VOL. 49, #36 September 7, 2018

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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.
- 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: October 7, 2018

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

Addenda

BSR/ASHRAE Addendum 55b-201x, Thermal Environmental Conditions for Human Occupancy (addenda to ANSI/ASHRAE Standard 55-2013)

This proposed addendum updates the computer code for calculation of PMV-PPD using the JavaScript language to ease the use of the code in modern software applications. The updated code also includes errata previously published for Standard 55-2013 and aligns the code with requirements in Standard 55-2017.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

BSR/ASHRAE Addendum 55c-201x, Thermal Environmental Conditions for Human Occupancy (addenda to ANSI/ASHRAE Standard 55-2013)

This proposed addendum adds a requirement for projects demonstrating compliance through Section 5.3.1, 5.3.2, or 5.3.3, design compliance to indicate the Comfort Control Classification Levels proposed through the addendum.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Online Comment Database at https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts

BSR/ASHRAE/IES Addendum 90.1dn-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016)

This addendum revises two exceptions to the requirement to use energy recovery in Section 6.5.6.1. One change limits the exception for solar heating to cooler climates. The second clarifies the exemption for the use of "energy recovery in series with the cooling coil" by creating a new definition for series energy recovery.

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

BSR/ASRHAE/ICC/USGBC/IES Addendum 189.1i-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This addendum proposes to update the cooling tower requirements by specifying different maximum concentrations of contaminants for different cooling tower materials and simplifying the calculations for meeting the requirements.

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

BSR/ASRHAE/ICC/USGBC/IES Addendum 189.1I-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

Energy efficiency of a new building will degrade over time caused by poorly maintained, failing, and improperly controlled equipment. The proposed Fault Detection and Diagnostics (FDD) requirement will reduce that degradation by detecting existing and future malfunctioning systems and notifying building operators so that actions may be taken to reduce energy consumption of the building. Additionally, FDD systems are being utilized to drive operational efficiency, make better use of maintenance personnel, and resolve comfort issues.

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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 455-4-201x (i8r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR 210 and 211 Good Manufacturing Practices (GMPs) in manufacturing, processing, packing, or holding of drugs for finished pharmaceuticals as well as incorporating additional retailer requirements. It refers to the requirements for GMPs applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

Click here to view these changes in full

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

BSR/NSF 455-4-201x (i9r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR 210 and 211 Good Manufacturing Practices (GMPs) in Manufacturing, processing, packing, or holding of drugs for finished pharmaceuticals as well as incorporating additional retailer requirements. It refers to the requirements for GMPs applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

Click here to view these changes in full

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

RESNET (Residential Energy Services Network, Inc.)

Revision

BSR/RESNET/ICC 380-201x, Standard for Testing Airtightness of Building, Dwelling Unit and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems; and Airflow of Mechanical Ventilation Systems (revision of ANSI/RESNET/ICC 380 -2016)

This standard is applicable to all dwelling units and sleeping units in residential and commercial buildings. The standard defines procedures for measuring the airtightness of building, dwelling unit, and sleeping unit enclosures; the airtightness of heating and cooling air distribution systems; and the airflow of mechanical ventilation systems. The standard complements and references other American National Standards.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Comments are submitted via RESNET's online comment form. See the links from webpage: http://www.resnet.us/blog/resnet-consensus-standards/

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 355-201X, Standard for Safety for Cord Reels (revision of ANSI/UL 355-2011 (R2016))

Withdrawal of the UL 355 Proposal dated 08-04-2017 for the Addition of Requirements for Supplementary Class 2 Circuits Such as a USB Port, New 14.2.(3). The current requirements in the standard would remain unchanged with the withdrawal of this proposal.

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Send comments (with copy to psa@ansi.org) to: Linda Phinney, (510) 319-4297, Linda.L.Phinney@ul.com

BSR/UL 817-201X, Standard for Safety for Cord Sets and Power-Supply Cords (Proposal dated 9/7/18) (revision of ANSI/UL 817-2018)

Addition of Integral Latching Mechanisms on Cord Connectors, Revised 5.9, and Section 9.11; New Clause 8.7, and Section 19B.

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Send comments (with copy to psa@ansi.org) to: Linda Phinney, (510) 319-4297, Linda.L.Phinney@ul.com

BSR/UL 962-201x, Standard for Safety for Household and Commercial Furnishings (revision of ANSI/UL 962-2017)

The proposed changes to UL 962 cover revising the horizontal loading requirements in Table 36.1 to reference the requirements in BIFMA X5.5.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Megan Sepper, (847) 664-3411, Megan.M.Sepper@ul.com

BSR/UL 1557-201x, Standard for Safety for Electrically Isolated Semiconductor Devices (revision of ANSI/UL 1557-2018)

(1) Define requirements for series end test as minimum values for compliance to IEC; (2) Power electronic modules with ceramic insulation

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

Comment Deadline: October 22, 2018

ASA (ASC S1) (Acoustical Society of America)

Revision

BSR/ASA S1.18-201x, Method for Determining the Acoustic Impedance of Ground Surfaces (revision of ANSI/ASA S1.18-2010)

Describes procedures for obtaining the real and imaginary parts of normalized acoustic impedance ratio of ground surfaces from insitu measurements of the sound pressure levels at two vertically separated microphones using specified geometries and the averaged values of the difference between the simultaneous instantaneous sound-pressure signals at the two microphones. It enables the user to either deduce parameters for a ground impedance model by fitting spectral data to templates or obtain values of the normalized specific acoustic impedance ratio of the ground entirely from measurements and independently of any model for the acoustic impedance of the ground surface except as a check on the validity of the resulting values.

Single copy price: \$145.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org Send comments (with copy to psa@ansi.org) to: asastds@acousticalsociety.org

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

Addenda

BSR/ASHRAE Addendum bw to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

There is a need for a simple, universal data exchange format for the transfer of a time-series data between various platforms for operations such as analyzing the energy performance of buildings. This addendum adds Time Series Data Exchange Format.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

BSR/ASRHAE/ICC/USGBC/IES Addendum 189.1j-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This addendum makes numerous updates the renewable energy requirements of Standard 189.1.

Single copy price: \$35.00

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

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

BSR/ASRHAE/ICC/USGBC/IES Addendum 189.1k-201x, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017)

This addendum makes the performance approach and the prescriptive approach consistent with each other. It also addresses how to calculate the energy cost credit for the procurement of off-site renewable energy.

Single copy price: \$35.00

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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.)

Revision

BSR/ASHRAE Standard 139-201X, Method of Testing for Rating Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process (revision of ANSI/ASHRAE Standard 139-2015)

The purpose of this standard is to provide test methods for determining the moisture removal capacity of heat-regenerated desiccant dehumidifiers, as well as the coincident thermal energy performance, so that comparative evaluations of capacity and performance can be made, irrespective of the type or make of the device.

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

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ASPE (American Society of Plumbing Engineers)

Revision

BSR/ASPE 45-201x, Siphonic Roof Drainage (revision of ANSI/ASPE 45-2013)

This system design standard applies to engineered siphonic roof drainage systems intended to prime and operate full--bore through proper pipe dimensioning and the use of siphonic roof drains. This standard does not apply to conventional roof drains covered under ANSI/ASTM A112.6.4 "Roof Drains," atmospheric roof drainage systems, or sanitary drainage systems. It establishes minimum performance specifications for systems, provides guidelines for inspection and testing, and describes the basis for the design of siphonic roof drain systems.

Single copy price: Free

Obtain an electronic copy from: gpienta@aspe.org

Send comments (with copy to psa@ansi.org) to: Gretchen Pienta, (847) 296-0002, gpienta@aspe.org

ASTM (ASTM International)

New Standard

BSR/ASTM WK56644-201x, Guide for Construction or Renovation of Native-Soil Athletic Fields (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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BSR/ASTM WK59159-201x, Practice for Screening Analysis of a Potential Ignitable Liquid in a Heated Atmospheric Tank (new standard)

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BSR/ASTM WK59245-201x, Test Method for Determining Impact Attenuation of Playground Surfaces within the Use Zone of Playground Equipment as Tested in the Field (new standard)

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BSR/ASTM WK59903-201x, Test Method for Thermal Resistance of Camping Mattresses Using a Guarded Hot Plate Apparatus (new standard)

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ASTM (ASTM International)

Reaffirmation

BSR/ASTM D5813-2004 (R201x), Specification for Cured-In-Place Thermosetting Resin Sewer Piping Systems (reaffirmation of ANSI/ASTM D5813-2004 (R2012))

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BSR/ASTM E2523-2013 (R201x), Terminology for Metalworking Fluids and Operations (reaffirmation of ANSI/ASTM E2523-2013)

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BSR/ASTM F430-2013 (R201x), Specification for Paper Used for Vacuum Cleaner Filter Bags (reaffirmation of ANSI/ASTM F430

-2013)

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BSR/ASTM F888-2011 (R201x), Test Method for Measuring Maximum Function Volume of the Primary Dirt Receptacle in a Vacuum

Cleaner (reaffirmation of ANSI/ASTM F888-2011)

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BSR/ASTM F1023-2012 (R201x), Specification for Dispensers, Powdered Iced Tea (reaffirmation of ANSI/ASTM F1023-2012)

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BSR/ASTM F1521-2012 (R201x), Test Methods for Performance of Range Tops (reaffirmation of ANSI/ASTM F1521-2012)

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BSR/ASTM F1632-2003 (R201x), Test Method for Particle Size Analysis and Sand Shape Grading of Golf Course Putting Green and Sports Field Rootzone Mixes (reaffirmation of ANSI/ASTM F1632-2003 (R2010))

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BSR/ASTM F1647-2011 (R201x), Test Methods for Organic Matter Content of Athletic Field Rootzone Mixes (reaffirmation of ANSI/ASTM F1647-2011)

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BSR/ASTM F1702-2010 (R201x), Test Method for Measuring Impact - Attenuation Characteristics of Natural Playing Surface Systems Using a Lightweight Portable Apparatus (reaffirmation of ANSI/ASTM F1702-2010)

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BSR/ASTM F1815-2011 (R201x), Test Methods for Saturated Hydraulic Conductivity, Water Retention, Porosity, and Bulk Density of Athletic Field Rootzones (reaffirmation of ANSI/ASTM F1815-2011)

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BSR/ASTM F1853-2011 (R201x), Test Method for Measuring Sleeping Bag Packing Volume (reaffirmation of ANSI/ASTM F1853-2011)

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BSR/ASTM F1932-1998 (R201x), Test Method for Measuring Sleeping Bag Loft (reaffirmation of ANSI/ASTM F1932-1998 (R2011))

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BSR/ASTM F1933-1998 (R201x), Specification for Illustrating the Footprint of a Backpacking or Mountaineering Tent (reaffirmation of ANSI/ASTM F1933-1998 (R2011))

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BSR/ASTM F1934-1998 (R201x), Test Method for Weighing a Backpacking or Mountaineering Tent (reaffirmation of ANSI/ASTM F1934-1998 (R2011))

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BSR/ASTM F1935-2001 (R201x), Test Method for Measuring the Headroom of a Backpacking or Mountaineering Tent (reaffirmation of ANSI/ASTM F1935-2001 (R2011))

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BSR/ASTM F2060-2001 (R201x), Guide for Maintaining Cool Season Turfgrasses on Athletic Fields (reaffirmation of ANSI/ASTM F2060-2001 (R2011))

http://www.astm.org/ANSI_SA

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BSR/ASTM F2126-2006 (R201x), Test Method for Treestand Static Load Capacity (reaffirmation of ANSI/ASTM F2126-2006 (R2010))

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BSR/ASTM F2269-2011 (R201x), Guide for Maintaining Warm Season Turfgrasses on Athletic Fields (reaffirmation of ANSI/ASTM F2269-2011)

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BSR/ASTM F2270-2012 (R201x), Guide for Construction and Maintenance of Warning Track Areas on Athletic Fields (reaffirmation of ANSI/ASTM F2270-2012 (R2018))

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BSR/ASTM F2396-2011 (R201x), Guide for Construction of High Performance Sand-Based Rootzones for Athletic Fields (reaffirmation of ANSI/ASTM F2396-2011)

http://www.astm.org/ANSI_SA

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BSR/ASTM F2432-2012 (R201x), Specification for Ice Making Machines, Icemaker-Dispensers, and Ice Dispensing Equipment (reaffirmation of ANSI/ASTM F2432-2012)

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BSR/ASTM F2747-2010 (R201x), Guide for Construction of Sand-Based Rootzones for Golf Putting Greens and Tees (reaffirmation of ANSI/ASTM F2747-2010)

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BSR/ASTM F2990-2012 (R201x), Test Method for Commercial Coffee Brewers (reaffirmation of ANSI/ASTM F2990-2012)

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BSR/ASTM F3013-2013 (R201x), Test Method for Density of Topsoil and Blended Soils In-Place by the Core Displacement Method (reaffirmation of ANSI/ASTM F3013-2013)

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ASTM (ASTM International)

Revision

BSR/ASTM D4803-201x, Test Method for Predicting Heat Buildup in PVC Building Products (revision of ANSI/ASTM D4803-2010 (R2018))

http://www.astm.org/ANSI_SA

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BSR/ASTM E18-201x, Test Methods for Rockwell Hardness of Metallic Materials (revision of ANSI/ASTM E18-2015)

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BSR/ASTM E2563-201x, Practice for Enumeration of Non-Tuberculosis Mycobacteria in Aqueous Metalworking Fluids by Plate Count

Method (revision of ANSI/ASTM E2563-2013)

http://www.astm.org/ANSI_SA

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BSR/ASTM E2564-201x, Practice for Enumeration of Mycobacteria in Metalworking Fluids by Direct Microscopic Counting (DMC)

Method (revision of ANSI/ASTM E2564-2013)

http://www.astm.org/ANSI_SA

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BSR/ASTM F558-201x, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaners (revision of ANSI/ASTM

F558-2017)

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Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

BSR/ASTM F820-201x, Test Method for Measuring Air Performance Characteristics of Central Vacuum Cleaning Systems (revision of

ANSI/ASTM F820-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

BSR/ASTM F1334-201x, Test Method for Determining A-Weighted Sound Power Level of Vacuum Cleaners (revision of ANSI/ASTM

F1334-2014)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

BSR/ASTM F2105-201x, Test Method for Measuring Air Performance Characteristics of Vacuum Cleaner Motor/Fan Systems

(revision of ANSI/ASTM F2105-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

BSR/ASTM F2397-201x, Specification for Protective Headgear Used in Martial Arts (revision of ANSI/ASTM F2397-2009 (R2015))

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

BSR/ASTM F2774-201x, Practice for Manufacturing Quality Control of Consumer Trampoline Bed Material (revision of ANSI/ASTM

F2774-2009 (R2014))

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

BSR/ASTM F2988-201x, Specification for Commercial Coffee Brewers (revision of ANSI/ASTM F2988-2012)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: Corice Leonard, (610) 832-9744, accreditation@astm.org

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

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

BSR/ATIS 0300220-201x, Structure for the Representation of the Communications Industry Manufacturers, Suppliers, and Related Service Companies for Information Exchange (revision of ANSI/ATIS 0300220-2016)

This standard provides the code and format structure for the representation of the names of communications industry manufacturers, suppliers, and related service companies for the purpose of efficient information exchange.

