards@ce.org

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@ce.org; dwilson@ce.org

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

CEA (Consumer Electronics Association)**Revision**

BSR/CEA 2042.1-B-201x, Wireless Power Glossary of Terms (revision and redesignation of ANSI/CEA 2042.1-A-2012)

This document specifies terms and definitions for wireless power.

Single copy price: \$61.00

Obtain an electronic copy from: standards@ce.org

Order from: standards@ce.org

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

CSA (CSA Group)**Reaffirmation**

BSR/IAS LC-2-1996 (R201x), Direct Gas-Fired Heaters for Agricultural Animal Confinement Buildings (reaffirmation of ANSI/IAS LC-2-1996 (R2010), ANSI IAS LC-2a-1998 (R2010))

Details test and examination criteria for direct gas-fired circulating heaters primarily intended for permanent installation in agricultural animal confinement buildings for use with natural, manufactured and mixed gases, liquefied petroleum gases and LP gas-air mixtures.

Single copy price: Free

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

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

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

CSA (CSA Group)**Revision**

BSR Z21.1-201x, Standard for Household Cooking Gas Appliances (same as CSA 1.1) (revision, redesignation and consolidation of ANSI Z21.1-2010, ANSI Z21.1a-2011, and ANSI Z21.1b-2012)

Details test and examination criteria for household cooking appliances for use with natural, manufactured, and mixed gases; liquefied petroleum gases; and LP gas-air mixtures. The standard defines a household cooking gas appliance as an appliance for domestic food preparation, providing at least one function of (1) top or surface cooking, (2) oven cooking, or (3) broiling.

Single copy price: Free

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

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

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

NECA (National Electrical Contractors Association)**Revision**

BSR/NECA 409-201X, Standard for Installing and Maintaining Dry-Type Transformers (revision of ANSI/NECA 409-2009)

This standard describes the installation and maintenance procedures for single- and three-phase general purpose dry-type distribution and power transformers and associated accessories rated 600 Volts AC or less, and 0.25 kVA or more. This publication applies to indoor and outdoor, ventilated, and non-ventilated, two-winding transformers used for supplying power, heating, and lighting loads for commercial, institutional, and industrial use in nonhazardous locations.

Single copy price: \$40.00

Obtain an electronic copy from: neis@necanet.org

Order from: Sofia Arias, (301) 215-4549, sofia.arias@necanet.org

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

NSF (NSF International)**Revision**

BSR/NSF 50-201x (i107r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2014)

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

Single copy price: Free

Obtain an electronic copy from: http://standards.nsf.org/apps/org/workgroup/jc_rwf/download.php/28051/50i107r1%20JC%20Memo%20and%20Ballot%20-%20combined.pdf

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

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

TAPPI (Technical Association of the Pulp and Paper Industry)**New Standard**

BSR/TAPPI T 553 om-201x, Alkalinity of paper as calcium carbonate (alkaline reserve of paper) (new standard)

This test method covers the determination of the alkalinity or alkaline reserve of paper, or both.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: Charles Bohanan, (770) 209-7276, standards@tappi.org

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

TIA (Telecommunications Industry Association)**New Standard**

BSR/TIA 920.110-B-201x, Telecommunications - Telephone Terminal Equipment - Transmission Requirements for Digital Telephones with Handsets (new standard)

This standard establishes audio transmission performance requirements for handset equipped digital telephones regardless of protocol or digital format. Transmission may be over any digital interface including Local or Wide Area Networks, Universal Serial Bus (USB), Firewire/IEEE Std 1394, public ISDN or digital over twisted pair wire. This includes TDM-based and packet-based (e.g., VoIP) telephones. These telephones may be connected through modems, voice gateways, wireless access points, or PBXs, or they may be personal computer-based telephones. This revision will add updated requirements for narrowband (300 to 3400 Hz) telephones with handsets, previously found in ANSI/TIA 810-B, to the existing wideband (150 to 6800 Hz) requirements in TIA 920.110-A and upgrade the document to ANSI status. It will also include the option of using send and receive levels as a measure of transmission performance instead of the more traditional send-and-receive loudness ratings. The term "wideband" will be dropped from the document title since the revised standard will cover both wideband and narrowband telephones.

Single copy price: \$146.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: Telecommunications Industry Association (TIA); standards@tiaonline.org

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

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

BSR/UL 3703-201x, Standard for Safety for Solar Trackers (new standard)

(1) The first edition of the Standard for Solar Trackers, UL 3703, which covers solar trackers intended for installation as fixed trackers which are not attached to buildings, in accordance with the National Electrical Code, ANSI/NFPA 70. These requirements also cover freestanding trackers, which are by design not required to be mechanically secured in position. It covers the attachment means of solar devices to the tracker platform, in both mechanical and electrical aspects, but does not cover the solar devices themselves. These requirements cover solar trackers intended for use with solar devices with a maximum system voltage of 1500 V.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Susan Malohn, (847) 664-1725, Susan.P.Malohn@ul.com

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

BSR/UL 248-1-2011 (R201X), Standard for Safety for Low-Voltage Fuses - Part 1: General Requirements (reaffirmation of ANSI/UL 248-1-2011)

Reaffirmation of ANSI Approval for UL 248-1.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 248-8-2011 (R201X), Standard for Safety for Low-Voltage Fuses - Part 8: Class J Fuses (reaffirmation of ANSI/UL 248-8-2011)

Reaffirmation of ANSI Approval for UL 248-8.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 248-10-2011 (R201X), Standard for Safety for Low-Voltage Fuses - Part 10: Class L Fuses (reaffirmation of ANSI/UL 248-10-2011)

Reaffirmation of ANSI Approval for UL 248-10.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 248-11-2011 (R201X), Standard for Safety for Low-Voltage Fuses - Part 11: Plug Fuses (reaffirmation of ANSI/UL 248-11-2011)

Reaffirmation of ANSI Approval for UL 248-11.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 248-12-2011 (R201X), Standard for Safety for Low-Voltage Fuses - Part 12: Class R Fuses (reaffirmation of ANSI/UL 248-12-2011)

Reaffirmation of ANSI Approval for UL 248-12.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 674-2011 (R201x), Standard for Electric Motors and Generators for Use in Division 1 Hazardous (Classified) Locations (Proposal dated 06-26-15) (reaffirmation of ANSI/UL 674-2011)

Reaffirmation and continuance of the fifth edition of the Standard for Electric Motors and Generators for Use in Division 1 Hazardous (Classified) Locations.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 621-201x, Standard for Safety for Ice Cream Makers (revision of ANSI/UL 621-2010a)

The following is being proposed: (1) Revisions for requirements regarding components; (2) Revisions for requirements regarding refrigerant tubing; (3) Editorial revisions; (4) Revisions to incorporate operating control requirements, protective control parameters, and safety critical functions.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

VC (ASC Z80) (The Vision Council)

Revision

BSR Z80.28-201x, Methods of Reporting Optical Aberrations of Eyes (revision of ANSI Z80.28-2009)

This standard specifies standardized methods for reporting the optical aberrations of eyes.

Single copy price: \$65.00

Obtain an electronic copy from: arobinson@thevisioncouncil.org

Order from: Amber Robinson, (703) 740-1094, arobinson@thevisioncouncil.org

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

Technical Reports Registered with ANSI

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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)

INCITS/ISO/IEC TR 29144:2014 [2015], Information technology - Biometrics - The use of biometric technology in commercial Identity Management applications and processes (Technical Report) (technical report)

This Technical Report will discuss

- concepts and considerations for the use of biometrics in a commercial Identity Management Solutions;
- items that need to be considered when integrating biometrics into a commercial Identity Management Solutions; and
- implementation Issues when implementing biometrics into commercial Identity Management Solutions.

This Technical Report will not

- define an architecture and framework for IDM;
- discuss any specification or assessment of government policy;
- discuss the business need for a biometric database or process;
- discuss the specific biometrics and which ones are to be used in particular systems;
- consider the legality and acceptability in particular jurisdictions and cultures;
- analyze the general structure of identifiers and the global identification of objects (e.g., object identifiers); and
- discuss technical specifications in relation to the use of trusted biometric hardware and software.

Single copy price: \$88.00

Order from: <http://webstore.ansi.org>

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

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

INCITS/ISO/IEC TR 29195:2015 [2015], Traveller processes for biometric recognition in automated border (Technical Report) (technical report)

This Technical Report provides recommended best practices and processes for automated border control systems using biometrics to verify an identity claim by a traveler that uses an ePassport or equivalent identity card as the basis for the claim. It indicates areas that organizations proposing to use biometric technologies will need to address during design, deployment, and operation. Much of the information is generic to all types of applications especially around signage; however, some information will be specific to the modality of biometric technology used and how that technology is physically implemented.

Single copy price: \$149.00

Order from: <http://webstore.ansi.org>

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

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

INCITS/ISO/IEC TR 29198:2013 [2015], Information technology - Biometrics - Characterization and measurement of difficulty for fingerprint databases for technology evaluation (Technical Report) (technical report)

This Technical Report provides guidance on estimating how "challenging" or "stressing" is an evaluation dataset for fingerprint recognition, based on relative sample quality, relative rotation, deformation, and overlap between impressions. In addition, this Technical Report establishes a method for construction of datasets of different levels of difficulty. This Technical Report defines the relative level of difficulty of a fingerprint dataset used in technology evaluation of fingerprint recognition algorithms. Level of difficulty is based on differences between reference and probe samples in the aforementioned factors.

Single copy price: \$173.00

Order from: <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.

ASA (ASC S1) (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 S1.13-201x, Measurement of Sound Pressure Levels in Air
(revision of ANSI/ASA S1.13-2005 (R2010))

CEA (Consumer Electronics Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: Veronica Lancaster

Phone: (703) 907-7697

Fax: (703) 907-4197

E-mail: vlancaster@ce.org; dwilson@ce.org

BSR/CEA 109-D-2010 (R201x), Intermediate Frequencies for
Entertainment Receivers (reaffirmation of ANSI/CEA 109-D-2009)

Obtain an electronic copy from: standards@ce.org

BSR/CEA 2042.1-B-201x, Wireless Power Glossary of Terms (revision
and redesignation of ANSI/CEA 2042.1-A-2012)

Obtain an electronic copy from: standards@ce.org

HI (Hydraulic Institute)

Office: 6 Campus Drive, 1st Floor North
Parsippany, NJ 07054

Contact: Matthew Zolnick

Phone: (973) 267-9700 x116

Fax: (973) 267-9055

E-mail: mzolnick@pumps.org

BSR/HI 4.1-4.6-201x, Sealless, Magnetically Driven Rotary Pumps for
Nomenclature, Definitions, Application, Operation, and Test (revision
of ANSI/HI 4.1-4.6-2010)

NECA (National Electrical Contractors Association)

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

Contact: Sofia Arias

Phone: (301) 215-4549

Fax: (301) 215-4500

E-mail: sofia.arias@necanet.org

BSR/NECA 409-201X, Standard for Installing and Maintaining Dry-Type
Transformers (revision of ANSI/NECA 409-2009)

Obtain an electronic copy from: neis@necanet.org

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: Charles Bohanan

Phone: (770) 209-7276

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 556 om-201x, Bending resistance of paper and
paperboard by single-point bending method (new standard)

BSR/TAPPI T 646 om-201x, Brightness of clay and other mineral
pigments (45/0) (new standard)

Obtain an electronic copy from: standards@tappi.org

BSR/TAPPI T NEW (WI 3025) om-201x, Specular gloss at 20° - Parallel
beam method (new standard)

TIA (Telecommunications Industry Association)

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Arlington, VA 22201

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Phone: (703) 907-7706

Fax: (703) 907-7727

E-mail: standards@tiaonline.org

BSR/TIA 455-78-C-201x, IEC 60793-1-40 Optical Fibres - Part 1-40:
Measurement Methods and Test Procedures - Attenuation (identical
national adoption of IEC 60793-1-40)

BSR/TIA 455-234-A-201x, IEC-60793-1-52 Optical Fibres - Part 1-52:
Measurement Methods and Test Procedures - Change of
Temperature (identical national adoption of IEC-60793-1-52)

BSR/TIA 920.110-B-201x, Telecommunications - Telephone Terminal
Equipment - Transmission Requirements for Digital Telephones with
Handsets (new standard)

Obtain an electronic copy from: standards@tiaonline.org

UL (Underwriters Laboratories, Inc.)

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Research Triangle Park, NC 27709-3995

Contact: Casey Granata

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E-mail: Casey.Granata@UL.Com

BSR/UL 248-8-2011 (R201X), Standard for Safety for Low-Voltage
Fuses - Part 8: Class J Fuses (reaffirmation of ANSI/UL 248-8-2011)

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

BSR/UL 248-10-2011 (R201X), Standard for Safety for Low-Voltage
Fuses - Part 10: Class L Fuses (reaffirmation of ANSI/UL 248-10
-2011)

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

BSR/UL 248-11-2011 (R201X), Standard for Safety for Low-Voltage
Fuses - Part 11: Plug Fuses (reaffirmation of ANSI/UL 248-11-2011)

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

BSR/UL 248-12-2011 (R201X), Standard for Safety for Low-Voltage
Fuses - Part 12: Class R Fuses (reaffirmation of ANSI/UL 248-12
-2011)

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

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.

ACCA (Air Conditioning Contractors of America)

Revision

- * ANSI/ACCA 5 QI-2015, HVAC Quality Installation Specifications (revision of ANSI/ACCA 5 QI-2010): 6/19/2015

AHAM (Association of Home Appliance Manufacturers)

Revision

- * ANSI/AHAM PAC-1-2015, Portable Air Conditioners (revision of ANSI/AHAM PAC-1-2009): 6/19/2015

ANS (American Nuclear Society)

Reaffirmation

- ANSI/ANS 57.1-1992 (R2015), Design Requirements for Light Water Reactor Fuel Handling Systems (reaffirmation of ANSI/ANS 57.1-1992 (R2005)): 6/16/2015
- ANSI/ANS 59.51-1997 (R2015), Fuel Oil Systems for Safety-Related Emergency Diesel Generators (reaffirmation of ANSI/ANS 59.51-1997 (R2007)): 6/19/2015
- ANSI/ANS 59.52-1998 (R2015), Lubricating Oil Systems for Safety-Related Emergency Diesel Generators (reaffirmation of ANSI/ANS 59.52-1998 (R2007)): 6/19/2015

API (American Petroleum Institute)

Reaffirmation

- ANSI/API MPMS Chapter 2.2C, 1st Edition-2002 (R2015), Calibration of Upright Cylindrical Tanks Using the Optical-Triangulation Method (reaffirmation of ANSI/API MPMS 2.2C-2002): 6/19/2015
- ANSI/API MPMS Chapter 2.2E, 1st Edition-2009 (R2015), Petroleum and Liquid Petroleum Products - Calibration of Horizontal Cylindrical Tanks - Part 1: Manual Methods (reaffirmation of ANSI/API MPMS 2.2E-2004 (R2009)): 6/19/2015
- ANSI/API MPMS Chapter 2.2F, 1st Edition-2009 (R2015), Petroleum and Liquid Petroleum Products - Calibration of Horizontal Cylindrical Tanks - Part 2: Internal Electro-optical Distance-Ranging Method (reaffirmation of ANSI/API MPMS 2.2F-2004 (R2009)): 6/19/2015
- ANSI/API MPMS Chapter 5.6, 1st Edition-2007 (R2015), Measurement of Liquid Hydrocarbons by Coriolis Meters (reaffirmation of ANSI/API MPMS Ch. 5.6-2002 (R2007)): 6/19/2015

ASME (American Society of Mechanical Engineers)

Reaffirmation

- ANSI/ASME EA-2-2009 (R2015), Energy Assessment for Pumping Systems (reaffirmation of ANSI/ASME EA-2-2009): 6/16/2015
- ANSI/ASME EA-4-2010 (R2015), Energy Assessment for Compressed Air Systems (reaffirmation of ANSI/ASME EA-4-2010): 6/16/2015

Revision

- ANSI/ASME A112.18.2/CSA B125.2-2015, Plumbing Waste Fittings (revision of ANSI/ASME A112.18.2/CSA B125.2-2011): 6/19/2015
- ANSI/ASME A112.4.2/CSA B45.16-2015, Water Closet Personal Hygiene Devices (revision and redesignation of ANSI/ASME A112.4.2-2014): 6/19/2015
- ANSI/ASME B30.6-2015, Derricks (revision of ANSI/ASME B30.6-2010): 6/18/2015

ANSI/ASME B36.10M-2015, Welded and Seamless Wrought Steel Pipe (revision of ANSI/ASME B36.10M-2004 (R2010)): 6/16/2015

ANSI/ASME B107.17-2015, Gages and Mandrels for Wrench Openings (revision of ANSI/ASME B107.17-2010): 6/19/2015

ASTM (ASTM International)

