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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: January 3, 2016

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

Addenda

BSR/ASHRAE/IES Addendum ao to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum sets the baseline to non-adiabatic humidification to encourage the use of adiabatic humidification systems in buildings where humidification is required.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum bj to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

The intent of this addendum is to encourage the use of chilled water coils with larger heat transfer surface areas to generate a high change in temperature.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum bo to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum clarifies the wording for exception 5 to Section 5.5.4.4.1 related to the SHGC credit for shading by permanent projections.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum bw to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum will provide a baseline for lighting controls consistent with Addendum BM.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cd to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum adds a new product class and corresponding efficiency requirements for Dedicated Outdoor Air Systems (DOAS). The addendum specifies minimum requirements for both air source and water source heat pump models in terms of an Integrated Seasonal Coefficient of Performance (ISCOP).

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cf to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This proposed addendum adds additional requirements to section 6.1.1.3.1 for direct replacement HVAC equipment.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cg to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum modifies the exterior Lighting Power Densities by changing the basis for determining an energy effective and achievable power density from typical HID or fluorescent to Light Emitting Technology (LED) technology where practical.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum ch to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum modifies the interior Lighting Power Densities for both space by space and building area to include LED technology as part of the basis for the LPD values.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cm to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum clarifies and simplifies the default U-factors within appendix A for wood panels and wood sub-floors, corrects the dimensional lumber sizes in the tables, and re-organizes the material list by putting similar materials together.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cn to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This revision to Standard 90.1 was developed in response to the update of ASHRAE Standard 169-2013, Climatic Data for Building Design Standards, and covers additional criteria for Climate Zone 0 applicable to Appendix G.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cq to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

Motors on heat-rejection equipment often are supplied with service factors in order to allow for startup and operation in all climates with no motor overload. This clarifies that the maximum motor horsepower based on the service would be used to establish compliance.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum cr to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

It is common to see VFD-driven pumps with balancing, multi-purpose, or "triple-duty" valves on their discharges that are set by bypassing the VFD to 60 Hz, then balancing the pump flow, and then putting the VFD back into automatic mode. This adds a permanent pressure loss to the system. This addendum prohibits that practice.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum ct to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

While water is the most popular heat-transfer fluid in economizers that indirectly cool supply air and reject heat to the atmosphere, any fluid may be used. Lately, products using refrigerant as the fluid have come onto the market. These products still have to meet the same requirements for sizing and integration as economizers using water as the fluid.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum da to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum clarifies that trade-off credit is not available for unmodified existing building components when using Appendix G as a method for compliance with the standard. It also clarifies that future building components (those not yet designed) are assumed to meet the requirements of Sections 6, 7, and 9 as required by Table G3.1.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum db to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum modifies the standard to try to use consistent terminology when a building official or rating authority is responsible for reviewing a model when using the Energy Cost Budget Method or Performance Rating Method.

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

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

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

Addenda

BSR/ASHRAE/IES Addendum dc to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

As a part of process of updating the Normative References in Chapter 12, the reference to Standard 55-2010 was updated to Standard 55-2013. In the 2013 version of Standard 55, the sections referenced by 90.1, Appendix G were renumbered.

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

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

NSF (NSF International)

Revision

BSR/NSF 5-201x (i6r3), Water heaters, hot water supply boilers, and heat recovery equipment (revision of ANSI/NSF 5-2012)

This Standard contains requirements for heat recovery equipment and equipment intended to provide hot water heated by electricity, gas, steam, or oil. The types of equipment covered by this Standard include, but are not limited to: automatic storage water heaters, circulating water heaters, hot-water supply boilers, and steam heat exchangers. Instantaneous water heaters used to heat water other than for beverages are covered under this Standard.

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

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

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 60335-2-79-201X, Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for High Pressure Cleaners (Proposal dated 12-04-15) (national adoption with modifications of IEC 60335-2-79)

This Recirculation proposal provides revisions to the UL 60335-2-79 proposal dated 9-4-15.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 796-201x, Standard for Safety for Printed-Wiring Boards (revision of ANSI/UL 796-2013)

The following items are proposed new and revised requirements of UL 796: (a) Clarification of requirements for direct support of current-carrying parts in Paragraph 9.3.1; (b) Addition of requirements describing the Maximum Area Diameter on the Bond Strength and Delamination Test Pattern in new Section 10.8A; and (c) Removal of the reference to Dissimilar Material Thermal Cycling from Table 24.1.

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

Send comments (with copy to psa@ansi.org) to: Derrick Martin, (408) 754-6656, Derrick.L.Martin@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 817-201X, Standard for Safety for Cord Sets and Power-Supply Cords (Proposal dated 12-04-15) (revision of ANSI/UL 817-2015)

This proposal includes an increase in the ampacity rating for an 18 and 17 AWG seasonal-use cord set.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

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

(1) Change to polymeric materials specification and nichrome wire evaluation.

[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

Comment Deadline: January 18, 2016

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

BSR X9.112-1-201x, Wireless Management and Security - Part 1: General Requirements (revision of ANSI X9.112-1-2009)

Wireless Technology is providing communication tools for the ubiquitous office and other financial services environments. The currently deployed wireless technology has significant security concerns and issues. This Wireless Management and Security standard is applicable to wireless environments transmitting financial information; and will (i) establish a technology framework in which (ii) risks and requirements will be defined, (iii) management policy and practices will be addressed, and (iv) audit evaluation criteria will be provided suitable for use by a professional practitioner.

Single copy price: \$100.00

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

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

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

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

BSR X9.121-201x, Balance and Transaction Reporting Standard BTRS Version 3 (BTR3) (revision of ANSI X9.121-2014)

The BAI Codes Type 2 has been in use in the United States and elsewhere for a period of time. BAI has legally transferred the copyright to X9. These codes are widely used in the area of cash management reporting by banks and corporations. The project will convert the existing codes into a formal cash reporting standard and update all relevant areas. Given the widespread international use of the BAI codes, the final work product will consider the needs of a broader community, including ISO 20022.

Single copy price: Free

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

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

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

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

Addenda

BSR/ASHRAE/IES Addendum co to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This addendum updates these normative references to those versions to be used in the 2016 standard; adds new references that exist in the standard, but are not currently listed in Section 12; and deletes references no longer used in the standard.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

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

Addenda

BSR/ASHRAE/IES Addendum cp to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

The purpose of this addendum is to provide a U-factor calculation procedure for metal building wall assemblies with filled cavity insulation systems and to add U-factor values to Table A3.2.3 calculated using this procedure.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

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

Addenda

BSR/ASHRAE/IES Addendum cv to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)

This proposal updates the motor efficiency standards that are currently shown in Section 6 due to new federal standards will go into effect on June 1, 2016.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

AWS (American Welding Society)

Revision

BSR/AWS C7.3M/C7.3-201x, Process Specification for Electron Beam Welding (revision of ANSI/AWS C7.3-1999 (R2003))

This specification addresses processing and quality control requirements for electron beam welding. Processing includes both high- and low-voltage welding equipment and high and medium vacuum variations.

Single copy price: \$52.00

Obtain an electronic copy from: pportela@aws.org

Order from: Peter Portela, (305) 443-9353, pportela@aws.org

Send comments (with copy to psa@ansi.org) to: Peter Portela, (305) 443-9353, pportela@aws.org

AWWA (American Water Works Association)

New Standard

BSR/AWWA B507-201x (was B50A-201x), Phosphoric Acid (new standard)

This standard describes phosphoric acid (H3PO4) corrosion inhibitor in liquid form used in the treatment of potable water, wastewater, and reclaimed water.

Single copy price: \$20.00

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

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

AWWA (American Water Works Association)

Revision

BSR/AWWA C215-201x, Extruded Polyolefin Coatings for Steel Water Pipe (revision of ANSI/AWWA C215-2010)

This standard describes the materials, systems, and application requirements for shop-applied, extruded polyolefin coatings for the exterior of steel water pipes.

Single copy price: \$20.00

Obtain an electronic copy from: vdavid@awwa.org

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

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

AWWA (American Water Works Association)

Revision

BSR/AWWA D115-201x, Tendon-Prestressed Concrete Tanks (revision of ANSI/AWWA D115-2006)

This standard describes current and recommended practice for the design, construction, and field observations of concrete tanks using tendons for prestressing. This standard applies to containment structures for use with potable water, raw water, or wastewater.

Single copy price: \$20.00

Obtain an electronic copy from: vdavid@awwa.org

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

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

NEMA (ASC C119) (National Electrical Manufacturers Association)**Revision**

BSR C119.4-201x, Connectors for Use between Aluminum-to-Aluminum and Aluminum-to-Copper Conductors Designed for Normal Operation at or Below 93°C and Copper-to-Copper Conductors Designed for Normal Operation at or Below 100°C (revision of ANSI C119.4-2010)

This standard covers connectors used for making electrical connections between aluminum-to-aluminum or aluminum-to-copper or copper-to-copper conductors used on distribution and transmission lines for electric utilities. This standard establishes the electrical and mechanical test requirements for electrical connectors. Additional optional tests are shown in the annexes. This standard is not intended to recommend operating conditions or temperatures.

Single copy price: \$129.00

Order from: Paul Orr, (703) 841-3227, Pau_orr@nema.org

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

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

BSR/NIST-ITL 1-2011 Update:2015, Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information (revision of ANSI/NIST-ITL 1-2011 Update:2013)

Correct Errata; Allow use of NIEM 3.0 encoding; Revision of the fringe ridge impressions (fingerprint, plantars, palms).

Single copy price: Free

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

Order from: biometrics-editor@nist.gov

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

NSF (NSF International)**Revision**

BSR/NSF 61-201X (i130), Drinking Water System Components - Health effects (revision of ANSI/NSF 61-2015)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking water system products, components, or materials.

Single copy price: Free

Obtain an electronic copy from: http://standards.nsf.org/apps/group_public/download.php/29780/Combined%2061i130r1%20%26%20JC%20memo.pdf

Order from: Monica Leslie, (734) 827-5643, mleslie@nsf.org

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

SCTE (Society of Cable Telecommunications Engineers)**New Standard**

BSR/SCTE 224-201x, Event Scheduling and Notification Interface (new standard)

This document defines the Event Scheduling and Notification Interface (ESNI), which is a web interface facilitating the transmission of event and policy information. ESNI provides a functional method for providers to communicate upcoming schedule or signal-based events and corresponding policy to distributors. This interface allows existing content distribution controls traditionally performed via manual control in IRD's by providers to be replaced with a programmatic interface (this standard). ESNI policy enables control of content distributed to audiences based on attributes of that audience including (but not limited to) geographic location and device type.

Single copy price: \$50.00

Obtain an electronic copy from: standards@scte.org

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

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

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

BSR/UL 355-2011 (R201x), Standard for Cord Reels (reaffirmation of ANSI/UL 355-2011)

These requirements cover cord reels for general use, as well as cord reels - referred to in this standard as "special-use cord reels" - intended to be mounted on or in electrical utilization equipment such as appliances, portable lamps, or similar equipment. These requirements also cover reels for use in factories, household workshops, garages, commercial facilities and construction sites where an additional degree of protection against the risk of the entrance of water, dust or other contaminants might be needed. A cord reel, as covered by these requirements, is a reel equipped with, or intended for use with, a length of flexible cord.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Alan McGrath, (847) 664-3038, alan.t.mcgrath@ul.com

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

BSR/UL 94-201x, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2015)

1. UL 94 Proposal: Reference to the figurative examples of IEC 60695-11-20 in 5V Test Method.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: Raymond Suga, (631) 546-2593, raymond.m.suga@ul.com

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

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

BSR/UL 147B-201x, Standard for Safety for Nonrefillable (Disposable) Type Metal Container Assemblies for Butane (revision of ANSI/UL 147B-2008 (R2013))

This proposal includes the addition of cylinder connection dimensions.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 746F-201x, Standard for Safety for Polymeric Materials - Flexible Dielectric Film Materials for Use In Printed-Wiring Boards and Flexible Materials Interconnect Constructions (revision of ANSI/UL 746F-2012)

The following items are the proposed new and revised requirements for UL 746F: (a) Addition of requirements for an Alternate Condition for Flammability samples to new Paragraphs 4.3 and 4.4; (b) Addition of references to Section 7 and Table 7.1 of UL 746B, and to Section 8 of UL 746F, to Paragraph 8.1.1; (c) Addition of requirements to clarify the required samples for IR testing of Non-Homogenous Films to Table 8.2; (d) Addition of requirements for sample thickness tolerance to a new Table 8.6; (e) Replacement of references to Thermal Shock with references to Thermal Stress throughout UL 746F; and (f) Deletion of the reference to Coverlay Test from Paragraph 12.3.2.

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: Derrick Martin, (408) 754-6656, Derrick.L.Martin@ul.com

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

BSR/UL 2515A-201x, Standard for Safety for Supplemental Requirements for Extra Heavy Wall Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (revision of ANSI/UL 2515A-2014)

Based on a previous proposal that did not achieve consensus, this document (dated 12-04-2015) proposes new requirements to evaluate Extra Heavy Wall Aboveground RTRC for use at extended support distances as permitted by the NEC.

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: Paul Lloret, (408) 754-6618, Paul.E.Lloret@ul.com

VC (ASC Z80) (The Vision Council)**New National Adoption**

BSR/ISO 7988-201x, Spectacle Frames - Lists of Equivalent Terms and Vocabulary (identical national adoption of ISO 7988)

This International Standard defines commonly used terms relating to frames for spectacles and eyeglasses.

Single copy price: \$75.00

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

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

VC (ASC Z80) (The Vision Council)**New National Adoption**

BSR/ISO 8624-201x, Spectacle Frames - Measuring System and terminology (identical national adoption of ISO 8624)

This International Standard specifies a measuring system for spectacle frames. It applies to fronts which are intended to be symmetrical.

Single copy price: \$75.00

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

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

VC (ASC Z80) (The Vision Council)**New National Adoption**

BSR/ISO 12870-201x, Spectacle Frames - Requirements and Test Methods (identical national adoption of ISO 12870)

This International Standard specifies fundamental requirements for unglazed spectacle frames designed for use with all prescription lenses. It is applicable to frames at the point of sale by the manufacturer or supplier to the retailer. This International Standard is applicable to all spectacle frame types, including rimless mounts, semi-rimless mounts and folding spectacle frames. It is also applicable to spectacle frames made from natural organic materials. This International Standard is not applicable to complete custom-made spectacle frames or to products designed specifically to provide personal eye protection.

Single copy price: \$75.00

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

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

Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI.

Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

AAMI (Association for the Advancement of Medical Instrumentation)

AAMI/IEC TIR 60878-201x, Graphical Symbols for Electrical Equipment in Medical Practice (TECHNICAL REPORT) (technical report)

This technical report provides a comprehensive compilation, for easy reference, of graphical symbols (graphics, title, description) and safety signs for medical electrical equipment. The graphical symbols are grouped in sections according to their specific field of application.

Single copy price: \$390.00 (Nonmembers)/\$234.00 (for AAMI members)

Order from: <http://my.aami.org/store/>

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

INCITS/ISO/IEC TR 18015:2006 [2015], Information technology - Programming languages, their environments and system software interfaces - Technical Report on C++ Performance (technical report)

The aim of this technical report is to:

- give the reader a model of time and space overheads implied by use of various C++ language and library features;
- debunk widespread myths about performance problems
- present techniques for use of C++ in applications where performance matters; and
- present techniques for implementing C++ standard language and library facilities to yield efficient code.

Single copy price: \$265.00

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

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

Correction

Incorrect Call-for-Comment Listing

BSR/UL 746F

The public review (call for comment) for UL 746F that was announced in the November 20, 2015 edition of Standards Action was published in error. The call for comment that is published in the December 4, 2015 issue of Standards Action is correct. Please direct any questions to Derrick L. C. Martin (Derrick.L.Martin@ul.com).

Call for Members (ANS Consensus Bodies)

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

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 S1.6-201X, Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements (revision of ANSI/ASA S1.6-1984 (R2011))

BSR/ASA S1.8-201X, Reference Values for Levels Used in Acoustics and Vibrations (revision of ANSI/ASA S1.8-1989 (R2011))

CSA (CSA Group)

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

Contact: Cathy Rake

Phone: (216) 524-4990 x88321

Fax: (216) 520-8979

E-mail: cathy.rake@csagroup.org

BSR CSA HGV 5.1-201x, Residential Fueling Appliances - Hydrogen Powered (new standard)

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

Office: 100 Bureau Drive
Stop 8900 NIST
Gaithersburg, MD 20899-8900

Contact: Patricia Flanagan

Phone: 301-975-4965

E-mail: biometrics-editor@nist.gov

BSR/NIST-ITL 1-2011 Update:2015, Data Format for the Interchange of Fingerprint, Facial & Other Biometric Information (revision of ANSI/NIST-ITL 1-2011 Update:2013)

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

UL (Underwriters Laboratories, Inc.)