Single copy price: \$60.00

Obtain an electronic copy from: ehoefer@atis.org

Send comments (with copy to psa@ansi.org) to: Emily Hoefer, (202) 662-8654, ehoefer@atis.org

AWS (American Welding Society)

New National Adoption

BSR/AWS B2.5/B2.5M-201x (ISO/TR 18491-2015 MOD), Specification for Measurement and Calculation of Welding Energy (national adoption with modifications of ISO/TR 18491:2015)

This document provides a method to accurately determine welding energy and heat input, both in the case of traditional welding systems and those that employ complex waveforms. It is intended that this specification be referenced by other welding codes that require the control of heat input or welding energy to control properties of the weldment, such as strength, toughness, corrosion, or dimensional properties.

Single copy price: \$25.00

Obtain an electronic copy from: jrosario@aws.org

Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org

Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, EXT 466, adavis@aws.org

CSA (CSA Group)

Reaffirmation

BSR/CSA CHMC 1-2014 (R201x), Test Methods for Evaluating Material Compatibility in Compressed Hydrogen Applications - Metals (reaffirmation of ANSI/CSA CHMC 1-2014)

Describes uniform test methods for evaluating material compatibility with compressed hydrogen applications.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Send comments (with copy to psa@ansi.org) to: david.zimmerman@csagroup.org

CTA (Consumer Technology Association)

Revision

BSR/CTA 2041-A-201x, Standard for Round Tactile Feedback Feature (revision and redesignation of ANSI/CTA 2041-2012)

This standard defines a round and other shaped tactile feedback feature for remote controls.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

ESTA (Entertainment Services and Technology Association)

Revision

BSR E1.6-1-201x, Entertainment Technology - Powered Hoist Systems (revision of ANSI E1.6-1-2012)

This standard establishes requirements for the design, manufacture, installation, inspection, and maintenance of powered hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. This standard does not apply to the structure to which the hoist is attached, to the attachment of loads to the load-carrying device, to systems for flying people, to welded link-chain hoists, or to manually powered hoists.

Single copy price: Free

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

Order from: Richard Nix, (212) 244-1505, standards@esta.org
Send comments (with copy to psa@ansi.org) to: standards@esta.org

GTESS (Georgia Tech Energy & Sustainability Services)

Revision

BSR/MSE 50028-2-201x, Superior Energy Performance (R) - Requirements for Verification Bodies for Use in Accreditation or Other Forms of Recognition (revision and redesignation of ANSI/MSE 50028-2016)

In response to changes reflected in ISO/IEC 17021-1 and the Superior Energy Performance(R) (SEP) 2018 Program, this revision of ANSI/MSE 50028 (now identified as BSR/MSE 50028-2) makes substantive changes to technical areas, audit program, and other sections. The Standard provides updated requirements for competence, consistency, and impartiality of the audit and certification of energy management systems and SEP. The Standard also address multi-site audits for SEP.

Single copy price: Free

Obtain an electronic copy from: holly.lawe@innovate.gatech.edu

Send comments (with copy to psa@ansi.org) to: Holly Grell-Lawe, (404) 558-5948, holly.lawe@innovate.gatech.edu

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

Revision

BSR/ASSE Series 12000-201x, Professional Qualifications Standard for Infection Control Risk Assessment for All Buildings (revision of ANSI/ASSE Series 12000-2014)

This standard addresses the need for general knowledge of pathogens, biohazards, infectious disease, and Other Potentially Infectious Material (OPIM) for construction and maintenance personnel, or for any individual who has the potential for exposure. The purpose is to provide training, continuing education, and certification for workers who do construction or maintenance in a health care facility. It also includes water sampling and water system mapping in order to better protect the occupants of all buildings.

Single copy price: Free

Obtain an electronic copy from: marianne.waickman@asse-plumbing.org

Order from: Marianne Waickman, 708-995-3015, marianne.waickman@asse-plumbing.org

Send comments (with copy to psa@ansi.org) to: Marianne Waickman, (708) 995-3015, marianne.waickman@asse-plumbing.org

ISA (International Society of Automation)

New National Adoption

BSR/ISA 62453-315 (103.00.09)-201x, Field device tool (FDT) interface specification - Part 315: Communication profile integration - IEC 61784 CPF 15 (national adoption of IEC 62453-315 with modifications and revision of ANSI/ISA 62453-315 (103.00.09)-2011)

This part of the ISA 62453 series provides information for integrating Modbus TCP® and Modbus Serial Line® protocol support into FDT based systems.

NOTE: This part of ISA 62453 series only specifies the mapping of Modbus parameters to FDT data types. For restrictions of protocol-specific parameters concerning allowed values and concerning limitations of arrays used in the definition of FDT data types, refer to IEC 61158-5-15 and the MODBUS Application Protocol Specification.

Single copy price: \$350.00

Obtain an electronic copy from: rbreiner@isa.org

Order from: Rob Breiner, (919) 990-9257, rbreiner@isa.org Send comments (with copy to psa@ansi.org) to: Same

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

Reaffirmation

BSR/ITSDF B56.10-2012 (R201x), Manually Propelled High Lift Industrial Trucks (reaffirmation of ANSI/ITSDF B56.10-2012)

This Standard defines the safety requirements relating to the elements of design, operation, and maintenance of manually propelled high-lift industrial trucks controlled by a walking operator, and intended for use on level, improved surfaces.

Single copy price: Free

Obtain an electronic copy from: info@itsdf.org

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

BSR/ITSDF B56.11.4-2013 (R201x), Hook-Type Forks and Fork Carriers for Powered Industrial Forklift Trucks (reaffirmation of ANSI/ITSDF B56.11.4-2013)

The scope of this Standard encompasses standards relative to hook-type fork carriers and the attaching elements of fork arms and load-handling attachments for forklift trucks, in relation to the manufacturer's rated capacities of trucks up to and including 11,000 kg (24,000 lb).

Single copy price: Free

Obtain an electronic copy from: info@itsdf.org

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

BSR/ITSDF B56.11.5-2014 (R201x), Measurement of Sound Emitted by Low Lift, High Lift, and Rough Terrain Powered Industrial Trucks (reaffirmation of ANSI/ITSDF B56.11.5-2014)

This Standard establishes the conditions, test procedures, environment, and instrumentation for the determination and reporting of the A-weighted sound-pressure level of electric-battery- and internal-combustion-engine-powered, low-lift, high-lift, and rough-terrain industrial trucks.

Single copy price: Free

Obtain an electronic copy from: info@itsdf.org

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

NFPA (National Fire Protection Association)

The National Fire Protection Association announces the availability of the Fall 2019 First Draft Reports for concurrent review and comment by NFPA and ANSI.

The First Draft Reports contain the disposition of public inputs that were received for the Fall 2019 NFPA Standards. The First Draft Reports for the Fall 2019 NFPA Standards can be found on the document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/78next). All comments on the Fall 2019 First Draft Reports must be received by November 15, 2018. The disposition of all comments received from the review of the First Draft Reports will be published in the Second Draft Report, and will also be available on the document's information page under the next edition tab. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website at http://www.nfpa.org or contact NFPA's Codes and Standards Administration, at NFPA, One Batterymarch Park, Quincy, MA, 02269-7471. Those who submit comments to NFPA's online submission system on the Fall 2019 NFPA Standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 13E-201x, Recommended Practice for Fire Department Operations in Properties Protected by Sprinkler and Standpipe Systems (revision of ANSI/NFPA 13E-2015)

This recommended practice provides basic procedures and information for use in fire-department operations concerning properties equipped with certain fixed fire-protection systems. The fixed systems covered in this recommended practice are interior automatic sprinkler systems, exterior sprinkler systems, and standpipe systems.

Obtain an electronic copy from: www.nfpa.org/13Enext

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

NFPA (National Fire Protection Association)

The following paragraph is for NFPA 13E, 31, 91, 115, 120, 122, 410, 600, 1021, 1051, 1071 1405, 1407, 1408, 1410, 1500, 1521, 1561, and 1951 The National Fire Protection Association announces the availability of the Fall 2019 First Draft Reports for concurrent review and comment by NFPA and ANSI. The First Draft Reports contain the disposition of public inputs that were received for the Fall 2019 NFPA Standards. The First Draft Reports for the Fall 2019 NFPA Standards can be found on the document's specific URL.

www.nfpa.org/doc#next (for example www.nfpa.org/78next). All comments on the Fall 2019 First Draft Reports must be received by November 15, 2018. The disposition of all comments received from the review of the First Draft Reports will be published in the Second Draft Report, and will also be available on the document's information page under the next edition tab. For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website at http://www.nfpa.org or contact NFPA's Codes and Standards Administration, at NFPA, One Batterymarch Park, Quincy, MA, 02269-7471. Those who submit comments to NFPA's online submission system on the Fall 2019 NFPA Standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 31-201x, Standard for the Installation of Oil-Burning Equipment (revision of ANSI/NFPA 31-2016)

This standard shall apply to the installation of stationary liquid fuel-burning appliances, including but not limited to industrial-, commercial-, and residential-type steam; hot-water; or warm-air heating appliances; domestic-type range burners; space heaters; and portable liquid fuel-burning equipment. This standard shall also apply to all accessories and control systems, whether electric, thermostatic, or mechanical, and all electrical wiring connected to liquid-fuel-burning appliances. This standard shall also apply to the installation of liquid fuel storage and supply systems connected to liquid-fuel-burning appliances. This standard shall also apply to those multifueled appliances in which a liquid fuel is one of the standard or optional fuels. This standard shall not apply to internal combustion engines, oil lamps, or portable devices not specifically covered in this standard. (See Chapter 11 for portable devices that are covered in this standard.)

Obtain an electronic copy from: www.nfpa.org/31next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 91-201x, Standard for Exhaust Systems for Air Conveying of Vapors, Gases, Mists, and Particulate Solids (revision of ANSI/NFPA 91-2015)

This standard provides minimum requirements for the design, construction, installation, operation, testing, and maintenance of exhaust systems for air conveying of vapors, gases, mists, and particulate solids as they relate to fire and/or explosion prevention, except as modified or amplified by other applicable NFPA standards. This standard does not cover exhaust systems for conveying combustible particulate solids that are covered in other NFPA standards.

Obtain an electronic copy from: www.nfpa.org/91next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 115-201x, Standard for Laser Fire Protection (revision of ANSI/NFPA 115-2016)

This document shall provide minimum fire-protection requirements for the design, manufacture, installation, and use of lasers and associated equipment. Criteria for training for and responding to fire emergencies involving lasers shall be included.

Obtain an electronic copy from: www.nfpa.org/115next

BSR/NFPA 120-201x, Standard for Fire Prevention and Control in Coal Mines (revision of ANSI/NFPA 120-2015)

This standard shall cover minimum requirements for reducing loss of life and property from fire and explosion in the following: (1) Underground bituminous coal mines, (2) Coal preparation plants designed to prepare coal for shipment, (3) Surface building and facilities associated with coal mining and preparation, and (4) Surface coal and lignite mines. This standard shall not apply to the following: (1) Flammable and combustible liquids produced in underground coal mines and (2) Other equipment and processes, such as coal pulverizers, used to condition coal for firing in boilers at power-generating plants, or gasification plants or for utilization in certain special processes.

Obtain an electronic copy from: www.nfpa.org/120next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 122-201x, Standard for Fire Prevention and Control in Metal/Nonmetal Mining and Metal Mineral Processing Facilities (revision of ANSI/NFPA 122-2015)

This standard covers minimum requirements for safeguarding life and property against fire and related hazards associated with metal and nonmetal underground and surface mining and metal mineral processing plants. As applies to underground mining, this standard shall cover only the following: (1) Diesel-powered equipment and (2) Storage and handling of flammable and combustible liquids. As applies to underground mining, this standard shall not cover flammable and combustible liquids produced in underground mines, such as shale oil mines. As applies to surface mining, this standard shall cover only the following: (1) Mobile equipment in use without its own motive power train and normally moved by self-propelled equipment and (2) Self-propelled equipment that contains a motive power train as an integral part of the unit and is not rail-mounted. This standard shall not cover buildings or employee housing and support facilities for a mining operation or preparation or use of explosives. As applies to metal mineral processing, this standard shall cover fire and related hazards associated with metal mineral processing plants - whether underground or on the surface - including but not limited to conveying, crushing, fine milling, beneficiation, flotation, hydro-metallurgical solvent extraction, drying, filtering, ore and concentrate storage, and support facilities for the mineral processing activity. As applies to surface metal mineral processing plants, this standard shall not cover the following: (1) Solvent extraction plants; (2) Pressure-leaching processes; (3) Alumina refineries; (4) Nonmetal mineral processing plants; (5) Metal smelters including roasting, sintering, and calcining; (6) Metal refineries such as electrowinning or electro-refining processes; and (7) Gas, liquid, or solid waste handling or storage systems. Nothing in this standard is intended to prohibit the use of new methods or devices, provided sufficient technical data are submitted to the authority having jurisdiction to demonstrate that the new method or device is equivalent in quality, effectiveness, durability, and safety to that specified by this standard.