Revision

- ANSI/ASTM D7566-2015, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons (revision of ANSI/ASTM D7566-2014C):
- ANSI/ASTM E1546-2015, Guide for Development of Fire-Hazard-Assessment Standards (revision of ANSI/ASTM E1546-2009a): 6/15/2015
- ANSI/ASTM E2159-2015, Guide for Selection, Assignment, and Monitoring of Persons To Be Utilized as Assessors/Auditors or Technical Experts (revision of ANSI/ASTM E2159-2008): 6/15/2015

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

- ANSI/ATIS 0300003-2015, XML Schema for Fault Management (revision of ANSI ATIS 0300003-2012): 6/17/2015
- ANSI/ATIS 0300202-2015, Internetwork Operations - Guidelines for Network Management of the Public Telecommunications Networks under Disaster Conditions (revision of ANSI/ATIS 0300202-2009): 6/17/2015

Withdrawal

- ANSI/ATIS 0300227.a-2012, Supplement to Operations, Administration, Maintenance, and Provisioning (OAM&P) - Interfaces Between Operations Systems Across Jurisdictional Boundaries to Support Fault Management (Trouble Administration) (withdrawal of ANSI/ATIS 0300227.a-2012): 6/17/2015
- ANSI/ATIS 0300227-2008, Operations, Administrations, Maintenance, and Provisioning (OAM&P) - Interfaces between Operations Systems across Jurisdictional Boundaries to Support Fault Management (Trouble Administration) (withdrawal of ANSI/ATIS 0300227-2008): 6/17/2015

AWS (American Welding Society)

New Standard

ANSI/AWS A5.35/A5.35M-2015, Specification for Covered Electrodes for Underwater Wet Shielded Metal Arc Welding (new standard): 6/23/2015

Revision

ANSI/AWS C1.5-2015, Specification for the Qualification of Resistance Welding Technicians (revision of ANSI/AWS C1.5-2008): 6/23/2015

CSA (CSA Group)

Revision

- * ANSI Z21.21-2015, Standard for Automatic Valves for Gas Appliances (same as CSA 6.5) (revision of ANSI Z21.21-2012): 6/19/2015
- * ANSI Z21.22-2015, Standard for Relief Valves for Hot Water Supply Systems (same as CSA 4.4) (revision, redesignation and consolidation of ANSI Z21.22-1999 (R2014), ANSI Z21.22a-2000 (R2014), and ANSI Z21.22b-2001 (R2014)): 6/19/2015

ECIA (Electronic Components Industry Association)***New National Adoption***

ANSI/EIA 60384-9-2015, Fixed Capacitors for Use in Electronic Equipment - Part 9: Sectional Specification: Fixed Capacitors of Ceramic Dielectric, Class 2 (identical national adoption of IEC 60384-9 ed. 3.0): 6/17/2015

EOS/ESD (ESD Association, Inc.)***Revision***

ANSI/ESD STM11.13-2015, ESD Association Work in Progress for the Protection of Electrostatic Discharge Susceptible Items - Two-Point Resistance Measurement (revision of ANSI/ESD STM11.13-2004): 6/16/2015

GTESS (Georgia Tech Energy & Sustainability Services)***New National Adoption***

ANSI/ISO/MSE 50004-2014, Energy management systems - Guidance for the implementation, maintenance and improvement of an energy management system (identical national adoption of ISO 50004: 2014): 6/23/2015

ANSI/ISO/MSE 50006-2014, Energy management systems - Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) - General principles and guidance (identical national adoption of ISO 50006: 2014): 6/23/2015

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)***Revision***

- * ANSI/ASSE 1061-2015, Performance Requirements for Push-Fit Fittings (revision of ANSI/ASSE 1061-2011): 6/17/2015

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)***New Standard***

- * ANSI/IAPMO S1001.4-2015, Energy Production Rating of Solar Heating Collectors (new standard): 6/17/2015

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

ANSI C63.12-2015, Standard Recommended Practice for Electromagnetic Compatibility Limits and Test Levels (revision of ANSI C63.12-1999 (R2007)): 6/18/2015

IEEE (ASC N42) (Institute of Electrical and Electronics Engineers)***Revision***

ANSI N42.38-2015, Performance Criteria for Spectroscopy Based Portal Monitors Used for Homeland Security (revision of ANSI N42.38-2006): 6/23/2015

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

ANSI/IEEE 487.5-2013, Standard for the Electrical Protection of Communication Facilities Serving Electric Supply Locations Through the Use of Isolation Transformers (new standard): 6/17/2015

ANSI/IEEE 802.16n-2013, Standard for Air Interface for Broadband Wireless Access Systems - Amendment 2: Higher Reliability Networks (new standard): 6/17/2015

ANSI/IEEE 802.16.1a-2013, Standard for WirelessMAN-Advanced Air Interface for Broadband Wireless Access Systems - Amendment 2: Higher Reliability Networks (new standard): 6/17/2015

ANSI/IEEE 1816-2013, Guide for Preparation Techniques of Extruded Dielectric, Shielded Cables Rated 2.5 kV through 46 kV and the Installation of Mating Accessories (new standard): 6/19/2015

ISEA (International Safety Equipment Association)***Revision***

ANSI/ISEA Z308.1-2015, Minimum Requirements for Workplace First Aid Kits and Supplies (revision of ANSI/ISEA Z308.1-2014): 6/17/2015

NECA (National Electrical Contractors Association)***Reaffirmation***

- * ANSI/NECA 1-2006 (R2015), Standard for Good Workmanship in Electrical Construction (reaffirmation of ANSI/NECA 1-2006 (R2010)): 6/17/2015

NEMA (ASC C82) (National Electrical Manufacturers Association)***New Standard***

- * ANSI C82.77-5-2015, Lighting Equipment-Voltage Surge Requirements (new standard): 6/19/2015

NSF (NSF International)***Revision***

- * ANSI/NSF 24-2015 (i10r2), Plumbing system components for recreational vehicles (revision of ANSI/NSF 24-2010): 5/11/2015

SAIA (ASC A92) (Scaffold & Access Industry Association)***Revision***

- * ANSI/SIA A92.2-2015, Standard for Vehicle-Mounted Elevating and Rotating Aerial Devices (revision of ANSI/SIA A92.2-2009): 6/19/2015

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

ANSI/UL 1694-2010 (R2015), Standard for Safety for Tests for Flammability of Small Component Materials (reaffirmation of ANSI/UL 1694-2010): 6/15/2015

- * ANSI/UL 2089-2011 (R2015), Standard for Safety for Vehicle Battery Adapters (reaffirmation of ANSI/UL 2089-2011): 6/15/2015

Revision

- * ANSI/UL-283-2015, Standard for Safety for Air Fresheners and Deodorizers (Proposal dated 12-19-14) (revision of ANSI/UL 283-2014): 6/16/2015

ANSI/UL 162-2015, Standard for Safety for Foam Equipment and Liquid Concentrates (revision of ANSI/UL 162-2014): 6/11/2015

- * ANSI/UL 474-2015, Standard for Safety for Dehumidifiers (revision of ANSI/UL 474-2013): 6/19/2015

- * ANSI/UL 474-2015a, Standard for Safety for Dehumidifiers (revision of ANSI/UL 474-2013): 6/19/2015

- * ANSI/UL 474-2015b, Standard for Safety for Dehumidifiers (revision of ANSI/UL 474-2012a): 6/19/2015

ANSI/UL 486D-2015, Standard for Safety for Sealed Wire Connector Systems (revision of ANSI/UL 486D-2010): 6/19/2015

ANSI/UL 567A-2015a, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 567A-2015): 6/17/2015

ANSI/UL 567B-2015a, Standard for Safety for Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 567B-2015): 6/17/2015

ANSI/UL 746C-2015, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C -2014b): 6/22/2015

* ANSI/UL 858-2015, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2013): 6/18/2015

* ANSI/UL 858-2015a, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2013): 6/18/2015

* ANSI/UL 923-2015, Standard for Microwave Cooking Appliances (revision of ANSI/UL 923-2013a): 6/18/2015

* ANSI/UL 923-2015a, Standard for Safety for Microwave Cooking Appliances (revision of ANSI/UL 923-2013a): 6/18/2015

ANSI/UL 1004-1-2015, Standard for Safety for Rotating Electrical Machines - General Requirements (Proposal dated 1-30-15) (revision of ANSI/UL 1004-1-2013a): 6/16/2015

ANSI/UL 1561-2015, Standard for Safety for Dry-Type General-Purpose and Power Transformers (revision of ANSI/UL 1561-2014): 6/16/2015

ANSI/UL 60079-31-2015, Standard for Safety for Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t" (Proposal dated 01-23-15) (revision and redesignation of ANSI/ISA 60079-31 (12.10.03)-2013): 6/12/2015

ANSI/UL 60079-31-2015a, Standard for Safety for Explosive Atmospheres - Part 31: Equipment Dust Ignition Protection by Enclosure "t" (Proposal dated 04-03-15) (revision and redesignation of ANSI/ISA 60079-31 (12.10.03)-2013): 6/12/2015

VITA (VMEbus International Trade Association (VITA))

New Standard

ANSI/VITA 46.11-2015, System Management on VPX (new standard): 6/17/2015

ANSI/VITA 63-2015, Hyperboloid Alternative Connector for VPX (new standard): 6/17/2015

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.

ABMA (ASC B3) (American Bearing Manufacturers Association)

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BSR ABMA 10A-201x, Metal Balls for Unground Bearings and Other Uses (revision of ANSI/ABMA 10A-2001 (R2015))

Stakeholders: U.S. bearing manufacturers and users.

Project Need: To update this standard to current technology and include material from ANSI/ABMA 10, which was withdrawn.

This standard establishes the requirements for metal balls for unground rolling contact bearings and other uses. The requirements for finished balls for rolling contact bearings are contained in ANSI/ABMA/ISO 3290.

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

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BSR/AHRI Standard 370-201x, Sound Performance Rating of Large Air-cooled Outdoor Refrigerating and Air-conditioning Equipment (revision of ANSI/AHRI Standard 370-2001)

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

Project Need: The purpose of this standard is to establish methods for determining the sound ratings of the outdoor portions of factory-made commercial and industrial large air-cooled outdoor refrigerating and air-conditioning equipment. It establishes definitions; test requirements; rating requirements; minimum data requirements for Published Ratings; and conformance conditions.

This standard applies to the air-cooled outdoor portions of factory-made commercial and industrial Large Air-Cooled Outdoor Refrigerating and Air-Conditioning Equipment greater than 40kW cooling capacity.

BSR/AHRI Standard 400 (I-P)-201x, Performance Rating of Liquid to Liquid Heat Exchangers (new standard)

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

Project Need: The purpose of this standard is to establish for Liquid-to-Liquid Heat Exchangers: definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to Liquid-to-Liquid Heat Exchangers as defined in Section 3, which includes the following types of heat exchangers: Plate heat exchangers; Shell-and-tube heat exchangers; Shell-and-coil heat exchangers; and Shell-and-U-Tube heat exchangers. This standard does not apply to heat exchangers used for change-of-phase or non-liquid heat transfer applications.

BSR/AHRI Standard 401 (SI)-201x, Performance Rating of Liquid to Liquid Heat Exchangers (new standard)

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

Project Need: The purpose of this standard is to establish for Liquid-to-Liquid Heat Exchangers: definitions; test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions.

This standard applies to Liquid-to-Liquid Heat Exchangers as defined in Section 3, which includes the following types of heat exchangers: Plate heat exchangers; Shell-and-tube heat exchangers; Shell-and-coil heat exchangers; and Shell-and-U-Tube heat exchangers. This standard does not apply to heat exchangers used for change-of-phase or non-liquid heat transfer applications.

BSR/AHRI Standard 920 (I-P)-201x, Performance Rating of DX-Dedicated Outdoor Air System Units (revision of ANSI/AHRI Standard 920-2012)

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

Project Need: The purpose of this standard is to establish for DX-Dedicated Outdoor Air System Units: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

This standard applies to factory-assembled commercial or industrial DX-Dedicated Outdoor Air System Units as defined in Section 3. This standard applies to electrically operated, vapor-compression refrigeration systems. DX-Dedicated Outdoor Air System Units are intended for ducted or non-ducted installation with field- or factory-supplied grilles.

BSR/AHRI Standard 921 (SI)-201x, Performance Rating of DX-Dedicated Outdoor Air System Units (revision and redesignation of ANSI/AHRI Standard 920-2013)

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

Project Need: The purpose of this standard is to establish for DX-Dedicated Outdoor Air System Units: definitions; classifications; test requirements; rating requirements; minimum data requirements for Published Ratings; operating requirements; marking and nameplate data; and conformance conditions.

This standard applies to factory-assembled commercial or industrial DX-Dedicated Outdoor Air System Units as defined in Section 3. This standard applies to electrically operated, vapor-compression refrigeration systems. DX-Dedicated Outdoor Air System Units are intended for ducted or non-ducted installation with field- or factory-supplied grilles.

BSR/AHRI Standard 1210 (I-P)-201x, Performance Rating of Variable Frequency Drives (revision and redesignation of ANSI/AHRI Standard 1210 (I-P)-2011)

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

Project Need: The purpose of this standard is to establish for Variable Frequency Drives (VFDs): definitions; classifications; general test requirements; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions.

This standard applies, within the heating, ventilating, air-conditioning and refrigeration (HVACR) context, to VFDs used in the control of asynchronous induction motors. The range includes all those found within a building including: low voltage (≤ 600 V) and drives that are standalone, not mechanically integrated into motors. This standard does not apply to VFDs applied to motors other than those listed above.

BSR/AHRI Standard 1211 (SI)-201x, Performance Rating of Variable Frequency Drives (revision of ANSI/AHRI Standard 1211-2011)

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

Project Need: The purpose of this standard is to establish for Variable Frequency Drives (VFDs): definitions; classifications; general test requirements; rating requirements; minimum data requirements for Published Ratings; marking and nameplate data; and conformance conditions.

This standard applies, within the heating, ventilating, air-conditioning and refrigeration (HVACR) context, to VFDs used in the control of asynchronous induction motors. The range includes all those found within a building including: low voltage (≤ 600 V) and drives that are standalone, not mechanically integrated into motors. This standard does not apply to VFDs applied to motors other than those listed above.

AISI (American Iron and Steel Institute)

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BSR/AISI S917-201x, Test Standard for Determination of Local Lateral Stiffness of Fastener-Sheathing Restraint (new standard)

Stakeholders: Cold-formed steel industry.

Project Need: This is a test procedure used by manufacturers and researchers in cold-formed steel design and analysis.

This Standard applies for the determination of the local lateral stiffness supplied by sheathing, fastened to cold-formed steel members.

BSR/AISI S918-201x, Test Standard for Determination of Fastener Sheathing Rotational Restraint (new standard)

Stakeholders: Cold-formed steel industry.

Project Need: This is a test procedure used by manufacturers and researchers in cold-formed steel design and analysis.

This Standard applies for the determination of the rotational restraint supplied by sheathing, fastened to cold-formed steel members.

ASA (ASC S1) (Acoustical Society of America)

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Melville, NY 11747

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* BSR ASA S1.13-201x, Measurement of Sound Pressure Levels in Air (revision of ANSI/ASA S1.13-2005 (R2010))

Stakeholders: Acousticians, engineers, law and code enforcers, anyone technically measuring sound in air.

Project Need: This document needs to be updated to align with the latest edition of ECMA 74, in particular E74 Annex D dealing with pure tones.

This standard specifies requirements and procedures for the measurement of sound pressure levels in air at a single point in space. It applies primarily to measurements performed indoors but may be used in outdoor measurements under specified conditions. This is a fundamental standard applicable to a wide range of measurements and sounds; more specific ANS complement its requirements. Includes classification and preferred descriptors for the types of sound generally encountered.

ASTM (ASTM International)

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BSR/ASTM WK50302-201x, New Specification for Curling Headgear (new standard)

Stakeholders: Headgear and Helmets industry.

Project Need: This specification covers headgear products intended for use in the sport of curling with particular reference to shock attenuation requirements.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK50302.htm>

ATIS (Alliance for Telecommunications Industry Solutions)

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BSR/ATIS 0600332-201x, Electrical Protection of Network-Powered Broadband Facilities (revision of ANSI/ATIS 0600332-2010)

Stakeholders: Communications industry.

Project Need: This standard provides the minimum electrical protection requirements intended to mitigate the disruptive and damaging effects of lighting and ac power faults to broadband facilities.

This standard provides the minimum electrical protection requirements intended to mitigate the disruptive and damaging effects of lightning and ac power faults to broadband facilities. Disturbances from lightning and ac power line faults may be disruptive to broadband service and may also result in damage to the broadband plant and equipment.