Office: 455 E. Trimble Rd.
San Jose, CA 95131-1230

Contact: Marcia Kawate

Phone: (408) 754-6743

Fax: (408) 754-6743

E-mail: Marcia.M.Kawate@ul.com

BSR/UL 147B-201x, Standard for Safety for Nonrefillable (Disposable) Type Metal Container Assemblies for Butane (revision of ANSI/UL 147B-2008 (R2013))

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

BSR/UL 355-2011 (R201x), Standard for Cord Reels (reaffirmation of ANSI/UL 355-2011)

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

BSR/UL 796-201x, Standard for Safety for Printed-Wiring Boards (revision of ANSI/UL 796-2013)

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

BSR/UL 2515A-201x, Standard for Safety for Supplemental Requirements for Extra Heavy Wall Reinforced Thermosetting Resin Conduit (RTRC) and Fittings (revision of ANSI/UL 2515A-2014)

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

BSR/UL 60335-2-79-201X, Standard for Safety for Household and Similar Electrical Appliances, Part 2: Particular Requirements for High Pressure Cleaners (Proposal dated 12-04-15) (national adoption with modifications of IEC 60335-2-79)

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

Call for Members (ANS Consensus Bodies)

UL Standards Committees

Underwriters Laboratories (UL) seeks to have STPs in which an interest category does not make up more than one-third of the overall voting membership. UL is seeking representatives from the following interest categories to serve on STP 521, Heat Detectors:

AHJ: Those involved in the regulation or enforcement of the requirements of codes and standards at a regional (e.g., state or province) and/or local level. The authority having jurisdiction may be a regional or local department or individual such as a fire chief; fire marshal; chief of a fire prevention bureau, state department of insurance official, labor department, or health department; building official; electrical inspector; or others having statutory authority.

Commercial/Industrial User: Organizations that use the product, systems, or service covered by the applicable standards under the STP in a commercial or industrial setting. Examples include a restaurant owner/operator serving on an STP for commercial cooking equipment, or a gas station owner/operator serving on an STP for flammable liquid storage tanks. Representative of organizations that produce products, systems, or services covered by the standard, whose organization also use the product, system, or services, are not eligible for STP membership under this category.

Supply Chain: Component producers for an STP responsible for standards covering end-products or end-product producers for an STP responsible for standards covering components, installers, distributors, and retailers. Manufacturers who have no manufacturing facilities for the products covered by STP 521 but solely use contract manufacturers to make those products are considered part of the Supply Chain interest category. Wholesale or retail purchase-resellers for products made by other companies are also considered as part of the Supply Chain interest category.

Testing and Standards Organization: Organizations that test and/or certify products, services, or systems covered by the standard, or that develop standards/codes related to the products, services, or systems covered by the Standard.

STP 521 covers the following UL Standards for Safety:

UL 521, Heat Detectors for Fire Protective Signaling Systems
UL 539, Single and Multiple Station Heat Detectors

Inquiries regarding membership should be sent to:

Paul Lloret
Underwriters Laboratories Inc.
455 East Trimble Road
San Jose, CA 95131-1230
Phone: (408) 754-6618
E-mail: paul.e.lloret@ul.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.

AAMI (Association for the Advancement of Medical Instrumentation)

Reaffirmation

ANSI/AAMI ST15883-3-2012 (ISO 15883-3-2006)MOD-2012 (R2015), Washer-disinfectors, Part 3: Requirements and tests for washer-disinfectors employing thermal disinfection for human waste containers (reaffirmation of ANSI/AAMI ST15883-3-2012 (ISO 15883-3-2006)MOD): 11/23/2015

ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)-2013 (R2015), Washer-disinfectors, Part 2: Requirements and tests for washer-disinfectors employing thermal disinfection for surgical instruments, anaesthetic equipment, bowls, dishes, receivers, utensils, glassware, etc (reaffirmation of ANSI/AAMI ST15883-2-2013 (ISO 15883-2-2006 MOD)): 11/23/2015

ANSI/AAMI/ISO 11138-1-2006 (R2015), Sterilization of health care products - Biological indicators - Part 1: General requirements (reaffirmation of ANSI/AAMI/ISO 11138-1-2006 (R2010)): 11/23/2015

ANSI/AAMI/ISO 11138-2-2006 (R2015), Sterilization of health care products - Biological indicators - Part 2: Biological indicators for ethylene oxide sterilization processes (reaffirmation of ANSI/AAMI/ISO 11138-2-2006 (R2010)): 11/23/2015

ANSI/AAMI/ISO 11138-3-2006 (R2015), Sterilization of health care products - Biological indicators - Part 3: Biological indicators for moist heat sterilization processes (reaffirmation of ANSI/AAMI/ISO 11138-3-2006 (R2010)): 11/23/2015

ANSI/AAMI/ISO 11138-4-2006 (R2015), Sterilization of Health Care Products - Biological Indicators - Part 4: Biological Indicators for Dry Heat Sterilization Processes (reaffirmation of ANSI/AAMI/ISO 11138-4-2006 (R2010)): 11/23/2015

ANSI/AAMI/ISO 11138-5-2006 (R2015), Sterilization of Health Care Products - Biological Indicators - Part 5: Biological Indicators for Low-Temperature Steam and Formaldehyde Sterilization Processes (reaffirmation of ANSI/AAMI/ISO 11138-5-2006 (R2010)): 11/23/2015

ANSI/AAMI/ISO 25539-3-2012 (R2015), Cardiovascular Implants - Endovascular Devices - Part 3: Vena Cava Filters (reaffirmation of ANSI/AAMI/ISO 25539-3-2012): 11/24/2015

AIAA (American Institute of Aeronautics and Astronautics)

New Standard

ANSI/AIAA-S-120A-2015, Mass Properties Control for Space Systems (new standard): 11/23/2015

ASME (American Society of Mechanical Engineers)

New Standard

ANSI/ASME PTC 4.3-2015, Air Heaters (new standard): 11/23/2015

Revision

ANSI/ASME B29.300-2015, Agricultural, Detachable and Pintle Chains, Attachments and Sprocket (revision of ANSI/ASME B29.300-1998 (R2008)): 11/23/2015

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

Revision

ANSI/ASSE A10.10-2015, Safety Requirements for Temporary and Portable Space Heating Devices and Equipment (revision of ANSI/ASSE A10.10-2014): 11/23/2015

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

Revision

ANSI N42.34-2015, Draft Standard Performance Criteria for Hand-Held Instruments for the Detection and Identification of Radionuclides (revision of ANSI N42.34-2006): 11/23/2015

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

Withdrawal

INCITS/ISO/IEC TR 18015:2006 [2010], Information technology - Programming languages, their environments and system software interfaces - Technical Report on C++ Performance (withdrawal of INCITS/ISO/IEC TR 18015:2006 [2010]): 11/24/2015

NACE (NACE International, the Corrosion Society)

New National Adoption

ANSI/NACE MR0175/ISO 15156-2015, Petroleum and natural gas industries-Materials for use in H₂S-containing environments in oil and gas production - Parts 1,2, and 3 (identical national adoption of ISO 15156: 2015): 11/23/2015

TIA (Telecommunications Industry Association)

New Standard

ANSI/TIA 604-18-2015, FOCIS 18 - Fiber Optic Connector Intermediateability Standard - Type MPO-16 (new standard): 11/23/2015

Revision

ANSI/TIA 102.AAAD-B-2015, Digital Land Mobile Radio Block Encryption Protocol (revision and redesignation of ANSI/TIA 102.AAAD-A-2009): 11/24/2015

UL (Underwriters Laboratories, Inc.)

Revision

- * ANSI/UL 923-2015, Standard for Safety for Microwave Cooking Appliances (revision of ANSI/UL 923-2013a): 11/11/2015
- * ANSI/UL 923-2015a, Standard for Safety for Microwave Cooking Appliances (revision of ANSI/UL 923-2015a): 11/11/2015
- * ANSI/UL 7001-2015, Sustainability Standard for Household Refrigeration Appliances (revision of ANSI/UL 7001-2014): 11/20/2015

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.

ASA (ASC S1) (Acoustical Society of America)

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

Contact: Susan Blaeser

Fax: (631) 923-2875

E-mail: asastds@acousticalsociety.org

BSR/ASA S1.6-201X, Preferred Frequencies, Frequency Levels, and Band Numbers for Acoustical Measurements (revision of ANSI/ASA S1.6-1984 (R2011))

Stakeholders: Acousticians, noise control engineers, researchers.

Project Need: This standard has not been updated since 1984. It needs to be reviewed in its entirety; references will be updated; the new edition will incorporate an erratum that corrected typos in the original publication. Major technical changes are not anticipated.

This standard defines the preferred frequencies or nominal band-center frequencies to be used for acoustical measurements. Frequency levels or band numbers are associated with these sets of frequencies and the preferred frequencies are rounded values obtained from those for which the corresponding frequency levels or band numbers are integers.

BSR/ASA S1.8-201X, Reference Values for Levels Used in Acoustics and Vibrations (revision of ANSI/ASA S1.8-1989 (R2011))

Stakeholders: Acousticians, noise control engineers, structural engineers, researchers.

Project Need: This standard has not been updated since 1989. The references are outdated. Additionally, with increased scientific emphasis on underwater acoustics, the committee wants to add reference quantities for that use. Finally, the committee plans to update reference quantities for vibrations to align with ISO 1683:2015.

This Standard provides certain reference values to be used in the expression of acoustical and vibratory levels. Level, when used in this standard, refers to a descriptor of mathematical calculation in which a ratio is used. The reference value is the denominator of that ratio.

ASABE (American Society of Agricultural and Biological Engineers)

Office: 2950 Niles Road
St Joseph, MI 49085

Contact: Carla VanGilder

Fax: (269) 429-3852

E-mail: vangilder@asabe.org

BSR/ASABE AD4254-13:2012 MONYEAR, Agricultural machinery - Safety - Part 13: Large rotary mowers (revision of ANSI/ASABE AD4254-13-2013)

Stakeholders: Mower manufacturers, test facilities, safety professionals.

Project Need: Correct three substantive typographical errors identified in the ISO standard that need to be fixed.

When used with ISO 4254-1, specifies safety requirements and their verification for design and construction of towed, semi-mounted, or mounted large rotary mowers with single or multiple cutting elements which have a cutting diameter of 1 000 mm or greater for any single cutting element assembly, mounted on a propelling tractor or machine, intended for agricultural mowing equipment and designed for shredding crop residue, grass and small brush by impact. Describes methods for the elimination/reduction of hazards arising from the intended use and reasonable foreseeable misuse of these machines by one person in the course of normal operation and service.

ASCE (American Society of Civil Engineers)

Office: 1801 Alexander Bell Dr
Reston, VA 20191

Contact: James Neckel

E-mail: jneckel@asce.org

* BSR/ASCE/EWRI 42-201x, Standard Practice for the Design, Conduct, and Evaluation of Operational Precipitation Enhancement Projects (new standard)

Stakeholders: Water resource managers, project managers, engineers, water planners.

Project Need: Design, operational procedures, and evaluation of a cloud seeding program that should include long-range as well as short-range aspects in the interpretation of results and the practical significance of the overall findings.

This document, Standard Practice for the Design, Conduct, and Evaluation of Operational Precipitation Enhancement Projects, is intended to provide water resources managers and others with the standard approach for designing, operating, and evaluating precipitation enhancement projects.

ASTM (ASTM International)

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

Contact: Corice Leonard

Fax: (610) 834-3683

E-mail: accreditation@astm.org

BSR/ASTM WK52244-201x, New Specification for Airsoft Face and Ear Protectors used with Airsoft Eye Protective devices defined in ASTM F2879 (new standard)

Stakeholders: Eye Safety for Sports industry.

Project Need: This specification applies to face and ear protective devices used in conjunction with the eye protective devices specified in F2879 which are designed to be used by participants in the sport of airsoft using 6 mm airsoft projectiles.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK52244.htm>

AWS (American Welding Society)

Office: 8669 NW 36th Street, Suite 130
Miami, FL 33166

Contact: Jennifer Molin

Fax: (305) 443-5951

E-mail: jmolin@aws.org

BSR/AWS D1.1/D1.1M-201x, Structural Welding Code - Steel (revision of ANSI/AWS D1.1/D1.1M-2015)

Stakeholders: Structural steel fabricators, welding equipment manufacturers, welding filler metal manufacturers, welding consultants, structural-steel engineering firms, structural-steel inspectors and firms, and testing agencies.

Project Need: Industry needs a standard for weld design, weld fabrication, weld inspection, and weld quality control of welded steel structures.

This code covers the welding requirements for any type of welded structure made from the commonly used carbon and low-alloy constructional steels. Clauses 1 through 9 constitute a body of rules for the regulation of welding in steel construction. There are nine normative and eleven informative annexes in this code. A commentary of the code is included with the document.

BSR/AWS D1.2/D1.2M-201x, Structural Welding Code - Aluminum (revision of ANSI/AWS D1.2/D1.2M-2013)

Stakeholders: Structural aluminum fabricators, welding equipment manufacturers, welding filler metal manufacturers, welding consultants, structural aluminum engineering firms, structural aluminum inspectors and firms, and testing agencies.

Project Need: Industry needs a standard for weld design, weld fabrication, weld inspection, and weld quality control of welded aluminum structure.

This code covers the welding requirements for any type structure made from aluminum structural alloys, except for aluminum pressure vessels and pressure piping. Clauses 1 through 8 constitute a body of rules for the regulation of welding in aluminum construction. A commentary on the code is also included with the document.

BSR/AWS D1.7/D1.7M-201x, Guide for Strengthening and Repairing Existing Structures (revision of ANSI/AWS D1.7/D1.7M-2010)

Stakeholders: Engineers, contractors.

Project Need: Structural engineers and others involved in the rehabilitation of existing structures rarely have the specialized technical references readily available to assist in the work. As a consequence, many assumptions are made by both the engineer and contractor in performing the work, sometimes leading to poor results. D1.1, section 8, requires certain items to be considered, but only a minimum level of technical guidance and resources are provided in the commentary to assist the engineer and contractor in performing these tasks. To provide such information in the commentary would be excessive and beyond the scope of the minimal Code provisions.

The guide provides information on strengthening and repairing existing structures. Included are sections on weldability, evaluation of existing welds, testing and sampling, heat straightening, and damage repair.

BSR/AWS D1.8/D1.8M-201x, Structural Welding Code - Seismic Supplement (revision of ANSI/AWS D1.8/D1.8M-2009)

Stakeholders: Manufacturers, welders, engineers, fabricators, designers.

Project Need: This code is intended to be applicable to welded joints in Seismic Force Resisting Systems designed in accordance with the AISC Seismic Provisions.

The provisions of this code supplement the provisions of AWS D1.1/D1.1M, Structural Welding Code - Steel, and shall apply to the design, fabrication, quality control, and quality assurance of welded joints designed in accordance with the AISC Seismic Provisions for Structural Steel Buildings. All provisions of AWS D1.1/D1.1M for statically loaded structures shall apply to the designated welds, except as specifically modified in this standard.

CSA (CSA Group)

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

Contact: Cathy Rake

Fax: (216) 520-8979

E-mail: cathy.rake@csagroup.org

* BSR CSA HGV 5.1-201x, Residential Fueling Appliances - Hydrogen Powered (new standard)

Stakeholders: Consumers, manufacturers, gas suppliers, certification agencies, regulators.

Project Need: Standard needed for safety.

This standard details the mechanical and electrical requirements for newly manufactured systems that dispense hydrogen gas for vehicles directly into the vehicle fuel storage container and are installed in non-commercial/non-public locations. This standard does not apply to the nozzle, hose assemblies, and connection devices associated with such equipment.

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

Office: 18927 Hickory Creek Drive
Suite 220
Mokena, IL 60448

Contact: *Marianne Waickman*

Fax: (708) 479-6139

E-mail: marianne.waickman@asse-plumbing.org

BSR/ASSE 4000-201x, Professional Qualifications Standard for Legionella Prevention Specialist (new standard)

Stakeholders: Building owners, managers, operators and water management teams as well as plumbing professionals, engineers, inspectors, and AHJs.

Project Need: There is not currently a standard for individuals who serve on a building water systems risk management team.

This standard applies to any individual involved in the design, installation, maintenance, and specification of a building water systems as it relates to minimizing the growth of Legionella bacteria. This standard compliments ASHRAE 188-2015. Legionellosis: Risk Management for Building Water Systems. That Standard requires numerous people to serve on a building water systems risk management team. This standard identifies a minimum level of knowledge required to assess and minimize the risk of Legionella.

BSR/ASSE Series 16000-201x, Professional Qualifications Standard for the Plumbing Inspector (revision of ANSI/ASSE Series 16000-2012)

Stakeholders: Inspectors, plumbers, contractors, AHJs and the general public.

Project Need: Need to revise the standard to meet current plumbing inspector requirements.

This standard applies to an individual who inspects plumbing systems.

BSR/ASSE Series 17000-201x, Professional Qualifications Standard for the Mechanical Inspector (revision of ANSI/ASSE Series 17000-2012)

Stakeholders: Inspectors, contractors, AHJs, plumbers, pipefitters, HVAC/R technicians and the general public.

Project Need: Need to revise standard to meet the current requirements of a mechanical inspector.

This standard applies to an individual who inspects mechanical systems.

IESNA (Illuminating Engineering Society of North America)

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

Contact: *Patricia McGillicuddy*

E-mail: pmcgillicuddy@ies.org

BSR/IES LM-79-201x, Electrical and Photometric Measurements of Solid-State Lighting Products (new standard)

Stakeholders: Independent and manufacturers' testing laboratories

Project Need: Provides new procedures for performing reproducible measurements for solid-state lighting products.

This method describes the procedures to be followed and precautions in performing measurements of total luminous flux, electrical power, luminous intensity and chromaticity of SSL products for illumination purposes under standard conditions.

BSR/IES LM-88-201x, IES Approved Method for the Electrical and Photometric Measurements of AC-Driven LEDs (new standard)

Stakeholders: Independent and manufacturers' testing laboratories

Project Need: Describes procedures for accurate measurements of AC driven light emitting diodes.

Describes the procedures for accurate measurements of total luminous flux, total radiant flux, photo flux, electrical power, luminous efficacy, chromaticities, and wavelengths of high-power alternating current LEDs, including white and monochromatic AC-LEDs.

UL (Underwriters Laboratories, Inc.)