Obtain an electronic copy from: www.nfpa.org/122next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 410-201x, Standard on Aircraft Maintenance (revision of ANSI/NFPA 410-2015)

The scope of this standard is as follows: (1) This standard covers the minimum requirements for fire safety to be followed during aircraft maintenance and does not include the health and safety requirements for personnel involved in aircraft maintenance; (2) The operations covered include the following: (a) Maintenance of electrical systems; (b) Maintenance of oxygen systems; (c) Fuel tank repairing, cleaning, painting, and paint removal; (d) Welding operations in hangars; (e) Interior cleaning; and (f) Refurbishing operations; and (3) This standard also covers requirements for fire protection of aircraft ramp areas.

Obtain an electronic copy from: www.nfpa.org/410next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 600-201x, Standard on Facility Fire Brigades (revision of ANSI/NFPA 600-2015)

This standard contains minimum requirements for organizing, operating, training, and equipping industrial fire brigades. It also contains minimum requirements for the occupational safety and health of industrial fire brigade members while performing fire fighting and related activities. This standard shall apply to any organized, private, industrial group of employees having fire-fighting response duties, such as emergency brigades, emergency response teams, fire teams, and plant emergency organizations. This standard shall not apply to industrial fire brigades that respond to fire emergencies outside the boundaries of the industrial site where the off-site fire involves unfamiliar hazards or enclosed structures with layout and contents that are unknown to the industrial fire brigade. This standard shall not apply to medical response, confined space rescue response, and hazardous material response activities.

Obtain an electronic copy from: www.nfpa.org/600next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 1021-201x, Standard for Fire Officer Professional Qualifications (revision of ANSI/NFPA 1021-2014)

This standard identifies the minimum job performance requirements (JPRs) for fire officer.

Obtain an electronic copy from: www.nfpa.org/1021next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 1051-201x, Standard for Wildland Firefighting Personnel Professional Qualifications (revision of ANSI/NFPA 1051-2016)

This standard shall identify the minimum job performance requirements (JPRs) for wildland fire duties and responsibilities.

Obtain an electronic copy from: www.nfpa.org/1051next

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

BSR/NFPA 1071-201x, Standard for Emergency Vehicle Technician Professional Qualifications (revision of ANSI/NFPA 1071-2016)

This standard shall identify and define the minimum job performance requirements (JPRs) for a person to be considered qualified as an emergency vehicle technician (EVT).

Obtain an electronic copy from: www.nfpa.org/1071next

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

BSR/NFPA 1405-201x, Guide for Land-Based Fire Departments that Respond to Marine Vessel Fires (revision of ANSI/NFPA 1405-2016)

This guide identifies the elements of a comprehensive marine fire-fighting response program including, but not limited to, vessel familiarization, training considerations, pre-fire planning, and special hazards that enable land-based fire fighters to extinguish vessel fires safely and efficiently. In general, the practices recommended in this publication apply to vessels that call at United States ports or that are signatory to the Safety of Life at Sea (SOLAS) agreement. This document does not consider offshore terminals or vessels on the high seas.

Obtain an electronic copy from: www.nfpa.org/1405next

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

BSR/NFPA 1407-201x, Standard for Training Fire Service Rapid Intervention Crews (revision of ANSI/NFPA 1407-2015)

This standard specifies the basic training procedures for fire service personnel to conduct fire fighter rapid intervention operations as specified in NFPA 1710, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Career Fire Departments, and NFPA 1720, Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Volunteer Fire Departments. This standard specifies basic evolutions that can be adapted to local conditions and serves as a standard mechanism for the evaluation of minimum acceptable performance during training for rapid intervention activities.

Obtain an electronic copy from: www.nfpa.org/1407next

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

BSR/NFPA 1408-201x, Standard for Training Fire Service Personnel in the Operation, Care, Use, and Maintenance of Thermal Imagers (revision of ANSI/NFPA 1408-2015)

This standard shall contain minimum requirements for training fire service personnel to utilize fire service thermal imagers (TI).

Obtain an electronic copy from: www.nfpa.org/1408next

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

BSR/NFPA 1410-201x, Standard on Training for Emergency Scene Operations (revision of ANSI/NFPA 1410-2015)

This standard contains the minimum requirements for evaluating training for initial fire suppression and rescue procedures used by fire department personnel engaged in emergency scene operations. This standard specifies basic evolutions that can be adapted to local conditions and serves as a standard mechanism for the evaluation of minimum acceptable performance during training for initial fire suppression and rescue activities.

Obtain an electronic copy from: www.nfpa.org/1410next

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

BSR/NFPA 1500-201x, Standard on Fire Department Occupational Safety and Health Program (revision of ANSI/NFPA 1500-2018)

This standard shall contain minimum requirements for a fire service-related occupational safety, health, and wellness program.

Obtain an electronic copy from: www.nfpa.org/1500next

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

BSR/NFPA 1521-201x, Standard for Fire Department Safety Officer Professional Qualifications (revision of ANSI/NFPA 1521-2015)

This standard contains minimum requirements for the assignment, duties, and responsibilities of a health and safety officer (HSO) and an incident safety officer (ISO) for a fire department.

Obtain an electronic copy from: www.nfpa.org/1521next

BSR/NFPA 1561-201x, Standard on Emergency Services Incident Management System and Command Safety (revision of ANSI/NFPA 1561-2014)

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

Obtain an electronic copy from: www.nfpa.org/1561next Send comments (with copy to psa@ansi.org) to: Same

BSR/NFPA 1951-201x, Standard on Protective Ensembles for Technical Rescue Incidents (revision of ANSI/NFPA 1951-2013)

This standard shall specify the minimum design, performance, testing, and certification requirements for utility technical rescue, rescue and recovery technical rescue, and chemicals, biological agents, and radiological particulate [also known as chemical, biological, radiological, and nuclear (CBRN)] technical rescue protective ensembles for use by emergency services personnel during technical rescue incidents. This standard shall also specify the minimum requirements for the various elements of the utility technical rescue ensembles and the rescue and recovery technical rescue protective ensembles, including garments, helmets, gloves, footwear, interface, and eye and face protection devices. This standard shall also specify the minimum requirements for the respiratory protection for the CBRN technical rescue protective ensembles. This standard shall not specify requirements for respiratory protection equipment for utility technical rescue or rescue and recovery technical rescue protective ensembles; those requirements are specified by NIOSH in 42 CFR 84 and by OSHA in 29 CFR 1910.134.

Obtain an electronic copy from: www.nfpa.org/1951next Send comments (with copy to psa@ansi.org) to: Same

NSF (NSF International)

New Standard

BSR/NSF 455-2-201x (i1r2), Good Manufacturing Practices for Dietary Supplements (new standard)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of dietary supplement products to 21 CFR 111 Current Good Manufacturing Practices (GMPs) in Manufacturing, Packaging, Labeling, or Holding Operations for Dietary Supplements as well as incorporating additional retailer requirements. It refers to the requirements for GMP applicable to all dietary supplements. It will assist in the determination of adequate facilities and controls for dietary supplement manufacture with sufficient quality to ensure suitability for intended use.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/44449/455-2i1r2%20-%20GMP%20for%20Dietary%20Supplements%20-%20JC%20memo%20&%20ballot.pdf

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

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 19-201x, Methods for Isochronous Data Services Transport (revision of ANSI/SCTE 19-2013)

This document defines a transmission format for the carriage of isochronous data services compatible with digital multiplex bitstreams constructed in accordance with ISO/IEC 13818-1 (MPEG-2 Systems). Bit rates for the data services extend from 19.2 kbps to 9.0 Mbps.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org

BSR/SCTE 24-22-201x, iLBCv2.0 Speech Codec Specification for Voice over IP Applications in Cable Telephony (revision of ANSI/SCTE 24-22-2013)

This document contains the description of an algorithm for coding of speech signals sampled at 8 kHz. The algorithm, called iLBC, uses a block-independent linear-predictive coding (LPC) algorithm and has support for two basic frame lengths: 20 ms at 15.2 kbit/s and 30 ms at 13.33 kbit/s. When the codec operates at block lengths of 20 ms, it produces 304 bits per block, which should be packetized as in RFC 3952. Similarly, for block lengths of 30 ms, it produces 400 bits per block, which should be packetized as in RFC 3952. The two modes for the different frame sizes operate in a very similar way. When they differ it is explicitly stated in the text, usually with the notation x/y, where x refers to the 20-ms mode and y refers to the 30-ms mode.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

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

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

BSR/SCTE 52-201x, Data Encryption Standard - Cipher Block Chaining Packet Encryption Specification (revision of ANSI/SCTE 52-2013)

This document defines a method for encrypting MPEG-2 transport stream packets using the Data Encryption Standard (DES) Cipher Block Chaining (CBC) encryption standard.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org

BSR/SCTE 71-201x, Specification for Series 15, Braided, 75, Coaxial, Mulit-Purpose Cable (revision of ANSI/SCTE 71 2008)

This specification defines the materials, electrical, and mechanical properties of 75-ohm Braided, Low Loss Subscriber Access Cable (Series 15) as defined in this standard.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org

BSR/SCTE 128-1-201x, AVC Video Constraints for Cable Television - Part 1: Coding (revision of ANSI/SCTE 128-1-2010)

This document defines the video coding constraints on ITU-T Rec. H.264 | ISO/IEC 14496-10 video compression (called "AVC" in this standard) for Cable Television. In particular, this document describes the constraints on AVC-coded video elementary streams in an MPEG-2 service multiplex (single or multi-program Transport Stream).

Single copy price: \$50.00

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BSR/SCTE 128-2-201x, AVC Video Constraints for Cable Television -Part 2: Transport (revision of ANSI/SCTE 128-2-2010)

This document defines the transport constraints on ITU-T Rec. H.264 | ISO/IEC 14496-10 video compression (called "AVC" in this standard) for Cable Television. In particular, this document describes the transmission of AVC-coded video elementary streams constrained per SCTE 128 Part 1 in an MPEG-2 service multiplex (single or multi-program Transport Stream).

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BSR/SCTE 191-201x, Test Method for Axial Pull Force, Female F Port (revision of ANSI/SCTE 191-2010)

This test procedure is used to evaluate the mechanical strength of female "F' ports when an axial pull force is applied.

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BSR/SCTE 197-201x, Recommendations for Spot Check Loudness Measurements (revision of ANSI/SCTE 197-2013)

As part of managing the relative audio loudness of content, this document provides recommendations for measuring content carried in a single programming channel of a program network for 24 hours with an audio loudness meter consistent with the measurement techniques discussed in A/85 as well as recording the measured loudness and loudness metadata value.

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Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org BSR/SCTE 201-201x, Open Media Security (OMS) Root Key Derivation Profiles and Test Vectors (revision of ANSI/SCTE 201-2013)

This cryptographic key ladder standard defines a set of key ladder profiles, additional requirements, and test vectors for a key ladder implementation.

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UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1441-2005 (R201x), Standard for Coated Electrical Sleeving (reaffirmation of ANSI/UL 1441-2005 (R2013))

Reaffirmation and continuance of the 4th edition of the Standard for Coated Electrical Sleeving, UL 1441, as an American National Standard

Single copy price: Free

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Send comments (with copy to psa@ansi.org) to: Joshua Johnson, (919) 549-1053, Joshua.Johnson@ul.com

BSR/UL 60745-2-4-2009 (R201x), Hand-Held Motor-Operated Electric Tools - Safety - Part 2-4: Particular Requirements for Sanders and Polishers Other Than Disk Type (reaffirmation of ANSI/UL 60745-2-4-2009 (R2014))

This proposal for UL 60745-2-4 covers: (1) Reaffirmation and continuance of the Second Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-4: Particular Requirements for Sanders and Polishers Other Than Disk Type, UL 60745-2-4, as an American National Standard.

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

BSR/UL 60745-2-4-2009 (R201x), Hand-Held Motor-Operated Electric Tools - Safety - Part 2-4: Particular Requirements for Sanders and Polishers Other Than Disk Type (reaffirmation of ANSI/UL 60745-2-4-2009 (R2014))

This proposal for UL 60745-2-4 covers: (1) Reaffirmation and continuance of the Second Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-4: Particular Requirements for Sanders and Polishers Other Than Disk Type, UL 60745-2-4, as an American National Standard.

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BSR/UL 60745-2-6-2009 (R201x), Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-6: Particular Requirements for Hammers (reaffirmation of ANSI/UL 60745-2-6-2009 (R2014))

This proposal for UL 60745-2-6 covers: (1) Reaffirmation and continuance of the Second Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-6: Particular Requirements for Hammers, UL 60745-2-6, as an American National Standard.

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BSR/UL 60745-2-8-2009 (R201x), Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-8: Particular Requirements for Shears and Nibblers (reaffirmation of ANSI/UL 60745-2-8-2009 (R2014))

This proposal for UL 60745-2-8 covers: (1) Reaffirmation and continuance of the Second Edition of the Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-8: Particular Requirements for Shears and Nibblers, UL 60745-2-8, as an American National Standard.

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BSR/UL 62841-1-2018 (R201x), Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 1: General Requirements (reaffirmation of ANSI/UL 62841-1-2018)

This proposal for UL 62841-3-8 covers: (1) Proposed addition of references to updated IEC battery standards to annex DVA, Component Standards; (2) Proposed addition of clause 8.12DV to specify the Canadian Replacement Standard for UL 969, Marking and Labeling Systems.

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UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 98-201X, Standard for Safety for Enclosed and Dead-Front Switches (revision of ANSI/UL 98-2016)

The following proposal topics are covered by this project: (1) Revisions for field-installed barriers; (2) Addition of requirements for Class CA, CB, and G Fuses; and (3) Revisions for the addition of voltage ratings from 601 to 1000 V.