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BSR/HI 4.1-4.6-201x, Sealless, Magnetically Driven Rotary Pumps for Nomenclature, Definitions, Application, Operation, and Test (revision of ANSI/HI 4.1-4.6-2010)

Stakeholders: Pump manufacturers, specifiers, purchasers, and users.

Project Need: To update the existing ANSI/HI 4.1-4.6 standard.

This standard covers the unique features of sealless, magnetically driven rotary pumps and includes sections on types and nomenclature; definitions; design and applications; installation, operation, and maintenance; and test. Because of the variety of rotary pump configurations available and the broad range of applications, familiarization with Hydraulic Institute Standards ANSI/HI 3.1 - 3.5, Rotary Pumps for Nomenclature, Definitions, Application and Operation, and ANSI/HI 3.6, Rotary Pump Tests, is recommended. This standard does not apply to the flexible member/peristaltic rotary pump type.

HPS (ASC N13) (Health Physics Society)

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McLean, VA 22101

Contact: Nancy Johnson

Fax: (703) 790-2672

E-mail: njohnson@burkinc.com

BSR N13.52-201x, Personnel Neutron Dosimeters (Neutron Energies Less Than 20 MeV) (revision of ANSI N13.52-1999 (R2010))

Stakeholders: Nuclear utility, government facilities.

Project Need: The 1999 version of the standard is being updated.

This standard is designed to provide guidance for routine personal neutron dosimetry. It is applicable for neutrons with energies ranging from thermal to values less than 20 MeV. This standard applies to devices worn by individuals, as contrasted with handheld or fixed-area instrumentation. It does not apply to dosimetry necessary for extremity monitoring or for criticality accidents. This standard also includes factors governing the use of dosimeters for proper determination of the personal neutron dose equivalent.

NACE (NACE International, the Corrosion Society)

Office: 15835 Park Ten Place
Houston, TX 77084

Contact: Everett Bradshaw

Fax: (281) 228-6387

E-mail: Everett.bradshaw@nace.org

BSR/NACE MR0103/ISO 17945-201x, Petroleum, petrochemical and natural gas industries - Metallic materials resistant to sulfide stress cracking in corrosive petroleum refining environments (identical national adoption of ISO 17945:2015)

Stakeholders: Refiners, equipment manufacturers, engineering contractors, and construction contractors.

Project Need: ISO standard has recently been finished, so this is the national adoption of ISO 17945: 2015.

This International Standard establishes material requirements for resistance to SSC in sour petroleum refining and related processing environments containing H₂S either as a gas or dissolved in an aqueous (liquid water) phase with or without the presence of hydrocarbon. Specifically, this International Standard is directed at the prevention of SSC of equipment (including pressure vessels, heat exchangers, piping, valve bodies, and pump and compressor cases) and components used in the refining industry.

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092

Contact: Charles Bohanan

Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 556 om-201x, Bending resistance of paper and paperboard by single-point bending method (new standard)

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

Project Need: To revise existing TAPPI standard to address a concern about sample placement.

This procedure is used to measure the bending resistance of paper and paperboard in the machine and cross-machine directions, by determining the bending resistance in mN of a 38 mm (1.5 in.) wide vertically clamped sample, at 15° or 7.5° deflection. For this method, the standard bending angle is 15° ± 0.1°. For specimens that break or are otherwise unsuitable at 15°, a bending angle of 7.5° ± 0.1° shall be used.

BSR/TAPPI T 646 om-201x, Brightness of clay and other mineral pigments (45/0) (new standard)

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

Project Need: To conduct required five-year review of an existing TAPPI standard in order to revise it if needed to address new technology or correct errors.

This method describes a procedure for determining the brightness of clay or other mineral pigment that has been pulverized under controlled conditions and made into a uniformly compacted pigment plaque. This method is for use with minerals normally used in the manufacture of paper and is not intended for highly colored pigments.

BSR/TAPPI T NEW (WI 3025) om-201x, Specular gloss at 20° -
Parallel beam method (new standard)

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

Project Need: Develop a new standard for technology as described in the proposed scope.

This method is for the measurement of the specular gloss of high-gloss papers at 20° (70° from the plane of the paper). This method is suitable for high-gloss coated, cast-coated, lacquered, highly varnished or waxed papers, and high-gloss ink films.

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 455-78-C-201x, IEC 60793-1-40 Optical Fibres - Part 1-40:
Measurement Methods and Test Procedures - Attenuation (identical national adoption of IEC 60793-1-40)

Stakeholders: Fiber optic and cabled fiber and component manufacturers.

Project Need: Adopt identical ISO or IEC standard.

This part of IEC 60793 establishes uniform requirements for measuring the attenuation of optical fibre, thereby assisting in the inspection of fibres and cables for commercial purposes. Four methods are described for measuring attenuation, one of which being that for modelling spectral attenuation:

- Method A: Cut-back;
- Method B: Insertion loss;
- Method C: Backscattering;
- Method D: Modelling spectral attenuation.

BSR/TIA 455-234-A-201x, IEC-60793-1-52 Optical Fibres - Part 1-52:
Measurement Methods and Test Procedures - Change of
Temperature (identical national adoption of IEC-60793-1-52)

Stakeholders: Fiber optic and cabled fiber and component manufacturers.

Project Need: Adopt identical ISO or IEC standard.

This is an adoption of the IEC document 60793-1-52, Measurement Methods and Test Procedures - Change of Temperature. This part of IEC 60793 provides a practical method for evaluating fibre performance in a defined environment. The purpose of this standard is to define a test that determines the suitability of optical fibres (types A1a to A1d and B1 to B4) to withstand the environmental condition of changes in temperature which may occur in actual use, storage, and/or transport.

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Drive
Research Triangle Park, NC 27709

Contact: *Betty Holthouser*

Fax: (919) 547-6180

E-mail: betty.c.holthouser@ul.com

- * BSR/UL 9550-201x, Standard for Safety for Marine Lifesaving Appliances: Lifejackets (new standard)

Stakeholders: Lifejacket regulators, users, and manufacturers.

Project Need: To attain a lifejacket standard that can be utilized in the North American marketplace.

This standard, UL 9550, applies to commercial and recreational lifejackets intended to be worn to provide flotation in situations where a drowning hazard exists. These requirements cover wearable and stowable lifejackets used by adults, children, and infants. This safety standard specifies requirements for construction, performance, marking, and test methods.

- * BSR/UL 9560-201x, Standard for Safety for Marine Lifesaving Appliances: Immersion Suits (new standard)

Stakeholders: Immersion suit regulators, users, and manufacturers.

Project Need: To attain immersion suits standard that can be utilized in the North American marketplace.

Standard, UL 9560, covers performance and safety requirements and test methods for: immersion suit systems; constant wear suit systems; and abandonment suit systems. The suit systems covered by this standard are intended to reduce the risk to the user of cold water or thermal shock and hypothermia in the case of cold water immersion while providing acceptable flotation to reduce the risk of drowning. The suit systems covered are also intended to be used on vessels operating in a Polar environment (operating at temperatures below freezing) and anti-exposure environments. This standard is applicable for dry and wet suits.

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.

<p>AABC Associated Air Balance Council 1518 K Street NW Suite 503 Washington, DC 20005 Phone: (202) 737-0202 Fax: (202) 638-4833 Web: www.aabc.com</p>	<p>API American Petroleum Institute 1220 L Street NW Washington, DC 20005 Phone: (202) 682-8073 Fax: (202) 962-4797 Web: www.api.org</p>	<p>ATIS Alliance for Telecommunications Industry Solutions 1200 G Street, NW Suite 500 Washington, DC 20005 Phone: (202) 434-8841 Fax: (202) 347-7125 Web: www.atis.org</p>	<p>HI Hydraulic Institute 6 Campus Drive, 1st Floor North Parsippany, NJ 07054 Phone: (973) 267-9700 x116 Fax: (973) 267-9055 Web: www.pumps.org</p>
<p>ABMA (ASC B3) American Bearing Manufacturers Association 2025 M Street, NW Suite 800 Washington, DC 20036-3309 Phone: (919) 481-2852 Fax: (919) 827-4587 Web: www.americanbearings.org</p>	<p>ASA (ASC S12) Acoustical Society of America 1305 Walt Whitman Rd Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Fax: (631) 923-2875 Web: www.acousticalsociety.org</p>	<p>AWS American Welding Society 8669 NW 36th Street Miami, FL 33166 Phone: (305) 443-9353 Fax: (305) 443-5951 Web: www.aws.org</p>	<p>HPS (ASC N13) Health Physics Society 1313 Dolley Madison Blvd Suite 402 McLean, VA 22101 Phone: (703) 790-1745 Fax: (703) 790-2672 Web: www.hps.org</p>
<p>ACCA Air Conditioning Contractors of America 2800 Shirlington Road Suite 300 Arlington, VA 22206 Phone: (202) 251-3835 Fax: (703) 575-9147 Web: www.acca.org</p>	<p>ASABE American Society of Agricultural and Biological Engineers 2950 Niles Road St Joseph, MI 49085 Phone: (269) 932-7015 Fax: (269) 429-3852 Web: www.asabe.org</p>	<p>CEA Consumer Electronics Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Fax: (703) 907-4197 Web: www.ce.org</p>	<p>IAPMO (ASC Z124) International Association of Plumbing & Mechanical Officials 5001 East Philadelphia Street Ontario, CA 91761-2816 Phone: (909) 472-4106 Fax: (909) 472-4150 Web: www.iapmort.org</p>
<p>AHAM Association of Home Appliance Manufacturers 1111 19th Street N.W. Suite 402 Washington, DC 20036 Phone: (202) 872-5955 Fax: (202) 872-9354 Web: www.aham.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (404) 636-8400 Fax: (404) 321-5478 Web: www.ashrae.org</p>	<p>CSA CSA Group 8501 East Pleasant Valley Rd. Cleveland, OH 44131 Phone: (216) 524-4990 x88321 Fax: (216) 520-8979 Web: www.csa-america.org</p>	<p>IAPMO (ASSE Chapter) ASSE International Chapter of IAPMO 18927 Hickory Creek Dr Suite 220 Mokena, IL 60448 Phone: (708) 995-3017 Fax: (708) 479-6139 Web: www.asse-plumbing.org</p>
<p>AHRI Air-Conditioning, Heating, and Refrigeration Institute 2111 Wilson Boulevard Suite 500 Arlington, VA 22201 Phone: (703) 600-0327 Fax: (703) 562-1942 Web: www.ahrinet.org</p>	<p>ASME American Society of Mechanical Engineers Two Park Avenue New York, NY 10016 Phone: (212) 591-8521 Fax: (212) 591-8501 Web: www.asme.org</p>	<p>ECIA Electronic Components Industry Association 2214 Rock Hill Road Suite 265 Herndon, VA 20170-4212 Phone: (571) 323-0294 Fax: (571) 323-0245 Web: www.ecianow.org</p>	<p>IEEE Institute of Electrical and Electronics Engineers (IEEE) 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Fax: (732) 796-6966 Web: www.ieee.org</p>
<p>AISI American Iron and Steel Institute 25 Massachusetts Avenue, NW Suite 800 Washington, DC 20001 Phone: (202) 452-7100 Fax: (202) 452-1039 Web: www.steel.org</p>	<p>ASPE American Society of Plumbing Engineers 6400 Shafer Court Suite 350 Rosemont, IL 60018 Phone: (847) 296-0002 Fax: (847) 296-2963 Web: www.aspe.org</p>	<p>EOS/ESD ESD Association 7900 Turin Rd., Bldg. 3 Rome, NY 13440 Phone: (315) 339-6937 Fax: (315) 339-6793 Web: www.esda.org</p>	<p>IEEE (ASC C63) Institute of Electrical and Electronics Engineers 445 Hoes Lane, PO Box 1331 Piscataway, NJ 08855-1331 Phone: (732) 275-7362 Fax: (732) 562-1571 Web: www.ieee.org</p>
<p>ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526-5592 Phone: (708) 579-8269 Fax: (708) 579-8248 Web: www.ans.org</p>	<p>ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Fax: (610) 834-3683 Web: www.astm.org</p>	<p>GTES Georgia Tech Energy & Sustainability Services 75 Fifth Street N.W Suite 300 Atlanta, GA 30308 Phone: (404) 407-6404 Fax: (404) 894-8194 Web: www.innovate.gatech.edu</p>	<p>IEEE (ASC N42) Institute of Electrical and Electronics Engineers 100 Bureau Drive M/S 8462 Gaithersburg, MD 20899-8462 Phone: (301) 975-5536 Fax: (301) 926-7416 Web: standards.ieee.org</p>

IIAR

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

IICRC

the Institute of Inspection, Cleaning
and Restoration Certification
4043 South Eastern Avenue
Las Vegas, NV 89119
Phone: (702) 850-2710
Fax: (360) 693-4858
Web: www.thecleantrust.org

ISEA

International Safety Equipment
Association
1901 North Moore Street
Suite 808
Arlington, VA 22209
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Fax: (703) 525-1698
Web: www.safetysystem.org

ITI (INCITS)

InterNational Committee for
Information Technology Standards
1101 K Street NW
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Washington, DC 20005-3922
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NACE

NACE International, the Corrosion
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Web: www.nace.org

NECA

National Electrical Contractors
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3 Bethesda Metro Center
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Phone: (301) 215-4549
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Web: www.neca-neis.org

NEMA (ASC C82)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3277
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Web: www.nema.org

NSF

NSF International
789 N. Dixboro Road
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Phone: (734) 769-5197
Web: www.nsf.org

SAIA (ASC A92)

Scaffold & Access Industry Association
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Web: www.saiaonline.org

TAPPI

Technical Association of the Pulp and
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UL

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VC (ASC Z80)

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Alexandria, VA 22314
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Web: www.z80asc.com

VITA

VMEbus International Trade
Association (VITA)
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Web: www.vita.com



ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); those regarding IEC documents should be sent to Charles T. Zegers, General Secretary of the USNC (czegers@ansi.org). The final date for offering comments is listed after each draft.

Ordering Instructions

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

ISO Standards

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 6182-7, Fire protection - Automatic sprinkler systems - Part 7: Requirements and test methods for early suppression fast response (ESFR) sprinklers - 9/18/2015, \$119.00

ISO/DIS 6182-13, Fire protection - Automatic sprinkler systems - Part 13: Requirements and test methods for extended-coverage sprinklers - 11/10/2026, \$125.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19104, Geographic information - Terminology - 12/30/2034, \$155.00

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 12634, Graphic technology - Determination of tack of paste inks and vehicles by a rotary tackmeter - 8/18/2015, \$62.00

HUMAN RESOURCE MANAGEMENT (TC 260)

ISO/DIS 30400, Human resource management - Terminology - 9/18/2015, \$77.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 18189, Ophthalmic optics - Contact lenses and contact lens care products - Cytotoxicity testing of contact lenses and contact lens care solutions - 9/18/2015, \$53.00

REFRACTORIES (TC 33)

ISO/DIS 18886, Refractory test-piece preparation - Gunning refractory panels by wet gunning techniques - 9/18/2015, \$46.00

ROAD VEHICLES (TC 22)

ISO 15500-3/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 3: Check valve - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-4/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 4: Manual valve - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-5/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 5: Manual cylinder valve - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-6/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-9/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 9: Pressure regulator - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-13/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 13: Pressure relief device (PRD) - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-14/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 14: Excess flow valve - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-16/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 16: Rigid fuel line in stainless steel - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-17/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 17: Flexible fuel line - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-18/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 18: Filter - Amendment 1 - 9/20/2015, \$29.00

ISO 15500-19/DAmD1, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 19: Fittings - Amendment 1 - 9/20/2015, \$29.00

ISO/DIS 15500-2, Road vehicles - Compressed natural gas (CNG) fuel system components - Part 2: Performance and general test methods - 9/20/2015, \$58.00

TIMBER STRUCTURES (TC 165)

ISO/DIS 12122-3, Timber structures - Determination of characteristic values - Part 3: Glued laminated timber - 9/18/2015, \$46.00

ISO/DIS 12122-4, Timber structures - Determination of characteristic values - Part 4: Engineered wood products - 9/18/2015, \$53.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO 15886-3/DAmD1, Agricultural irrigation equipment - Sprinklers - Part 3: Characterization of distribution and test methods - Amendment 1 - 9/18/2015, \$29.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 13818-1/DAmD6, Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems - Amendment 6 - 12/29/2035, \$71.00

ISO/IEC 14496-5/DAMd39, Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 39: Reference software for the Multi-resolution Frame Compatible Stereo Coding with Depth Maps of AVC - 7/18/2015, \$29.00

ISO/IEC 23001-9/DAMd1, Information technology - MPEG systems technologies - Part 9: Common encryption of MPEG-2 transport streams - Amendment 1: Support of Sparse Encryption - 7/18/2015, \$53.00

ISO/IEC DIS 29161, Information technology - Data structure - Unique identification for lot - 7/18/2015, \$67.00