Office: 333 Pfingsten Road
Northbrook, IL 60062-2096

Contact: *Jeff Prusko*

Fax: (847) 313-3416

E-mail: jeffrey.prusko@ul.com

BSR/UL 2743-201x, Standard for Portable Power Packs (new standard)

Stakeholders: Portable power pack manufacturers, retailers, authorities having jurisdiction, consumers, battery manufacturers, manufacturers of components of portable power packs.

Project Need: UL is proposing a first edition ANSI standard covering portable power packs. Currently there is no nationally recognized standard in the US covering these products.

These requirements cover portable and movable power packs provided with one or more lead acid or lithium ion batteries. The power packs are provided with one or more inputs; and they are provided with one or more outputs. For power packs provided with a booster function, the power packs are used for providing a temporary power source to a depleted land vehicle battery, rated 12 or 24 V, to provide emergency starting power.

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>AAMI Association for the Advancement of Medical Instrumentation 4301 N Fairfax Drive Suite 301 Arlington, VA 22203-1633 Phone: (703) 253-8274 Fax: (703) 276-0793 Web: www.aami.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle NE Atlanta, GA 30329 Phone: (404) 636-8400 Fax: (678) 539-2138 Web: www.ashrae.org</p>	<p>IAPMO (ASSE Chapter) ASSE International Chapter of IAPMO 18927 Hickory Creek Drive Suite 220 Mokena, IL 60448 Phone: (708) 995-3015 Fax: (708) 479-6139 Web: www.asse-plumbing.org</p>	<p>NIST/ITL National Institute of Standards and Technology/Information Technology Laboratory 100 Bureau Drive Stop 8900 NIST Gaithersburg, MD 20899-8900 Phone: 301-975-4965 Web: www.nist.gov</p>
<p>AIAA American Institute of Aeronautics and Astronautics 12700 Sunrise Valley Drive, Suite 200 Reston, VA 20191-5807 Phone: (703) 264-7546 Web: www.aiaa.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>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>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3817 Fax: (734) 827-7875 Web: www.nsf.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>ASSE (Safety) American Society of Safety Engineers 520 N. Northwest Highway Park Ridge, IL 60068 Phone: (847) 768-3411 Fax: (847) 296-9221 Web: www.asse.org</p>	<p>IESNA Illuminating Engineering Society of North America 120 Wall St. 17th Floor New York, NY 10005 Phone: (212) 248-5000 Web: www.iesna.org</p>	<p>SCTE Society of Cable Telecommunications Engineers 140 Philips Road Exton, PA 19341-1318 Phone: (480) 252-2330 Fax: (610) 363-5898 Web: www.scte.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>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>ITI (INCITS) InterNational Committee for Information Technology Standards 1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 626-5746 Fax: (202) 638-4922 Web: www.incits.org</p>	<p>TIA Telecommunications Industry Association 1320 North Courthouse Road Suite 200 Arlington, VA 22201 Phone: (703) 907-7497 Fax: (703) 907-7727 Web: www.tiaonline.org</p>
<p>ASC X9 Accredited Standards Committee X9, Incorporated 1212 West Street Suite 200 Annapolis, MD 21401 Phone: (410) 267-7707 Fax: (410) 267-0961 Web: www.x9.org</p>	<p>AWS American Welding Society 8669 NW 36th Street, Suite 130 Miami, FL 33166 Phone: (305) 443-9353 Fax: (305) 443-5951 Web: www.aws.org</p>	<p>NACE NACE International, the Corrosion Society 15835 Park Ten Place Houston, TX 77084 Phone: (281) 228-6203 Fax: (281) 228-6387 Web: www.nace.org</p>	<p>UL Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 Phone: (847) 664-3416 Fax: (847) 313-3416 Web: www.ul.com</p>
<p>ASCE American Society of Civil Engineers 1801 Alexander Bell Dr Reston, VA 20191 Phone: 703-295-6176 Web: www.asce.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Fax: (303) 795-7603 Web: www.awwa.org</p>	<p>NEMA (ASC C12) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3227 Fax: (703) 841-3327 Web: www.nema.org</p>	<p>VC (ASC Z80) The Vision Council 225 Reinekers Lane Suite 700 Alexandria, VA 22314 Phone: (703) 740-1094 Fax: (703) 548-4580 Web: www.z80asc.com</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>		



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.

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ISO Standards

ACOUSTICS (TC 43)

ISO/DIS 12354-1, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 1: Airborne sound insulation between rooms - 2/28/2016, \$155.00

ISO/DIS 12354-2, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 2: Impact sound insulation between rooms - 2/28/2016, \$119.00

ISO/DIS 12354-3, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 3: Airborne sound insulation against outdoor sound - 2/28/2016, \$93.00

ISO/DIS 12354-4, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 4: Transmission of indoor sound to the outside - 2/28/2016, \$82.00

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 2292, Cocoa beans - Sampling - 2/27/2016, \$58.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 12604-1, Aircraft ground handling - Checked baggage - Part 1: Mass and dimensions - 2/28/2016, \$40.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 22514-5, Statistical methods in process management - Capability and performance - Part 5: Process capability estimates and performance for attributive characteristics - 12/28/2015, \$46.00

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

ISO/DIS 10993-4, Biological evaluation of medical devices - Part 4: Selection of tests for interactions with blood - 12/28/2015, \$146.00

CORROSION OF METALS AND ALLOYS (TC 156)

ISO/DIS 3651-3, Determination of resistance to intergranular corrosion of stainless steels - Part 3: Low-Cr ferritic stainless steels - Corrosion test in media containing sulfuric acid - 2/25/2016, \$40.00

EARTH-MOVING MACHINERY (TC 127)

ISO/DIS 13766-1, Earth-moving- and Building construction machinery - Electromagnetic compatibility of machines with internal electrical power supply - Part 1: General EMC requirements under typical EMC environmental conditions - 3/5/2016, \$107.00

ISO/DIS 13766-2, Earth-moving machinery - Electromagnetic compatibility - Part 2: EMC requirements under the aspect of functional safety - 3/5/2016, \$53.00

FERTILIZERS AND SOIL CONDITIONERS (TC 134)

ISO/DIS 19746, Determination of Urea Content in Urea-Based Fertilizers by High Performance Liquid Chromatography (HPLC) - 2/25/2016, \$58.00

FLOOR COVERINGS (TC 219)

ISO/DIS 19322, Resilient floor coverings - Specification for Floor coverings based on thermoplastic polymers - 12/28/2015, \$62.00

GAS CYLINDERS (TC 58)

ISO/DIS 10156, Gas cylinders - Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets - 2/28/2016, \$93.00

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 13655, Graphic technology - Spectral measurement and colorimetric computation for graphic arts images - 12/28/2015, \$119.00

HUMAN RESOURCE MANAGEMENT (TC 260)

ISO/DIS 30409, Human resource management - Workforce planning - 12/28/2015, \$93.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 20484, Non-destructive testing - Leak testing - Vocabulary - 12/28/2015, \$58.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO 20471/DAmD1, High visibility clothing - Test methods and requirements - Amendment 1 - 12/28/2015, \$29.00

PHOTOGRAPHY (TC 42)

ISO/DIS 18935, Imaging materials - Colour images - Determination of water resistance of printed colour images - 2/28/2016, \$46.00

ROAD VEHICLES (TC 22)

ISO/DIS 29061-3, Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 3: Installation of child restraint systems using vehicle seat belts - 2/28/2016, \$67.00

ISO/DIS 29061-5, Road vehicles - Methods and criteria for usability evaluation of child restraint systems and their interface with vehicle anchorage systems - Part 5: Installation and securing of child in a booster seat - 2/25/2016, \$67.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 19385, Rubber hoses and hose assemblies for water jetting or water blasting applications - 2/29/2016, \$58.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO 5395-3/DAMd2, Garden equipment - Safety requirements for combustion-engine-powered lawnmowers - Part 3: Ride-on lawnmowers with seated operator - Amendment 2: Cutting means enclosure guards - 2/28/2016, \$29.00

ISO/DIS 6531, Machinery for forestry - Portable chainsaws - Vocabulary - 2/27/2016, \$62.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 30124, Code of practice for the implementation of a biometric system - 12/28/2015, \$125.00

ISO/IEC DIS 30140-1, Underwater acoustic sensor network - Part 1: Overview and Requirements - 12/28/2015, \$125.00

IEC Standards

2/1806/NP, Future IEC 60034-XY: Rotating electrical machines - Part XY: Specific technical requirements for hydro generators, 03/04/2016

9/2110/FDIS, IEC 62847 Ed.1: Railway applications - Rolling stock - Electrical connectors - Requirements and test methods, 01/29/2016

9/2112/DTS, IEC 62580-2 TS Ed.1: Electronic railway equipment - On-board multimedia and telematic subsystems for railways - Part 2: Video surveillance/CCTV services, 03/04/2016

18/1479/CD, IEC 60092-302-2: Electrical installations in ships - Part 302-2: Marine Power switchgear and controlgear assemblies, 03/04/2016

23E/924/NP, PNW 23E-924: Power frequency overvoltage protective devices for household and similar applications (POP), 03/04/2016

23E/925/NP, PNW 23E-925: General requirements for residual current operated protective devices for D.C. system, 03/04/2016

31G/248/DC, Revision of IEC 60079-11:2011 Edition 6: Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i", 02/19/2016

40/2425/CD, IEC 60286-1 Ed.1: Packaging of components for automatic handling - Part 1: Tape packaging of components with axial leads on continuous tapes, 03/04/2016

45A/1060/FDIS, IEC 60965 Ed.3: Nuclear power plants - Control rooms - Supplementary control room for reactor shutdown without access to the main control room, 01/29/2016

48B/2466/CD, IEC 62946-01/Ed1: Connectors for electronic equipment - Part 01: Rectangular connectors - Detail specification for 8-way, shielded, free and fixed high density connectors for data transfer and with current up to 1A, 03/04/2016

48B/2470/CD, IEC 60512-28-100/Ed2: Connectors for electronic equipment - Tests and measurements - Part 28-100: Signal integrity tests up to 2000 mhz for IEC 60603-7 and IEC 61076-3 series connectors - Tests 28a to 28g, 03/04/2016

56/1653/FDIS, IEC 61882/Ed2: Hazard and operability studies (HAZOP studies) - Application guide, 01/29/2016

57/1649/DTS, IEC 61850-80-1 TS Ed.2: Communication networks and systems for power utility automation - Part 80-1: Guideline to exchanging information from a CDC- based data model using IEC 60870-5-101 or IEC 60870-5-104, 03/04/2016

62D/1304/CD, IEC 60601-2-16: Medical Electrical Equipment - Part 2-16: Particular requirements for the basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment, 01/29/2016

62D/1305/CD, IEC 60601-2-39: Medical Electrical Equipment - Part 2-39: Particular requirements for the basic safety and essential performance of peritoneal dialysis equipment, 01/29/2016

65A/779/FDIS, IEC 61511-3 Ed. 2.0: Functional safety - Safety instrumented systems for the process industry sector - Part 3: Guidance for the determination of the required safety integrity levels, 01/29/2016

65A/780/DTS, IEC/TS 61508-3-1 Ed. 1.0 Functional safety of electrical/electronic/programmable electronic safety-related systems - Part 3-1: Software requirements - Reuse of pre-existing software elements to implement all or part of a safety function, 03/04/2016

65E/490/FDIS, IEC 61987-12 Ed. 1.0; Industrial- Process Measurement and Control - Data Structures and Elements in Process Equipment Catalogues - Part 12: Lists of properties (LOP) for flow measuring equipment for electronic data exchange, 01/29/2016

77A/912/CDV, IEC 61000-3-2 (f2): Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase), 03/04/2016

82/1046/FDIS, IEC 61215-1 Ed.1: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1: Test requirements, 01/29/2016

82/1047/FDIS, IEC 61215-1-1 Ed.1: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 1-1: Special requirements for testing of crystalline silicon photovoltaic (PV) modules, 01/29/2016

82/1048/FDIS, IEC 61215-2 Ed.1: Terrestrial photovoltaic (PV) modules - Design qualification and type approval - Part 2: Test procedures, 01/29/2016

82/1050/NP, Testing of PV modules to differentiate performance in multiple climates and applications - Part 2: Test procedure for thermal cycling (proposed IEC 62892-2), 03/04/2016

82/1051/DTS, IEC 62257-9-5 TS Ed.3: Recommendations for renewable energy and hybrid systems for rural electrification - Part 9-5: Integrated systems - Selection of stand-alone lighting kits for rural electrification, 03/04/2016

82/1055/NP, Photovoltaics (PV) on roof, 03/04/2016

87/596/CD, Amendment 1 to IEC 62359: Ultrasonics - Field characterization - Test methods for the determination of thermal and mechanical indices related to medical diagnostic ultrasonic fields, 03/04/2016

88/573/NP, IEC 61400-X Ed.1: Wind energy generation systems - Part X: Electromagnetic Compatibility (EMC) - Requirements and test methods, 03/04/2016

91/1321/NP, Future IEC 62878-2-5: Device embedded substrate Part 2-5: Implementation of 3D data format requirements for device embedded substrate, 03/04/2016

95/339/NP, Measuring relays and protection equipment - Part 181: Functional requirements for frequency protection, 03/04/2016

- 104/670/CD, IEC 60721-3-2 Ed.3: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 2: Transportation and handling, 03/04/2016
- 105/558/DC, Proposed revision of IEC 62282-3-100 (2012) Ed.1: Fuel cell technologies - Part 3-100: Stationary fuel cell power systems - Safety, 01/29/2016
- 105/559/NP, Fuel cell technologies - Part 2-201: Fuel cell modules - Performance (PEFC) (proposed IEC 62282-2-201), 03/04/2016
- 106/347/CDV, Amendment 1 to IEC 62226-3-1: Exposure to electric or magnetic fields in the low and intermediate frequency range - Methods for calculating the current density and internal electric field induced in the human body - Part 3-1: Exposure to electric fields - Analytical and 2D numerical models - Proposed Horizontal Standard, 03/04/2016
- 112/344/CDV, IEC 62631-3-11 Ed.1: Dielectric and resistive properties of solid insulating materials - Part 3-11: Determination of resistive properties (DC Methods) - Volume resistance and volume resistivity, method for impregnation and coating materials, 03/04/2016
- 112/345/CDV, IEC 62631-2-1 Ed.1: Dielectric and resistive properties of solid insulating materials - Part 2-1: Relative permittivity and dissipation factor - Technical Frequencies (0.1 Hz - 10 MHz), AC Methods, 03/04/2016
- 113/289/DTS, IEC TS 62607-4-2: Nanomanufacturing - Key control characteristics - Part 4-2 Cathode nanomaterials for nano-enabled electrical energy storage - Physical characterization, density measurement, 03/04/2016
- 116/258/FDIS, IEC 62841-3-4/Ed1: Electric motor-operated hand-held tools, portable tools and lawn and garden machinery - Safety - Part 3-4: Particular requirements for transportable bench grinders, 01/29/2016
- 4/304/CD, ISO 20816-5/Ed1: Mechanical vibration - Evaluation of machine vibration by measurements on non-rotating parts - Part 5: Machine sets in hydraulic power generating and pump-storage plants, including shaft vibration measurements, 02/12/2016
- 7/647/CD, IEC 62774/Ed1: Conductors for overhead lines - Coated or clad metallic wire for concentric lay stranded conductors, 02/26/2016
- 13/1652/CDV, IEC 62056-8-6: Electricity Metering Data Exchange - The DLMS/COSEM Suite - Part 8-6: High speed PLC ISO/IEC 12139-1 profile for neighbourhood networks, 02/26/2016
- 18/1476/FDIS, ISO 16315 Small craft - Electrical propulsion system, 01/22/2016
- 20/1613/CD, IEC 62930: Electric cables for Photovoltaic systems - Proposed Horizontal Standard, 02/26/2016
- 21/879/CD, IEC 62902: Secondary batteries: Marking symbols for identification of their chemistry, 02/26/2016
- 22G/320/CDV, Amendment 1 to IEC 61800-5-1 Ed.2: Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy, 02/26/2016
- 23H/341/CD, IEC/TS 60309-6 Ed.1: Plugs, socket-outlets and couplers for industrial purposes - Part 6: Low-voltage docking connectors with pins and contact-tubes for mobile energy storage units, 01/22/2016
- 31M/107/CD, ISO/IEC 80079-34/Ed2: Explosive atmospheres - Part 34: Application of quality systems for Ex product manufacture, 02/26/2016
- 45A/1058/FDIS, IEC/IEEE 60780-323 Ed.1: Nuclear facilities - Electrical equipment important to safety - Qualification, 01/22/2016
- 45B/831/CD, IEC 61322 Ed.2: Radiation protection instrumentation - Installed dose equivalent rate meters, warning assemblies and monitors for neutrons of energy from thermal to 20 MeV, 02/26/2016
- 45B/832/NP, Radiation protection instrumentation - Dosimeters for pulsed fields of ionizing radiation, 02/26/2016
- 45B/833/CD, IEC 62945 Ed.1: Radiation protection instrumentation - Measuring the imaging performance of X-ray Computed Tomography (CT) security screening systems, 02/26/2016
- 46/575/CDV, IEC 62153-4-16/ED1: Metallic Communication Cable Test Methods - Part 4-16: Extension of the frequency range to higher frequencies for transfer impedance and to lower frequencies for screening attenuation measurements using the triaxial set-up, 02/26/2016
- 46/588/CD, IEC 61935-1-2 Ed1: Testing of Balanced Communication Cabling in Accordance with ISO/IEC 11801 Part 1-2: Additional requirements for measurement of resistance unbalance with field test instrumentation, 02/26/2016
- 47/2251/CDV, IEC 62435-1 Ed.1: Electronic components - Long-term storage of electronic semiconductor devices - Part 1: General, 02/26/2016
- 47/2252/CDV, IEC 62435-2 Ed.1: Electronic components - Long-term storage of electronic semiconductor devices - Part 2: Deterioration Mechanisms, 02/26/2016
- 47/2253/CDV, IEC 62435-5 Ed.1: Electronic components - Long-term storage of electronic semiconductor devices - Part 5 - Die & Wafer Devices, 02/26/2016
- 47/2267/FDIS, IEC 62779-1 Ed.1: Semiconductor devices - Semiconductor interface for human body communication - Part 1: General requirements, 01/22/2016
- 47/2268/FDIS, IEC 62779-1 Ed.1: Semiconductor devices - Semiconductor interface for human body communication - Part 2: Characterization of interfacing performances, 01/22/2016
- 47E/529/FDIS, IEC 60747-5-6 Ed.1: Semiconductor devices - Part 5-6: Optoelectronic devices - Light emitting diodes, 01/22/2016
- 49/1176/CD, IEC 62604-2 Ed.2: Surface acoustic wave (SAW) and bulk acoustic wave (BAW) duplexers of assessed quality - Part 2: Guidelines for the use, 02/26/2016
- 56/1643/CDV, IEC 62550/Ed1: Spare parts provisioning, 02/26/2016
- 59/642/CD, IEC 60704-3 Ed.3: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 3: Procedure for determining and verifying declared noise emission values, 02/26/2016
- 62A/1068/DTR, IEC TR 60601-4-2: Medical electrical equipment - Part 4-2: Guidance and interpretation - Electromagnetic immunity; performance of medical electrical equipment and medical electrical systems, 01/22/2016
- 68/524/CD, IEC 60404-13 Ed.2: Magnetic materials - Part 13: Methods of measurement of resistivity, density and stacking factor of electrical steel strip and sheet, 03/25/2016
- 68/526/CD, IEC 60404-8-7 Ed.4: Magnetic materials Part 8-7: Specifications for individual materials Cold-rolled grain-oriented electrical steel strip and sheet delivered in the fully-processed state, 02/26/2016
- 68/527/CD, IEC 60404-8-8 Ed.2: Magnetic materials - Part 8-8: Specifications for individual materials - Thin electrical steel strip and sheet for use at medium frequencies, 02/26/2016
- 86A/1698/CD, IEC 60794-1-23/Ed2: Optical fibre cables - Part 1-23: Generic specification - Basic optical cable test procedures - Cable element test methods, 02/26/2016
- 86A/1700/CD, IEC 60794-1-22/Ed2: Optical fibre cables Part 1-22: Generic specification - Basic optical cable test procedure - Environmental test methods, 02/26/2016
- 86A/1702/CD, IEC 60794-1-22/Ed4: Optical fibres - Part 1-1: Measurement methods and test procedures - General and guidance, 02/26/2016
- 86B/3965/CD, IEC 61300-3-30/Ed2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-30: Examinations and measurements - Polish angle and fibre position on single ferrule multifibre connectors, 02/26/2016