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Comment Deadline: November 6, 2018

Reaffirmations and withdrawals available electronically may be accessed at: webstore.ansi.org

API (American Petroleum Institute)

New National Adoption

BSR/API RP 2TOP-201x, Topsides Structure (national adoption with modifications of ISO 19901-3:2010)

The actions on (structural components of) the topsides structure are derived from this document and where necessary, in combination with API, other International Standards, and the ISO 19900 series. The resistances of structural components of the topsides structure are determined by the use of international or national building codes, as specified in this document. If the topsides structure is integrated with the supporting substructure to help resist global platform forces, the requirements of API 2TOP are supplemented with applicable requirements of the associated substructure such as API 2A-LRFD for fixed steel structures and API 2FPS for floating structures. This document is applicable to: (1) topsides of fixed offshore structures and (2) topsides on the hulls of floating offshore structures and mobile offshore units as long as interface displacements and internal forces associated with the hull or substructure are correctly accounted for in the analysis.

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

Addenda

BSR/ASHRAE Addendum q to BSR/ASHRAE Standard 135.1-201x, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2013)

This addendum updates alarm and event tests for protocol revisions 13 and higher.

Single copy price: \$35.00

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

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ASME (American Society of Mechanical Engineers)

New Standard

BSR/ASME B107.410-201x, Struck Tools (new standard)

The purpose of B107.410 is to define essential performance and safety requirements specifically applicable to the various struck tools covered herein (e.g., Wood-Splitting Wedge; Chisels - Glaziers, Wood, Ripping, Flooring/Electricians; Stud, Screw, and Pipe Extractors; Metal Chisels, Punches, and Drift Pins; Nail Sets; Brick Chisels, Brick Sets, and Star Drills; Nail Puller Bars and Pry Bars; Slugging and Striking Wrenches). It specifies test methods to evaluate performance related to the defined requirements and safety and indicates limitations of safe use.

Single copy price: Free

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Send comments (with copy to psa@ansi.org) to: Erika Lawson, (212) 591-8094, lawsone@asme.org

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME Y14.37-201x, Composite Part Drawings (revision of ANSI/ASME Y14.37-2012)

This Standard establishes the requirements for composite product definition that are not covered within the existing ASME Y14 Series of standards.

Single copy price: Free

Obtain an electronic copy from: http://cstools.asme.org/publicreview

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Send comments (with copy to psa@ansi.org) to: Fredric Constantino, (212) 591-8684, constantinof@asme.org

IEEE (Institute of Electrical and Electronics Engineers)

Addenda

BSR/IEEE 802.11aj-201x, Standard for Information Technology - Telecommunications and information exchange between systems Local and metropolitan area networks - Specific requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications Amendment 3: Enhancements for Very High Throughput to Support Chinese Millimeter Wave Frequency Bands (60 GHz and 45 GHz) (addenda to ANSI/IEEE 802.11-2016)

This amendment defines modifications to the IEEE P802.11ad Physical (PHY) layer and the Medium Access Control (MAC) layer to enable operation in the Chinese 59-64 GHz frequency band. The amendment shall maintain backward compatibility with 802.11ad when it operates in the 59-64 GHz frequency band. The amendment also defines modifications to the PHY and MAC layers to enable the operation in the Chinese 45-GHz frequency band. The amendment maintains the 802.11 user experience.

Single copy price: \$268.00 (pdf); \$335.00 (print) Order from: https://www.techstreet.com/ieee

Send comments (with copy to psa@ansi.org) to: k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE C57.147-201x, Guide for Acceptance and Maintenance of Natural Ester Insulating Liquid in Transformers (new standard)

This guide recommends tests and evaluation procedures, as well as criteria and methods of maintenance for natural ester-based (e. g., vegetable oil) insulating liquids. Methods of reconditioning, field applications, and diagnostics of natural ester-based insulating liquids are also described.

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IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 1547-201x, Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces (revision of ANSI/IEEE 1547-2003 (R2008))

This standard establishes criteria and requirements for interconnection of distributed energy resources with electric power systems (EPSs) and associated interfaces. The stated technical specifications and requirements are universally needed for interconnection and interoperability of distributed energy resources (DERs2) and will be sufficient for most installations. The specified performance requirements apply at the time of interconnection and as long as the DER remains in service.

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

New National Adoption

BSR/INCITS/ISO/IEC 19798-201x [201x], Information technology - Office equipment - Method for the determination of toner cartridge yield for colour printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 19798:2017 and revision of INCITS/ISO/IEC 19798:2007 [R2013])

The scope of this standard is limited to evaluation of toner cartridge page yield for toner-containing cartridges (i.e., all-in-one toner cartridges and toner cartridges without a photoconductor) for color electrophotographic print systems. This document can also be applied to the printer component of any multifunctional device that has a digital input printing path, including multifunction devices that contain electrophotographic printer components.

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INCITS/ISO 19160-4:2017 [201x], Information technology - Addressing - Part 4: International postal address components and template language (identical national adoption of ISO 19160-4:2017)

Defines key terms for postal addressing, postal address components, and constraints on their use. Specifically, the standard defines postal address components organized into three hierarchical levels: elements, such as organization name or postcode, which have well-defined conceptual meaning and are not themselves made up of subordinate components, though they may be subdivided for technical purposes; constructs, such as organization identification, which group elements into units form a logical portion of a postal address; segments, such as addressee specification, which group-related postal address constructs and/or postal address elements into units with a specific defined function. This standard also specifies a mechanism for creation of sub-elements, which correspond to either subdivisions of element content, such as door type or door indicator or to multiple occurrences and locations of elements in an address, such as levels of administrative regions.

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INCITS/ISO/IEC 9075-3:2016 [201x], Information Technology - Database Languages - SQL - Part 3: Call-Level Interface (SQL/CLI) (identical national adoption of ISO/IEC 9075-3:2016 and revision of INCITS/ISO/IEC 9075-3:2008 [R2013])

Defines the structures and procedures that can be used to execute statements of the database language SQL from within an application written in a programming language in such a way that procedures used are independent of the SQL statements to be executed.

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INCITS/ISO/IEC 9594-1:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 1: Overview of Concepts, Models and Services (identical national adoption of ISO/IEC 9594-1:2017 and revision of INCITS/ISO/IEC 9594-1:2008 [2013])

Provides the directory capabilities required by OSI applications, OSI management processes, other OSI layer entities, and telecommunications services. Among the capabilities which it provides are those of "user-friendly naming", whereby objects can be referred to by names which are suitable for citing by human users (though not all objects need have user-friendly names); and "name-to-address mapping" which allows the binding between objects and their locations to be dynamic. The latter capability allows OSI networks, for example, to be "self-configuring" in the sense that addition, removal, and the changes of object location do not affect OSI network operation.

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INCITS/ISO/IEC 9594-2:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 2: Models (identical national adoption of ISO/IEC 9594-2:2017 and revision of INCITS/ISO/IEC 9594-2:2008 [2013])

The models defined in this standard provide a conceptual and terminological framework for the other ITU-T X.500-series Recommendations | parts of ISO/IEC 9594 which define various aspects of the Directory. The functional and administrative authority models define ways in which the Directory can be distributed, both functionally and administratively. Generic Directory System Agent (DSA) and DSA information models and an Operational Framework are also provided to support Directory distribution. The generic Directory Information Models describe the logical structure of the Directory Information Base (DIB) from the perspective of Directory and Administrative Users. In these models, the fact that the Directory is distributed, rather than centralized, is not visible.

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INCITS/ISO/IEC 9594-3:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 3: Abstract Service Definition (identical national adoption of ISO/IEC 9594-3:2017 and revision of INCITS/ISO/IEC 9594-3:2008 [2013])

Defines in an abstract way the externally visible service provided by the Directory. Does not specify individual implementations or products.

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INCITS/ISO/IEC 9594-4:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 4: Procedures for Distributed Operation (identical national adoption of ISO/IEC 9594-4:2017 and revision of INCITS/ISO/IEC 9594-4:2008 [2013])

Specifies the behavior of DSAs taking part in a distributed directory consisting of multiple directory systems agents (DSAs) and/or LDAP servers with at least one DSA. The allowed behavior has been designed to ensure a consistent service given a wide distribution of the DIB across a distributed directory. Only the behavior of DSAs taking part in a distributed directory is specified. The behavior of LDAP servers are specified in relevant LDAP specifications. There are no special requirements on an LDAP server beyond those given by the LDAP specifications.

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INCITS/ISO/IEC 9594-5:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 5: Protocol Specifications (identical national adoption of ISO/IEC 9594-5:2017 and revision of INCITS/ISO/IEC 9594-5:2008 [2013])

Specifies the Directory Access Protocol, the Directory System Protocol, the Directory Information Shadowing Protocol, and the Directory Operational Binding Management Protocol which fulfill the abstract services specified in Rec. ITU-T X.511 | ISO/IEC 9594-3, Rec. ITU-T X.518 | ISO/IEC 9594-4, Rec. ITU-T X.525 | ISO/IEC 9594-9, and Rec. ITU-T X.501 | ISO/IEC 9594-2.

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INCITS/ISO/IEC 9594-6:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 6: Selected Attribute Types (identical national adoption of ISO/IEC 9594-6:2017 and revision of INCITS/ISO/IEC 9594-6:2000 [2013])

Defines a number of attribute types and matching rules which may be found useful across a range of applications of the Directory.

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INCITS/ISO/IEC 9594-7:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 7: Selected Object Classes (identical national adoption of ISO/IEC 9594-7:2017 and revision of INCITS/ISO/IEC 9594-7:2008 [2013])

Defines a number of object classes and name forms which may be found useful across a range of applications of the Directory. The definition of an object class involves listing a number of attribute types which are relevant to objects of that class. The definition of a name form involves naming the object class to which it applies and listing the attributes to be used in forming names for objects of that class. These definitions are used by the administrative authority which is responsible for the management of the directory information.

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INCITS/ISO/IEC 9594-8:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 8: Public-Key and Attribute Certificate Frameworks (identical national adoption of ISO/IEC 9594-8:2017 and revision of INCITS/ISO/IEC 9594-8:2008 [2013])

Addresses some of the security requirements in the areas of authentication and other security services through the provision of a set of frameworks upon which full services can be based. Specifically, this Recommendation | International Standard defines frameworks for public-key certificates; and attribute certificates.

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INCITS/ISO/IEC 9594-9:2017 [201x], Information Technology - Open Systems Interconnection - The Directory - Part 9: Replication (identical national adoption of ISO/IEC 9594-9:2017 and revision of INCITS/ISO/IEC 9594-9:2008 [2013])

Specifies a shadow service which Directory system agents (DSAs) may use to replicate Directory information. The service allows Directory information to be replicated among DSAs to improve service to Directory users. The shadowed information is updated, using the defined protocol, thereby improving the service provided to users of the Directory.

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INCITS/ISO/IEC 11770-4:2017 [201x], Information technology - Security techniques - Key management - Part 4: Mechanisms based on weak secrets (identical national adoption of ISO/IEC 11770-4:2017 and revision of INCITS/ISO/IEC 11770-4:2006 [R2013])

Defines key establishment mechanisms based on weak secrets, i.e., secrets that can be readily memorized by a human, and hence, secrets that will be chosen from a relatively small set of possibilities. It specifies cryptographic techniques specifically designed to establish one or more secret keys based on a weak secret derived from a memorized password, while preventing offline brute-force attacks associated with the weak secret. ISO/IEC 11770-4:2017 is not applicable to the following aspects of key management:

- life-cycle management of weak secrets, strong secrets, and established secret keys; and
- mechanisms to store, archive, delete, destroy, etc. weak secrets, strong secrets, and established secret keys.

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INCITS/ISO/IEC 11770-3:2015/COR 1:2016 [201x], Information technology - Security techniques - Key management - Part 3: Mechanisms using asymmetric techniques - Technical Corrigendum 1 (identical national adoption of ISO/IEC 11770-3:2015/COR 1:2016)

Technical Corrigendum 1 to ISO/IEC 11770-3:2015.

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INCITS/ISO/IEC 14888-3:2016 [201x], Information technology - Security techniques - Digital signatures with appendix - Part 3: Discrete logarithm based mechanisms (identical national adoption of ISO/IEC 14888-3:2016 and revision of INCITS/ISO/IEC 14888-3:2006 [R2013], INCITS/ISO/IEC 14888-3:2006/COR1:2007 [R2014], and INCITS/ISO/IEC 14888-3:2006/COR 2:2009 [R2014])

Specifies digital signature mechanisms with appendix whose security is based on the discrete logarithm problem. Provides a general description of a digital signature with appendix mechanism, and a variety of mechanisms that provide digital signatures with appendix. For each mechanism, this part of specifies the process of generating a pair of keys, the process of producing signatures, and the process of verifying signatures.

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INCITS/ISO/IEC 15946-1:2016 [201x], Information technology - Security techniques - Cryptographic techniques based on elliptic curves - Part 1: General (identical national adoption of ISO/IEC 15946-1:2016 and revision of INCITS/ISO/IEC 15946-1:2008 [R2014])

Describes the mathematical background and general techniques necessary for implementing the elliptic curve cryptography mechanisms defined in ISO/IEC 15946-5, ISO/IEC 9796-3, ISO/IEC 11770-3, ISO/IEC 14888-3, ISO/IEC 18033-2, and other ISO/IEC standards. This standard does not specify the implementation of the techniques it defines. For example, it does not specify the basis representation to be used when the elliptic curve is defined over a finite field of characteristic two. Thus, interoperability of products complying with ISO/IEC 15946-1:2016 will not be guaranteed.

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INCITS/ISO/IEC 18033-5:2015 [201x], Information technology - Security techniques - Encryption algorithms - Part 5: Identity-based ciphers (identical national adoption of ISO/IEC 18033-5:2015)

Specifies identity-based encryption mechanisms. For each mechanism, the functional interface, the precise operation of the mechanism, and the ciphertext format are specified. However, conforming systems may use alternative formats for storing and transmitting ciphertexts.