ISO/IEC DIS 33071, Information technology - Process assessment - An integrated process capability assessment model for Enterprise processes - 7/18/2015, \$185.00

ISO/IEC DIS 7811-9, Identification cards - Recording technique - Part 9: Tactile identifier mark - 7/18/2015, \$33.00

ISO/IEC DIS 18328-1, Identification cards - ICC-managed devices - Part 1: General framework - 7/18/2015, \$77.00

ISO/IEC DIS 19788-7, Information technology - Learning, education and training - Metadata for learning resources - Part 7: Bindings - 7/18/2015, \$165.00

ISO/IEC DIS 30100-2, Information technology - Home network resource management - Part 2: Architecture - 7/18/2015, \$185.00

ISO/IEC DIS 23000-15, Information technology - Multimedia application format (MPEG-A) - Part 15: Multimedia preservation application - 7/20/2015, \$134.00

ISO/IEC DIS 14776-154, Information technology - Small Computer System Interface (SCSI) - Part 154: Serial Attached SCSI - 3 (SAS -3) - 7/18/2015, \$245.00

IEC Standards

2/1788/CDV, IEC 60034-1 Ed.13: Rotating electrical machines - Part 1: Rating and performance, 09/25/2015

2/1789/CDV, IEC 60034-12 Ed.3: Rotating electrical machines - Part 12: Starting performance of single-speed three-phase cage induction motors, 09/25/2015

8/1405/CD, Amendment 1 to IEC 60038 f1 Ed.7: Standard voltages for LVDC supply and LVDC equipment (Proposed horizontal standard), 09/25/2015

8/1406/CD, Amendment 1 to IEC 60038 Am.1 f2 Ed.7: Standard voltages for AC supply and AC equipment (Proposed horizontal standard), 09/25/2015

8/1407/CD, IEC/TS 62898-1 Ed.1: Guidelines for general planning and design of microgrids, 09/25/2015

8/1408/CD, IEC/TS 62898-2 Ed.1: Technical requirements for operation and control of microgrids, 09/25/2015

9/2049/NP, Railway applications - Urban guided transport management and command/control systems - Part 3: System requirements specifications (proposed future IEC 62290-3), 09/25/2015

17A/1098/CD, IEC 62271-102 Ed. 2: High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches, 09/25/2015

18/1457/CDV, IEC 60092-504 Ed.4: Electrical installations in ships - Part 504: Automation, control and instrumentation, 09/25/2015

21/862/FDIS, IEC 62471-2: Secondary cells and batteries for renewable energy storage - General requirements and methods of test - Part 2: On-grid applications, 08/21/2015

23E/912/CD, IEC 62873-1 Ed.1: Outline of Blocks and Modules for Residual Current Device standards, 09/25/2015

26/572/FDIS, IEC 60974-6 Ed.3: Arc welding equipment - Part 6: Limited duty equipment, 08/21/2015

31/1207/CD, IEC 60079-32-1/TS/A1/Ed1: Explosive atmospheres - Part 32-1: Electrostatic hazards, guidance, 09/25/2015

34A/1850/CDV, IEC 62663-2 Ed.1: Non-integrated LED lamps - Part 2: Performance requirements, 09/25/2015

37B/136/CD, IEC 61643-352/Ed1: Low-voltage surge protective component - Part 352: Lightning isolation transformers connected to telecommunications and signalling networks-Selection and application principles, 09/25/2015

42/336/Q, 42/332/FDIS: IEC 61180/Ed1, 07/31/2015

44/735/DTS, IEC/TS 60204-34: Safety of machinery - Electrical equipment of machines - Part 34: Requirements for machine tools, 08/21/2015

48B/2437/CD, IEC 61076-3-104/Ed3: Connectors for electronic equipment - Product requirements - Part 3-104: Detail specification for 8-way, shielded free and fixed connectors for data transmissions with frequencies up to 2 000 MHz, 08/21/2015

55/1540/NP, Specifications for particular types of winding wires, Part xx: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular aluminium wire, class 200, 09/25/2015

55/1541/NP, Specifications for particular types of winding wires, Part xx: Polyesterimide enamelled rectangular aluminium wire, class 180, 09/25/2015

56/1627/DC, Review of IEC 60300-3-4, 07/31/2015

56/1628/DC, Review of IEC 60706-3, 07/31/2015

56/1629/DC, Review of IEC 60300-3-16, 07/31/2015

56/1630/DC, Review of IEC 60300-3-11, 07/31/2015

57/1571/CDV, IEC 61970-301: Energy Management System Application Program Interface (EMS-API) - Part 301: Common information model (CIM) base, 09/25/2015

57/1572/CDV, IEC 62325-451-6 Ed.1: Framework for energy market communications - Part 451-6: Publication of information on market, contextual and assembly models for European style market, 09/25/2015

61H/306/CDV, IEC 60335-2-87/Ed3: Household and similar electrical appliances - Safety - Part 2-87: Particular requirements for electrical animal-stunning equipment, 09/25/2015

62A/1016/CD, ISO TR 80001-2: Medical device software - Part 2: Validation of software for regulated processes, 08/21/2015

64/2031/FDIS, Amendment 2 to IEC 60364-5-53: Electrical installations of buildings - Part 5-53: Selection and erection of electrical equipment - Isolation, switching and control, 08/21/2015

64/2032/FDIS, Amendment 1 to IEC 60364-4-44: Low-voltage electrical installations - Part 4-44: Protection for safety - Protection against voltage disturbances and electromagnetic disturbances, 08/21/2015

65A/747/CD, IEC 61326-3-1 Ed. 2 - Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications, 09/25/2015

65A/748/CD, IEC 61326-3-2 Ed. 2 - Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment, 09/25/2015

65E/456/CDV, IEC 62264-3 Ed. 2.0: Enterprise-Control System Integration - Part 3: Activity models of manufacturing operations management, 09/25/2015

66/574/CD, IEC 61010-2-030 Ed.2: Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2 -030: Particular requirements for testing and measuring circuits, 08/21/2015

- 80/760/CDV, IEC 61162-450 A1 Ed.1: Amendment 1 to IEC 61162-450 Ed.1: Maritime navigation and radiocommunication equipment and systems - Digital interfaces - Part 450: Multiple talkers and multiple listeners - Ethernet interconnection, 09/25/2015
- 81/481/CD, IEC 62561-1 Ed.2: Lightning Protection System Components (LPSC) - Part 1: Requirements for connection components, 09/25/2015
- 81/483/CD, IEC 62561-2 Ed.2: Lightning Protection System Components (LPSC) - Part 2: Requirements for conductors and earth electrodes, 09/25/2015
- 86B/3898/CDV, IEC 61753-052-3/Ed2: Fibre optic interconnecting devices and passive components - Performance standard - Part 052-3: Single mode fibre non connectorized fixed attenuator for category U - Uncontrolled environment, 09/25/2015
- 86B/3899/CDV, IEC 61753-052-6/Ed1: Fibre optic interconnecting devices and passive components - Performance standard - Part 052-6: Single mode fibre non connectorized fixed attenuator for category O - Outside plant environment, 09/25/2015
- 86B/3924/CD, IEC 61754-34/Ed1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 34: Type URM connector family, 09/25/2015
- 86B/3925/CD, IEC 61755-3-10/Ed1: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-10: Connector parameters of non-dispersion shifted single mode physically contacting fibres - non-angled, ferrule-less, bore alignment connectors, 09/25/2015
- 86B/3926/DTR, IEC 62627-01/TR/Ed2: Fibre optic interconnecting devices and passive components - Technical Report - Part 01: Fibre optic connector cleaning methods, 08/21/2015
- 86B/3927/CD, IEC 62965/TS/Ed1: Fibre optic interconnecting devices and passive components - Ferrule Assembly and Fusion Splicer Interface Dimensions for a Fusion Splice on Connector, 09/25/2015
- 86C/1318/CDV, IEC 61291-2/Ed4: Optical amplifiers - Part 2: Single channel applications - Performance specification template, 09/25/2015
- 86C/1322/CDV, IEC 61757-2-1/Ed1: Fibre optic sensors - Part 2-1: Strain measurement - Strain sensors based on fibre Bragg gratings, 09/25/2015
- 86C/1323/CDV, IEC 61757-3-1/Ed1: Fibre optic sensors - Part 3-1: Temperature measurement - Distributed sensing, 09/25/2015
- 86C/1324/CDV, IEC 62343-3-2/Ed1: Dynamic modules - Part 3-2: Performance specification templates - Optical channel monitor, 09/25/2015
- 90/356/CD, IEC 61788-22-1: Superconductivity - Part 22: Superconducting electronic devices - Generic specification for sensors and detectors, 09/25/2015
- 97/167/FDIS, IEC 62870 Ed.1: Electrical installations for lighting and beaconing of aerodromes - Safety secondary circuits in series circuits - General safety requirements, 08/21/2015
- 100/2484/CDV, IEC 62766-1/Ed1: Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services - Part 1: General, 09/25/2015
- 100/2487/CDV, IEC 62766-2-1: Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services - Part 2-1: Media formats, 09/25/2015
- 100/2488/CDV, IEC 62766-2-2: Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services - Part 2-2: HTTP adaptive streaming, 09/25/2015
- 100/2489/CDV, IEC 62766-3/Ed.1 Open IPTV Forum (OIPF) consumer terminal function and network interfaces for access to IPTV and open Internet multimedia services - Part 3: Content metadata, 09/25/2015
- 100/2528/DTR, IEC TR 61998/Ed1: Model and framework for standardization in multimedia equipment and systems, 08/21/2015
- 104/657/FDIS, IEC 60068-2-39 Ed.2: Environmental testing - Part 2-39: Tests - Tests and guidance: Combined temperature or temperature and humidity with low air pressure tests, 08/21/2015
- 110/674/DTR, IEC/TR 62977-3-2 Ed.1: Electronic display devices - Part 3-2: Evaluation of optical characteristics - Mura, 08/21/2015
- 113/269/CD, IEC 62607-6-4: Nanomanufacturing - Key control characteristics - Part 6-4: Graphene - Conductance measurements using resonant cavity, 09/25/2015
- 116/224/CDV, IEC 62841-4-2/Ed1: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-2: Particular requirements for hedge trimmers, 09/25/2015
- CIS/A/1108/CDV, Amendment 3 to CISPR 16-2-3: Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements, 09/25/2015



Newly Published ISO & IEC Standards

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

ISO Standards

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 15944-6:2015](#), Information technology - Business Operational View - Part 6: Technical introduction to e-Business modelling, \$200.00

[ISO/IEC TR 19075-2:2015](#), Information technology - Database languages - SQL Technical Reports - Part 2: SQL Support for Time-Related Information, \$200.00

[ISO/IEC TR 19075-3:2015](#), Information technology - Database languages - SQL Technical Reports - Part 3: SQL Embedded in Programs using the Java™ programming language, \$149.00

[ISO/IEC TR 19075-4:2015](#), Information technology - Database languages - SQL Technical Reports - Part 4: SQL with Routines and types using the Java™ programming language, \$240.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 10537/Amd1:2015](#), Space data and information transfer systems - Encapsulation service - Amendment 1, \$22.00

[ISO 12175/Amd1:2015](#), Space data and information transfer systems - Standard formatted data units - Structure and construction rules - Amendment 1, \$240.00

[ISO 13526/Amd1:2015](#), Space data and information transfer systems - Tracking data message - Amendment 1, \$22.00

[ISO 22666/Amd1:2015](#), Space data and information transfer systems - AOS (advanced orbiting systems) space data link protocol - Amendment 1, \$22.00

[ISO 8177:2015](#), Aerospace - Omega clamps (saddle clamps) for fluid systems - Dimensions, \$51.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[IEC 80601-2-71:2015](#), Medical electrical equipment - Part 2-71: Particular requirements for the basic safety and essential performance of functional Near-Infrared Spectroscopy (NIRS) equipment, \$173.00

COPPER, LEAD AND ZINC ORES AND CONCENTRATES (TC 183)

[ISO 10258:2015](#), Copper sulfide concentrates - Determination of copper content - Titrimetric methods, \$149.00

[ISO 15247:2015](#), Zinc sulfide concentrates - Determination of silver content - Acid dissolution and flame atomic absorption spectrometric method, \$123.00

DENTISTRY (TC 106)

[ISO 16954:2015](#), Dentistry - Test methods for dental unit waterline biofilm treatment, \$123.00

DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

[ISO 16610-61:2015](#), Geometrical product specification (GPS) - Filtration - Part 61: Linear areal filters - Gaussian filters, \$123.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19150-2:2015](#), Geographic information - Ontology - Part 2: Rules for developing ontologies in the Web Ontology Language (OWL), \$265.00

GRAPHIC TECHNOLOGY (TC 130)

[ISO 12646:2015](#), Graphic technology - Displays for colour proofing - Characteristics, \$88.00

[ISO 18619:2015](#), Image technology colour management - Black point compensation, \$123.00

IMPLANTS FOR SURGERY (TC 150)

[ISO 12891-1:2015](#), Retrieval and analysis of surgical implants - Part 1: Retrieval and handling, \$149.00

IRON ORES (TC 102)

[ISO 10203:2015](#), Iron ores - Determination of calcium - Flame atomic absorption spectrometric method, \$123.00

[ISO 15633:2015](#), Iron ores - Determination of nickel - Flame atomic absorption spectrometric method, \$123.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 27307:2015](#), Thermal spraying - Evaluation of adhesion/cohesion of thermal sprayed ceramic coatings by transverse scratch testing, \$149.00

NICKEL AND NICKEL ALLOYS (TC 155)

[ISO 7530-1:2015](#), Nickel alloys - Flame atomic absorption spectrometric analysis - Part 1: Determination of cobalt, chromium, copper, iron and manganese, \$149.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 11151-1:2015](#), Lasers and laser-related equipment - Standard optical components - Part 1: Components for the UV, visible and near-infrared spectral ranges, \$88.00

[ISO 11151-2:2015](#), Lasers and laser-related equipment - Standard optical components - Part 2: Components for the infrared spectral range, \$88.00

PHOTOGRAPHY (TC 42)

[ISO 17850:2015](#), Photography - Digital cameras - Geometric distortion (GD) measurements, \$200.00

SOLID MINERAL FUELS (TC 27)

[ISO 502:2015](#), Coal - Determination of caking power - Gray-King coke test, \$123.00

STEEL (TC 17)

[ISO 4969:2015](#), Steel - Etching method for macroscopic examination, \$88.00

SURFACE CHEMICAL ANALYSIS (TC 201)

[ISO 18337:2015](#), Surface chemical analysis - Surface characterization - Measurement of the lateral resolution of a confocal fluorescence microscope, \$88.00

TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)

[ISO 128-43:2015](#), Technical product documentation (TPD) - General principles of presentation - Part 43: Projection methods in building drawings, \$51.00

VALVES (TC 153)

[ISO 5208:2015](#), Industrial valves - Pressure testing of metallic valves, \$123.00

ISO Technical Reports**ROAD VEHICLES (TC 22)**

[ISO/TR 12349-2:2015](#), Road vehicles - Dummies for restraint system testing - Part 2: Child dummies, \$51.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 30190/Cor1:2015](#), Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Recordable disk - Corrigendum, FREE

[ISO/IEC 30192/Cor1:2015](#), Information technology - Digitally recorded media for information interchange and storage - 120 mm Single Layer (25,0 Gbytes per disk) and Dual Layer (50,0 Gbytes per disk) BD Rewritable disk - Corrigendum, FREE

[ISO/IEC 30193/Cor1:2015](#), Information technology - Digitally recorded media for information interchange and storage - 120 mm Triple Layer (100,0 Gbytes per disk) BD Rewritable disk - Corrigendum, FREE

[ISO/IEC 27041:2015](#), Information technology - Security techniques - Guidance on assuring suitability and adequacy of incident investigative method, \$123.00

[ISO/IEC 27042:2015](#), Information technology - Security techniques - Guidelines for the analysis and interpretation of digital evidence, \$123.00

[ISO/IEC 19763-1:2015](#), Information technology - Metamodel framework for interoperability (MFI) - Part 1: Framework, \$149.00

[ISO/IEC 26300-1:2015](#), Information technology - Open Document Format for Office Applications (OpenDocument) v1.2 - Part 1: OpenDocument Schema, \$265.00

[ISO/IEC 26300-2:2015](#), Information technology - Open Document Format for Office Applications (OpenDocument) v1.2 - Part 2: Recalculated Formula (OpenFormula) Format, \$265.00

[ISO/IEC 26300-3:2015](#), Information technology - Open Document Format for Office Applications (OpenDocument) v1.2 - Part 3: Packages, \$173.00

[ISO/IEC 29500-3:2015](#), Information technology - Document description and processing languages - Office Open XML File Formats - Part 3: Markup Compatibility and Extensibility, \$173.00