- 100/2610/CD, IEC 61937-2 Ed.2.0 Amd.2: Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 2: Burst-info (TA 4), 02/26/2016
- 100/2611/CD, IEC 61937-14 Ed.1.0: Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 14: Non-linear PCM bitstreams according to the AC-4 format (TA 4), 02/26/2016
- 100/2612/CD, IEC 61937-13 Ed.1.0: Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 13: MPEG-H 3D Audio (TA 4), 02/26/2016
- 108/630/FDIS, IEC 60990/Ed3: Methods of measurement of touch current and protective conductor current, 01/22/2016
- 110/720/FDIS, IEC 62595-1-2 Ed.2: Display lighting unit - Part 1-2: Terminology and letter symbols, 01/22/2016
- 110/721/NP, Future IEC 61747-40-5: Liquid crystal display devices Part 40-5: Mechanical testing of display cover glass for mobile devices strength against dynamic impact by sharp object with the specimen rigidly supported, 02/26/2016
- 112/353/DTS, IEC/TS 62332-3 Ed.1: Electrical insulation materials (eim) and systems (EIS) - Thermal evaluation of combined liquid and solid components - Part 3: Hermetic motor-compressors, 02/26/2016
- 116/259/NP, IEC 62841-3-13/Ed1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-13: Particular requirements for transportable drills, 02/26/2016
- 116/261/NP, IEC 62841-2-XX/Ed1: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-10: Particular requirements for hand-held mixers, 02/26/2016
- 119/87/FDIS, IEC 62899-201 Ed.1: Printed electronics - Part 201: Materials - Substrates, 01/22/2016
- 119/88/FDIS, IEC 62899-202 Ed.1: Printed electronics - Part 202: Materials - Conductive ink, 01/22/2016
- 121A/60/FDIS, Amendment 2 to IEC 60947-5-5 Ed.1: Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function, 01/22/2016



Newly Published ISO & IEC Standards

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

ISO Standards

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 24722:2015](#), Information technology - Biometrics - Multimodal and other multibiometric fusion, \$149.00

[ISO/IEC TR 23008-13:2015](#), Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 13: MMT implementation guidelines, \$240.00

[ISO/IEC TR 29110-5-6-1:2015](#), Systems and software engineering - Lifecycle profiles for Very Small Entities (VSEs) - Part 5-6-1: Systems engineering - Management and engineering guide: Generic profile group: Entry profile, \$200.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 18202:2015](#), Space data and information transfer systems - Mission operations message abstraction layer, \$265.00

[ISO 20618:2015](#), Space data and information transfer systems - Spacecraft onboard interface services - Device enumeration service, \$200.00

COALBED METHANE (CBM) (TC 263)

[ISO 18875:2015](#), Coalbed methane exploration and development - Terms and definitions, \$88.00

COSMETICS (TC 217)

[ISO 18416:2015](#), Cosmetics - Microbiology - Detection of *Candida albicans*, \$123.00

[ISO 21150:2015](#), Cosmetics - Microbiology - Detection of *Escherichia coli*, \$123.00

[ISO 22718:2015](#), Cosmetics - Microbiology - Detection of *Staphylococcus aureus*, \$123.00

FINE CERAMICS (TC 206)

[ISO 17170:2015](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Test method for spherical indentation of porous ceramics, \$88.00

[ISO 18591:2015](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of compressive strength of ceramic granules, \$88.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19109:2015](#), Geographic information - Rules for application schema, \$265.00

GEOTECHNICS (TC 182)

[ISO 17892-3:2015](#), Geotechnical investigation and testing - Laboratory testing of soil - Part 3: Determination of particle density, \$88.00

MATERIALS FOR THE PRODUCTION OF PRIMARY ALUMINIUM (TC 226)

[ISO 19950:2015](#), Aluminium oxide primarily used for the production of aluminium - Determination of alpha alumina content - Method using X-ray diffraction net peak areas, \$88.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

[ISO 2017-3:2015](#), Mechanical vibration and shock - Resilient mounting systems - Part 3: Technical information to be exchanged for application of vibration isolation to new buildings, \$88.00

ROUND STEEL LINK CHAINS, CHAIN SLINGS, COMPONENTS AND ACCESSORIES (TC 111)

[ISO 3266/Amd1:2015](#), Forged steel eyebolts grade 4 for general lifting purposes - Amendment 1, \$22.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 4642-1:2015](#), Rubber and plastics hoses, non-collapsible, for fire-fighting service - Part 1: Semi-rigid hoses for fixed systems, \$123.00

[ISO 4642-2:2015](#), Rubber and plastics hoses, non-collapsible, for fire-fighting service - Part 2: Semi-rigid hoses (and hose assemblies) for pumps and vehicles, \$173.00

TEXTILES (TC 38)

[ISO 137:2015](#), Wool - Determination of fibre diameter - Projection microscope method, \$88.00

TYRES, RIMS AND VALVES (TC 31)

[ISO 5775-2:2015](#), Bicycle tyres and rims - Part 2: Rims, \$123.00

ISO Technical Specifications

PAINTS AND VARNISHES (TC 35)

[ISO/TS 19397:2015](#), Determination of the film thickness of coatings using an ultrasonic gage, \$123.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

[ISO/TS 16976-1:2015](#), Respiratory protective devices - Human factors - Part 1: Metabolic rates and respiratory flow rates, \$149.00

SOLID BIOFUELS (TC 238)

[ISO/TS 16996:2015](#), Solid biofuels - Determination of elemental composition by X-ray fluorescence, \$123.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 27013:2015](#), Information technology - Security techniques - Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1, \$200.00

[ISO/IEC 18033-5:2015](#), Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers, \$200.00

[ISO/IEC 18046-4:2015](#), Information technology - Radio frequency identification device performance test methods - Part 4: Test methods for performance of RFID gates in libraries, \$200.00

[ISO/IEC 19776-1:2015](#), Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 1: Extensible Markup Language (XML) encoding, \$200.00

[ISO/IEC 19776-2:2015](#), Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 2: Classic VRML encoding, \$51.00

[ISO/IEC 14496-12:2015](#), Information technology - Coding of audio-visual objects - Part 12: ISO base media file format, \$265.00

[ISO/IEC 15444-12:2015](#), Information technology - JPEG 2000 image coding system - Part 12: ISO base media file format, \$265.00

[ISO/IEC 15944-20:2015](#), Information technology - Business Operational View - Part 20: Linking business operational view to functional Linking business operational view to functional service view/service view, \$173.00

[ISO/IEC TS 20071-21:2015](#), Information technology - User interface component accessibility - Part 21: Guidance on audio descriptions, \$149.00

IEC Standards

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

[IEC 61196-1-116 Ed. 1.0 b:2015](#), Coaxial communication cables - Part 1-116: Electrical test methods - Test for impedance with time domain reflectometry (TDR), \$43.00

ELECTRICAL ACCESSORIES (TC 23)

[IEC 61914 Ed. 2.0 en:2015](#), Cable cleats for electrical installations, \$265.00

[IEC 61914 Ed. 2.0 b:2015](#), Cable cleats for electrical installations, \$206.00

ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)

[IEC 60079-10-1 Ed. 2.0 en cor.1:2015](#), Corrigendum 1 - Explosive atmospheres - Part 10-1: Classification of areas - Explosive gas atmospheres, \$0.00

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

[IEC 60297-3-109 Ed. 1.0 b:2015](#), Mechanical structures for electrical and electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) series - Part 3-109: Dimensions of chassis for embedded computing devices, \$157.00

[IEC 61076-4-116 Ed. 1.1 b:2015](#), Connectors for electronic equipment - Product requirements - Part 4-116: Printed board connectors - Detail specification for a high-speed two-part connector with integrated shielding function, \$363.00

[IEC 61076-4-116 Amd.1 Ed. 1.0 b:2015](#), Amendment 1 - Connectors for electronic equipment - Product requirements - Part 4-116: Printed board connectors - Detail specification for a high-speed two-part connector with integrated shielding function, \$43.00

HIGH-VOLTAGE TESTING TECHNIQUES (TC 42)

[IEC 60270 Ed. 3.1 b:2015](#), High-voltage test techniques - Partial discharge measurements, \$424.00

[IEC 60270 Amd.1 Ed. 3.0 b:2015](#), Amendment 1 - High-voltage test techniques - Partial discharge measurements, \$61.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 60870-5-101 Ed. 2.1 en:2015](#), Telecontrol equipment and systems - Part 5-101: Transmission protocols - Companion standard for basic telecontrol tasks, \$545.00

[IEC 60870-5-101 Amd.1 Ed. 2.0 b:2015](#), Amendment 1 - Telecontrol equipment and systems - Part 5-101: Transmission protocols - Companion standard for basic telecontrol tasks, \$55.00

SAFETY OF ELECTRONIC EQUIPMENT WITHIN THE FIELD OF AUDIO/VIDEO, INFORMATION TECHNOLOGY AND COMMUNICATION TECHNOLOGY (TC 108)

[IEC 62368-1 Ed. 2.0 b cor.2:2015](#), Corrigendum 2 - Audio/video, information and communication technology equipment - Part 1: Safety requirements, \$0.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-8 Ed. 6.1 b:2015](#), Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances, \$116.00

[IEC 60335-2-8 Amd.1 Ed. 6.0 b:2015](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances, \$14.00

[IEC 60335-2-11 Ed. 7.2 b:2015](#), Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers, \$339.00

[IEC 60335-2-11 Amd.2 Ed. 7.0 b:2015](#), Amendment 2 - Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers, \$22.00

[IEC 60335-2-25 Ed. 6.2 b:2015](#), Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens, \$339.00

[IEC 60335-2-25 Amd.2 Ed. 6.0 b:2015](#), Amendment 2 - Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens, \$31.00

IEC Technical Reports

PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)

[IEC/TR 62617 Ed. 2.0 en:2015](#), Home laundry appliances - Uncertainty reporting of measurements, \$73.00

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 Accredited Standards Developers

Reaccreditation

SSPC – The Society for Protective Coatings

Comment Deadline: January 4, 2016

SSPC – The Society for Protective Coatings, an ANSI member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on SSPC-sponsored American National Standards, under which it was last reaccredited in 2013. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Aimee Beggs, Standards Development Specialist, The Society for Protective Coatings, 40 24th Street, 6th Floor, Pittsburgh, PA 15235-4656; phone: 412.281.2331, ext. 2223; e-mail: beggs@sspc.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to SSPC by January 4, 2016, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthomps@ANSI.org).

ANSI Accreditation Program for Third Party Eco-Labeling Certification Bodies

Applicable Requirements and Processes

Initial Application

Comment Deadline: January 4, 2016

Certification bodies seeking to be accredited by ANSI to conduct eco-labeling certification will be required to comply with the applicable requirements and processes contained in ISO 14020, ISO 14024, and ISO/IEC 17065, Conformity assessment – Requirements for bodies certifying products, processes and services, as well as ANSI Policy – PL – 102, Manual of Operations for Accreditation of Product Certification Programs. Upon completing successful assessment of their competence in accordance with these requirements, certification bodies will be granted ANSI accreditation of their process in accordance with ISO/IEC 17065.

Eng. Eli Cohen-Kagan, Adv.
Director, Quality & Certification Div.
The Standards Institution of Israel
42 Haim Levanon St.,
Tel-Aviv 69977, Israel
E-mail: kagan@sii.org.il
Website: <https://portal.sii.org.il/eng/green/>

The Standards Institution of Israel has submitted a formal application for accreditation as an Eco-Labeling Certification Body by ANSI for the following Program:

- The Standards Institution of Israel Green Label

Please send your comments by January 4, 2016 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: rfigueir@ansi.org, or Nikki Jackson, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

Determine Eligibility of a Type I Environmental Labeling Certification Scheme

Initial Application

Comment Deadline: January 4, 2016

An environmental labeling certification scheme owner seeking to achieve eligibility for its eco-labeling scheme by ANSI are required to comply with the all applicable requirements and processes contained in ISO 14020, Environmental labels and declarations – General Principles, and ISO 14024, Environmental labels and declarations – Type I environmental labeling – Principles and procedures, as well as ANSI Procedures PRO-PR-164 –ISO 14024, Requirements/Process to Determine Eligibility of a Type I Environmental Labeling Certification Scheme, and PRO-FR-104-ECO-ISO14024, Application for Eligibility of Type I Environmental Labeling Certification Scheme. After completing the process of eligibility determination, the eco-labeling scheme will demonstrate conformance with established international environmental declaration standards and the applicable procedures of ISO conformity assessment standards

Eng. Eli Cohen-Kagan, Adv.
Director, Quality & Certification Div.
The Standards Institution of Israel
42 Haim Levanon St.,
Tel-Aviv 69977, Israel
E-mail: kagan@sii.org.il
Website: <https://portal.sii.org.il/eng/green/>

The Standards Institution of Israel has submitted a formal application for eligibility as a Scheme Owner for Type I environmental Labels Certification Scheme by ANSI for the following Program:

- The Standards Institution of Israel Green Label

Please send your comments by January 4, 2016 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: rfigueir@ansi.org, or Nikki Jackson, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036 Fax: 202-293-9287 or e-mail: njackson@ansi.org.

ANSI Accreditation Program for Third Party Product Certification Agencies

Initial Accreditation in accordance with ISO/IEC 17065

Keystone Certifications, Inc.

Comment Deadline: January 4, 2016

Mr. Jon Hill - President
Keystone Certifications, Inc.
564 Old York Road, Suite 5
Etters, PA 17319,
Phone: 717-932-8500
Fax: 717-932-8501
E-mail: jhill@keystonecerts.com
Website: www.keystonecerts.com

On November 25, 2015, Keystone Certifications, Inc., an ANSI-accredited certification body, was granted Accreditation in accordance with ISO/IEC 17065 for the following scope(s):

SCOPE(S)**81 GLASS AND CERAMICS INDUSTRIES**

81.040 Glass

81.040.20 Glass in building

91 CONSTRUCTION MATERIALS AND BUILDING

91.060 Elements of buildings

91.060.50 Doors and windows

91.100 Construction materials

91.100.23 Ceramic tiles

91.100.25 Terracotta building products

91.100.60 Thermal and sound insulating materials

91.120 Protection of and in buildings

91.120.10 Thermal insulation of buildings

EPA ENERGY STAR®

Commercial Food Service

Commercial Refrigerators and Freezers

Electronics and Office Equipment

Imaging Equipment

Set-top Boxes & Cable Boxes

Home Building Materials

Roof Products

Residential Insulation

Seal and Insulate with ENERGY STAR Program

Please send your comments by January 4, 2016 to Reinaldo Balbino Figueiredo, Senior Program Director, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: rfigueir@ansi.org, or Nikki Jackson, Senior Program Manager, Product Certifier Accreditation, American National Standards Institute, 1899 L Street, NW, 11th Floor, Washington, DC 20036, Fax: 202-293-9287 or e-mail: njackson@ansi.org.