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INCITS/ISO/IEC 18370-2:2016 [201x], Information technology - Security techniques - Blind digital signatures - Part 2: Discrete logarithm based mechanisms (identical national adoption of ISO/IEC 18370-2:2016)

ISO/IEC 18370-2:2016 specifies blind digital signature mechanisms, together with mechanisms for three variants of blind digital signatures. The variants are blind digital signature mechanisms with partial disclosure, blind digital signature mechanisms with selective disclosure, and traceable blind digital signature mechanisms. The security of all the mechanisms in ISO/IEC 18370-2:2016 is based on the discrete logarithm problem.

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INCITS/ISO/IEC 19086-3:2017 [201x], Information technology - Cloud computing - Service level agreement (SLA) framework - Part 3: Core conformance requirements (identical national adoption of ISO/IEC 19086-3:2017)

This standard specifies the core conformance requirements for service level agreements (SLAs) for cloud services based on ISO/IEC 19086-1 and guidance on the core conformance requirements. This document is for the benefit of and use by both cloud service providers and cloud service customers. The standard does not provide a standard structure that would be used for cloud SLAs.

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INCITS/ISO/IEC 19752-2017 [201x], Information technology - Office equipment - Method for the determination of toner cartridge yield for monochromatic electrophotographic printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 19752:2017 and revision of INCITS/ISO/IEC 19752:2004 [R2013])

ISO/IEC 19752:2017 is limited to the evaluation of toner cartridge page yield for toner containing cartridges (i.e., all-in-one toner cartridges and toner cartridges without a photoconductor) for monochrome electrophotographic print systems. This document could also be applied to the printer component of any multifunctional device that has a digital input-printing path (i.e., multifunction devices that contain printer components).

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INCITS/ISO/IEC 19757-3:2016, Information technology - Document Schema Definition Languages (DSDL) - Part 3: Rule-based validation - Schematron (identical national adoption of ISO/IEC 19757-3:2016 and revision of INCITS/ISO/IEC 19757-3:2006 [R2013])

Specifies Schematron, a schema language for XML. This part of ISO/IEC 19757 establishes requirements for Schematron schemas and specifies when an XML document matches the patterns specified by a Schematron schema.

Single copy price: \$185.00

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

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INCITS/ISO/IEC 19784-1-2018 [201x], Information technology - Biometric application programming interface - Part 1: BioAPI specification (identical national adoption of ISO/IEC 19784-1:2018 and revision of INCITS/ISO/IEC 19784-1:2006 [R2017], INCITS/ISO/IEC 19784-1:2006/AM 2:2009 [R2014], and INCITS/ISO/IEC 19784-1:2006/AM 3:2010 [R2016])

ISO/IEC 19784-1:2018 defines the Application Programming Interface (API) and Service Provider Interface (SPI) for standard interfaces within a biometric system that support the provision of that biometric system using components from multiple vendors. It provides interworking between such components through adherence to this and to other International Standards.

Single copy price: \$232.00

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

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INCITS/ISO/IEC 19785-1-2015 [201x], Information technology - Common Biometric Exchange Formats Framework - Part 1: Data element specification (identical national adoption of ISO/IEC 19785-1:2015 and revision of INCITS/ISO/IEC 19785-1:2006 [R2013] and INCITS/ISO/IEC 19785-1:2006/AM 1:2010 [R2015])

This part of the standard defines structures and data elements for biometric information records (BIRs). Defines the concept of a domain of use to establish the applicability of a standard or specification that complies with CBEFF requirements, defines the concept of a CBEFF patron format, which is a published BIR format specification that complies with CBEFF requirements, specified by a CBEFF patron, defines the abstract values (and associated semantics) of a set of CBEFF data elements to be used in the definition of CBEFF patron formats. It specifies the use of CBEFF data elements by a CBEFF patron to define the content and encoding of a standard biometric header (SBH) to be included in a biometric information record (i.e., the definition of a CBEFF patron format). It provides the means for identification of the formats of the BDBs in a BIR but the standardization and interoperability of BDB formats are not in the scope of this part of ISO/IEC 19785. It also provides a means (the security block) for BIRs to carry information about the encryption of a BDB in the BIR and about integrity mechanisms applied to the BIR as a whole; the structure and content of security blocks are not in the scope of this part of ISO/IEC 19785. Further, the specification of encryption mechanisms for BDBs and of integrity mechanisms for BIRs is not in the scope of this part. Specifies transformations from one CBEFF patron format to a different CBEFF patron format. The encoding of the abstract values of CBEFF data elements to be used in the specification of CBEFF patron formats is not in the scope of this part of ISO/IEC 19785. Protection of the privacy of individuals from inappropriate dissemination and use of biometric data is not in the scope of this part, but may be subject to national regulation.

Single copy price: \$185.00

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Order from: ANSI

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

INCITS/ISO/IEC 19796-1:2005 [R2013], Information technology - Learning, education and training - Quality management, assurance and metrics - Part 1: General approach (identical national adoption of ISO/IEC 40180:2017 and revision of INCITS/ISO/IEC 19796 -1:2005 [2008)

Provides the fundamentals and the reference framework for quality assurance, quality management, and quality improvement in IT-enhanced learning, education and training (called E-Learning). It consists mainly of the Quality Reference Framework (QRF) for E-Learning, which is a common and generic framework to describe, specify and understand critical properties, characteristics and metrics of quality. The QRF combines an elaborate and extensive process model with a descriptive model for the processes. ISO/IEC 40180 harmonizes existing approaches, concepts, specifications, terms and definitions related to quality for E-Learning, education, and training.

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INCITS/ISO/IEC 24711-2015 [201x], Method for the determination of ink cartridge yield for colour inkjet printers and multi-function devices that contain printer components (identical national adoption of ISO/IEC 24711:2015 and revision of INCITS/ISO/IEC 24711:2007 [R2013] and INCITS/ISO/IEC 24711:2007/Cor 1:2013)

The scope of this standard is limited to evaluation of ink cartridge page yield for ink-containing cartridges (i.e., integrated ink cartridges and ink cartridges without integrated printheads) for color inkjet print systems. ISO/IEC 24711:2015 can also be applied to the printer component of any multifunctional device that has a digital input printing path, including multifunction devices that contain inkjet printer components. Both liquid and solid ink products can be tested using ISO/IEC 24711:2015.

Single copy price: \$162.00

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INCITS/ISO/IEC 24727-1:2014 [201x], Identification cards - Integrated circuit card programming interfaces - Part 1: Architecture (identical national adoption of ISO/IEC 24727-1:2014 and revision of INCITS/ISO/IEC 24727-1:2007 [R2013])

Specifies a set of programming interfaces and protocols enabling interactions between integrated circuit cards (ICCs) and applications resident on a variety of computer platforms. The ICCs provide generic services for multi-sector use by the applications. The organization and the operation of the ICCs conform to ISO/IEC 7816-4. It is anticipated that some application domains will seek to achieve interoperability through ISO/IEC 24727 facilities even though the applications pre-exist these facilities. To this end, various means of backward compatibility are established through mechanisms specified in ISO/IEC 24727.

Single copy price: \$138.00

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INCITS/ISO/IEC 27033-4-2014 [201x], Information technology - Security techniques - Network security - Part 4: Securing communications between networks using security gateways (identical national adoption of ISO/IEC 27033-4:2014 and revision of INCITS/ISO/IEC 18028-3:2005 [R2013])

Gives guidance for securing communications between networks using security gateways (firewall, application firewall, Intrusion Protection System, etc.) in accordance with a documented information security policy of the security gateways, including (1) identifying and analysing network security threats associated with security gateways; (2) defining network security requirements for security gateways based on threat analysis; (3) using techniques for design and implementation to address the threats and control aspects associated with typical network scenarios; and (4) addressing issues associated with implementing, operating, monitoring, and reviewing network security gateway controls.

Single copy price: \$138.00

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INCITS/ISO/IEC 29192-5:2016 [201x], Information technology - Security techniques - Lightweight cryptography - Part 5: Hash-functions (identical national adoption of ISO/IEC 29192-5:2016)

Specifies three hash-functions suitable for applications requiring lightweight cryptographic implementations.

- PHOTON: A lightweight hash-function with permutation sizes of 100, 144, 196, 256, and 288 bits computing hash-codes of length 80, 128, 160, 224, and 256 bits, respectively.
- SPONGENT: A lightweight hash-function with permutation sizes of 88, 136, 176, 240, and 272 bits computing hash-codes of length 88, 128, 160, 224, and 256 bits, respectively.
- Lesamnta-LW: A lightweight hash-function with permutation size of 384 bits computing a hash-code of length 256 bits.

The requirements for lightweight cryptography are given in ISO/IEC 29192-1.

Single copy price: \$138.00

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

INCITS/ISO/IEC 29192-4:2013/AM 1:2016 [201x], Information technology - Security techniques - Lightweight cryptography - Part 4: Mechanisms using asymmetric techniques (identical national adoption of ISO/IEC 29192-4:2013/AM 1:2016)

Amendment 1 to ISO/IEC 29192-4:2013.

Single copy price: \$19.00

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Order from: ANSI

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

INCITS/ISO/IEC 29500-1-2016 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 1: Fundamentals and Markup Language Reference (identical national adoption of ISO/IEC 29500-1:2016 and revision of INCITS/ISO/IEC 29500-1:2012 [2013])

Defines a set of XML vocabularies for representing word-processing documents, spreadsheets, and presentations. On the one hand, the goal of ISO/IEC 29500 is to be capable of faithfully representing the pre-existing corpus of word-processing documents, spreadsheets, and presentations that had been produced by the Microsoft Office applications (from Microsoft Office 97 to Microsoft Office 2008, inclusive) at the date of the creation of ISO/IEC 29500. It also specifies requirements for Office Open XML consumers and producers. On the other hand, the goal is to facilitate extensibility and interoperability by enabling implementations by multiple vendors and on multiple platforms.

Single copy price: \$232.00

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

Order from: ANSI

INCITS/ISO/IEC 29500-3-2015 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 3: Markup Compatibility and Extensibility (identical national adoption of ISO/IEC 29500-3:2015 and revision of INCITS/ISO/IEC 29500-3:2012 [2013])

Describes a set of conventions that are used by Office Open XML documents to clearly mark elements and attributes introduced by future versions or extensions of Office Open XML documents, while providing a method by which consumers can obtain a baseline version of the Office Open XML document (a version without extensions) for interoperability.

Single copy price: \$162.00

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INCITS/ISO/IEC 29500-4-2016 [201x], Information Technology - Document Description and Processing Languages - Office Open XML File Formats - Part 4: Transitional Migration Features (identical national adoption of ISO/IEC 29500-4:2016 and revision of INCITS/ISO/IEC 29500-4:2012 [2013])

Defines a set of XML vocabularies for representing word-processing documents, spreadsheets, and presentations. On the one hand, the goal of ISO/IEC 29500 is to represent faithfully the existing corpus of word-processing documents, spreadsheets, and presentations that have been produced by Microsoft Office applications (from Microsoft Office 97 to Microsoft Office 2008, inclusive). It also specifies requirements for Office Open XML consumers and producers. On the other hand, the goal is to facilitate extensibility and interoperability by enabling implementations by multiple vendors and on multiple platforms. Defines features for backward-compatibility and that are useful for high-quality migration of existing binary documents to ISO/IEC 29500. These features are used only by documents of conformance class WML Transitional (§2.1), SML Transitional (§2.1), or PML Transitional (§2.1). These features are sometimes needed for high-quality migration of existing binary documents to ISO/IEC 29500.

Single copy price: \$232.00

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INCITS/ISO/IEC 30134-4:2017 [201x], Information Technology - Data Centres - Key Performance Indicators - Part 4: IT Equipment Energy Efficiency for Servers (ITEEsv) (identical national adoption of ISO/IEC 30134-4:2017)

Specifies Information Technology Equipment Energy Efficiency for servers (ITEEsv), a key performance indicator (KPI) which quantifies the energy efficiency characteristics of servers in a data centre. ITEEsv can be calculated using a choice of pre-existing or context-specific server performance benchmarks. ITEEsv intends to assist in improving the aggregate energy effectiveness of servers in a given data centre.

Single copy price: \$68.00

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

INCITS/ISO/IEC 30134-5:2017 [201x], Information Technology - Data Centres - Key Performance Indicators - Part 5: IT Equipment Utilization for Servers (ITEUsv) (identical national adoption of ISO/IEC 30134-5:2017)

Specifies the IT Equipment Utilization for servers (ITEUsv) as a Key Performance Indicator (KPI) to quantify the utilization of servers in a data centre. Is intended as a KPI for improving the aggregate energy efficiency of servers in a given data centre.

Single copy price: \$68.00

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

INCITS/ISO/IEC 10116:2017 [201x], Information technology - Security techniques - Modes of operation for an n-bit block cipher (identical national adoption of ISO/IEC 10116:2017 and revision of INCITS/ISO/IEC 10116:2008 [R2013])

This document establishes five modes of operation for applications of an n-bit block cipher (e.g., protection of data during transmission or in storage). The defined modes only provide protection of data confidentiality. Protection of data integrity is not within the scope of this document. Also, most modes do not protect the confidentiality of message length information.