[ISO/IEC 14776-153:2015](#), Information technology - Small Computer System Interface (SCSI) - Part 153: Serial Attached SCSI - 2.1 (SAS -2.1), \$265.00

[ISO/IEC TS 18822:2015](#), Programming languages - C++ - File System Technical Specification, \$240.00

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

[IEC 60958-SER Ed. 1.0 en:2015](#), Digital audio interface - ALL PARTS, \$868.00

[IEC 60958-3 Ed. 3.2 en:2015](#), Digital audio interface - Part 3: Consumer applications, \$484.00

[IEC 60958-3 Amd.2 Ed. 3.0 en:2015](#), Amendment 2 - Digital audio interface - Part 3: Consumer applications, \$22.00

[IEC 62379-7 Ed. 1.0 en:2015](#), Common control interface for networked digital audio and video products - Part 7: Measurements, \$303.00

ELECTRIC ROAD VEHICLES AND ELECTRIC INDUSTRIAL TRUCKS (TC 69)

[IEC 61851-24 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Electric vehicle conductive charging system - Part 24: Digital communication between a d.c. EV charging station and an electric vehicle for control of d.c. charging, \$0.00

ELECTRIC WELDING (TC 26)

[IEC 60974-10 Ed. 3.1 b:2015](#), Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, \$290.00

[IEC 60974-10 Amd.1 Ed. 3.0 b:2015](#), Amendment 1 - Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, \$20.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60601-2-33 Ed. 3.2 b:2015](#), Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis, \$847.00

[IEC 60601-2-33 Amd.2 Ed. 3.0 b:2015](#), Amendment 2 - Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis, \$254.00

[IEC 60601-2-45 Ed. 3.1 en:2015](#), Medical electrical equipment - Part 2-45: Particular requirements for basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices, \$424.00

[IEC 60601-2-45 Amd.1 Ed. 3.0 en:2015](#), Amendment 1 - Medical electrical equipment - Part 2-45: Particular requirements for the basic safety and essential performance of mammographic X-ray equipment and mammographic stereotactic devices, \$61.00

ENVIRONMENTAL CONDITIONS, CLASSIFICATION AND METHODS OF TEST (TC 104)

[IEC 60068-2-60 Ed. 3.0 b:2015](#), Environmental testing - Part 2-60: Tests - Test Ke: Flowing mixed gas corrosion test, \$121.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

[IEC 61207-7 Ed. 1.0 b cor.1:2015](#), Corrigendum 1 - Expression of performance of gas analyzers - Part 7: Tuneable semiconductor laser gas analyzers, \$0.00

[IEC 61784-5-4 Ed. 1.1 b:2015](#), Industrial communication networks - Profiles - Part 5-4: Installation of fieldbuses - Installation profiles for CPF 4, \$290.00

[IEC 61784-5-4 Amd.1 Ed. 1.0 b:2015](#), Amendment 1 - Industrial communication networks - Profiles - Part 5-4: Installation of fieldbuses - Installation profiles for CPF 4, \$20.00

[IEC 61784-5-10 Ed. 2.1 b:2015](#), Industrial communication networks - Profiles - Part 5-10: Installation of fieldbuses - Installation profiles for CPF 10, \$169.00

[IEC 61784-5-10 Amd.1 Ed. 2.0 b:2015](#), Amendment 1 - Industrial communication networks - Profiles - Part 5-10: Installation of fieldbuses - Installation profiles for CPF 10, \$22.00

[IEC 61784-5-12 Ed. 1.1 b:2015](#), Industrial communication networks - Profiles - Part 5-12: Installation of fieldbuses - Installation profiles for CPF 12, \$169.00

[IEC 61784-5-12 Amd.1 Ed. 1.0 b:2015](#), Amendment 1 - Industrial communication networks - Profiles - Part 5-12: Installation of fieldbuses - Installation profiles for CPF 12, \$24.00

[IEC 61784-5-15 Ed. 1.1 b:2015](#), Industrial communication networks - Profiles - Part 5-15: Installation of fieldbuses - Installation profiles for CPF 15, \$230.00

[IEC 61784-5-15 Amd.1 Ed. 1.0 b:2015](#), Amendment 1 - Industrial communication networks - Profiles - Part 5-15: Installation of fieldbuses - Installation profiles for CPF 15, \$24.00

[IEC 62453-315 Ed. 1.0 b:2009](#), Field device tool (FDT) Interface specification - Part 315: Communication profile integration - IEC 61784 CPF 15, \$303.00

NUCLEAR INSTRUMENTATION (TC 45)

[IEC/IEEE 62582-5 Ed. 1.0 b:2015](#), Nuclear power plants - Instrumentation and control important to safety - Electrical equipment condition monitoring methods - Part 5: Optical time domain reflectometry, \$206.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 61850-SER Ed. 1.0 en:2015](#), Communication networks and systems in substations - ALL PARTS, \$6356.00

IEC Technical Reports**POWER ELECTRONICS (TC 22)**

[IEC/TR 60919-2 Ed. 2.1 b:2015](#), Performance of high-voltage direct current (HVDC) systems with line-commutated converters - Part 2: Faults and switching, \$424.00

[IEC/TR 60919-2 Amd.1 Ed. 2.0 b:2015](#), Amendment 1 - Performance of high-voltage direct current (HVDC) systems with line-commutated converters - Part 2: Faults and switching, \$24.00

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: ncsci@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

INCITS Executive Board

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

The InterNational Committee for Information Technology Standards (INCITS), an ANSI accredited SDO, is the forum 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**

- o “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.

ANSI Accreditation Program for Greenhouse Gas Validation/Verification Bodies

Voluntary Withdrawal

TÜV Rheinland Energie und Umwelt GmbH

Comment Deadline: July 27, 2015

In accordance with the following ISO standards:

ISO 14065:2013, Greenhouse gases – Requirements for greenhouse gas validation and verification bodies for use in accreditation or other forms of recognition

TÜV Rheinland Energie und Umwelt GmbH

Roland Wollenweber

Am Grauen Stein

Cologne 51105, Germany

Phone: +49 221 806 4584

E-mail: Roland.Wollenweber@de.tuv.com

On June 22, 2015, the ANSI Accreditation Program for Greenhouse Gas Validation/Verification Bodies accepted a request from TÜV Rheinland Energie und Umwelt GmbH to voluntarily withdraw its accreditation for the following:

Scopes:

Validation and verification of assertions related to GHG emission reductions & removals at the project level:

- 01. GHG emission reductions from fuel combustion
- 05. Livestock
- 06. Waste Handling and Disposal

Please send your comments by July 27, 2015 to Ann Bowles, Director, Environmental Accreditation Programs, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: abowles@ansi.org.

International Organization for Standardization (ISO)

Establishment of a New ISO Subcommittee

ISO/TC 79/SC 12 – Aluminum Ores

TC 79, Light metals and their alloys, has created a new ISO Subcommittee on Aluminum ores (TC 79/SC 12). Discussions will be held between Pakistan and China for the secretariat.

ASTM International has committed to administer the US/TAG. Organizations interested in participating on the US/TAG should contact ANSI's ISO Team at isot@ansi.org.

New Field of ISO Technical Activity

Rare Earth

Comment Deadline: July 10, 2015

SAC (China) has submitted to ISO a proposal for a new field of ISO technical activity on the subject of Rare Earth, with the following scope statement:

Standardization in the field of rare earth ores, concentrates, metals, alloys, compounds, materials, including the reuse and recycling of waste rare earth products.

Anyone wishing to review this new proposal can request a copy 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, July 10, 2015.

Meeting Notices

AHRI Meeting

Development of AHRI Draft Standard 1410, Performance Rating for Commercial Finned Tube Radiation

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on July 21 from 1 p.m. to 2 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Anuj Mistry at amistry@ahrinet.org.

GBI 01-201x Consensus Body Meetings

The seventh and eighth meetings of the Green Building Initiative - GBI 01-201x consensus body will be held via conference call and webinar:

Tuesday July 7, 2015 from 12:00 Noon EST to 3:00 PM EST

Wednesday July 29, 2015 from 12:00 Noon EST to 3:00 PM EST

The purpose for these teleconferences is for the Consensus Body members to review sections of the Working Draft of 01-201X document and hear reports from Subcommittees, discuss readiness for public comment, and questions/comments from the public.

The tentative agenda will be 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 that would like to attend the meeting should contact the Secretariat, Maria Woodbury, preferably at least 10 days in advance of the meeting to ensure he/she is included in relevant communications in preparation for the meeting.

To attend, and for additional information, please contact:

Maria Woodbury
Secretariat for Green Building Initiative
Worden Associates, Inc.
207-807-8666 (direct)
maria@wordenassociates.com

Document: AABC National Standards for Total System Balance, 7th Edition, BSR/AABCMN-1-201x
Type: Standard, Second public review

After the first public comment period, the following revisions have been proposed to Chapter 5 – Leakage Testing, Section 5.6.2. **Only** comments on the limited proposed revisions noted below in red are being considered at this time.

5.6.2 Casing Deflection Test

5.6.2.1 Deflection limit of L/250 shall be demonstrated by the manufacturer and witnessed by a representative of the TAB agency. The deflection test shall be taken at 2.5 times the AHU total static pressure rating, or 10” WG, whichever is smaller.

5.6.2.2 ‘L’ is defined as the height of the largest panel on the sides, width across the top of the largest panel on the unit, and the smaller of width or height of the largest panel for the ends. These are known as the governing panels.

5.6.2.3 Measurements shall be taken at midpoint of ‘L’ using dial indicators reading in 1/1000ths. Mounting of dial indicators shall be independent of the unit casing. Multiple measurements shall be taken. Dial indicator shall be mounted at midpoint of ‘L’. Measurements shall then be spaced along the sides, ends, and top at mid-point and quarter-points of the negative section and the positive section. Spacing shall be adjusted to fall on nearest flange or panel joint. Any section of less than 5’ shall require only one measurement at the center.

5.6.2.4 In order to reduce the number of pressure cycles, it is recommended that multiple-dial indicators be used at the measurement points.

5.6.2.5 Failure of the deflection test shall require sealing and bracing of the unit and retesting until criteria is met.

5.6.2.6 For central station air handling units that are shipped as a complete assembly to the project, Casing Deflection Test shall be excluded for AHU's that are certified under AHRI's AHUC certification program.¹ When the air handling unit has to be disassembled for shipment and reassembled on the project AABC recommends testing in the field for casing leakage and deflection. It is the engineer's prerogative to require retesting in the field at a specified pressure on any air handling unit.

In addition, add the following section:

5.8 References

¹ AHRI Standard 1350 (IP) 2014 Standard for Mechanical Performance Rating of Central Station Air-handling Unit Casings

ASME PTC 4.3– 20XX
(Revision of PTC 4.3-1968)

Air Heaters

April 2015 DRAFT

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ASME INTERNATIONAL
Two Park Avenue
New York, NY

PTC 4.3 20XX Air Heaters
SPECIFIC AUTHORIZATION REQUIRED FOR REPRODUCTION OR QUOTATION

$$Q_{pBDA} = 100 M_{qDA} H_{DAEn}, \% \quad (5-3-96)$$

Where

M_{qDA} = total dry air entering the steam generator corresponding to the excess air entering the air heater(s), lbm/Btu (kg.J)

H_{DAEn} = the enthalpy of dry air at the average air temperature entering the air heater(s).

5-3.6.12 Q_{pBWA} –Moisture in Entering Air Credit, percent

$$Q_{pBWA} = 100 M_{FrWA} M_{qDA} H_{WvEn}, \% \quad (5-3-97)$$

Where H_{WvEn} is the enthalpy of water vapor at the average air temperature entering the air heater(s).

5-3.6.13 Q_{pBF} –Sensible Heat in Fuel Credit, percent

$$Q_{pBF} = \frac{100}{HHVF} HFEn, \% \quad (5-3-98)$$

Where $HFEn$ is the enthalpy of the fuel at the temperature of the fuel entering the steam generator envelope, Btu/lbm (J/kg)

5-3.6.14 Q_{pBSlf} –Sulfation Credit, percent. Sulfation is the reaction of sulfur dioxide (SO_2) with calcium oxide (CaO) and oxygen to form calcium sulfate ($CaSO_4$). The reaction is exothermic:

$$Q_{pBSlf} = M_{FrSc} \frac{M_{pSF}}{HHVF} H_{rSlf}, \% \quad (5-3-99)$$

Where

H_{rSlf} = heat generated in the reaction of sulfur dioxide, oxygen, and calcium oxide to form calcium sulfate per pound of sulfur capture, 6,733 Btu/lbm (15,600 kJ/kg).

M_{FrSc} = mass fraction of sulfur capture, lbm/lbm (kg/kg). If not measured/calculated, use historical value (an uncertainty of $\pm 15\%$ is recommended).

5-3.6.15 Q_{pBOth} – Other Credits, percent basis. There are no typical other credits on a percent basis.

5-3.6.16 Q_{rBX} –Auxiliary Equipment Power Credit, Btu/h (W). Typical auxiliary equipment includes pulverizers, gas Recirculating fans, hot primary air fans, and boiler circulating pumps. If not measured, historical or expected credits with an uncertainty of $\pm 0.25\%$ is recommended. Note that credits shall not be calculated forced draft fans or primary air fans when the temperature when the fluid temperature exiting the fans is used in the calculations.

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$$Q_{rBX} = C1 QX \frac{EX}{100} \frac{Btu}{h} (W) \quad (5-3-n)$$

Where

$C1 = 3.412 \text{ Btu/kwh (1 W)}$

$EX =$ overall drive efficiency, percent; includes motor efficiency, electric and hydraulic coupling efficiency, and gear efficiency

$QX =$ energy input to the drives, kWh (J)

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Also add EX & QX to section 5-10.2 Computational Acronyms used in Section 5. For the record, Q_{rBX} already exists in the acronyms.

5-3.6.17 Q_{rBSb} –Sensible Heat in Sorbent Credit, Btu/h (W).

$$Q_{rBSb} = M_{rSb} H_{SbEn}, \text{ Btu/h (W)} \quad (5-3-100)$$

ASME B16.1-~~2010~~ **20xx**
(Revision of ASME B16.1-~~2005~~) **2010**

PROPOSED REVISION OF:

Gray Iron Pipe Flanges and Flanged Fittings

Classes 25, 125, and 250

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ASME Codes and Standards

DRAFT DATE: 06/2015

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7.6 Flange Bolt Holes

7.6.1 Flange Bolt Holes. Flange bolt holes shall be in accordance with the dimensions shown in Tables 2, 8, and 9. Pairs of bolt holes shall straddle the centerline.

7.6.2 Flange Bolt Hole Tolerance. Tolerances for bolt hole sizes 5/8 through 7/8 shall be -0.000 in. (0.00 mm), +0.015 in. (0.38 mm) and for bolt holes sizes 1 through 2 1/2 shall be -0.000 in. (0.00 mm), +0.031 in. (0.79 mm).

7.6.2-3 Bolt Circle Diameter. The required tolerance for a bolt circle diameter is ± 1.5 mm (± 0.06 in.).

7.6.3-4 Bolt Hole to Bolt Hole. The required tolerance for the center-to-center of adjacent bolt hole is ± 0.8 mm (± 0.03 in.).

7.6.4-5 Bolt Circle Concentricity. The required tolerance for concentricity between the flange bolt circle diameter and machined facing diameters are as follows:

NPS \leq 21/2	0.8 mm (0.03 in.)
NPS \leq 48	1.5 mm (0.06 in.)

7.6.5-6 Tolerance. Tolerances for sizes larger than NPS 48 shall be as agreed between the Manufacturer and purchaser.

8 BOLT, NUT, AND GASKET DIMENSIONS

8.1 Bolting

(a) All bolting materials shall have square, heavy hex or hex heads and square, heavy hex or hex nuts with full flat bearing faces as specified in ASME B18.2.1 for bolts and ASME B18.2.2 for nuts. Threads shall be UNC or UN8, and have a thread fit class of 2A for bolts and 2B for nuts. Washer faced bolts, or washer faced nuts are prohibited.

~~(a-b) It is recommended that carbon~~ Carbon steel bolts ~~smaller than 3/4 in. have square heads 1 in. and smaller shall have square heads~~ (ASME B18.2.1) or heavy hex heads (ASME B18.2.1), and shall have square or heavy hex nuts (ASME B18.2.2).

~~(b-c)~~ Carbon steel bolts ~~3/4 in.~~ 1 1/8 in. and larger shall have square heads (ASME B18.2.1), ~~or~~ hex heads (ASME B18.2.1), or heavy hex heads (ASME B18.2.1) and shall have hex nuts (ASME B18.2.2) or heavy hex nuts (ASME B18.2.2) or square nuts (ASME B18.2.2). For bolt sizes 1 1/2 in. and larger, stud bolts with a nut on each end are recommended.