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Corrosion Control Engineering Life Cycle

Comment Deadline: January 15, 2016

SAC, the ISO member body for China, in cooperation with ANSI and with the agreement and support of NACE, has submitted to ISO a proposal for a new field of ISO technical activity on Corrosion Control Engineering Life Cycle, with the following scope statement:

The standardization of the corrosion control engineering life cycle, including the terms and definitions, general requirements, and evaluation of the corrosion control engineering life cycle. The engineering life cycle is defined as a system view of the structure to be protected from corrosion that includes the initial design and development based on material selection and protective measures through the construction, inspection, assessment, maintenance, and decommissioning at the end of life of the structure.

Excluded is work in the field of corrosion of metals and alloys including corrosion test methods and corrosion prevention methods and standardization in the field of paints, varnishes, and related products, including raw materials. Specific industry or market segments due to their special requirements are also excluded from the scope.

Anyone wishing to review this new proposal can request a copy by contacting ANSI's ISO Team via email: isot@ansi.org with submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, January 15, 2016.

Meeting Notices

AHRI Meeting

Revision of AHRI Standard 640-2005, Performance Rating of Commercial and Industrial Humidifiers

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on January 8, 2016, from 1 p.m. to 3 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Ted Wayne at twayne@ahrinet.org.

GBI Meeting

The ninth meeting of the Green Building Initiative – GBI 01-201x consensus body will be held via conference call and webinar on Wednesday, December 16, 2015, from 1:00 PM EST to 3:00 PM EST.

The purpose for these teleconferences is for the Consensus Body members to review recommended responses from Subcommittees to public comments on the Working Draft of the 01-201X document and for 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 who would like to attend the meeting should contact the Secretariat, Maria Woodbury, preferably at least 10 days in advance of the meeting to ensure they are included in relevant communications in preparation for the meeting.

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

U.S. TAG for ISO TC 249 – Traditional Chinese Medicine

The next meeting for the US TAG for ISO TC 249, Traditional Chinese Medicine, will be an open meeting, which will be held on January 22, 2016 from 11:00 am to 12:00 pm ET. This meeting will be used to discuss current membership, roster statistics, identify membership need, nominate new members, review policy, review suggestions for NWIP, and discuss the 2016 plenary meeting. As stated, this is an open meeting and those who would like to participate can do so by calling into 1-866-740-1260 and logging on to ReadyTalk.com using 267844 as the participation code.

Information Concerning

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Halal

Comment Deadline: December 11, 2015

ESMA, the ISO member body for the United Arab Emirates, has submitted to ISO a proposal for a new field of ISO technical activity on Halal, with the following scope statement:

The Halal Technical Committee will draft International Standards for Halal products and services, including requirements for personnel competency requirements, management system requirements for organizations. This shall define and include best practices, policies, processes and guidelines for developing Halal Standards or other Technical Specification/requirements, Sampling and Testing Methods, as well as sector application conformity assessment documents on Inspection, Certification, and Accreditation. Sector applications of Conformity Assessment standards shall be developed in a Joint Working Group (JWG) under the leadership of CASCO using the CASCO toolbox. In addition these standards will promote mutual recognition and acceptance of national and regional Conformity Assessment Systems and Marks/labeling standards.

This committee shall also include market monitoring procedures and applicable corrective actions in local and international settings, such as rapid exchange of information and alert systems, recalls and other mitigating measures.

Halal products and services include food (fresh, frozen, processed etc.), beverages, cosmetics and personal care, pharmaceuticals, apparel, logistics, finance, tourism and hospitality and more.

Excluded:

- Matters not falling under scope and not applicable to the Halal concept;
- Generic food standards falling under the scope of ISO/TC 34 Food products;
- Clothing and textile standards falling under the scope of ISO/TC 38 Textiles and ISO/TC 133 Clothing sizing systems - size designation, size measurement methods and digital fittings;
- Pharmaceutical standards falling under the scope of ISO/TC 76, Transfusion, infusion and injection equipment for medical and pharmaceutical use; ISO/TC 194 Biological and clinical evaluation of medical devices, and ISO/TC 212 Clinical laboratory testing and in vitro diagnostic test systems;
- Generic packaging standards falling under the scope of ISO/TC 122 Packaging;
- Generic cosmetics standards falling under the scope of ISO/TC 217 Cosmetics;
- Generic tourism and related services standards falling under the scope of ISO/TC 228 Tourism and related services; and
- Consumer Policy standards falling under the scope of COPOLCO.

Anyone wishing to review this new proposal can request a copy by contacting ANSI's ISO Team via email: isot@ansi.org with submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, December 11, 2015.

Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO TC 92/SC 3 – Fire Threat to People and Environment

Currently, the U.S. holds a leadership position as secretariat of ISO/TC 92/SC 3 (Fire threat to people and environment). ANSI has delegated the responsibility for the administration of the secretariat for ISO/TC 92/SC 3 to the ASTM International. ASTM has advised ANSI of its intent to relinquish its role as delegated secretariat for this committee.

ISO/TC 92 operates under the following scope:

Standardization of the methods of assessing

- *fire hazards and fire risk to life and to property;*
- *the contribution of design, materials, building materials, products and components to fire safety*

and methods of mitigating the fire hazards and fire risks by determining the performance and behavior of these materials, products and components, as well as of buildings and structures.

Excluded:

- *materials and equipments already covered by other technical committees;*
- *fields covered by other ISO and IEC committees.*

ISO/TC 92/SC 3 operates under the following defined objectives:

- *Provide appropriate guides and calculation methods, along with instrumentation, measurement and validation procedures for analysis and assessment of the impact of fire and its effluent on people and the environment.*
- *Develop guidance on the use of such procedures in fire safety engineering, including the standardization of methods for estimating the limits of tenability for those people attempting to leave a facility, those who cannot leave, and those who are located in a place of refuge.*
- *Within the context of fire safety engineering, develop the basis for identifying the combinations of common fire scenarios and combustibles for which the fire effluent does not merit special attention, i.e., where generic potency values can be used. Note that data on the harmful effects of fire effluent are only to be used in the context in which assessment is performed*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated secretariat for ISO/TC 92/SC 3. Alternatively, ANSI may be assigned the responsibility for administering an ISO secretariat. Any request that ANSI accepts to direct administration of an ISO secretariat shall demonstrate that:

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

If no U.S. organization steps forward to assume the ISO/TC 92/SC 3 secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the secretariat role.

Information concerning the United States retaining the role of international secretariat may be obtained by contacting ANSI at isot@ansi.org.



**BSR/ASHRAE/IES Addendum AO
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

**Proposed Addendum AO to
Standard 90.1-2013, Energy Standard
for Buildings Except Low-Rise
Residential Buildings**

**Second Public Review (March 2015)
(Draft shows Proposed Changes to Previous Public Review Draft)**

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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

BSR/ASHRAE/IES Addendum ao to ANSI/ASHRAE Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Second Public Review Draft – Independent Substantive Change

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

FOREWORD

This addendum sets the baseline to non-adiabatic humidification to encourage the use of adiabatic humidification systems in buildings where humidification is required.

Based on comments provided during the first public review, the wording of the addendum was simplified to increase clarity.

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

Addendum ao to 90.1-2013

Modify the standard as follows (IP and SI Units)

10. HVAC Systems	
Proposed	Baseline
<p><i>No change to current text</i></p>	<p>The HVAC system(s) in the baseline building design shall be of the type and description specified in Section G3.1.1, shall meet the general HVAC system requirements specified in Section G3.1.2, and shall meet any system-specific requirements in Section G3.1.3 that are applicable to the baseline HVAC system type(s).</p> <p>If the proposed design includes humidification, then the baseline design shall use non-adiabatic humidification.</p> <p>If the proposed building design HVAC system does not comply with Section 6.5.2.4, then the baseline design shall use adiabatic humidification. <u>If the proposed design includes humidification, then the baseline design shall use adiabatic humidification.</u></p> <p>Exception: <u>If proposed building humidification system complies with Section 6.5.2.4, then the baseline design shall use non-adiabatic humidification.</u></p> <p>For systems serving computer rooms, the baseline shall not have reheat for the purpose of dehumidification.</p> <p>Fossil fuel systems shall be modeled using natural gas as their fuel source.</p>

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	<p>Exception: For fossil fuel systems where natural gas is not available for the proposed building site as determined by the rating authority, the baseline HVAC system(s) shall be modeled using propane as their fuel source.</p>
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**BSR/ASHRAE/IES Addendum bj
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

Proposed Addendum bj to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

**Second Public Review –ISC (December 2015)
(Draft shows Proposed Changes to Previous Addendum)**

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BSR/ASHRAE/IES Addendum bj to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
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FOREWORD

The intent of this addendum is to encourage the use of coils with larger heat transfer surface areas to generate a high ΔT . But high ΔT can also be achieved on a small coil by lowering entering water temperature which would reduce efficiency. The limit of 57°F (14°C) coil along with the 15°F ΔT (8.3°C) minimum means supply water temperature cannot be lowered below 42°F (5.6°C) to generate the required 15°F ΔT (8.3°C). The change to exception 2 is language clarification.

Exception 5 was intended to address passive coils such as valence coils (and perhaps passive chilled beams although they usually fall under exception 6 as well). Some of these systems have a radiant component so the use of the word “convective” is too restrictive. The revised parenthetical wording was to address coils that are not directly connected to fans but could be connected to central fans.

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

Addendum bj to 90.1-2013

Modify the standard as follows (IP and SI Units)

6.5.4.7 Chilled Water Coil Selection. Chilled water cooling coils shall be selected to provide 15°F (8.3°C) or higher temperature difference between leaving and entering water temperatures and a minimum of 57°F (14°C) leaving water temperature at design conditions.

Exceptions: The following systems are not required to comply with this section:

1. Chilled water cooling coils that have an airside pressure drop exceeding 0.70 in.wc. (175 Pa) when rated at 500 fpm (2.54 m/s) face velocity and dry conditions (no condensation)
2. Individual fan-cooling units ~~Fan-coils~~ with a design supply airflow rate 5000 cfm (2400 L/s) and less
3. Constant air volume systems
4. Coils selected at the maximum temperature difference allowed by the chiller
5. Passive Convective ~~Passive Convective~~ coils (no fans mechanically supplied airflow)
6. Coils with design entering chilled water temperatures of 50°F (10°C) and higher
7. Coils with design entering air dry-bulb temperatures of 65°F (18°C) and lower



**BSR/ASHRAE/IES Addendum bo
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

**Proposed Addendum bo to
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FOREWORD

This ISC to addendum “bo” clarifies the wording for exception 5 to Section 5.5.4.4.1 related to the SHGC credit for shading by permanent projections. This addendum has no impact on cost effectiveness.

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

Addendum bo to 90.1-2013

Modify the standard as follows (IP and SI Units)

Modify Exception 5 to Section 5.5.4.4.1 as follows:

Exceptions:

...

5 *Vertical fenestration* that is *north-oriented* shall be permitted to have a SHGC ~~no~~ greater equal to or less than the area-weighted average SHGC of the south, east, and west-oriented *vertical fenestration* before any ~~adjustments~~ reductions made for permanent projections in Exceptions 1 and 2 of Section 5.5.4.4.1.



**BSR/ASHRAE/IES Addendum bw
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

Proposed Addendum bw to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

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FOREWORD

The proposed ISC makes the following changes for clarity and consistency of implementation:

- Paragraph (f): Reinstates a paragraph (building on the concept in paragraph f in Standard 90.1-2013) directly stating that the Proposed Design must contain the mandatory automatic lighting controls specified in Section 9.4.1 (e.g., automatic daylight responsive controls, occupancy sensors, programmable controls, etc.). Then, clearly specify how these controls shall be modeled in paragraph (g) and (h).
- Paragraph (g): Modify text (“automatic daylight responsive controls”) to match the terminology used in the lighting chapter. Provide more detail for modeling automatic daylight responsive controls. Indicate that daylighting is to be separately assessed for, and lighting is to be separately controlled for: primary sidelighted zones, secondary sidelighted zones, and toplighted zones (as specified in Section 9.4.1).
- Paragraph (h): Modify text (“occupancy sensor reduction”) to match the terminology used in the table being referenced. Correct the table reference (Table G3.8, as published in the 2015 Addenda Supplement to Standard 90.1-2013, does not contain occupancy sensor reductions).
- The title of Table G3.7 is modified to indicate that the occupancy sensor reductions in Table G3.7 are only applicable to the Performance Rating Method.
- Deletes two inadvertent entries for the occupancy reduction factor for corridors and lobbies in Table G3.7.

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

Addendum bw to 90.1-2013

Modify the standard as follows (IP and SI Units)

6. Lighting	
Lighting power in the proposed design shall be determined as follows:	Interior lighting power in the baseline building design shall be determined ...
a. ...	
b. ...	
c. ...	
d. ...	
e. ...	
f. <u>For lighting controls, at a minimum, the proposed building design shall contain the mandatory automatic lighting controls specified in Section 9.4.1 (e.g., automatic daylight responsive controls, occupancy sensors, programmable controls, etc.). These controls shall be modeled in accordance with (g) and (h).</u>	

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- g. Automatic daylighting responsive controls shall be modeled directly in the proposed building design or through schedule adjustments determined by a separate daylighting analysis approved by the rating authority. Modeling and schedule adjustments shall separately account for primary sidelighted areas, secondary sidelighted areas, and toplighted areas.
- g-h. Other Automatic lighting controls included in the proposed building design shall be modeled directly in the building simulation or by reducing the lighting schedule each hour by the occupancy control sensor reduction factors in ~~Table G3.8~~ G3.7 for the applicable space type. This reduction shall be taken only for lighting controlled by the occupancy sensors. Credit for other programmable lighting control in buildings less than 5,000 ft² can be taken by reducing the lighting schedule each hour by 10%.

TABLE G3.7 Performance Rating Method Lighting Power Densities and Occupancy Sensor Reductions Using the Space-by-Space Method

Common Space Types ¹	LPD (W/ft ²)	Occupancy Sensor Reduction ⁽²⁾
Corridor		25%
... in a facility for the visually impaired (and used primarily by residents)	1.15	25%
... in a hospital	1.00	25%
... in a manufacturing facility	0.50	25%
... otherwise	0.5	25%
...		
Lobby		25%



**BSR/ASHRAE/IES Addendum cd
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

Proposed Addendum cd to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

**Second Public Review –ISC (December 2015)
(Draft shows Proposed Changes to Previous Addendum)**

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FOREWORD

Addendum cd added a new product class and corresponding efficiency requirements for Dedicated Outdoor Air Systems (DOAS) The addendum specified minimum requirements for both air source and water source heat pump models in terms of an Integrated Seasonal Coefficient of Performance (ISCOP). The referenced test procedure includes procedures for measuring the ISCOP of both types of units. The definition of ISCOP provided in the addendum inadvertently only mentioned water source heat pump units. The ISC corrects that error in the definition and makes it consistent with the proposed efficiency requirements.

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

Addendum cd to 90.1-2013

Revise the Standard as follows (I-P units)

Integrated Seasonal Coefficient of Performance (ISCOP). This seasonal efficiency number is a combined value based on the formula listed in AHRI Standard 920 (~~I-P~~) of the two (2) COP values for the heating season of a DX-DOAS Unit Water or Air Source Heat Pump expressed in W/W.

Revise the Standard as follows (I-P units)

Integrated Seasonal Coefficient of Performance (ISCOP). This seasonal efficiency number is a combined value based on the formula listed in AHRI Standard 921 (~~SI~~) of the two (2) COP values for the heating season of a DX-DOAS Unit Water or Air Source Heat Pump expressed in W/W.



**BSR/ASHRAE/IES ISC to Addendum CF
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft
**Proposed Addendum CF to Standard
90.1-2013, *Energy Standard for
Buildings Except Low-Rise
Residential Buildings***

**ISC to the First Public Review (December 2015)
(Draft shows Proposed Changes to Current Standard)**

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BSR/ASHRAE/IES ISC to Addendum CF to ANSI/ASHRAE/IESNA Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Second Public Review Draft – Independent Substantive Change

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FOREWORD

First Public Review Forward Text

In the section 6 Heating, Ventilating, And Air Conditioning scope the current ASHRAE 90.1-2013 standard requires that New HVACR equipment as a direct replacement of existing HVACR equipment shall comply with the specific minimum efficiency requirements applicable to that equipment, but does not require the replacement equipment to comply with any of the other section 6 requirements. For example this does not require economizers, fan speed control, setback thermostats and more. This eliminate many of the significant energy savings that new equipment is capable of doing as required by new construction and major retrofits. This proposed addendum adds additional requirements to section 6.1.1.3.1 for direct replacement HVAC equipment. Only requirements are being added that are easily done as part of a direct replacement.

All the features that are being added have already been justified by prior addendums for new construction equipment so no additional cost justification is needed.

ISC Changes

Based on comments received during the first public review some changes have been made to the proposal to clarify and improve the requirements.