Single copy price: \$185.00

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INCITS/ISO/IEC 10646:2017 [201x], Information technology - Universal Coded Character Set (UCS) (identical national adoption of ISO/IEC 10646:2017 and revision of INCITS/ISO/IEC 10646:2014 [2017])

Specifies the Universal Coded Character Set (UCS). It is applicable to the representation, transmission, interchange, processing, storage, input, and presentation of the written form of the languages of the world as well as of additional symbols. Specifies the architecture of this International Standard; defines terms used in this International Standard; describes the general structure of the UCS codespace; specifies the Basic Multilingual Plane (BMP) of the UCS; specifies supplementary planes of the UCS: the Supplementary Multilingual Plane (SMP), the Supplementary Ideographic Plane (SIP), the Tertiary Ideographic Plane (TIP), and the Supplementary Special-purpose Plane (SSP); defines a set of graphic characters used in scripts and the written form of languages on a world-wide scale; specifies the names for the graphic characters and format characters of the BMP, SMP, SIP, TIP, SSP and their coded representations within the UCS codespace; specifies the coded representations for control characters and private use characters; specifies three encoding forms of the UCS: UTF-8, UTF-16, and UTF-32; specifies seven encoding schemes of the UCS: UTF-8, UTF-16, UTF-16, UTF-16BE, UTF-16LE, UTF-32, UTF-32BE, and UTF-32LE; specifies the management of future additions to this coded character set. The UCS is an encoding system different from that specified in ISO/IEC 2022. The method to designate UCS from ISO/IEC 2022 is specified in 12.2. A graphic character will be assigned only one code point in the standard, located either in the BMP or in one of the supplementary planes.

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INCITS/ISO/IEC 17203:2017 [201x], Information technology - Open Virtualization Format (OVF) specification (identical national adoption of ISO/IEC 17203:2017 and revision of INCITS/ISO/IEC 17203:2011 [R2017])

This standard specifies an open, secure, portable, efficient, and extensible format for the packaging and distribution of software to be run in virtual machines.

Single copy price: \$209.00

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Order from: ANSI

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

INCITS/ISO/IEC 19941:2017 [201x], Information technology - Cloud computing - Interoperability and portability (identical national adoption of ISO/IEC 19941:2017)

This standard specifies cloud computing interoperability and portability types, the relationship and interactions between these two cross-cutting aspects of cloud computing, and common terminology and concepts used to discuss interoperability and portability, particularly relating to cloud services. This standard is related to other standards, namely, ISO/IEC 17788, ISO/IEC 17789, ISO/IEC 19086-1, ISO/IEC 19944, and in particular, references the cross-cutting aspects and components identified in ISO/IEC 17788 and ISO/IEC 17789, respectively. The goal of this document is to ensure that all parties involved in cloud computing, particularly CSCs, CSPs, and cloud service partners (CSNs) acting as cloud service developers, have a common understanding of interoperability and portability for their specific needs. This common understanding helps to achieve interoperability and portability in cloud computing by establishing common terminology and concepts ...

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INCITS/ISO/IEC 27000:2018 [201x], Information technology - Security techniques - Information security management systems - Overview and vocabulary (identical national adoption of ISO/IEC 27000:2018 and revision of INCITS/ISO/IEC 27000:2012 [2014])

Provides the overview of information security management systems (ISMS). It also provides terms and definitions commonly used in the ISMS family of standards. This document is applicable to all types and sizes of organization (e.g., commercial enterprises, government agencies, not-for-profit organizations). The terms and definitions provided in this document cover commonly used terms and definitions in the ISMS family of standards; do not cover all terms and definitions applied within the ISMS family of standards in defining new terms for use.

Single copy price: \$162.00

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INCITS/ISO/IEC 27009:2016 [201x], Information technology - Security techniques - Sector-specific application of ISO/IEC 27001 - Requirements (identical national adoption of ISO/IEC 27009:2016)

Defines the requirements for the use of ISO/IEC 27001 in any specific sector (field, application area, or market sector). It explains how to include requirements additional to those in ISO/IEC 27001, how to refine any of the ISO/IEC 27001 requirements, and how to include controls or control sets in addition to ISO/IEC 27001:2013, Annex A. It ensures that additional or refined requirements are not in conflict with the requirements in ISO/IEC 27001. It is applicable to those involved in producing sector-specific standards that relate to ISO/IEC 27001.

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

INCITS/ISO/IEC 40180:2017 [201x], Information Technology - Learning, Education and Training - Quality Management, Assurance and Metrics - Part 1: General Approach (identical national adoption of ISO/IEC 40180:2017 and revision of INCITS/ISO/IEC 19796 -1:2005 [R2013])

Provides the fundamentals and the reference framework for quality assurance, quality management, and quality improvement in IT-enhanced learning, education, and training (called E-Learning). It consists mainly of the Quality Reference Framework (QRF) for E-Learning, which is a common and generic framework to describe, specify and understand critical properties, characteristics and metrics of quality. The QRF combines an elaborated and extensive process model with a descriptive model for the processes. ISO/IEC 40180 harmonizes existing approaches, concepts, specifications, terms, and definitions related to quality for E-Learning, education, and training.

Single copy price: \$209.00

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Projects Withdrawn from Consideration

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

API (American Petroleum Institute)

BSR/API Recommended Practice 13B-1, 5th Edition-201x, Field Testing of Water-Based Drilling Fluids (revision and redesignation of ANSI/API RP 13B-1/ISO 10414-1-2008)

BSR/API Recommended Practice 13B-1/ISO 10414-1, 4th Edition-2008 (R201x), Recommended Practice for Field Testing Water-Based Drilling Fluids (reaffirmation of ANSI/API RP 13B-1/ISO 10414-1-2008)

Inquiries may be directed to Jacqueline Roueche, (202) 682-8286, RouecheJ@api.org

SCTE (Society of Cable Telecommunications Engineers)

BSR/SCTE 100-201x, Specification for 75-Ohm Smooth Aluminum Subscriber Access Cable (revision of ANSI/SCTE 100-2010)

BSR/SCTE 167-201x, Headend Cable Color Code (revision of ANSI/SCTE 167-2010)

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer

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

API (American Petroleum Institute)

ANSI/API RP 13B-1/ISO 10414-1-2008, Recommended Practice for Field Testing Water-Based Drilling Fluids

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 100-2010, Specification for 75 Ohm Smooth Aluminum Subscriber Access Cable Questions may be directed to: Kim Cooney, (800) 542-5040, kcooney@scte.org

ANSI/SCTE 167-2010, Recommended Practice for Headend Cable Color Coding Questions may be directed to: Kim Cooney, (800) 542-5040, kcooney@scte.org

Call for Members (ANS Consensus Bodies)

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

ASA (ASC S1) (Acoustical Society of America)

Office: 1305 Walt Whitman Road

Suite 300

Melville, NY 11747

Contact: Caryn Mennigke Phone: (631) 390-0215

E-mail: asastds@acousticalsociety.org

BSR/ASA S1.18-201x, Method for Determining the Acoustic Impedance

of Ground Surfaces (revision of ANSI/ASA S1.18-2010)

ASHRAE (American Society of Heating, Refrigerating and Air-

Conditioning Engineers. Inc.)

Office: 1791 Tullie Circle NE

Atlanta, GA 30329

Contact: Tanisha Meyers-Lisle

Phone: (678) 539-1111

E-mail: tmlisle@ashrae.org

BSR/ASHRAE Standard 139-201X, Method of Testing for Rating

Desiccant Dehumidifiers Utilizing Heat for the Regeneration Process

(revision of ANSI/ASHRAE Standard 139-2015)

ASIS (ASIS International)

Office: 1625 Prince Street

Alexandria, VA 22314-2818

Contact: Aivelis Opicka

Phone: (703) 518-1439

E-mail: standards@asisonline.org

BSR ASIS PSC.2-201X, Conformity Assessment and Auditing

Management Systems for Quality of Private Security Company

Operations (revision of ANSI ASIS PSC.2-2012)

BIFMA (Business and Institutional Furniture Manufacturers Association)

Office: 678 Front Ave. NW

Grand Rapids, MI 49504

Contact: David Panning

Phone: (616) 591-9798

E-mail: dpanning@bifma.org

BSR/BIFMA G1-201X, Ergonomics Guideline for Furniture Used in Office Work Spaces Designed for Computer Use (new standard)

BSR/BIFMA S6.5-201X, Home and Light-use Commercial Office Furniture (revision and redesignation of ANSI/BIFMA/SOHO S6.5

-2008 (R2013))

BSR/BIFMA X5.5-201x, Desk/Table Products (revision of ANSI/BIFMA X5.5-2014)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street

Arlington, VA 22202

Contact: Veronica Lancaster

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

BSR/CTA 2041-A-201x, Standard for Round Tactile Feedback Feature

(revision and redesignation of ANSI/CTA 2041-2012)

ISA (International Society of Automation)

Office: 67 Alexander Drive

P O Box 12277

Research Triangle Pk, NC 27709

Contact: Rob Breiner

Phone: (919) 990-9257

E-mail: rbreiner@isa.org

BSR/ISA 62453-315 (103.00.09)-201x, Field device tool (FDT) interface specification - Part 315: Communication profile integration - IEC 61784 CPF 15 (national adoption of IEC 62453-315 with modifications

and revision of ANSI/ISA 62453-315 (103.00.09)-2011)

NSF (NSF International)

Office: 789 N. Dixboro Road

Ann Arbor, MI 48105-9723

Contact: Rachel Brooker

Phone: (734) 827-6866

E-mail: rbrooker@nsf.org

BSR/NSF 455-2-201x (i1r2), Good Manufacturing Practices for Dietary Supplements (new standard)

NSF International Designations

In the September 5, 2014 Standards Action, NSF International announced a new family of standards for a program called the Global Retailers and Manufacturers Alliance (GRMA). Since then, BSR/NSF 455-3-201x has been withdrawn from consideration and the

designation and title of these PINS have been reassigned. The re-

designation of these proposed ANS are as follows:

BSR/NSF 455-1-201x, Glossary of GRMA terminology (PINS to be filed shortly)

BSR/NSF 455-2-201x, Good Manufacturing Practices for Dietary Supplements

BSR/NSF 455-3-201x, Good Manufacturing Practices for Cosmetics BSR/NSF 455-4-201x, Good Manufacturing Practices for Over the Counter Drugs

BSR/NSF 455-4-201x (i8r1), Good Manufacturing Practices for Overthe-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-201x (i9r1), Good Manufacturing Practices for Overthe-Counter Drugs (revision of ANSI/NSF 455-4-2018)

UL (Underwriters Laboratories, Inc.)

Office: 333 Pfingsten Road

Northbrook, IL 60062

Contact: Megan Monsen Phone: (847) 664-1292

E-mail: megan.monsen@ul.com

BSR/UL 510A-201X, Standard for Safety for Component Tapes (new

standard)

BSR/UL 510-201X, Standard for Safety for Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape (new standard)

VITA (VMEbus International Trade Association (VITA))

Office: 929 W. Portobello Avenue

Mesa, AZ 85210

Contact: Jing Kwok

Phone: (602) 281-4497

E-mail: jing.kwok@vita.com

BSR/VITA 86-201x, High Voltage Input Sealed Connector Power Supply

(new standard)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- o General Interest
- Government
- Producer
- o User

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

Final Actions on American National Standards

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

ASABE (American Society of Agricultural and Biological Engineers)

New Standard

ANSI/ASABE S624-AUG2018, Grain Bin Access Design Safety (new standard): 8/31/2018

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

ANSI/ASHRAE Standard 52.2a-2018, Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size (addenda to ANSI/ASHRAE Standard 52.2-2012): 8/30/2018

Revision

ANSI/ASHRAE Standard 41.9-2018, Standard Methods for Refrigerant Mass Flow Measurements Using Calorimeters (revision of ANSI/ASHRAE Standard 41.9-2011): 8/30/2018

ANSI/ASHRAE Standard 174-2018, Method of Test for Rating Desiccant-Based Dehumidification Equipment (revision of ANSI/ASHRAE Standard 174-2009): 8/30/2018

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME B31Q-2018, Pipeline Personnel Qualification (revision of ANSI/ASME B31Q-2016): 8/30/2018

ANSI/ASME CSD-1-2018, Controls and Safety Devices for Automatically Fired Boilers (revision of ANSI/ASME CSD-1-2015): 8/23/2018

ASNT (American Society for Nondestructive Testing) Addenda

ANSI/ASNT CP-189-2016, Addenda 2018, ASNT Standard for Qualification and Certification of Nondestructive Testing Personnel (addenda to ANSI/ASNT CP-189-2016): 8/29/2018

ATIS (Alliance for Telecommunications Industry Solutions)

Stabilized Maintenance

ANSI ATIS 0300260-1998 (S2018), Operations, Administration, Maintenance, and Provisioning (OAM&P) - Extension to Generic Network Information Model for Interfaces between a Service Provider Administrative System and Network Elements for Lawfully Authorized Electronic Surveillance (stabilized maintenance of ANSI ATIS 0300260-1998 (R2013)): 8/31/2018

AWWA (American Water Works Association) New Standard

ANSI/AWWA C305-2018, CFRP Renewal and Strengthening of PCCP (new standard): 8/23/2018

GTESS (Georgia Tech Energy & Sustainability Services)

New National Adoption

ANSI/MSE/ISO 50001-2018, Energy management systems - Requirements with guidance for use (identical national adoption of ISO 50001:2018): 8/29/2018

NSF (NSF International)

Revision

ANSI/NSF 55-2018 (i47r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2017): 8/27/2018

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 62-2018, Measurement Procedure for Noise Figure (revision of ANSI/SCTE 62-2012): 8/31/2018

ANSI/SCTE 116-2018, Specification for 5/8-24 Port, Female Adapters (revision of ANSI/SCTE 116-2011): 8/31/2018

ANSI/SCTE 119-2018, Measurement Procedure for Noise Power Ratio (revision of ANSI/SCTE 119-2011): 8/31/2018

UL (Underwriters Laboratories, Inc.)

Revision

ANSI/UL 399-2018, Standard for Safety for Drinking-Water Coolers (revision of ANSI/UL 399-2013a): 8/29/2018

ANSI/UL 412-2018, Standard for Refrigeration Unit Coolers (revision of ANSI/UL 412-2017): 8/28/2018

ANSI/UL 852-2018, Standard for Safety for Metallic Sprinkler Pipe for Fire Protection Service (revision of ANSI/UL 852-2010 (R2014)): 8/23/2018

 * ANSI/UL 1598-2018, Standard for Safety for Luminaires (revision of ANSI/UL 1598-2012): 8/28/2018

ANSI/UL 1598-2018a, Standard for Safety for Luminaires (revision of ANSI/UL 1598-2012): 8/28/2018

ANSI/UL 1598-2018b, Standard for Safety for Luminaires (revision of ANSI/UL 1598-2012): 8/28/2018

ANSI/UL 1971-2018, Standard for Safety for Signaling Devices for the Hearing Impaired (revision of ANSI/UL 1971-2008 (R2013)): 8/29/2018

ANSI/UL 8750-2018b, Standard for Safety for Light Emitting Diode (LED) Equipment For Use In Lighting Products (Proposal dated 5-4-18) (revision of ANSI/UL 8750-2018): 8/22/2018

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. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: List of Approved and Proposed ANS

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.