~~(c) All bolts or (stud bolts) and all nuts shall be threaded in accordance with the Unified Screw Threads, standard coarse thread series (ASME B1.1) with Class 2A for bolts and Class 2B for nuts.~~

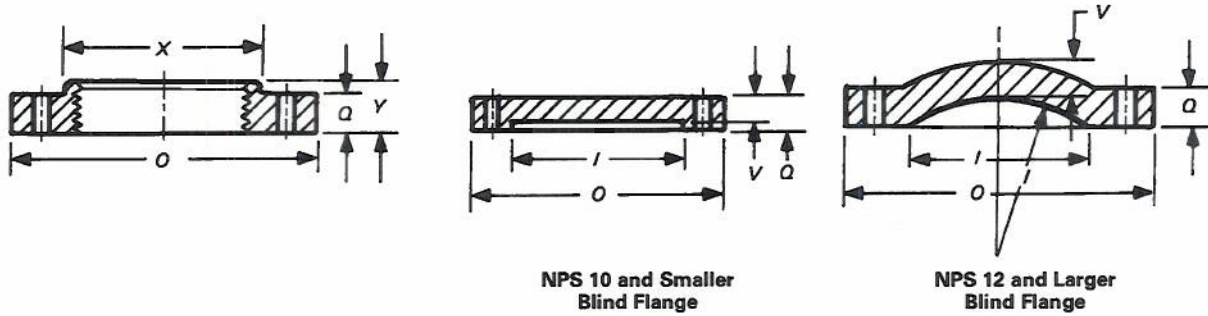
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8.2 Gaskets

It is recommended that flat ring gaskets be in accordance with dimensions given in ASME B16.21 for nonmetallic gaskets for pipe flanges. [Flanges of Class A iron should not be used with gaskets having a gasket factor \(“m” as defined in ASME Section VIII, Rules for Construction of Pressure Vessels, Division 1, Mandatory Appendix 2\) greater than 2.75.](#)

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Table 9 Class 125 Flange and Bolting Dimensions



NPS	Flanges		Hub		Blind Flanges		Bolt Holes		Bolting			Length of Bolt Stud With Nuts [Note (7)]
	Diameter of Flange, O	Thickness of Flange, Min., Q [Note (1)]	Diameter Min., X	Length of Hub and Threads, Min., Y [Note (2)]	Diameter of Port, I [Note (3)]	Wall Thickness, V [Note (4)]	Diameter of Bolt Circle	Diameter of Bolt Holes [Notes (5) and (6)]	Number of Bolts	Diameter of Bolts [Notes (7) and (8)]	Length of Bolts [Notes (7) and (8)]	
1	110	11.1	49	18	25	9.6	79	5/8	4	1/2	45	...
1 1/4	115	12.7	59	21	32	11.1	89	5/8	4	1/2	51	...
1 1/2	125	14.3	65	22	38	12.7	98	5/8	4	1/2	51	...
2	150	15.9	78	25	51	14.3	121	3/4	4	5/8	57	...
2 1/2	180	17.5	91	29	64	15.9	140	3/4	4	5/8	64	...
3	190	19.0	108	30	76	17.5	152	3/4	4	5/8	64	...
3 1/2	215	20.6	122	32	89	19.0	178	3/4	8	5/8	70	...
4	230	23.8	135	33	102	22.2	191	3/4	8	5/8	76	...
5	255	23.8	164	37	127	22.2	216	7/8	8	3/4	76	...
6	280	25.4	192	40	152	23.8	241	7/8	8	3/4	83	...
8	345	28.6	246	45	203	27.0	299	7/8	8	3/4	89	...
10	405	30.2	303	49	254	28.6	362	1	12	7/8	95	...
12	485	31.8	357	56	305	20.6	432	1	12	7/8	95	...
14	535	32.4	391	57	356	22.2	476	1 1/8	12	1	108	...
16	595	36.5	445	64	406	25.4	540	1 1/8	16	1	114	...
18	635	39.7	499	68	457	27.0	578	1 1/4	16	1 1/8	121	...
20	700	42.9	553	73	508	28.6	635	1 1/4	20	1 1/8	127	...
24	815	47.6	660	83	610	31.8	749	1 3/8	20	1 1/4	140	...
30	985	54.0	...	...	762	36.6	914	1 3/8	28	1 1/4	159	...
36	1170	60.3	...	...	914	41.3	1086	1 5/8	32	1 1/2	178	222
42	1345	66.7	...	...	1066	46.0	1257	1 5/8	36	1 1/2	191	235
48	1510	69.9	...	...	1219	50.8	1422	1 5/8	44	1 1/2	197	247
54 (9)	1685	76.2	...	...	...	...	1594	2	44	1 3/8	216	267
60 (9)	1855	79.4	...	...	...	...	1759	2	52	1 3/8	222	273
72 (9)	2195	88.9	...	...	...	...	2096	2	60	1 3/8	241	292
84 (9)	2535	98.4	...	...	...	...	2426	2 1/4	64	2	267	324
96 (9)	2875	108.0	...	...	...	...	2756	2 1/2	68	2 1/4	292	356

GENERAL NOTE: Dimensions are in millimeters.

NOTES:

- (1) For facing, see para. 7.2.(a)
- (2) For thread of threaded flanges, see paras. 7.5.1 and 7.5.2.
- (3) All blind flange NPS 12 and larger must be dished with inside radius equal to the port diameter.
- (4) For wall thickness tolerance, see para. 7.1.
- (5) For flange bolt holes, see para. 7.6.
- (6) For spot facing, see para. 7.7.
- (7) For bolts and nuts, see para. 8.1.1.
- (8) Bolt lengths to be compensated for when bolting steel to gray iron flanges.
- (9) NPS 54 through 96 are included for convenience. Pressure-temperature ratings are the user's responsibility.

35.1

1 3/4

1 3/4

1 3/4

MANDATORY APPENDIX II REFERENCES

The following is a list of publications referenced in this Standard. [Unless otherwise specified, the latest edition shall apply:](#)

ASME B1.1-~~2003~~, Unified Inch Screw Threads (UN and UNR Thread Form)¹

ASME B1.20.1-~~1983 (R2004)~~, Pipe Threads, General Purpose (Inch)¹

ASME B16.5-~~2003~~, Pipe Flanges and Flanged Fittings: NPS ½ Through NPS 24 Metric/Inch Standard

ASME B16.21-~~2005~~, Nonmetallic Flat Gaskets for Pipe Flanges¹

ASME B18.2.1-~~1996~~, Square and Hex Bolts and Screws (Inch Series)¹

ASME B18.2.2-~~1987 (R1999)~~, Square and Hex Nuts (Inch Series)¹

ASME PCC-1-~~2000~~, Guidelines for Pressure Boundary Bolted Flange Joint Assembly

American Society of Mechanical Engineers (ASME),
~~Three~~ ~~Two~~ Park Avenue, New York, NY 10016-5900; Order
 Department: 22 Law Drive, Box 2300, Fairfield, NJ
 07007-2300

ASTM A126-04 (~~2014~~), Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings

ASTM A307-~~04~~ ~~14~~, Specification for Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength

ASTM E29-~~13~~ Standard Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications

ASTM International (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428

ISO 9001: ~~2000~~ ~~2008~~, Quality Management System – Requirements

International Organization for Standardization (ISO),
~~ch. de la Voie-Creuse, 1-rue-de-Varembe~~, Case Postale 56,
 CH-1211, Genève 20, Switzerland/Suisse

MSS SP-6-~~2001~~ ~~2012~~, Standard Finishes for Contact Faces of Pipe Flanges and Connecting-End Flanges of Valves and Fittings

MSS SP-9-~~2001 (R2005)~~ ~~2013~~, Spot Facing for Bronze, Iron, and Steel Flanges

MSS SP-45-2003(~~R2008~~), Bypass and Drain Connections

Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180

¹ May also be obtained from American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036.

IIAR 2 Public Review #6 Draft

Note: This document shows substantive changes made subsequent to the fifth public review. Certain portions of the original text remain to provide the reader with some context and certain portions of the original text that were removed are not shown from editorial corrections or to prevent and avoid confusion. You are invited to provide comments on only the ~~striked-through~~ (also shown in red) or the underlined changes. Contact the IIAR if you wish to see the entire document to gain further context.

Chapter 2 - Definitions:

Authorized Personnel: Persons who, by virtue of their training and job description, have been specifically granted permission to enter a *restricted* area, specifically granted permission to perform *restricted* tasks, or both.

***Packaged System:** A pre-fabricated and pre-assembled ~~self-contained~~ closed-circuit refrigeration system, ~~or a large portion thereof~~, containing all essential equipment, piping and devices. The package can be either enclosed within its case or framework or unenclosed.

Principal Machinery Room Door: ~~An~~ A door leading to the exterior of the *machinery room* ~~door~~ that has been designated by the owner or designee as a primary emergency egress door ~~for a~~ from the *machinery room* which has required placarding.

Restricted: Describes a premises or piece of *equipment* that is permitted to be accessed ~~Open to access~~ by ~~only~~ authorized personnel and specifically excludes ing public access.

~~**Self-Contained:** Having all essential equipment, piping and devices to form a complete closed circuit mechanical refrigeration system, except energy and control connections, and contained in a case or framework.~~

Chapters:

3.1 **American Society of Mechanical Engineers (ASME)**, standards as follows:

ASME B16.5 (2013), *Pipe Flanges and Flanged Fittings*.

ASME B16.20 (2012), *Metallic Gaskets for Pipe Fittings*.

ASME B16.21 (2011), *Nonmetallic Flat Gaskets for Pipe Flanges*.

5.5.2 **Pressure Developed During Operation, Standby or Shipping Conditions.** The design pressure shall be equal to or greater than the maximum pressure that could occur during operating, standby or shipping conditions. Operating pressure limit information shall be made available by the manufacturer.

5.6 **System Design Temperature.** Equipment shall be designed to operate within the full range of temperatures associated with the system design and for the full range of ambient temperatures to which equipment will be exposed at the installation location. Operating temperature limit information shall be made available by the manufacturer.

5.7.1.2 *Materials that deteriorate in the presence of ammonia, refrigerant lubricating oil, or a combination of both, ~~or any expected contaminant~~ shall not be used.

5.14.2 ***Machinery Labels.** Refrigeration machinery shall be provided with permanent labels. ~~For refrigeration machinery having an internal volume of more than three cubic feet (0.085 cubic meters) containing ammonia, the permanent label shall include the state of the contained ammonia, being liquid, vapor, or both; the type of machinery; and a title that matches the system drawings.~~

5.14.3 ***Emergency Shutdown Valve Identification and Tagging.** Valves required for emergency shutdown of the system shall be clearly and uniquely identified at the valve itself, as well as in the system schematic drawings. ~~identified on a diagram that is available to personnel onsite. Valves used for emergency shutdown of the system shall also be uniquely identified on the actual system.~~

5.17.2 ***Moving ~~Rotating~~ Parts.** Exposed ~~rotating~~ moving parts shall be protected with screens or guards in accordance with OSHA 29 CFR 1910.212 and 29 CFR 1910.219.

6.5 Exception 2: Fuel burning appliances and equipment shall be permitted in a machinery room where an ammonia detector is in accordance with Section 6.13 and automatically shuts off the combustion process upon detection of ammonia.

6.7.1 **General.** Each machinery room shall have access to a minimum of two eyewash/safety shower units, one of which shall be located inside the machinery room and one of which shall be located outside of the machinery room each meeting the requirements in Section 6.7.3. Additional eyewash/safety shower units shall be installed such that ~~an identified hazard~~ the path of travel in the machinery room is no more than 55 feet to ~~from~~ an eyewash/safety shower unit.

6.7.2 **Path of Travel.** The path of travel within the machinery room ~~from an identified hazard~~ to at least one eyewash/safety shower unit shall be unobstructed and shall not include intervening doors.

6.8.2 **Hazardous (Classified) Locations.** Machinery rooms shall be designated as Ordinary Locations, as described in the Electrical Code, where the machinery room is provided with emergency ventilation in accordance with Section 6.14.7 and ammonia detection in accordance with Section 6.13.

6.13.2.2 ***Detection of ammonia concentrations equal to or exceeding 25 ppm shall activate visual indicators; and activate audible alarms; and stop non-emergency exhaust fans** as specified in Section 6.14.2.

6.14.3.1 Mechanical exhaust ventilation systems shall be automatically activated by ammonia leak detection in accordance with Section 6.13 or temperature sensors, and the system shall also be manually operable.

6.14.5.1 Outdoor make-up air shall be provided to replace air being exhausted and shall be designed to maintain negative pressure in the machinery room, not to exceed 0.25 in. (6.4 mm) water column relative to the adjacent areas, including the outdoors, that have a machinery room door.

9.4 ***Equipment Identification.** Manufacturers producing refrigerant pumps shall permanently affix a nameplate to the pump providing not less than the following:

1. Manufacturer's name
2. Manufacturer's serial number
3. Manufacturer's model number
4. Year manufactured (encoded with serial number is permissible)
5. Maximum allowable working pressure (MAWP)
6. Maximum rotation speed in rpm
7. Direction or rotation

~~A9.4.1~~ Process safety information provided by the manufacturer can include the following: (Balanced remains unchanged).

11.3.1.3 4. Shell side minimum design metal temperature (MDMT) at pressure
5. Tube side minimum design metal temperature (MDMT) at pressure

11.3.2.3 4. Shell side minimum design metal temperature (MDMT) at pressure
5. Tube side minimum design metal temperature (MDMT) at pressure

11.5.3 3. Shell minimum design metal temperature (MDMT) at pressure

Note only: The asterisk was moved to Section 12.2.4 once Section 12.2.5 was removed to keep the informative appendix reference for stress corrosion cracking.

12.2.4 *The heads of pressure vessels shall be hot-formed or stress relieved after cold-forming.

EXCEPTION: Vessels primarily containing oil, including but not limited to oil separators, oil filters, oil coolers and oil pots.

~~12.2.5 *The designer shall specify whether pressure vessels are required to be treated to prevent stress corrosion cracking.~~

13.2.4.1 Butt weld fittings shall match pipe schedules.

EXCEPTION: The schedule of butt weld fittings joining pipe at a wall thickness change shall match the schedule of the thicker wall pipe. The internal diameter of the end of the fitting connecting to the thinner wall pipe shall be machined or ground to match in accordance with B31.5.

13.2.5.1 Flanges in accordance with ANSI ASME B16.5 shall comply with the requirements of ASME B31.5; ~~be raised face type~~ and the flange class shall be based on the design working pressure and the maximum working temperature at the design working pressure.

13.2.5.2 Gaskets shall be correctly dimensioned for the flange set in accordance with ASME B16.20 or B16.21.

13.3.2.1 Where the manufacturer's specifications indicate that a particular vertical, horizontal or rotational orientation is required for proper operation of a valve, the system design shall indicate the required orientation.

EXCEPTION: Where the system design accommodates an installation not in accordance with the manufacturer's specification, ~~provides for a valve to be installed with a different orientation~~.

15.3.6 2. A pressure relief device affected by back pressure, in which case the valve's set pressure added to the set pressure of the ~~system pressure~~-relief device protecting the downstream portion of the system, shall not exceed the maximum allowable working pressure of any equipment being protected ...

15.4.1 *Stop valves shall not be installed in the inlet piping of pressure relief devices. Where installed in the outlet piping of pressure relief devices, the pressure drop effects of full area stop valves shall be taken into account in the engineering of the relief vent piping system. Where used, stop valves ~~shall be locked open whenever any upstream relief device is in service~~ that are installed in the downstream piping of a relief device shall be locked open, including each downstream stop valve installed on a dual relief from a three-way valve.

15.4.3 Discharge piping from pressure relief devices and fusible plugs shall be steel pipe minimum schedule 40 for pipe sizes up to 6" and minimum schedule 20 for pipe sizes 8" and larger or stainless steel pipe minimum schedule 40 for pipe sizes 1-1/2" and smaller and minimum schedule 10 for pipe sizes 2" and larger. The materials of construction for relief piping shall be the same ~~comply with the ferrous material requirements of ASME B31.5~~; as required for refrigerant piping within this standard.

15.4.4 The size of the discharge pipe from a pressure relief device or fusible plug shall not be less than the outlet size of the pressure relief device. The minimum size and total equivalent length of common discharge piping downstream from each of two or more relief devices shall be determined based on the sum of the discharge capacities of all relief devices that are expected to discharge simultaneously, with due allowance for the pressure drop in each downstream sections.

15.5.1.1.1 *The design back pressure ~~due to flow~~ in the discharge piping at the outlet of pressure-relief devices and fusible plugs, discharging through a single relief valve to atmosphere, shall be limited by the allowable equivalent length of piping determined by Equation 15.5.1.1(1) or 15.5.1.1(2).

15.5.1.5 The termination of the discharge shall be directed ~~vertically~~ upward and arranged to avoid spraying ammonia on persons in the vicinity.