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

Addendum cf to 90.1-2013

Revise the Standard as follows (IP and S-I Units)

6.1.1.3.1 New HVACR equipment as a direct replacement of existing HVACR equipment shall comply with one of the following ~~sections~~ as applicable for the equipment being replaced;

a. All the requirements of section 6.3 Simplified Approach Option for HVAC Systems, or

b. All the following sections:

6.4.1 Equipment Efficiencies, Verification, and Labeling Requirements

~~6.4.3.1 Zone Thermostatic Controls~~

6.4.3.2 Setpoint overlap Restrictions

~~6.4.3.3 Off Hour Control except for 6.4.3.3.4 zone isolation~~

6.4.3.3.1 Automatic Shutdown

BSR/ASHRAE/IES ISC to Addendum CF to ANSI/ASHRAE/IESNA Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Second Public Review Draft – Independent Substantive Change

- 6.4.3.3.2 Setback Controls
- ~~6.4.3.4 Ventilation Control~~
- 6.4.3.4.2 Shutoff Damper Controls.
- 6.4.3.4.3 Damper Leakage
- 6.4.3.4.4 Ventilation Fan Controls
- 6.4.3.5 Heat Pump Auxiliary Heat Control.
- 6.4.3.7 Freeze Protection and Snow/Ice Melting Systems
- 6.4.3.8 Ventilation Controls for High-Occupancy Areas only for single zone equipment.
- 6.4.3.9 Heating in Vestibules
- 6.4.5 Walk-In Coolers and Freezers
- 6.5.1.1 Air Economizers for units located outdoors
- 6.5.1.3 Integrated Economizer Control
- 6.5.1.4 Staging Requirements
- 6.5.1.5 Economizer Heating Requirements
- 6.5.3.1.3 Fan Efficiency
- 6.5.3.2.1 Fan Airflow Control
- 6.5.3.5 Fractional Horsepower Fan Motors
- 6.5.4.1 Boiler Turndown
- 6.5.4.3 Chiller and Boiler Isolation
- 6.5.5.2 Fan Speed Control



**BSR/ASHRAE/IES Addendum cg
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

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FOREWORD

This addendum modifies the exterior Lighting Power Densities by changing the basis for determining an energy effective and achievable power density from typical HID or fluorescent to Light Emitting Technology (LED) technology where practical. The LED technology basis was developed by directly comparing the efficacy of appropriate replacement LED products with the efficacy of comparable HID or fluorescent products. The ratios determined were applied to the applicable area type LPDs to produce this revised LED based set of LED requirements. In most all cases, this resulted in a reduction in LPD recognizing the advanced efficacy of LED technology

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

Addendum cg to 90.1-2013

Modify the standard as follows (IP and S-I Units)

9. LIGHTING

9.1 General

.....

9.4.2 Exterior Building Lighting Power. The total exterior lighting power allowance for all exterior building applications is the sum of the base site allowance plus the individual allowances for areas that are designed to be illuminated and are permitted in Table 9.4.2-1 for the applicable lighting zone. The installed exterior lighting power identified in accordance with Section 9.1.3 shall not exceed the exterior lighting power allowance developed in accordance with this section. Trade-offs are allowed only among exterior lighting applications listed in the Table 9.4.2-2 “Tradable Surfaces” section. The lighting zone for the building exterior is determined from Table 9.4.2-1 unless otherwise specified by the local jurisdiction.

Exceptions:

BSR/ASHRAE/IES Addendum cg to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*

Second Public Review Draft – Independent Substantive Changes

1. Lighting used for the following exterior applications is exempt when equipped with a control device that complies with the requirements of Section 9.4.1.4 and is independent of the control of the nonexempt lighting:

- a. Lighting that is integral to signage and installed in the signage by the manufacturer
- b. Lighting for athletic playing areas
- c. Lighting for industrial production, material handling, transportation sites, and associated storage areas
- d. Theme elements in theme/amusement parks
- e. Lighting used to highlight features of public monuments, ~~public art displays~~ publicly displayed art, and registered historic landmark structures or buildings.
- f. Lighting for water features



**BSR/ASHRAE/IES Addendum ch
to ANSI/ASHRAE/IES Standard 90.1-2013**

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Proposed Addendum ch to Standard 90.1-2013, Energy Standard for Buildings Except Low-Rise Residential Buildings

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BSR/ASHRAE/IES Addendum ch to ANSI/ASHRAE/IES Standard 90.1-2013, *Energy Standard for Buildings Except Low-Rise Residential Buildings*
 Second Public Review Draft – Independent Substantive Changes

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FOREWORD

This ISC further modifies the interior Lighting Power Densities for both space by space and building area methods based primarily on first public review comments. The further changes continue to include LED technology as part of the basis for the LPD values but make adjustment to address comments. As with the initial addendum, not all fixtures in the models are replaced with LED technology as in some cases there was not sufficient Led product or the LED technology was not specifically suited for the expected task.

In most all cases, these revisions still result in a reduction in LPD but less so in most cases.

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

Addendum ch to 90.1-2013

Revise the Standard as follows (I-P units)

9.5.1 Building Area Method of Calculating Interior Lighting Power Allowance. Use the following steps to determine the interior lighting power allowance by the Building Area Method:

.....

TABLE 9.5.1 Lighting Power Densities Using the Building Area Method	
Building Area Type^a	LPD, W/ft²
Automotive facility	0.69 <u>0.71</u>
Convention center	0.74 <u>0.76</u>
Courthouse	0.85 <u>0.90</u>
Dining: Bar lounge/leisure	0.85 <u>0.90</u>
Dining: Cafeteria/fast food	0.75 <u>0.79</u>
Dining: Family	0.77 <u>0.78</u>
Dormitory	0.59 <u>0.61</u>
Exercise center	0.62 <u>0.65</u>
Fire station	0.52 <u>0.53</u>
Gymnasium	0.67 <u>0.68</u>
Health-care clinic	0.74 <u>0.82</u>
Hospital	1.05
Hotel/Motel	0.73 <u>0.75</u>

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Library	1.11 <u>0.78</u>
Manufacturing facility	0.89 <u>0.90</u>
Motion picture theater	0.67 <u>0.83</u>
Multifamily	0.67 <u>0.68</u>
Museum	0.92 <u>1.06</u>
Office	0.75 <u>0.79</u>
Parking garage	0.15
Penitentiary	0.70 <u>0.75</u>
Performing arts theater	1.12 <u>1.18</u>
Police station	0.76 <u>0.80</u>
Post office	0.66 <u>0.67</u>
Religious building	0.91 <u>0.94</u>
Retail	1.05 <u>1.06</u>
School/university	0.75 <u>0.81</u>
Sports arena	0.79 <u>0.87</u>
Town hall	0.74 <u>0.80</u>
Transportation	0.59 <u>0.61</u>
Warehouse	0.48
Workshop	0.88 <u>0.90</u>

Revise the Standard as follows (S-I units)

9.5.1 Building Area Method of Calculating Interior Lighting Power Allowance. Use the following steps to determine the interior lighting power allowance by the Building Area Method:

.....

Building Area Type^a	LPD, W/m²
Automotive facility	7.64 <u>7.64</u> W/m ²
Convention center	8.20 <u>8.20</u> W/m ²
Courthouse	9.72 <u>9.72</u> W/m ²
Dining: Bar lounge/leisure	9.72 <u>9.72</u> W/m ²
Dining: Cafeteria/fast food	8.51 <u>8.51</u> W/m ²
Dining: Family	8.43 <u>8.43</u> W/m ²
Dormitory	6.64 <u>6.64</u> W/m ²
Exercise center	7.06.7 <u>7.06.7</u> W/m ²
Fire station	5.76 <u>5.76</u> W/m ²
Gymnasium	7.32 <u>7.32</u> W/m ²
Health-care clinic	8.80 <u>8.80</u> W/m ²
Hospital	11.3 W/m ²
Hotel/Motel	8.17.9 <u>8.17.9</u> W/m ²

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Second Public Review Draft – Independent Substantive Changes

Library	12.70 W/m ²
Manufacturing facility	9.76 W/m ²
Motion picture theater	8.97.2 W/m ²
Multifamily	7.32 W/m ²
Museum	11.49.9 W/m ²
Office	8.51 W/m ²
Parking garage	1.6 W/m ²
Penitentiary	8.17.5 W/m ²
Performing arts theater	12.71 W/m ²
Police station	8.62 W/m ²
Post office	7.21 W/m ²
Religious building	10.19.8 W/m ²
Retail	11.43 W/m ²
School/university	8.71 W/m ²
Sports arena	9.48.5 W/m ²
Town hall	8.60 W/m ²
Transportation	6.64 W/m ²
Warehouse	5.2 W/m ²
Workshop	9.75 W/m ²



**BSR/ASHRAE/IES Addendum cm
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

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FOREWORD

This addendum clarifies and simplifies the default U-factors within appendix A for wood panels and wood sub-floors, corrects the dimensional lumber sizes in the tables, and re-organizes the material list by putting similar materials together.

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

Addendum cm to 90.1-2013

Modify the standard as follows
IP Units

TABLE A9.4.3-1 R-Values of Building Materials

Material	Nominal Size, in.	Actual Size, in.	R-Value
Carpet and rubber pad	—	—	1.23
	—	2	0.13
	—	4	0.25
Concrete at R-0.0625	—	6	0.38
	—	8	0.5
	—	10	0.63
	—	12	0.75
Flooring, wood subfloor	—	<u>0.75</u>	<u>0.94</u>
Gypsum board	—	0.5	0.45
	—	0.625	0.56
Metal deck	—	—	0
Roofing, built-up	—	0.375	0.33
Sheathing, vegetable fiber board, 0.78 in.	—	<u>0.78</u>	<u>2.06</u>

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Soil at R-0.104/in.	—	12	1.25
Steel, mild		1	0.0031807
Stucco	—	0.75	0.08
<u>Wood panels 7/16"</u>		<u>0.438</u>	<u>0.62</u>
<u>Wood subfloor</u>	<u>—</u>	<u>0.75</u>	<u>0.94</u>
Wood, 2 × 4 at R-1.25/in.	4	3.5	4.38
Wood, 2 × 6 at R-1.25/in.	6	5.5	6.88
Wood, 2 × 8 at R-1.25/in.	8	7.25	9.06
Wood, 2 × 10 at R-1.25/in.	10	9.25	11.56
Wood, 2 × 12 at R-1.25/in.	12	11.25	14.06
Wood, 2 × 14 at R-1.25/in.	14	13.25	16.56

*S-I Units***TABLE A9.4.3-1 R-Values of Building Materials**

Material	Nominal Size, mm.	Actual Size, mm.	R-Value
Carpet and rubber pad	—	—	0.22
	—	50	0.02
	—	100	0.04
	—	150	0.07
Concrete at R-0.000434/mm	—	200	0.09
	—	250	0.11
	—	300	0.13
Flooring, wood subfloor	—	49	0.17
	—	13	0.08
Gypsum board	—	16	0.10
Metal deck	—	—	0
Roofing, built-up	—	9.5	0.06
Sheathing, vegetable fiber board, 20 mm	—	20	0.36
Soil at R-0.000723/mm	—	300	0.22

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Steel, mild	—	25.4	0.0005601
Stucco	—	19	0.01
<u>Wood panels 12mm</u>		<u>12</u>	<u>0.62</u>
<u>Wood subfloor</u>		<u>19</u>	<u>0.17</u>
Wood, 50 × 100	100	89	0.77
Wood, 250 × 150	150	140	1.21
Wood, 250 × 200	200	184	1.60
Wood, 250 × 250	250	235	2.04
Wood, 250 × 300	300	286	2.48
Wood, 250 × 350	350	337	2.92



**BSR/ASHRAE/IES Addendum cn
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

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FOREWORD

This revision to Standard 90.1 was developed in response to the update of ASHRAE Standard 169-2013, Climatic Data for Building Design Standards. Standard 169-2013 includes more-recent weather data (resulting in changes in climate zone assignments for some locations, including approximately 10% of the 3000 counties in the United States) and the creation of a new Climate Zone 0. Standard 169 is now referenced for climatic data (though a new Reference Standard Reproduction Annex placed at the end of Standard 90.1 includes extracts from Standard 169). Criteria are now specified for Climate Zone 0 in most sections of Standard 90.1 through previous addenda w and br. This addendum covers additional criteria for Climate Zone 0 in Appendix G.

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Addendum cn to 90.1-2013

Modify the standard as follows (IP and S-I Units)

TABLE 4.2.1.1 Building Performance Factor (BPF)

Building Area Type ^a	Climate Zone																
	<u>0A</u> and 1A	<u>0B</u> and 1B	2A	2B	3A	3B	3C	4A	4B	4C	5A	5B	5C	6A	6B	7	8

(remainder of table unchanged)



**BSR/ASHRAE/IES Addendum cq
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FOREWORD

Motors on heat rejection equipment often are supplied with service factors in order to allow for startup and operation in all climates with no motor overload. To be sure to capture the energy savings per the intent of the Standard, the maximum motor horsepower (kW) based on the service factor (motor nameplate horsepower [or kW] times the service factor) would be used to establish compliance with this requirement.

For example, a heat rejection device with four parallel operating motors, each labeled at 1.0 HP with a service factor of 1.5, would be capable of operating at 6.0 HP (1.5 SF times 1.0 HP). Under the current requirement, the heat rejection device would not call for variable speed control. However, when including the service factor, the device would now require variable speed control.

Note that Addendum “ca” to ASHRAE Standard 90.1-2013 lowered the motor power threshold for the fan speed requirement from 7.5 HP (5.6 kW) to 5 HP (3.7 kW). The revisions from Addendum “ca” serve as the basis for this current Addendum.

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Addendum cq to 90.1-2013

Modify the standard as follows (IP Units)

6.5.5.2 Fan Speed Control

6.5.5.2.1 The fan system on a heat rejection device powered by an individual motor or an array of motors with a connected power, including the motor service factor, totaling 5 hp or more shall have controls and/or devices (such as variable-speed control) that shall result in fan motor demand of no more than 30% of design wattage at 50% of the design airflow and that shall automatically modulate the fan speed to control the leaving fluid temperature or condensing temperature/pressure of the heat rejection device.

Exceptions:

1. Condenser fans serving multiple refrigerant or fluid cooling circuits
2. Condenser fans serving flooded condensers

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Modify the standard as follows (SI Units)

6.5.5.2 Fan Speed Control

6.5.5.2.1 The fan system on a heat rejection device powered by an individual motor or an array of motors with a connected power, including the motor service factor, totaling 3.7 kW or more shall have controls and/or devices (such as variable-speed control) that shall result in fan motor demand of no more than 30% of design wattage at 50% of the design airflow and that shall automatically modulate the fan speed to control the leaving fluid temperature or condensing temperature/pressure of the heat rejection device.

Exceptions:

1. Condenser fans serving multiple refrigerant or fluid cooling circuits
2. Condenser fans serving flooded condensers



**BSR/ASHRAE/IES Addendum cr
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

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FOREWORD

It is common to see VFD-driven pumps with balancing, multi-purpose, or “triple-duty” valves on their discharges that are set by bypassing the VFD to 60 Hz, then balancing the pump flow, and then putting the VFD back into automatic mode. This adds a permanent pressure loss to the system. This addendum prohibits that practice.

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Addendum cr to 90.1-2013

Modify the standard as follows (IP and S-I Units)

6.5.4.2 Hydronic Variable Flow Systems. HVAC pumping systems having a total pump system power exceeding 10 hp that include control valves designed to modulate or step open and close as a function of load shall be designed for variable fluid flow and shall be capable of reducing pump flow rates to 50% or less of the design flow rate. Individual chilled water pumps serving variable-flow systems having motors exceeding 5 hp shall have controls and/or devices (such as variable-speed control) that will result in pump motor demand of no more than 30% of design wattage at 50% of design water flow. Throttling or balancing valves serving these pumps shall be fully open at the completion of testing and balancing. The controls or devices shall be controlled as a function of desired flow or to maintain a minimum required differential pressure. Differential pressure shall be measured at or near the most remote heat exchanger or the heat exchanger requiring the greatest differential pressure. The differential pressure setpoint shall be no more than 110% of that required to achieve design flow through the heat exchanger. Where differential pressure control is used to comply with this section and DDC systems are used, the setpoint shall be reset downward based on valve positions until one valve is nearly wide open.

Exceptions:

1. Systems where the minimum flow is less than the minimum flow required by the equipment manufacturer for the proper operation of equipment served by the system, such as chillers, and where total pump system power is 75 hp or less
2. Systems that include no more than three control valves



**BSR/ASHRAE/IES Addendum ct
to ANSI/ASHRAE/IES Standard 90.1-2013**

Public Review Draft

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FOREWORD

While water is the most popular heat transfer fluid in economizers that indirectly cool supply air and reject heat to the atmosphere, any fluid may be used. Lately products using refrigerant as the fluid have come onto the market. These products still have to meet the same requirements for sizing and integration as economizers using water as the fluid.

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Addendum ct to 90.1-2013

Modify the standard as follows (IP and S-I Units)

Revise definitions in section 3:

economizer, ~~water~~fluid: a system by which the supply air of a cooling system is cooled indirectly with ~~water~~ a fluid that is itself cooled by heat or mass transfer to the environment without the use of mechanical cooling. Examples of commonly used fluids are water, glycol mixtures, and refrigerants.

~~water~~ fluid economizer: see economizer, ~~water~~fluid

Revise Table 6.5.1-3 to read:

Table 6.5.1-3 Eliminate Required Economizer for Comfort Cooling by Increasing Cooling Efficiency	
Climate Zone	Efficiency Improvement ^a
2a	17%
2b	21%
3a	27%
3b	32%
3c	65%
4a	42%
4b	49%
4c	64%
5a	49%
5b	59%

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5c	74%
6a	56%
6b	65%
7	72%
8	77%
a. If a unit is rated with an IPLV, IEER, or SEER then to eliminate the required air or water economizer, the minimum cooling efficiency of the HVAC unit must be increased by the percentage shown. If the HVAC unit is only rated with a full-load metric like EER cooling then these must be increased by the percentage shown	

Revise 6.5.1 to read:

6.5.1 Economizers. Each cooling system that has a fan shall include either an air or water-fluid economizer meeting the requirements of Sections 6.5.1.1 through 6.5.1.6.