ASIS (ASIS International)

Contact: Aivelis Opicka, (703) 518-1439, standards@asisonline.org 1625 Prince Street, Alexandria, VA 22314-2818

Revision

BSR ASIS PSC.2-201X, Conformity Assessment and Auditing Management Systems for Quality of Private Security Company Operations (revision of ANSI ASIS PSC.2-2012)

Stakeholders: Private security companies; military and government agencies and organizations; aid agencies and organizations; not-for-profit organizations and foundations; the global business community; United Nations organizations; human rights groups; educational institutions; professional security practitioners and consultants.

Project Need: The U.S. Assistant Deputy Under Secretary of Defense and the international community have a need for third party certification of armed private security providers to drive greater accountability (U.S. National Defense Authorization Act of 2011). This Standard builds on the international effort to have binding industry standards for all armed private security providers, working for any client, in conditions where rule of law has been undermined through conflict or disaster.

This Standard provides requirements and guidance for conducting conformity assessment of the ANSI/ASIS PSC.1-2012 (R2017), Management Systems for Quality of Private Security Company Operations - Requirements with Guidance Standard. It provides requirements for bodies providing auditing and third party certification of Private Security Company Operations (PSCs) - private security providers working for any client in conditions where governance and the rule of law have been undermined by conflict or disaster.

ASTM (ASTM International)

Contact: Laura Klineburger, (610) 832-9696, accreditation@astm.org 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

Revision

BSR/ASTM F2520-201x, Specification for Reach-in Refrigerators, Freezers, Combination Refrigerator/Freezers, and Thaw Cabinets (revision of ANSI/ASTM F2520-2005 (R2012))

Stakeholders: Food Service Equipment industries.

Project Need: This specification covers the basic design and function of temperature-regulated, continuous-duty commercial, and marine refrigerators, freezers, combination refrigerator/freezers and thaw cabinets. The equipment will be stationary and of a vertical or horizontal type.

This specification covers the material, design, and construction requirements for reach-in refrigerators, freezers, combination refrigerator/freezers, and thaw cabinets that are stationary and of a vertical or horizontal configuration.

BIFMA (Business and Institutional Furniture Manufacturers Association)

Contact: David Panning, (616) 591-9798, dpanning@bifma.org 678 Front Ave. NW, Grand Rapids, MI 49504

New Standard

BSR/BIFMA G1-201X, Ergonomics Guideline for Furniture Used in Office Work Spaces Designed for Computer Use (new standard)

Stakeholders: Manufacturers, specifiers, users, designers, and suppliers of furniture for use in office workspaces.

Project Need: To give design guidance to manufacturers of furniture to be used in office workspaces.

The purpose of this document is to provide guidance to designers and specifiers in developing, designing, and specifying ergonomic solutions for computer workstations.

Revision

BSR/BIFMA S6.5-201X, Home and Light-Use Commercial Office Furniture (revision and redesignation of ANSI/BIFMA/SOHO S6.5 -2008 (R2013))

Stakeholders: Manufacturers, specifiers, users, and suppliers of home and light-use commercial office furniture.

Project Need: This standard defines tests used to determine acceptability of the product for the intended and reasonably foreseeable uses of the product. It specifies acceptance levels to help assure reasonable safety and performance.

This standard is intended to provide a common basis for evaluating the safety, durability, and structural adequacy of storage and desk-type furniture intended for the home office or light-use commercial office.

BSR/BIFMA X5.5-201x, Desk/Table Products (revision of ANSI/BIFMA X5.5-2014)

Stakeholders: Manufacturers, specifiers, users, and suppliers of desk/table products.

Project Need: It provides test methods and performance requirements for desk/table products.

This standard provides a common basis for evaluating the safety, durability, and structural performance of desk/table products intended for use in commercial office and related institutional environments.

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org

140 Philips Rd, Exton, PA 19341

Revision

BSR/SCTE 04-201x, Test Method for F Connector Return Loss (revision of ANSI/SCTE 04-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The purpose of this document is to provide a test method for measuring return loss of "F" Male Connectors with Cable in the frequency range of 5 MHz to 1002 MHz by utilizing the time domain-gating feature of the network analyzer.

BSR/SCTE 05-201x, Test Method for F Connector Return Loss In-Line Pair (revision of ANSI/SCTE 05-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The purpose of this procedure is to provide instructions to measure the Return Loss characteristics of a pair of type "F" connectors and the cable interface, inserted in the middle of a cable, from 5 MHz to 1002 MHz.

BSR/SCTE 10-201x, Test Method for Flexible Coaxial Cable Impact Test (revision of ANSI/SCTE 10-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This test is to establish that specified outdoor flexible RF coaxial drop cable jackets are capable of low temperature characteristics.

BSR/SCTE 46-201x, Test Method for AC to DC Power Supplies (revision of ANSI/SCTE 46-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The purpose of this standard is to characterize, document, and define test methods for AC to DC outdoor plant power supplies. These tests involve the measurement of AC input parameters and DC output parameters. The application of uniform test methods for power supplies will allow fair performance comparisons to be made between different power supplies.

BSR/SCTE 96-201x, Cable Telecommunications Testing Guidelines (revision of ANSI/SCTE 96-2013)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The test procedures that reference this document are intended to allow a competent technician or engineer to perform the tasks of determining, to a reasonable degree of certainty, the level of performance for the various parameters detailed. The procedures are general in nature and, with sufficient forethought and preparation, can be adapted to individual devices, cascades, or complete systems.

BSR/SCTE 98-201x, Test Method for Withstand Tightening Torque - F Male (revision of ANSI/SCTE 98-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

To measure the "F" Male interface torque and/or to determine the amount of torque that will cause one or more of the following conditions to occur: stripping of the internal threads, damage to the male interface, and/or failure of the nut hex-flats.

BSR/SCTE 99-201x, Test Method for Axial Pull Connector/Drop Cable (revision of ANSI/SCTE 99-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The purpose of this document is to provide a test method for measuring the axial force required to cause one or more of the following conditions: cable structural failure, connector structural failure, and/or separation due to slip at the connector/cable interface.

BSR/SCTE 130-2-201x, Digital Program Insertion - Advertising Systems Interfaces - Part 2: Core Messaging and Data Types (revision of ANSI/SCTE 130-2 2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document, SCTE 130 Part 2, describes the Digital Program Insertion - Advertising Systems Interfaces' core messaging and data types using extensible markup language (XML), XML Namespaces, and XML Schema.

BSR/SCTE 130-03-201x, Digital Program Insertion - Advertising Systems Interfaces - Part 3: Ad Management Service (AM) and Ad Decision Service (ADS) (revision of ANSI/SCTE 130-3-2013)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document in conjunction with the SCTE 130 Part 3 Extensible Markup Language (XML) schema document (i.e., the XSD document) defines the XML messages expressing placement opportunities, placement decisions, and placement-related event data typically exchanged between an Ad Management Service (ADM) and an Ad Decision Service (ADS). Additionally, this document and the accompanying schema document describe the auxiliary XML messages, elements, and attributes supporting the primary message exchanges.

BSR/SCTE 130-09-201x, Recommended Practices for SCTE 130 Digital Program Insertion Advertising Systems Interfaces (revision of ANSI/SCTE 130-9-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The goal of this recommended practices document is to serve as an informational enhancement to SCTE 130, Digital Program Insertion - Advertising Systems Interfaces. SCTE 130 is necessarily brief in many areas in order to maintain conciseness and accuracy. This document serves as a companion to SCTE 130.

BSR/SCTE 152-201x, Test Method for Contact Resistance Measurement of Mainline Plug Interface (revision of ANSI/SCTE 152 -2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

The purpose of this test procedure is to measure the resistance between the contact of the connector and cable interfaces. High-resistance contacts may cause excessive energy losses, overheating and possibly common path distortions. It is most desirable to have contact resistance as low as possible.

BSR/SCTE 193-1-201x, MPEG AAC Audio Codec Constraints for Cable Television - Coding (revision of ANSI/SCTE 193-1-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document defines the coding constraints on MPEG-4 AAC, HE AAC, and HE AAC v2 (referred to collectively in this document as the "AAC family") profile audio for cable television. It also discusses MPEG-2 AAC LC profile audio, which is closely related to MPEG-4 AAC profile audio. The carriage of the streams described in this specification is defined in SCTE 193-2 2014.

BSR/SCTE 193-2-201x, MPEG AAC Audio Codec Constraints for Cable Television - Transport (revision of ANSI/SCTE 193-2-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document describes the carriage of MPEG-4 AAC, MPEG-4 HE AAC, and MPEG-4 HE AAC v2 (referred to collectively in this document as the "AAC family") profile audio in MPEG-2 transport systems. It also discusses MPEG-2 AAC LC profile audio, which is closely related to MPEG-4 AAC profile audio.

BSR/SCTE 194-2-201x, DTS-HD Audio System - Transport Specification for Cable Television (revision of ANSI/SCTE 194-2-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document describes the carriage of DTS-HD audio in MPEG-2 systems. The descriptor necessary to signal DTS-HD audio is defined in this document. Multiplexing and transport for cable using MPEG-2 systems are defined in SCTE 54. Coding constraints for DTS-HD audio elementary streams are defined in SCTE 194-1.

BSR/SCTE 203-201x, Product Environmental Requirements for Cable Telecommunications Facilities - Test Procedures (revision of ANSI/SCTE 203-2014)

Stakeholders: Cable Telecommunications industry.

Project Need: Revise current American National Standard.

This document specifies physical, environmental, electrical, and sustainability test procedures to evaluate equipment compliance with requirements defined in ANSI/SCTE 186-2012.

UL (Underwriters Laboratories, Inc.)

Contact: Megan Monsen, (847) 664-1292, megan.monsen@ul.com 333 Pfingsten Road, Northbrook, IL 60062

New Standard

BSR/UL 510-201X, Standard for Safety for Polyvinyl Chloride, Polyethylene, and Rubber Insulating Tape (new standard)

Stakeholders: Manufacturers of polyvinyl chloride, polyethylene, and rubber insulating tape, AHJs, supply chain, and users of insulating tape.

Project Need: To obtain national recognition of a standard covering polyvinyl chloride, polyethylene, and rubber insulating tape.

This standard covers the following: (a) In the US, this Standard covers thermoplastic and rubber tapes for use as electrical insulation at not more than 600 V and at 80°C (176°F) and lower temperatures on joints and splices in wires and cables in accordance with the National Electrical Code, NFPA 70. It is intended that rubber tape on a joint or splice be mechanically protected by a covering such as friction tape. Thermoplastic tape is acceptable without the additional mechanical protection. (b) In Canada, this Standard covers thermoplastic and rubber tapes for use as electrical insulation at not more than for use at a maximum temperature of 60°C (140°F), 80°C (176°F), 90°C (194°F), or 105°C (221°F) for insulating joints and splices in wires and cables having a voltage rating up to 1000 V in accordance with the Canadian Electrical Code, Part 1. 600 V and at 80°C (176°F). It is intended that rubber tape on a joint or splice be mechanically protected by a covering such as friction tape. Thermoplastic tape is acceptable without the additional mechanical protection. This standard covers the following: (a) In the US, the characteristic constituent of the thermoplastic tape covered in this Standard is either PVC (polyvinyl chloride or a copolymer of vinyl chloride and vinyl acetate), or PE (thermoplastic polyethylene). (b) In Canada, the characteristic constituent of the thermoplastic tape covered in this Standard is PE (thermoplastic polyethylene). Requirements for PVC tape are covered by the Standard for PVC Insulating Tape, CSA 22.2 No. 197.

BSR/UL 510A-201X, Standard for Safety for Component Tapes (new standard)

Stakeholders: Manufacturers of component tapes, supply chain, and users of component tapes.

Project Need: To obtain national recognition of a standard covering component tapes.

This standard covers adhesive and non-adhesive backed tapes intended for use with finished electro-mechanical products. Results obtained provide data with respect to the physical, electrical, flammability, thermal, adhesion, and other properties of the tapes under consideration and are intended to provide guidance for tape manufacturers, end-product manufacturers, safety engineers, and other interested parties. This standard also covers tapes which have only been subjected to thickness and flammability tests in accordance with Thickness, Section 9 and Flame Test, Section 20, respectively. Tapes subjected only to flammability tests in accordance with Section 20 may employ a conductive backing. This standard covers the following: (a) In the US, this standard does not cover adhesive coated polyvinyl chloride (PVC), adhesive coated polyethylene (PE) and rubber tapes intended for use on joints and splices in wires and cables in accordance with the National Electrical Code, NFPA 70 at not more than 80°C (176°F) and 600 V. These types of tapes are covered by the Standard for Polyvinyl, Polyethylene, and Rubber Insulating Tape, UL 510. (b) In Canada, this standard does not cover adhesive coated polyvinyl chloride (PVC), intended for use on joints and splices in wires and cables in accordance with the Canadian Electrical Code, Part 1 at a maximum temperature of 60°C (140°F), 80°C (176°F), 90°C (194°F), or 105°C (221°F) and having voltage ratings up to 1,000 V. These types of tapes are covered by the Standard for PVC Insulating Tape, CSA 22.2 No. 197.

VITA (VMEbus International Trade Association (VITA))

Contact: Jing Kwok, (602) 281-4497, jing.kwok@vita.com 929 W. Portobello Avenue, Mesa, AZ 85210

New Standard

BSR/VITA 86-201x, High Voltage Input Sealed Connector Power Supply (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.