~~15.5.1.6 The termination point of the relief vent discharge shall have a provision to block foreign material or debris from entering the discharge piping.~~

17.1 Scope. Ammonia leak detection and alarms ~~shall comply with this chapter~~ located in “Machinery Rooms” shall comply with Section 6.13 and Sections 17.2 – 17.6 of this chapter. Ammonia leak detection and alarms in “Areas Other Than Machinery Rooms” shall comply with Section 7.2.3, Section 7.3.1.2.3 and this chapter. Ammonia leak detection and alarms for “Packaged Systems” shall comply with Section 14.4 and this chapter.

Substantive Changes to BSR-IICRC S500 Standard – June 2015

1 **BSR-IICRC S500 Draft Standard for Professional Water Damage Restoration**2 **Substantive Changes Document for Fifth Public Review – June 2015**

3 **Note: This document includes only the substantive changes made since the fourth public**
 4 **review: Additions are underlined, and deletions are shown in strikethrough. Editorial and**
 5 **clarification changes are not included here. Changes made to the Standard are also made**
 6 **in the corresponding section of the S500 Reference Guide.**

7 **Substantive Changes Available for Review in the S500 Standard**8
9 **A.2 Purpose**

10
 11 It is the purpose of this Standard to define criteria and methodology used
 12 by the restorer for inspecting and investigating water damage and associated
 13 contamination, and for establishing water damage restoration work plans and
 14 procedures.

15
 16 This Standard and Reference Guide is not intended to be either
 17 exhaustive or inclusive of all pertinent requirements, methods or procedures that
 18 might be appropriate on a particular water damage restoration project. Restorers
 19 should use professional judgment throughout each and every project. However,
 20 the use of professional judgment is not a license to not comply with this standard.
 21 A project might have unique circumstances that may infrequently allow for a
 22 deviation from the standard. ~~When a restorer decides to deviate they~~ Prior to
 23 deviation from the standard of care (i.e., “shall” or “should”) the restorer should
 24 document the circumstances that led to such a decision, and where the decision
 25 can impact the scope or price, the materially interested parties should agree in
 26 writing to the deviation notify the materially interested parties, and in the absence
 27 of a timely objection, document the communication before proceeding.

28
29 **10.7.2 Evaluating Building Materials and Assemblies**

30 Determining the composition of affected materials and assemblies helps
 31 establish and implement an appropriate restoration strategy. The construction,
 32 permeability, placement of vapor retarders, number of layers, degree of
 33 saturation, presence of contamination, degree of physical damage, and the
 34 presence of interstitial spaces should be considered when evaluating materials
 35 and assemblies.

36
 37 If materials are restorable, the restorer should use appropriate measuring
 38 devices to obtain and document moisture readings, and compare them to the
 39 drying goals. All building materials that are likely to be affected, including multiple
 40 layers in a single assembly, should be considered.

41
 42 If a material or an assembly is generally unrestorable and a restorer ~~based upon~~
 43 ~~an~~ attempts to dry that portion of the structure through agreement with the

Substantive Changes to BSR-IICRC S500 Standard – June 2015

1 MIP(s), ~~attempts to dry that portion of the structure, there should be an~~
2 ~~agreement between the parties about~~ it is recommended there be an
3 understanding in regards to the responsibility for the services rendered ~~if in the~~
4 ~~event that the attempt is not successful.~~
5

BSR/UL 705, Standard for Safety for Power Ventilators

1. Addition of a New Appendix to Provide Examples of Controls Intended to be Used as Operating or Protective Controls.

30A.3.1 The following test parameters shall be among the items considered when judging the acceptability of an operating control investigated using the Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1: Appendix A provides more examples of controls intended to be used as protective controls:

- a) Control Types 1 or 2;
- b) Unless otherwise specified in this standard, manual and automatic controls shall be tested for 6,000 cycles with under maximum normal load conditions, and 50 cycles under overload conditions;
- c) Installation Class 2 in accordance with Electromagnetic Compatibility (EMC) - Part 4-5: Testing Measurement Techniques - Surge Immunity Test, IEC 61000-4-5;
- d) For the applicable Overvoltage Category, see Table 30A.1;
- e) For the applicable Material Group, see Table 30A.2; and
- f) For the applicable Pollution Degree, see Table 30A.3.

30A.4.2 The following test parameters shall be among the items considered when judging the acceptability of an electronic protective control investigated using the Standard for Automatic Electrical Controls for Household and Similar Use; Part 1: General Requirements, UL 60730-1: Appendix A provides more examples of controls intended to be used as protective controls:

- a) Failure-Mode and Effect Analysis (FMEA) or equivalent Risk Analysis method;
- b) Power supply voltage dips, variation and interruptions within a temperature range of 10°C (50°F) and the maximum ambient temperature determined by conducting the Normal temperature test. See I temperature test, Section 22;
- c) Surge immunity test - installation Class 3 shall be used;
- d) Electrical fast transient/burst test, a test level 3 shall be used;
- e) Electrostatic discharge test;
- f) Radio-frequency electromagnetic field immunity:
 - 1) Immunity to conducted disturbances - When applicable, test level 3 shall be used; and
 - 2) Immunity to radiated electromagnetic fields; field strength of 3 V/m shall be used;

- g) Thermal cycling test of clause H.17.1.4.2 shall be conducted at ambient temperatures of 10.0+2°C (50 +4°F) and the maximum ambient temperature determined by conducting the Normal temperature test. The test shall be conducted for 14 days;
- h) Overload shall be conducted based on the maximum declared ambient temperature (Tmax) or as determined by conducting the Temperature Test, Section 22;
- i) If software is relied upon as part of the protective electronic control, it shall be evaluated as software Class B.

APPENDIX A
Examples of Controls Performing as Operating or Protective Controls
(Informative)

<u>Purpose of Control</u>	<u>Operating or Protective Control?</u>
<u>De-energizes ventilator in the event of motor-locked rotor operation.</u>	<u>Protective</u>
<u>Prevents loss of ventilator operation while equipment is energized and operating as intended.</u>	<u>Operating</u>
<u>Prevents motor overload (over-temperature or overcurrent) as required by Section 13.</u>	<u>Protective</u>
<u>Prevents automatic restarting after operation of a protective circuit which de-energizes the ventilator where there is a risk of injury due to moving parts.</u>	<u>Protective</u>
<u>Regulates motor speed only (not combined with a motor overload or motor protective control)</u>	<u>Operating</u>
<u>Regulates motor speed and is combined with a motor overload or motor protective control.</u>	<u>Protective</u>
<u>Limits the temperatures within the ventilator during abnormal conditions or under conditions not intended for the normal operation of the ventilator.</u>	<u>Protective</u>
<u>Regulates the temperatures within the ventilator during normal, intended conditions.</u>	<u>Operating</u>

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BSR/UL 858, Standard for Household Electric Ranges

1. New Requirements for Radiant, Open-wire / Ribbon Heating Elements Guarded by Mesh Barriers

PROPOSAL

6.1.4 An enclosure shall be investigated with respect to size, shape, thickness of material, and acceptability for the particular application. An enclosure material shall be of such thickness or shape, or shall be reinforced to provide stiffness and protection not less than that provided by flat sheet steel with a minimum thickness of 0.020 in (0.51 mm).

Exception: A mesh barrier, when used below a live heater element inside an oven cavity, such as a broil element, shall be formed to provide stiffness and protection so that when a 2 lb (9N) force is applied at any point using the probe described in Figure 6.1 the mesh will not touch live parts or result in a reduction of spacing below the minimum acceptable values specified in Spacings, Section 26.

6.2.2.2 An opening in an enclosure shall comply with either (a), ~~(b)~~, or (c):

a) An opening that has a minor dimension less than 1 in (25.4 mm) shall be located so that an uninsulated live part or film-coated wire / ribbon cannot be contacted by the probe illustrated in Figure 6.1. The minor dimension of an opening is the diameter of the largest cylindrical probe having a hemispherical tip that can be inserted through the opening to any depth.

Exception: For film-coated wire / ribbon, an opening less than 1 in is acceptable if the probe illustrated in Figure 6.2 cannot contact the wire/ribbon.

b) An opening that has a minor dimension greater than or equal to 1 in but no more than 6 in (152 mm) shall be located so that a part or wire is spaced from the opening as specified in Table 6.1.

c) An opening that has a minor dimension of less than 0.10 in (2.54 mm) when used as a protective cover for a downward facing open-wire / ribbon heating element such as a broil element.

6.3.1.2 Openings in an enclosure, unless constructed as specified in Openings in Vertical Surfaces, Section 6.3.2, or Openings in Horizontal Surfaces, Section 6.3.3, shall not be located below live parts or internal wiring.

Exception No. 1: Openings in the enclosure of a component fan or blower assembly may be judged in accordance with the applicable requirements in the Standard for Electric Fans, UL 507, provided that the fan or blower circuit is protected by a branch circuit-type fuse or circuit breaker rated no more than 20 A.

Exception No. 2: Opening in horizontal surfaces below live parts, opening into an oven cavity, are acceptable with a maximum minor dimensions as defined in 6.2.2.2(c).

6.4.1 A live part of an appliance shall be located or enclosed so that it will not be exposed to vapors from an oven cavity of the appliance. The part shall also be located or enclosed so that it is protected against spillage and accumulations of spillage.

Exception: An open-wire / ribbon heating element used in a downward facing application such as a broil element is acceptable where exposed to oil-laden air and vapors when:

- a) The element complies with Heating Elements, Section 18.
- b) The element employs a mesh that complies with Frame and Enclosures, Section 6; with an exception to 6.1.4.
- c) The element complies with all applicable tests in Tests for Elements Exposed to Oil-laden Air and Oven Vapors, Moisture and Grease, Section 72.6.

72.6 Tests for elements exposed to oil-laden air, oven vapors, moisture and grease

72.6.1 General

72.6.1.1 A heater as specified in the Exception to 6.4.1 shall be subjected to the tests specified in 72.6.2 - 72.6.5. In addition to this, an element employing an insulation system that has moisture-absorption characteristics as specified in 72.6.2 is to be subjected to the tests specified in 72.6.6.

72.6.1.2 A material with a moisture absorption value greater than 1.62 percent as determined in accordance with the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A, the Standard for Polymeric Materials - Long Term Property Evaluations, UL 746B, and the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C, used as an insulation material between film-coated wires, between uninsulated live parts of opposite polarity, or between uninsulated live parts and dead or grounded metal parts shall comply with 72.6.1.3.

72.6.1.3 As a result of the tests specified in 72.6.4 and 72.6.5:

- a) There shall not be noticeable change or deterioration of the element insulation with respect to accessibility, mechanical strength, or the like;
- b) There shall not be dielectric breakdown or arc-over as a result of the Dielectric Voltage-Withstand Test, Section 66;
- c) The insulation resistance of the element shall comply with 13.1.2. The insulation resistance of the element shall not be less than 50,000 ohms between live parts and interconnecting dead metal parts. Charring or discolouration of the insulation is acceptable.
- d) The removal force for the element shall not be less than 50 percent of the original average removal force when 5 various locations of the securing means are tested.

72.6.2 Oil conditioning

72.6.2.1 The testing described in 72.6.2.2 is to be done with the element installed in the normal, downward facing position in an oven or chamber and the element continuously energized at its rated voltage for the periods specified. The addition of a smoke elimination system is acceptable.

72.6.2.2 The mesh cover of three samples are to be sprayed evenly with 5ml of Canola (rapeseed) oil, using a fine mist spray. The heaters are then to be continuously energized for 20 minutes. At the end of 20 minutes, the power is to be switched off for 2 minutes and the heater re-sprayed with 5 mL of Canola oil and the power restored. The heater is to remain energized for a further 20 minutes. At the end of the conditioning each sample shall comply with the requirements in 72.6.1.3.

72.6.3 Grease conditioning

72.6.3.1 Prior to conducting the tests described in 72.6.3.2 and 72.6.3.3, the samples are to be preconditioned for 40 hours at a temperature of 25°C ±3°C (77°F ±5.4°F) and a relative humidity not greater than 50 percent.

72.6.3.2 For three heater samples the mesh barriers are to be completely coated with a minimum 1/8-in (3.2 mm) thick layer of rendered cooking lard and conditioned (heater in the normal downward facing orientation) for 168 hours (7 days) in a forced-draft air-circulating oven or chamber maintained at a temperature of 150°C ±5°C (238°F ±10°F). The use of a smoke elimination system is acceptable. After conditioning, each sample shall be installed as described in 72.6.2.1 and operated at maximum rated voltage for at least 20 minutes. At the end of the conditioning each sample shall comply with the requirements specified in 72.6.1.3.

72.6.4 Grease and humidity conditioning

72.6.4.1 Three samples of an element are to be conditioned for 48 hours in air having a relative humidity of 88 ±2 percent at a temperature of 32°C ±2°C (89.6°F ±3.6°F). After the humidity conditioning, each sample is to be subjected to the grease conditioning specified in 72.6.3.2.

72.6.5 Oven and humidity conditioning

72.6.5.1 Three samples of an element shall be conditioned for 7 hours in a forced-draft air-circulating oven or chamber maintained at a temperature of 150°C ±5°C (238°F ±10°F). The use of a smoke elimination system is acceptable. At the end of 7 hours, the samples are to be removed from the oven or chamber and conditioned for 48 hours in air having a relative humidity of 88 ±2 percent and a temperature of 32°C ±2°C (89.6°F ±3.6°F). The cycle is then to be repeated. At the end of the second conditioning cycle, each sample shall comply with the requirements specified in 72.6.1.3.

72.6.6 Element coil-bond strength tests

72.6.6.1 General

72.6.6.1.1 After being subjected to the conditioning in 72.6.6.2 - 72.6.6.4, the removal force for an element that is secured by staples, pins, pressing, moulding or similar means shall not be less than 50 percent of the original average removal force in 5 various locations of the securing means.

72.6.6.2 Usage test

72.6.6.2.1 Three samples of the heater are to be energized at rated voltage. The element is to be cycled for 6,000 cycles at the rate of 6 cycles per hour of 5 minutes "on" and 5 minutes "off". After the conditioning, the element shall comply with Spacing, Section 26, and Dielectric Voltage-Withstand Test, Section 66.

72.6.6.3 Cold test

72.6.6.3.1 Three samples of the heater are to be conditioned for 24 hours in a chamber maintained at $0 \pm 2^{\circ}\text{C}$ ($32 \pm 3.6^{\circ}\text{F}$). After conditioning, the samples shall not show evidence of adverse effects to the bond between the element coil and the base material, or visual signs of cracking, chipping, or other distortion of the substrate material. In addition, the element shall comply with Dielectric Voltage-Withstand Test, Section 66.

72.6.6.4 Cycling test

72.6.6.4.1 Three samples of the heater are to be subjected to three cycles of conditioning consisting of the following

- a) 24 hours operation at 1.15 times the rated wattage,
- b) 96 hours at $35 \pm 2^{\circ}\text{C}$ ($95 \pm 3.6^{\circ}\text{F}$), 90 percent relative humidity, and
- c) 8 hours at $0 \pm 2^{\circ}\text{C}$ ($32 \pm 3.6^{\circ}\text{F}$).

72.6.6.4.2 After three cycles of the conditioning described in 72.6.6.4.1, the heaters shall comply with Dielectric Voltage-Withstand Test, Section 66.

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BSR/UL 1203, Standard for Safety for Explosion-Proof and Dust-Ignition Proof Electrical Equipment for Use in Hazardous (Classified) Locations

1. Revisions to 10.2.1 and Section 34

PROPOSAL

10.2.1 When a part that is not intended to be removed after assembly, and that is not required to be opened to install or service the equipment is ~~sealed~~ cemented with a ~~sealing~~ cemented compound, the ~~sealing~~ compound shall comply with the following as applicable:

- a) Epoxy and RTV silicone rubber shall resist solvent action in compliance with Section 34, Tests on Sealing Compounds;
- b) RTV silicone rubber shall resist aging in accordance with the air-oven aging test method found in Section 41.3 Resist moisture in compliance with Section 89, High Humidity Tests; and
- c) Plaster-based cements shall resist moisture in compliance with Section 89, High Humidity Tests; and Comply with the requirements of 25.2, without loosening or cracking, or showing other signs of deterioration.
- d) Comply with the requirements of 25.2, without loosening or cracking, or showing other signs of deterioration.

34 Chemical Resistance Tests on Sealing and Cementing Compounds

34.1 A ~~sealing compound material other than portland cement-based compounds and plaster-based materials which are~~ used in Class I equipment shall be subjected to the tests described in 34.2 - 34.7 to determine its resistance to chemicals.

34.2 The resistance to crushing of the sealing epoxy compound is to be determined on as-received specimens and specimens exposed to chemical vapors. The crushing force after exposure is to be at least 85 percent of the value determined using as-received samples. In addition, changes in dimensions and weight after exposure are to be determined. Shrinkage or loss of weight of more than 1 percent or an increase in weight or swelling that changes the intended properties of the sealing compound does not meet the intent of the requirement. See 34.8.