Revise 6.5.1.2 to read:

6.5.1.2 Water-Fluid Economizers

6.5.1.2.1 Design Capacity. Water-Fluid economizer systems shall be capable of providing up to 100% of the expected system cooling load at outdoor air temperatures of 50°F dry bulb/45°F wet bulb and below.

Exceptions:

1. Systems primarily serving computer rooms in which 100% of the expected system cooling load at the dry-bulb and wet-bulb listed in Table 6.5.1.2.1 is met with ~~evaporative water~~ water-cooled fluid economizers
2. Systems primarily serving computer rooms in which 100% of the expected system cooling load at the dry-bulb temperatures listed in Table 6.5.1.2.1 is met with ~~dry-cooler water~~ air-cooled fluid economizers
3. Systems where dehumidification requirements cannot be met using outdoor air temperatures of 50°F dry-bulb/45°F wet-bulb and where 100% of the expected system cooling load at 45°F dry-bulb/40°F wet-bulb is met with ~~evaporative water~~ water-cooled fluid economizers

6.5.1.2.2 Maximum Pressure Drop. Precooling coils and waterfluid-to-water heat exchangers used as part of a water-fluid economizer system shall either have a water-side pressure drop of less than 15 ft of water, or a secondary loop shall be created so that the coil or heat exchanger pressure drop is not seen by the circulating pumps when the system is in the normal cooling (noneconomizer) mode.

Revise Table 6.5.1.2.1 to read:

TABLE 6.5.1.2.1 Water-Fluid Economizer Sizing Dry-Bulb and Wet-Bulb Requirements for Computer Rooms

Zone	Evaporative Water <u>Water-cooled</u> Economizer		Dry Cooler Water <u>Air Cooled</u> Economizer
	Dry Bulb, °F	Wet Bulb, °F	Dry Bulb, °F

Revise 6.5.1.6 to read:

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6.5.1.6 Economizer Humidification System Impact. Systems with hydronic cooling and humidification systems designed to maintain inside humidity at a dew-point temperature greater than 35°F shall use a ~~water-fluid~~ economizer if an economizer is required by Section 6.5.1.

6.5.4.5.1 Each hydronic heat pump and water-cooled unitary air-conditioner shall have a two-position automatic valve interlocked to shut off water flow when the compressor is off.

Exception: Units employing ~~water-fluid~~ economizer

Revise 11.5.2 to read:

e. Budget building systems as listed in Table 11.5.2-1 shall have outdoor air economizers or ~~water-fluid~~ economizers, the same as in the proposed building, in accordance with Section 6.5.1. The high-limit shutoff shall be in accordance with Table 11.5.2-4.



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to ANSI/ASHRAE/IES Standard 90.1-2013**

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FOREWORD

This addendum clarifies that trade-off credit is not available for unmodified existing building components when using Appendix G as a method for compliance with the standard. It also clarifies that future building components (those not yet designed) are assumed to meet the requirements of Sections 6, 7, and 9 as required by Table G3.1.

The tables below are just FYI.

For Rating Performance Beyond Code

	Proposed	Baseline
New systems or components	As designed	As described in Section G.3
Existing systems or components	As exists	As described in Section G.3
Future systems or components (not yet designed)	Meet mandatory and prescriptive requirements of Sections 5-10	As described in Section G.3

For Compliance

	Proposed	Baseline
New systems or components	As designed	As described in Section G.3
Existing systems or components	As exists	As described in Section G.3
Future systems or components (not yet designed)	Meet mandatory and prescriptive requirements of Sections 5-10	As described in Section G.3

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

Addendum da to 90.1-2013

Revise the Standard as follows (IP and S-I Units)

4.2 Compliance

4.2.1 Compliance Paths

4.2.1.2 Additions to Existing Buildings. Additions to existing buildings shall comply with either the provisions of Sections 5, 6, 7, 8, 9, and 10 or Section 11 or Appendix G.

4.2.1.2.1 When an addition to an existing building cannot comply by itself, trade-offs will be allowed by modification to one or more of the existing components of the existing

building. Modeling of the modified components of the existing building and addition shall employ the procedures of Section 11 or Appendix G; the addition shall not increase the energy consumption of the existing building plus the addition beyond the energy that would be consumed by the existing building plus the addition if the addition alone did comply.

4.2.1.3 Alterations of Existing Buildings. Alterations of existing buildings shall comply with the provisions of Sections 5, 6, 7, 8, 9, and 10 or Section 11 or Appendix G, ~~provided, however, that nothing in this standard shall require compliance with any provision of this standard if such compliance will result in the increase of energy consumption of the building.~~

Exceptions:

1. A building that has been specifically designated as historically significant by the adopting authority or is listed in The National Register of Historic Places or has been determined to be eligible for listing by the U.S. Secretary of the Interior need not comply with these requirements.
2. ~~Where one or more components of an existing building or portions thereof are being replaced, the annual energy consumption of the comprehensive design shall not be greater than the annual energy consumption of a substantially identical design, using the same energy types, in which compliance with the applicable requirements of Sections 5, 6, 7, 8, 9, and 10, as provided in Section 4.2.1.2.1, is verified by a design professional by the use of any calculation methods acceptable to the authority having jurisdiction.~~

~~**G1.3 Trade-Off Limits.** When the proposed modifications apply to less than the whole building, only parameters related to the systems to be modified shall be allowed to vary. Parameters relating to unmodified existing conditions or to future building components shall be identical for determining both the baseline building performance and the proposed building performance. Future building components shall meet the prescriptive requirements of Sections 5.5, 6.5, 7.5, and either 9.5 or 9.6.~~

~~When using the Performance Rating Method as an alternative path for minimum standard compliance per Section 4.2.1.1, trade-offs and credits for energy efficiency improvement shall be limited to the scope of work identified in the building permit. For new buildings or additions, the Performance Rating Method results shall not be submitted for building permit approval to the rating authority prior to submittal for approval of the building envelope design.~~

Table G3.1 Modeling Requirements for Calculating Proposed and Baseline Building Performance

No.	Proposed Building Performance	Baseline Building Performance
2. Additions and Alterations		
It is acceptable to predict performance using building models that exclude parts of the existing building provided that all of	<u>If the proposed building model excluded parts of the existing building the baseline building model shall exclude them as</u>	

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Table G3.1 Modeling Requirements for Calculating Proposed and Baseline Building Performance

No.	Proposed Building Performance	Baseline Building Performance
	the following conditions are met:	<u>well.</u>
a.	Work to be performed in excluded parts of the building shall meet the requirements of Sections 5 through 10.	<u>When modeled, unmodified existing building components shall follow the same rules as new and modified building components.</u>
b.	Excluded parts of the building are served by HVAC systems that are entirely separate from those serving parts of the building that are included in the building model.	Same as proposed building design
c.	Design space temperature and HVAC system operating setpoints and schedules on either side of the boundary between included and excluded parts of the building are essentially the same.	
d.	If a declining block or similar utility rate is being used in the analysis, and the excluded and included parts of the building are on the same utility meter, the rate shall reflect the utility block or rate for the building plus the addition.	



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FOREWORD

This addendum modifies the standard to try to use consistent terminology when a building official or rating authority is responsible for reviewing a model when using the Energy Cost Budget Method or Performance Rating Method.

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

Addendum db to 90.1-2013

Revise the Standard as follows (IP and S-I Units)

building official: ~~the officer or other designated representative authorized to act on behalf of the authority having jurisdiction~~ authority having jurisdiction charged with the administration and enforcement of this standard, or a duly authorized representative.

~~***code official:*** see ***building official.***~~

rating authority: ~~the organization, building official, or agency that adopts, enforces, or sanctions use of this rating method~~ Appendix 'G' when quantifying performance that exceeds the requirements of this standard.

6.5.3.1.2 Motor Nameplate Horsepower. For each fan, the selected fan motor shall be no larger than the first available motor size greater than the bhp. The fan bhp must be indicated on the design documents to allow for compliance verification by the ~~code~~ building official.

11. ENERGY COST BUDGET METHOD

TABLE 11.5.1 Modeling Requirements for Calculating Design Energy Cost and Energy Cost Budget (Continued)

6. Lighting – Proposed Building Design

e. The lighting schedules in the proposed building design shall reflect the mandatory automatic lighting control requirements in Section 9.4.1 (e.g., programmable controls or occupancy sensors).

Exception: Automatic daylighting controls required by Section 9.4.1 shall be modeled directly in the proposed building design or through schedule adjustments determined by a ~~separate~~ daylighting analysis approved by the rating authority building official.

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11.5.2 HVAC Systems. The HVAC system type and related performance parameters for the budget building design shall be determined from Figure 11.5.2, the system descriptions in Table 11.5.2-1 and accompanying notes and the following rules...

i. The equipment capacities for the budget building design shall be sized proportionally to the capacities in the proposed building design based on sizing runs, i.e., the ratio between the capacities used in the annual simulations and the capacities determined by the sizing runs shall be the same for both the proposed building design and budget building design. Unmet load hours for the proposed design or baseline building designs shall not exceed 300. The unmet load hours for the proposed design shall not exceed the unmet load hours for the budget building. Alternatively, unmet load hours exceeding these limits may be accepted ~~at the discretion of the rating authority~~ as approved by the building official, provided that sufficient justification is given indicating that the accuracy of the simulation is not significantly compromised by these unmet loads.

NORMATIVE APPENDIX G PERFORMANCE RATING METHOD

G1. GENERAL

G1.1 Performance Rating Method Scope. ~~This building performance rating method is a modification of the Energy Cost Budget (ECB) Method in Section 11 and is intended for use in rating the energy efficiency of building designs that exceed the requirements of this standard. This Appendix offers an alternative compliance path for minimum Standard compliance per in accordance with Section 4.2.1.1 when administered by a building official. It and is also provided for those wishing to use the methodology developed for this standard this Appendix to quantify performance that substantially exceeds the requirements of this standard when administered by a rating authority and, not seeking minimum standard compliance in accordance with Section 4.2.1.1. It shall be used for evaluating the performance of all such proposed designs, including alterations and additions to existing buildings, except designs with no mechanical systems. In the case where this Appendix is administered solely by a building official to determine compliance with this standard in accordance with Section 4.2.1.1, all references to “rating authority” shall be replaced with “building official.”~~

G1.3 Trade-Off Limits. When the proposed modifications apply to less than the whole building, only parameters related to the systems to be modified shall ~~be allowed to vary~~. Parameters relating to unmodified existing conditions or to future building components shall be identical for determining both the baseline building performance and the proposed building performance. Future building components shall meet the prescriptive requirements of Sections 5.5, 6.5, 7.5, and either 9.5 or 9.6.

~~When using the Performance Rating Method this Appendix as an alternative path for minimum standard compliance per in accordance with Section 4.2.1.1, trade-offs and credits for energy efficiency improvement shall be limited to the scope of work identified in the building permit. For new buildings or additions, the Performance Rating Method results from the use of this Appendix shall not be submitted for building permit approval to the rating authority building official prior to submittal for approval of the building envelope design.~~

G2.5 Exceptional Calculation Methods. When the simulation program does not model a design, material, or device of the proposed design, an Exceptional Calculation Method shall be used ~~if~~ as approved by the rating authority. ~~Where~~ Where there are multiple designs, materials, or devices that the simulation program does not model, each shall be calculated separately and Exceptional Savings determined for each. At no time shall the total Exceptional Savings constitute more than half of the difference between the baseline building performance and the proposed building performance. All applications for approval of an exceptional method shall include:

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TABLE G3.1 Modeling Requirements for Calculating Proposed and Baseline Building Performance
(Continued)

4. Schedules - Proposed Building Performance

Schedules capable of modeling hourly variations in occupancy, lighting power, miscellaneous equipment power, thermostat setpoints, and HVAC system operation shall be used. The schedules shall be typical of the proposed building type as determined by the designer and approved by the rating authority.

4. Schedules - Baseline Building Performance

Same as proposed building design

Exceptions ...

2. Schedules may be allowed to differ between proposed design and baseline building design when necessary to model nonstandard efficiency measures, provided that the revised schedules have ~~the approval of~~ been approved by the rating authority. Measures that may warrant use of different schedules include, but are not limited to, automatic lighting controls, automatic natural ventilation controls, automatic demand control ventilation controls, and automatic controls that reduce service water heating loads. In no case shall schedules differ where the controls are manual (e.g., manual operation of light switches or manual operation of windows).

10. HVAC Systems - Baseline Building Performance

Fossil fuel systems shall be modeled using natural gas as their fuel source.

Exception: For fossil fuel systems where natural gas is not available for the proposed building site as determined by the rating authority, the baseline HVAC system(s) shall be modeled using propane as their fuel.

11. Service Hot-Water Systems (cont.) – Baseline Building Performance

j. Gas storage water heaters shall be modeled using natural gas as their fuel source.

Exception: Where natural gas is not available for the proposed building site, as determined by the rating authority gas storage water heaters shall be modeled using propane as their fuel source.

12. Receptacle and Other Loads – Proposed Building Performance

Receptacle and process loads, such as those for office and other equipment, shall be estimated based on the building type or space type category and shall be assumed to be identical in the proposed and baseline building designs, except as specifically ~~authorized~~ approved by the rating authority. These loads shall be included in simulations of the building and shall be included when calculating the baseline building performance and proposed building performance.

12. Receptacle and Other Loads – Proposed Building Performance

Receptacle and process loads, such as those for office and other equipment, shall be estimated based on the building type or space type category and shall be assumed to be identical in the proposed and baseline building designs, except as specifically ~~authorized~~ approved by the rating authority only when quantifying performance that exceeds the requirements of Standard 90.1, but not when the Performance Rating Method is used as an

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alternative path for minimum standard compliance ~~per~~ in accordance with Section 4.2.1.1. These loads shall always be included in simulations of the building. These loads shall be included when calculating the baseline building performance and proposed building performance as required by Section G1.2.2.

12. Receptacle and Other Loads – Baseline Building Performance

Other systems, such as motors covered by Section 10, and miscellaneous loads shall be modeled as identical to those in the proposed design including schedules of operation and control of the equipment. Where there are specific efficiency requirements listed in Sections 5 through 10, these systems or components shall be modeled as having the lowest efficiency allowed by those requirements. Where no efficiency requirements exist, power and energy rating or capacity of the equipment shall be identical between the baseline building and the proposed design with the following exception:

Exception: When quantifying performance that exceeds the requirements of Standard 90.1 (but not when using the Performance Rating Method as an alternative path for minimum standard compliance per Section 4.2.1.1), variations of the power requirements, schedules, or control sequences of the equipment modeled in the baseline building from those in the proposed design shall be ~~allowed by~~ approved by the rating authority based upon documentation that the equipment installed in the proposed design represents a significant verifiable departure from documented conventional practice. The burden of this documentation is to demonstrate that accepted conventional practice would result in baseline building equipment different from that installed in the proposed design. Occupancy and occupancy schedules shall not be changed.

G3.1.2.4 Modeling Building Envelope Infiltration.

Exception: A multi-zone airflow model alternate method to model building envelope infiltration may be used provided the following criteria are met:

1. ~~If~~ Where the calculations are made independently of the energy simulation program, the proposed method must comply with Section G2.5.
2. The method for converting the air infiltration rate of the building envelope at 0.3 in. w.c., or 1.57 psf, to the appropriate units for the simulation program is fully documented and submitted to the rating authority for approval.

G3.1.2.3 Unmet Loads. Unmet load hours for the proposed design or baseline building designs shall not exceed 300 (of the 8,760 hours simulated). Alternatively, unmet load hours exceeding these limits ~~may~~ shall be permitted to be accepted ~~at the discretion of~~ upon approval by the rating authority, provided that sufficient justification is given indicating that the accuracy of the simulation is not significantly compromised by these unmet loads.

G3.1.2.6 Ventilation. Minimum ventilation system outdoor air intake flow shall be the same for the proposed and baseline building designs.

Exceptions ...

3. ~~If~~ Where the minimum outdoor air intake flow in the proposed design is provided in excess of the amount required by the building code or the rating authority, ~~or building official then~~ the baseline building design shall be modeled to reflect the greater of that required by either the rating authority or the building code official and will be less than the proposed design.



**BSR/ASHRAE/IES Addendum DC
to ANSI/ASHRAE/IES Standard 90.1-2013**

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FOREWORD

As a part of process of updating the Normative References in Chapter 12, the reference to Standard 55-2010 was updated to Standard 55-2013. In the 2013 version of Standard 55, the sections referenced by 90.1, Appendix G were renumbered.

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

Addendum dc to 90.1-2013

Modify the standard as follows (IP and SI Units)

TABLE G3.1 Modeling Requirements for Calculating Proposed and Baseline Building Performance Baseline Building Performance, No. 4 Schedules

Setpoints and schedules for HVAC systems that automatically provide occupant thermal comfort via means other than directly controlling the air dry-bulb and wet-bulb temperature may be allowed to differ, provided that equivalent levels of occupant thermal comfort are demonstrated via the methodology in Section ~~5.2.3~~ 5.3.3 of ASHRAE Standard 55, “Elevated Air Speed,” or ~~Appendix D~~ Appendix B of Standard 55, “Computer Program for Calculation of PMV-PPD.”

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

NSF/ANSI Standard for Food Equipment –

Water heaters, hot water supply boilers, and heat recovery equipment

-
-
-

6 Performance

~~6.1 Recovery rate verification~~

~~6.1.1 Performance requirement~~

~~The water heater shall be capable of providing quantities of water at the manufacturer's rated temperature rise and flow rate while not exceeding the rated power input to the device.~~

~~6.1.2 Apparatus~~

- ~~— temperature recording device accurate to ± 1 °F (± 0.5 °C);~~
- ~~— flowmeter accurate to $\pm 2\%$ to determine water flow;~~
- ~~— powermeter or combination of meters to determine power supply accurate to $\pm 3\%$ for electric water heaters;~~
- ~~— pressure sensor accurate to ± 0.1 in wc and gas supply appropriately sized for gas-fired water heaters;~~
- ~~— water supply capable of providing the necessary flow at each temperature rise; and~~
- ~~— gas flowmeter accurate to $\pm 2\%$.~~

~~6.1.3 Test conditions~~

~~Testing shall be performed in a standard laboratory atmosphere of 75 ± 5 °F (24 ± 3 °C).~~

~~6.1.4 Test method~~

- ~~a) Install the heater per the manufacturer's instructions.~~

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- ~~b) Connect the power sensors to monitor the power supply to the water heater (electrical heaters).~~
 - ~~c) Connect the gas supply, gas flowmeter, and pressure sensor to the gas inlet regulator or valve (for gas fired water heaters).~~
 - ~~d) Maintain the inlet water supply at a temperature of less than 70 °F (22 °C).~~
 - ~~e) Connect the temperature sensor to the inlet water supply, at a minimum of 6 pipe diameters away from the heater inlet.~~
 - ~~f) Connect the temperature sensor to the water heater outlet, at a location not greater than 4 pipe diameters from the water heater outlet.~~
 - ~~g) Install the flowmeter at the inlet piping, a minimum of six pipe diameters upstream of the temperature sensor.~~
- ~~NOTE — The flowmeter may be located downstream of the water heater if the instrument is calibrated and rated for use with water at the outlet temperature of the heater.~~
- ~~h) Set the flow through the heater at the rate recommended by the manufacturer to achieve a temperature rise of 40 °F (23 °C).~~
 - ~~i) Maintain this condition until the outlet water temperature is stable over five consecutive measurements with at least 1 min intervals.~~
 - ~~j) Record the inlet and outlet temperatures, water flow rate, heater settings (if applicable), and power supply.~~
 - ~~k) Calculate the actual temperature rise as $\Delta T = (T_{\text{outlet}} - T_{\text{inlet}})$.~~
 - ~~l) Calculate the energy consumption. For gas fired water heaters, Btu/h can be calculated as $\text{Btu/h} = CV(Q)T$, where CV = caloric value of the gas, Q = flow rate in cubic feet, and T = time in hours.~~
 - ~~m) Repeat steps h) through l) with the flow rate through the heater set at the rate recommended by the manufacturer to achieve a temperature rise of 80 °F (45 °C).~~
 - ~~n) Repeat steps h) through l) with the flow rate through the heater set at the rate recommended by the manufacturer to achieve a temperature rise of 140 °F (78 °C).~~

6.1.5 Acceptance criteria

At each flow rate, the actual temperature rise shall be within ± 3 °F (± 1.5 °C) of the manufacturer=s claim. For electric water heaters, the power consumption shall not exceed the rated values on the data plate by more than 5%. For gas fired water heaters, the consumption, Btu/h (kWh), required to achieve the rated temperature rise shall not exceed the manufacturer=s rated values by more than 2%.

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6.21 Temperature regulation

6.21.1 Performance requirement

If the inlet water temperature is 15 °F (9 °C) lower than the outgoing water temperature, the temperature regulator shall become activated prior to the outlet temperature dropping 5 °F (3 °C).

6.21.2 Apparatus

- temperature recording device accurate to ± 1 °F (± 0.5 °C);
- flowmeter accurate to ± 2 %; and
- thermostat-monitoring sensor (e.g., current or voltage sensing device) to detect the point at which the thermostat actuates.

6.21.3 Test conditions

The test shall be performed at an ambient temperature of 70 ± 10 °F (21 ± 6 °C).

6.21.4 Test method

- a) Connect the heater's gas regulator inlet to the gas supply with components sized to the regulator inlet. If the heater is electric, connect with wire sized to the current rating specified.
- b) Connect thermostat-monitoring sensor.
- c) Connect mixing valve to flow meter and flow meter to heater inlet with a thermocouple placed a minimum of 12 in (305 mm) upstream of inlet.
- d) Connect thermocouple to the heater outlet a maximum of 6 in (153 mm) from outlet connection, then discharge to drain.
- e) Adjust the inlet water temperature to the appropriate use temperature of 140 °F (60 °C) for storage heaters and 180 °F (82 °C) for booster heaters. Flow water through the unit at the manufacturer's maximum recommended flow rate until it is completely filled.
- f) Decrease the inlet water temperature to 125 °F (52 °C) for storage water heaters or 165 °F (74 °C) for booster heaters while maintaining maximum rated flow.
- g) Monitor the outlet water temperature and thermostat operation at intervals not exceeding 1 min until either the thermostat has activated, or the outlet temperature has dropped 15 °F (9 °C).
- h) To complete Run #2, repeat steps e) through g) in this section.

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6.21.5 Acceptance criteria

Prior to an outlet temperature drop of not more than 5 °F (3 °C), the temperature regulator shall become activated during Run #1 and Run #2.

Rationale: The current NSF/ANSI Standard 5 test requirement can be satisfied with calculations, based on the DOE required thermal efficiency test.

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7 Product Literature

Water heaters shall be provided with the efficiency rating used to establish compliance with national energy requirements which may be used to determine appropriate product applications.

NOTE – Immersion type electric water heaters shall be considered to be 98% efficient.

-
-
-

7.8 Installation, operation, and maintenance instructions

The manufacturer shall provide instructions for installation, operation, and maintenance of the equipment.

BSR/UL 60335-2-79, Standard for Household and Similar Electrical Appliances - Safety - Part 2-79: Particular Requirements for High Pressure Cleaners and Steam Cleaners

1. Proposed First Edition of UL 60335-2-79 for Household and Similar Electrical Appliances - Safety - Part 2-79: Particular Requirements for High Pressure Cleaners and Steam Cleaners

PROPOSAL

**ANSI/NEMA Z535.3:2002,
Criteria for Safety Symbols**

3.119DV.20 NOZZLE - a device with one or more openings for discharge of the fluid from the system. A nozzle restricts the fluid flow in order to obtain the desired pressure, velocity, spray patterns, and the resulting volume of flow.

7.1DV.1 Delete the 7th dashed item of Clause 7.1 of the Part 1. A product shall be marked in accordance with Table 7.1DV.1 or equivalent, as applicable.

9 Starting of motor-operated appliances

This clause of Part 1 is not applicable.

9DV D2 Modification: Replace Clause 9 of the part 2 with the following: ~~Add the underlined words to Subclause 9DV.2 of the part 1:~~

This Clause of Part 1 is applicable except as follows. Add the underlined words to Subclause 9DV.2 of the part 1:

The use of time delay fuses is acceptable for stationary or portable appliances marked as indicated in clause 7.17DV.

15 Moisture resistance

This clause of Part 1 is applicable except as follows.

15.1DV D2 Modification: replacement: Clause 15.1 of the Part 1 is replaced by the following:

15.1DV.1 Water spray test

As a result of each condition described in 15.1DV, there shall be no wetting of live parts, film-coated wire, or insulation likely to be adversely affected by the liquid involved, and no liquid shall enter a compartment housing field-installed wiring. For a cord-connected product rated 250 V or less, the leakage current is to be monitored during and after each test for compliance with Clause 13 of the Part 1. Following each test, the product shall comply with the requirements in a repeated Dielectric Voltage-Withstand Test, Clause 16 of the Part 1, and is then to be examined for presence of liquid.

A portable product or a product intended to be located in a wash area is to be subjected to a solid stream of water. The water spray test is to be conducted by means of the product's own high pressure discharge for 5 min from a nozzle-to-cleaning machine distance of 1,5 m. The discharge shall be made using the nozzle or nozzles supplied with the product that produces the worst case pressure and flow test criteria. Unless there are other possible operational positions of the product as stated in the manufacturer's instruction manual, the unit is to be placed on a flat horizontal surface for the duration of the test. The water stream is to be directed in a uniform manner (constant rate of movement over the product) over the entire surface of the product, at several angles, including the indirect splashing described below, with the trigger depressed in the full flow (full open) position.

Indirect splashing: the product is to be subjected to casual splashing caused by the hose stream directed at the supporting surface of the product to indirectly spray the underside of the cleaning machine.

Annex DVA

(normative)

Miscellaneous National Differences

DVA D2 Addition: add Annex DVA to the Part 2 as follows:

DVA.1 - DVA.2.4 apply only to electrically powered products.

DVA.1 For a portable product, the entire surface available for gripping a handle and the designated gripping area of a lance shall have outer surfaces of insulating material that comply with DVA.2.

Exception: the cart handle of a metal cart need not be insulated when both of the following conditions are met:

- a) The handle is reliably isolated from the voltage and grounding path, and therefore will not be energized during normal operation, servicing operation, or abnormal operating conditions.**
- b) The cart is reliably isolated from the supporting surface of the product.**

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BSR/UL 796, Standard for Safety for Printed-Wiring Boards

1. Clarification of Requirements for Direct Support of Current-Carrying Parts in Paragraph 9.3.1

PROPOSAL

9.3.1 A printed-wiring board identified by the markings required in 33.9 for the direct support of current carrying parts at 120 V rms or less and 15 A or less, shall have a base material that complies all materials, when used as a dielectric barrier and/or substrate for conductors, or the build-up construction, comply with the performance profile in Table 9.3.

2. Addition of Requirements Describing the Maximum Area Diameter on the Bond Strength and Delamination Test Pattern in New Section 10.8A

PROPOSAL

10.8A Maximum area diameter conductor

10.8A.1 A pattern shall employ a representative conductor of the maximum area to be used in production (see Figure 10.2).

10.8A.2 The maximum unpierced conductor area of any pattern on a printed-wiring board is determined by the largest circle that can be inscribed within the pattern (see Figure 10.2), not to exceed E in Figure 10.1. When it is intended that samples be tested with a circle of larger diameter than that which fits within the overall sample size dimensions shown in Figure 10.1, additional samples with a pattern containing only the largest circle are to be tested. See Figure 10.3.

~~10.13.4 The maximum unpierced conductor area of any pattern on a printed-wiring board is determined by the largest circle that can be inscribed within the pattern (see Figure 10.2), not to exceed E in Figure 10.1. When it is intended that samples be tested with a circle of larger diameter than that which fits within the overall sample size dimensions shown in Figure 10.1, additional samples with a pattern containing only the largest circle are to be tested. See Figure 10.3.~~

3. Removal of the Reference to Dissimilar Material Thermal Cycling from Table 24.1

PROPOSAL

Table 24.1

Test methods requiring exposure to the thermal shock test

Test	Section
Flammability	25
Bond strength	26
Delamination	27
Dissimilar material thermal cycling	28
Conductive paste adhesion	30
HDI thermal cycling bond strength	31.3

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BSR/UL 817, Standard for Cord Sets and Power-Supply Cords**1. Increase in the ampacity rating for an 18 and 17 AWG seasonal-use cord set****PROPOSAL****Table SA3.1****Flexible cord and overcurrent protection for seasonal-use cord sets**

Wire size		Wire type	Maximum overcurrent protector rating (A)
AWG	(mm ²)		
18	(0.824)	SP-2, SPT-2, SPE-2, SV, SVO, SVOO, SVT, SVTO, SVTOO, SVE	5 <u>8</u>
17	(1.0)	SV, SVO, SVOO, SVT, SVTO, SVTOO, SVE	8 <u>9</u>
16	(1.3)	SP-2, SPT-2, SPE-2	10

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BSR/UL 858, Standard for Household Electric Ranges

1. Change to Polymeric Materials Specification and Nichrome Wire Evaluation

PROPOSAL

77A.8 ~~If an~~ An appliance uses a control or device employed to provide protection from risk of fire or overheating and it has been shall be evaluated as a protective control, it may be active during the nichrome wire test. If that device shuts off power to the circuit under test, it and may be used to de-energize the nichrome wire if found to actuate during the test.

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Standards Action Publishing Schedule for 2016, Volume No. 47

*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET.

ISSUE	DATES FOR SUBMITTING DATA TO PSA		STANDARDS ACTION DATES & PUBLIC REVIEW COMMENT DEADLINE			
	No.	Submit Start	*Submit End 5PM	SA Published	30-Day PR ends	45-Day PR Ends
1	12/15/2015	12/21/2015	Jan-1	01/31/2016	02/15/2016	03/01/2016
2	12/22/2015	12/28/2015	Jan-8	02/07/2016	02/22/2016	03/08/2016
3	12/29/2015	01/04/2016	Jan-15	02/14/2016	02/29/2016	03/15/2016
4	01/05/2016	01/11/2016	Jan-22	02/21/2016	03/07/2016	03/22/2016
5	01/12/2016	01/18/2016	Jan-29	02/28/2016	03/14/2016	03/29/2016
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7	01/26/2016	02/01/2016	Feb-12	03/13/2016	03/28/2016	04/12/2016
8	02/02/2016	02/08/2016	Feb-19	03/20/2016	04/04/2016	04/19/2016
9	02/09/2016	02/15/2016	Feb-26	03/27/2016	04/11/2016	04/26/2016
10	02/16/2016	02/22/2016	Mar-4	04/03/2016	04/18/2016	05/03/2016
11	02/23/2016	02/29/2016	Mar-11	04/10/2016	04/25/2016	05/10/2016
12	03/01/2016	03/07/2016	Mar-18	04/17/2016	05/02/2016	05/17/2016
13	03/08/2016	03/14/2016	Mar-25	04/24/2016	05/09/2016	05/24/2016
14	03/15/2016	03/21/2016	Apr-1	05/01/2016	05/16/2016	05/31/2016
15	03/22/2016	03/28/2016	Apr-8	05/08/2016	05/23/2016	06/07/2016
16	03/29/2016	04/04/2016	Apr-15	05/15/2016	05/30/2016	06/14/2016
17	04/05/2016	04/11/2016	Apr-22	05/22/2016	06/06/2016	06/21/2016
18	04/12/2016	04/18/2016	Apr-29	05/29/2016	06/13/2016	06/28/2016
19	04/19/2016	04/25/2016	May-6	06/05/2016	06/20/2016	07/05/2016
20	04/26/2016	05/02/2016	May-13	06/12/2016	06/27/2016	07/12/2016
21	05/03/2016	05/09/2016	May-20	06/19/2016	07/04/2016	07/19/2016
22	05/10/2016	05/16/2016	May-27	06/26/2016	07/11/2016	07/26/2016
23	05/17/2016	05/23/2016	Jun-3	07/03/2016	07/18/2016	08/02/2016
24	05/24/2016	05/30/2016	Jun-10	07/10/2016	07/25/2016	08/09/2016
25	05/31/2016	06/06/2016	Jun-17	07/17/2016	08/01/2016	08/16/2016
26	06/07/2016	06/13/2016	Jun-24	07/24/2016	08/08/2016	08/23/2016
27	06/14/2016	06/20/2016	Jul-1	07/31/2016	08/15/2016	08/30/2016



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29	06/28/2016	07/04/2016	Jul-15	08/14/2016	08/29/2016	09/13/2016
30	07/05/2016	07/11/2016	Jul-22	08/21/2016	09/05/2016	09/20/2016
31	07/12/2016	07/18/2016	Jul-29	08/28/2016	09/12/2016	09/27/2016
32	07/19/2016	07/25/2016	Aug-5	09/04/2016	09/19/2016	10/04/2016
33	07/26/2016	08/01/2016	Aug-12	09/11/2016	09/26/2016	10/11/2016
34	08/02/2016	08/08/2016	Aug-19	09/18/2016	10/03/2016	10/18/2016
35	08/09/2016	08/15/2016	Aug-26	09/25/2016	10/10/2016	10/25/2016
36	08/16/2016	08/22/2016	Sep-2	10/02/2016	10/17/2016	11/01/2016
37	08/23/2016	08/29/2016	Sep-9	10/09/2016	10/24/2016	11/08/2016
38	08/30/2016	09/05/2016	Sep-16	10/16/2016	10/31/2016	11/15/2016
39	09/06/2016	09/12/2016	Sep-23	10/23/2016	11/07/2016	11/22/2016
40	09/13/2016	09/19/2016	Sep-30	10/30/2016	11/14/2016	11/29/2016
41	09/20/2016	09/26/2016	Oct-7	11/06/2016	11/21/2016	12/06/2016
42	09/27/2016	10/03/2016	Oct-14	11/13/2016	11/28/2016	12/13/2016
43	10/04/2016	10/10/2016	Oct-21	11/20/2016	12/05/2016	12/20/2016
44	10/11/2016	10/17/2016	Oct-28	11/27/2016	12/12/2016	12/27/2016
45	10/18/2016	10/24/2016	Nov-4	12/04/2016	12/19/2016	01/03/2017
46	10/25/2016	10/31/2016	Nov-11	12/11/2016	12/26/2016	01/10/2017
47	11/01/2016	11/07/2016	Nov-18	12/18/2016	01/02/2017	01/17/2017
48	11/08/2016	11/14/2016	Nov-25	12/25/2016	01/09/2017	01/24/2017
49	11/15/2016	11/21/2016	Dec-2	01/01/2017	01/16/2017	01/31/2017
50	11/22/2016	11/28/2016	Dec-9	01/08/2017	01/23/2017	02/07/2017
51	11/29/2016	12/05/2016	Dec-16	01/15/2017	01/30/2017	02/14/2017
52	12/06/2016	12/12/2016	Dec-23	01/22/2017	02/06/2017	02/21/2017
53	12/13/2016	12/19/2016	Dec-30	01/29/2017	02/13/2017	02/28/2017