34.3 Cylindrical epoxy specimens 1/2 inch (12.7 mm) in diameter and 3/4 inch (19.1 mm) long are to be used for the tests. At least 81 specimens are required - six for each chemical and three for as-received tests. The samples shall be of uniform size and shape, having both ends perpendicular to the side of the cylinder.

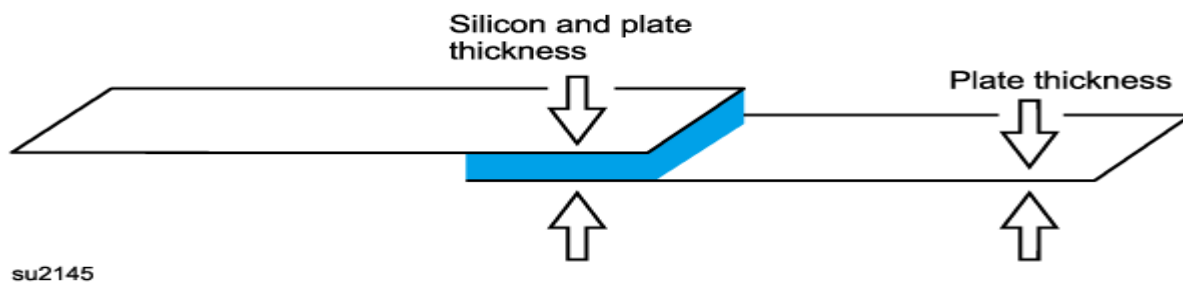
34.8 As an alternative, tests to determine resistance of the sealing epoxy compound to chemicals shall be conducted on a complete sample that incorporates the sealing compound as intended in the final assembly, without cable or conductors. These tests are to consist of explosion and hydrostatic pressure tests in accordance with Section 21, Explosion Tests, and Section 22, Hydrostatic Pressure Test, on the complete sample after the sample has been exposed to the chemicals specified in 33.3.2. There shall be no flame propagation, rupture, cracking, breakage, or other damage to the sealing compound.

34.9 The adhesive bond strength of formed-in-place RTV silicone rubber is used as a measure of the retention of physical properties following conditioning. Shearing force is to be determined on as-received specimens and specimens exposed to chemical vapors. The shearing force after exposure is to be at least 50 percent of the value determined using as-received samples.

34.10 At least 45 specimens are required - three for as-received tests three for each chemical and three for air-oven aging. The samples shall be in accordance with the form and dimensions of the test specimens that are specified in ASTM D 1002. See Figure 34.

Figure 34

RTV silicone rubber lapshear test sample



34.11 Thirty-nine specimens (three specimens for each chemical) are to be exposed for 168 hours (7 days) to saturated vapors in air of the chemicals specified in 33.2.3.

34.12 Three specimens are to be placed in an air-oven for accelerated aging in accordance with the test method described in 41.3.3 through 41.3.5.

34.13 Following conditioning, each specimen is placed, in turn, in the grips of a tensile testing machine. The loading is applied to the specimen and continued to the shear point. The result is recorded for each specimen and the average value for each group of specimens is to be calculated. The average value for conditioned specimens shall not be less than 50 percent of the average value for specimens as-received.

34.14 As an alternative, tests to determine resistance of the RTV silicone rubber to chemicals shall be permitted to be conducted on a complete sample that incorporates the sealing compound as intended in the final assembly. These tests are to consist of explosion and hydrostatic pressure tests in accordance with Section 21, Explosion Tests, and Section 22, Hydrostatic Pressure Test, on the complete sample after the sample has been exposed to the chemicals specified in 33.3.2. There shall be no flame propagation, rupture, cracking, breakage, or other damage to the sample.

2. Revisions to 15.1 and Section 24 to align UL 1203 with the current ferrous metal electrical enclosure corrosion protection requirements in UL 50E

PROPOSAL

15.1 All ferrous-metal parts other than stainless steel shall be protected against corrosion, except at joint surfaces and conduit threads, for example, by zinc or cadmium coating, plating, enameling, painting, varnishing, or lacquering. Joint surfaces and conduit threads are not prohibited from being electroplated. An enclosure of ferrous metal other than stainless steel shall be subjected to Section 24, Rust-Resistance Test comply with the applicable construction and test requirements for corrosion protection as is found in the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E.

24 Rust-Resistance Test Reserved

~~24.1 An enclosure of ferrous metal shall show no visible rust at the conclusion of the test specified in 24.2.~~

~~*Exception No. 1: This requirement does not apply to locations where protection is not capable of being used, such as sliding surfaces of hinges.*~~

~~*Exception No. 2: This requirement does not apply to joint surfaces, conduit threads, shafts, and similar locations.*~~

~~*Exception No. 3: An enclosure of stainless steel intended for use in indoor locations is not required to be subjected to this test.*~~

~~24.2 The enclosure or representative parts of the enclosure are to be subjected to a salt spray (fog) using the test in Standard Practice for Operating Salt Spray (Fog) Apparatus, ASTM B117, and employing a 5 percent by weight salt solution for 24 hours. At the end of the test, the specimens are to be removed from the chamber, washed in clean running water not warmer than 38°C (100°F) to remove salt deposits from the surface, and dried immediately. Corrosion products are not prohibited from being removed by light brushing when required to observe corrosion of the underlying surface.~~

BSR/UL 1647, Standard for Safety for Motor-Operated Massage and Exercise Machines

4.6 AUTOMATICALLY CONTROLLED APPLIANCE FUNCTION – An appliance function is considered to be automatically controlled if:

- a) The repeated starting of the appliance or a portion of the appliance, beyond one complete predetermined cycle of operation to the point where some form of limit switch opens the circuit, is independent of any manual control;
- b) During any single predetermined cycle of operation, the motor is caused to stop and restart one or more times;
- c) Upon energizing the appliance, the initial starting of a motor may be intentionally delayed beyond normal, conventional starting; or
- d) During any single predetermined cycle of operation, automatic changing of the mechanical load may reduce the speed of a motor sufficiently to reestablish starting-winding connections to the supply circuit.

5.19.2 A non-Class 2 power supply shall comply with the Standard for Power Units Other Than Class 2, UL 1012 with one of the following:

- a) The Standard for Power Units Other Than Class 2, UL 1012;
- b) The Standard for Information Technology Equipment, Part 1 General Requirements, UL 60950-1.

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BSR/UL 8750, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products

4. Add Supplement SA - Requirements for safety-related electronic circuits

SA3.1 To ensure an acceptable level of circuit redundancy or supervision, Safety-related electronic circuits shall be subject to the reliability evaluation in Reliability Evaluation, Section SA4, if:

- a) All the critical failure modes of a critical control function or protective function cannot be clearly and completely identified and simulated;
- b) All the critical failure modes of safety-related software in programmable components cannot be clearly and completely identified and simulated;
- c) A protective function cannot be disabled without affecting the normal functioning of the product, or exhibiting a risk during a product test; or
- d) A fault in a critical control function causes the device to exceed the electrical or thermal limits under normal operation as defined in its product standard. The device need not function normally when faulted.

5. Revise footnote a in 3.24 to correct maximum ac + dc voltages for wet locations

3.24 RISK OF ELECTRIC SHOCK - A risk of electric shock exists between any two conductive parts or between a conductive part and earth ground if the continuous current flow between the two points exceeds the leakage current limits determined by the Leakage Current Measurement Test, Section 8.7, and if the open circuit voltage exceeds the following limits:

Waveform Type ^a	Maximum Voltage	
	Dry and Damp Locations	Wet Locations
Sinusoidal ac	30 V rms	15 V rms
Non-sinusoidal ac	42.4 V peak	21.2 V peak
dc ^{b, c}	60 V	30 V

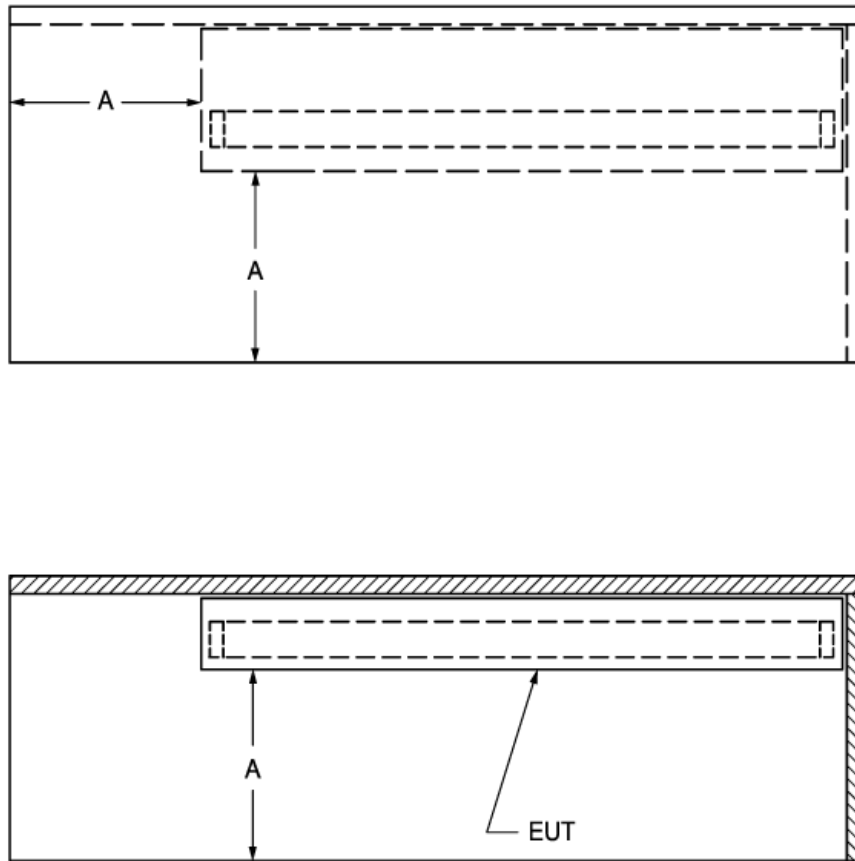
^a The voltage limits for a composite AC + DC waveform (V peak) shall be per Figure 3.24 3.1 based on the Direct Voltage component (V DC) of the waveform. The graph line for locations where wet contact is not likely to occur refers to Dry and Damp locations. The graph line for locations where wet contact is likely to occur refers to wet locations.

^b If the peak-to-peak ripple voltage on a dc waveform exceeds 10 percent of the dc voltage, the waveform shall be considered a combined composite waveform per footnote a above.

^c DC waveforms interrupted at frequencies between 10 - 200 Hz shall be limited to 24.8 V in dry and damp locations, and 12.4 V in wet locations.

7. Add Supplement SC - Requirements for Temperature Limited (Type TL) LED drivers

Figure 8.1.2
Temperature test alcove



su1699

Notes:

- 1) The upper drawing is the top view.
- 2) The lower drawing is a section through the center of the top view.
- 3) Dimension A is 300 mm (12 in).
- 4) EUT = equipment under test

8. Revise polymeric material requirements including requirements for secondary optics

Table 6.2

Polymeric enclosure requirements

Performance characteristic ^a	Function	
	Electrical enclosure	Fire enclosure
Impact ^b	X	X
UV Resistance ^c	X	X
Flammability		X ^{d,e}
Mold Stress	X	X
Comparative Tracking Index (CTI)		Performance Level Category (PLC) of 4 ^f
Hot Wire Ignition (HWI)		PLC of 3 ^f
High Ampere Arc (HAI)		PLC of 2 ^f
^a These characteristics are as specified in the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C. Polymeric parts with deficient minimum performance characteristics can be evaluated per applicable end-product requirements in UL 746C.		
^b 6.8 J (5 ft-lb) ball impact for dry or damp location, fixed or stationary units; 0.91 m (3 ft) drop impact for portable units. For damp or wet location, fixed units, the impact test is to be conducted after cold conditioning in accordance with UL 746C.		
^c For wet location units.		
^d V2 for portable units and track lighting luminaires.		
^e 5VA for fixed or stationary units except V0 for secondary optics. Also see <u>See</u> 6.3.4, 6.3.5, and 6.3.6 for additional options for secondary optics.		
^f Not required when all live parts are > 0.8 mm (0.030 in) from the material.		

6.3.4 The minimum flammability rating for a secondary optic that serves as a fire enclosure is permitted to be reduced from V0 per footnote e in Table 6.2 to V1 if:

- a) All polymeric materials (such as materials associated with printed wiring boards, conformal coatings, connectors, insulated wires and tubing, and the like) have a minimum flame rating of V1 or VW-1; and
- b) LED packages have been evaluated to the applicable requirements for LED packages in Supplement SD.

6.3.5 The minimum flammability rating for a secondary optic that serves as a fire enclosure is permitted to be reduced from V0 per footnote e in Table 6.2 to HB if, in addition to compliance with the requirements in 6.3.4, the secondary optic has a glow wire rating of 750°C (1382°F) or better in accordance with the Fire Hazard Testing – Part 2-11: Glowing/hot wire based test methods – Glow wire flammability test method for end-products, IEC 60695-2-11.

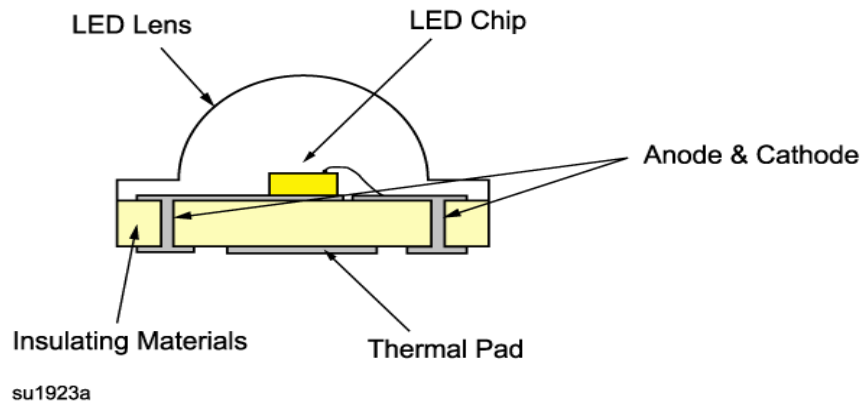
6.3.6 If a fire barrier consisting of metal or of a polymeric material having a minimum flammability rating of V0 5VA is positioned between a circuit that represents a risk of fire and the secondary optic, the secondary optic need only be evaluated as an electrical enclosure per the requirements in Table 6.2. LED packages that

comply with the applicable requirements of this standard (see Supplement SD) as suitable to form a part of an enclosure need not be covered by the fire barrier.

9. Add Supplement SD - Requirements for light emitting diode packages

Figure SD1.1

Typical LED package construction - single emitter



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SD3.1A Dry locations

SD3.1A.1 LED packages designated by the manufacturer for the characteristics tabulated below shall be subjected to the Steady Force Test, Section SD7:

- a) Suitable for dry locations,
- b) Suitable for operation from other than Class 2 circuits, and
- c) Suitable to form part of an enclosure.

Exception: LED lens securement using integrally-molded compounds or fusion techniques, such as solvent cementing, ultrasonic welding, electromagnetic induction, and thermal welding are permitted without test.

~~SD4.1 LED lens securement~~

~~SD4.1.1 LED packages designated by the manufacturer for the characteristics tabulated below shall be subjected to the Steady Force Test, Section SD7:~~

- ~~a) Suitable for operation from other than Class 2 circuits, and~~
- ~~b) Suitable to form part of an enclosure.~~

~~Exception: LED lens securement using integrally-molded compounds or fusion techniques, such as solvent cementing, ultrasonic welding, electromagnetic induction, and thermal welding are permitted without test.~~

SD4.3.1 PWBs of LED packages that are designated by the manufacturer as suitable for operation from other than Class 2 circuits shall comply with the Standard for Printed Wiring Boards, UL 796, with maximum operating temperature (MOT) and flame ratings as noted in SD4.4.1 and SD4.5.1, respectively.

Exception No. 1: Ceramic substrates with patterned metal electrical vias are not subject to this requirement.

Exception No. 2: PWBs meeting both exceptions in SD4.4.1 and SD4.5.1 need not comply with the Standard for Printed Wiring Boards, UL 796.

SD4.4.1 Polymeric and other insulating materials shall have relative thermal index (RTI) or the generic thermal index ratings which are equal to or exceed the manufacturer-designated LED package maximum junction temperature. PWBs shall have maximum operating temperature (MOT) ratings which are equal to or exceed the manufacturer-designated LED package maximum junction temperature.

Exception No. 1: Ceramic substrates are not subject to this requirement.

Exception No. 2: LED packages that comply with Thermal Aging, Section SD8, need not comply with this requirement.