Project Need: To define a high-voltage-input sealed-connector power supply standard for the VPX ecosystem.

This standard defines an environmentally sealed connector pair which is compatible with the backplane footprint as defined in VITA 62.0 for 3U power supplies operating in harsh environments operating off of a high-voltage input.

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)
- AARST (American Association of Radon Scientists and Technologists)
- AGA (American Gas Association)
- AGSC-AGRSS (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (Green Building Initiative)
- HL7 (Health Level Seven)
- IES (Illuminating Engineering Society)
- ITI (InterNational Committee for Information Technology Standards)
- MHI (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NEMA (National Electrical Manufacturers Association)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network, Inc.)
- SAE (SAE International)
- TCNA (Tile Council of North America)
- 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.

API

American Petroleum Institute 1220 L Street, NW Washington, DC 20005-4070 Phone: (202) 682-8056

Web: www.api.org

ASA (ASC S1)

Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215

Web: www.acousticalsociety.org

ASABE

American Society of Agricultural and Biological Engineers

2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7015 Web: www.asabe.org

ASHRAE

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

1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (678) 539-1214 Web: www.ashrae.org

ASIS

ASIS International 1625 Prince Street Alexandria, VA 22314-2818

Phone: (703) 518-1439 Web: www.asisonline.org

ASME

American Society of Mechanical Engineers

Two Park Avenue New York, NY 10016-5990 Phone: (212) 591-8521 Web: www.asme.org

ASNT

American Society for Nondestructive Testing

1711 Arlingate Lane P.O. Box 28518 Columbus, OH 43228-0518 Phone: (800) 222-2768 ext 241

Web: www.asnt.org

ASPE

American Society of Plumbing Engineers 6400 Shafer Court

Suite 350 Rosemont, IL 60018 Phone: (847) 296-0002 Web: www.aspe.org

ASTM

ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959

Phone: (610) 832-9696 Web: www.astm.org

ATIS

Alliance for Telecommunications Industry Solutions

1200 G Street NW Suite 500 Washington, DC 20005 Phone: (202) 662-8654

Web: www.atis.org

AWS

American Welding Society 8669 NW 36th Street Suite #130 Miami, FL 33166-6672 Phone: (800) 443-9353 Web: www.aws.org

AWWA

American Water Works Association 6666 W. Quincy Ave.

Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org

BIFM/

Business and Institutional Furniture Manufacturers Association

678 Front Ave. NW Grand Rapids, MI 49504 Phone: (616) 591-9798 Web: www.bifma.org

CSA

CSA Group

8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org

СТД

Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech

ESTA

Entertainment Services and Technology Association

Suite 609 New York, NY 10036-3748 Phone: (212) 244-1505 Web: www.esta.org

630 Ninth Avenue

GTFSS

Georgia Tech Energy & Sustainability
Services

Suite 300 Atlanta, GA 30332-0640 Phone: (404) 558-5948

75 Fifth Street N.W

Web: www.innovate.gatech.edu

IAPMO (ASSE Chapter)

ASSE International Chapter of IAPMO 18927 Hickory Creek Drive Suite 220 Mokena, IL 60448 Phone: (708) 995-3015

IEEE

Institute of Electrical and Electronics Engineers

Web: www.asse-plumbing.org

445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3854 Web: www.ieee.org

ISA (Organization)

International Society of Automation

67 Alexander Drive P O Box 12277 Research Triangle Pk, NC 27709 Phone: (919) 990-9257 Web: www.isa.org

ITI (INCITS)

InterNational Committee for Information Technology Standards

1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 737-8888 Web: www.incits.org

ITSDE

Industrial Truck Standards
Development Foundation, Inc.

1750 K Street NW Suite 460 Washington, DC 20006 Phone: (202) 296-9880 Web: www.indtrk.org

VFPΔ

National Fire Protection Association
One Batterymarch Park

Quincy, MA 02169 Phone: (617) 984-7246 Web: www.nfpa.org

NSF

NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-6866

Web: www.nsf.org

RESNET

Residential Energy Services Network,

4867 Patina Court Oceanside, CA 92057 Phone: (760) 408-5860 Web: www.resnet.us.com

SCTI

Society of Cable Telecommunications Engineers

140 Philips Rd Exton, PA 19341 Phone: (800) 542-5040 Web: www.scte.org

UL

Underwriters Laboratories, Inc. 333 Pfingsten Road

Northbrook, IL 60062 Phone: (847) 664-1292 Web: www.ul.com

VITA

VMEbus International Trade Association (VITA) 929 W. Portobello Avenue

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

ExSC_112_2018

September 7, 2018 ANSI Standards Action

Proposed Revision to the ANSI Essential Requirements (www.ansi.org/essentialrequirements)

Section 3.1 ANSI patent policy – Inclusion of Patents in American National Standards

The proposed revision below to 3.1.2 of the ANSI patent policy within the ANSI Essential Requirements (www.ansi.org/essentialrequirements) is intended to remove the requirement that patent holder letters of assurance be submitted to ANSI. Such letters must still be retained by the ANSI Accredited Standards Developer (ASD) and be publically available.

Public comments received in connection with this proposed revision will be made available to the public, with attribution, in the <u>ANSI Online public library</u> one week after the close of the public comment deadline. The ANSI ExSC will consider the comments received and provide a written response to commenters.

Public Comments are due to psa@ansi.org by October 8, 2018.

3.1.2 Record of statement

A record of the patent holder's statement shall be retained in the files of both the ASD and ANSI shall be made publically available (at the ASD's election, either on the ASD's website or ANSI's LOA repository.)

ExSC_113_2018

September 7, 2018 ANSI Standards Action

Proposed Revision to the ANSI Essential Requirements (www.ansi.org/essentialrequirements)

Section 4.2.1.3.4 Withdrawal for Cause

The proposed revision below to 4.2.1.3.4 of the ANSI Essential Requirements (<u>www.ansi.org/essentialrequirements</u>) is intended to ensure consistency with respect to the category of parties that can appeal the approval of a standard as an American National Standard (ANS) and file the withdrawal for cause of an ANS.

Public comments received in connection with this proposed revision will be made available to the public, with attribution, in the <u>ANSI Online public library</u> one week after the close of the public comment deadline. The ANSI ExSC will consider the comments received and provide a written response to commenters.

Public Comments are due to psa@ansi.org by October 8, 2018.

4.2.1.3.4 Withdrawal for Cause

Requests for withdrawal of an ANS for cause shall be approved by the BSR only upon a sufficient showing that one or more of the following conditions applies:

- a) ANSI's patent policy was violated;
- b) ANSI's requirements for designation, publication, and maintenance were violated;
- c) an American National Standard is contrary to the public interest;
- d) an American National Standard contains unfair provisions;
- e) an American National Standard is unsuitable for national use;
- f) the ASD has failed to make a good faith effort to resolve conflicts; or
- g) if it is determined by the ANSI ExSC as a result of an audit or appeal that ANSI's due process provisions were not satisfied.

Except in the case of an ANSI Audited Designator, <u>a request an application</u> for withdrawal <u>for cause</u> of an American National Standard may be submitted to the BSR by any <u>directly and materially</u> interested party <u>who has been or will be adversely affected by the ANS</u>, or the ExSC. <u>The burden of proof to show adverse effect shall be on the requestor. The request shall be in writing, filed in accordance with appeals filing specifications, directed to the Secretary of the BSR <u>and accompanied by a filing fee.</u> An application submitted by any materially interested party shall be accompanied by a filing fee. This fee may be waived or reduced upon sufficient evidence of hardship.</u>

If the request is submitted by a <u>directly and materially</u> interested party <u>who has been or will be</u> <u>adversely affected by the ANS</u>:

- a) the secretary of the BSR shall refer the request for withdrawal to the standards developer for the developer to review and respond within 30 calendar days to the requester and the secretary of the BSR;
- b) if the standards developer concurs with the proposed withdrawal, public notice shall be given and the standard shall be withdrawn in accordance with the developer's procedures;
- c) if the standards developer does not concur with the proposed withdrawal, the standards developer shall inform the requester and the secretary of the BSR and include reasons;
- d) the requester shall advise the secretary of the BSR, and the developer, within 30 calendar days of their receipt of the developer's response, either that the requester wishes the withdrawal process to continue or not;
- e) if the requester requests continuance of the withdrawal process, the matter shall be referred to the BSR via letter ballot for decision on subsequent action.

If the request is submitted by the ExSC, as a result of an Audit or an appeal:

- a) the secretary of the BSR shall provide the standards developer with an opportunity to withdraw the standard without review by the ANSI BSR;
- b) if the standards developer concurs with the proposed withdrawal, public notice shall be given and the standard shall be withdrawn in accordance with the developer's procedures;
- c) if the standards developer does not concur with the proposed withdrawal, the secretary of the BSR shall provide the standards developer with a reasonable timeframe within which the developer may supplement the original record upon which the standard was approved;
- d) the ExSC request and the original BSR-9 submittal together with any supplemental information provided by the developer shall be provided to the BSR via letter ballot for decision on subsequent action.

Extensions of time to submit documentation related to a withdrawal for cause shall be granted at the discretion of the chairperson of the BSR, or if the chairperson is unavailable, by the secretary of the BSR. Extensions shall be requested prior to the deadline date and shall include a justification therefore.

The BSR shall determine, based on the weight of the evidence presented, one of the following:

- a) that one or more of the above-stated criteria have been satisfied, and accordingly the approval of the standard as an American National Standard shall be withdrawn; or
- b) that further action is warranted to confirm that all procedural requirements have been satisfied prior to making a decision as to whether the standard shall be withdrawn or remain an American National Standard. In this case the BSR shall provide specific direction to the developer and shall also determine the status of the standard pending successful completion of such action; or
- c) that none of the above-stated criteria have been met, and approval of the standard as an American National Standard shall be maintained.

The decision of the BSR in this regard shall not be appealed to the BSR, but may be appealed to the ANSI Appeals Board pursuant to section 11, *Appeals Process*, of the *ANSI Appeals Board Operating Procedures*.

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); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

Ordering Instructions

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 7932/DAmd1, Microbiology of food and animal feeding stuffs - Horizontal method for the enumeration of presumptive Bacillus cereus - Colony-count technique at 30 degrees C - Amendment 1: Inclusion of precision data and limitation of confirmatory tests - 11/13/2005, \$82.00

ISO/DIS 17059, Oilseeds - Extraction of oil and preparation of methyl esters of triglyceride fatty acids for analysis by gas chromatography (Rapid method) - 9/21/2018, \$40.00

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/DIS 2859-2, Sampling procedures for inspection by attributes - Part 2: Sampling plans indexed by limited quality (LQ) for isolated lot inspection - 11/13/2006, \$107.00

EARTH-MOVING MACHINERY (TC 127)

ISO/DIS 6750-1, Earth-moving machinery - Operators manual - Part 1: Contents and format - 9/20/2018, \$93.00

ELEVATING WORK PLATFORMS (TC 214)

ISO/DIS 21455, Mobile elevating work platforms - Operators controls - Actuation, displacement, location and method of operation - 11/18/2018, \$88.00

FREIGHT CONTAINERS (TC 104)

ISO/DIS 20854, Freight Container - Thermal containers - Safety standard for refrigerating systems using flammable refrigerants - Requirements for design and operation - 9/21/2018, \$134.00

GLASS IN BUILDING (TC 160)

ISO/DIS 22509, Glass in building - Heat strengthened soda lime silicate glass - 9/20/2018, \$98.00

ISO/DIS 16936-1, Glass in building - Forced-entry security glazing - Part 1: Test and classification by repetitive ball drop - 11/19/2018, \$62.00

LIGHT METALS AND THEIR ALLOYS (TC 79)

ISO/DIS 10049, Aluminium alloy castings - Visual method for assessing the porosity - 9/22/2018, \$33.00

MACHINE TOOLS (TC 39)

ISO/DIS 16092-2, Machine tools safety - Presses - Part 2: Safety requirement for mechanical presses - 9/21/2018, \$134.00

ISO/DIS 16092-4, Machine tools safety - Presses - Part 4: Safety requirements for pneumatic presses - 9/21/2018, \$112.00

NANOTECHNOLOGIES (TC 229)

ISO/DIS 19749, Nanotechnologies - Measurements of particle size and shape distributions by scanning electron microscopy -9/23/2018, \$146.00

NICKEL AND NICKEL ALLOYS (TC 155)

ISO/DIS 12725, Nickel and nickel alloy castings - 9/21/2018, \$58.00

NON-DESTRUCTIVE TESTING (TC 135)

ISO/DIS 23243, Non-destructive testing - Terminology - Terms used in ultrasonic testing with phased arrays - 11/18/2018, \$71.00

OTHER

ISO/DIS 22688, Brazing - Quality requirements for brazing of metallic materials - 11/18/2018, \$93.00

PHOTOGRAPHY (TC 42)

ISO/DIS 18937, Imaging materials - Photographic reflection prints -Methods for measuring indoor light stability - 11/22/2018, \$77.00

PLASTICS (TC 61)

ISO/DIS 1110, Plastics - Polyamides - Accelerated conditioning of test specimens - 9/22/2018, \$33.00

ISO/DIS 20028-1, Plastics - Thermoplastic polyester (TP) moulding and extrusion materials - Part 1: Designation system and basis for specifications - 9/22/2018, \$58.00

QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

IEC 62366-1/DAmd1, Medical devices - Part 1: Application of usability engineering to medical devices - Amendment 1, \$62.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO/DIS 11674, Ships and marine technology - Heading control systems - 11/18/2018, \$112.00

SMALL CRAFT (TC 188)

ISO/DIS 10240, Small craft - Owners manual - 11/11/2018, \$67.00

SOLID BIOFUELS (TC 238)

ISO/DIS 21945, Solid biofuels - Simplified sampling method for small scale applications - 9/22/2018, \$71.00

TEXTILES (TC 38)

- ISO/DIS 9554, Fibre ropes General specifications 9/22/2018, \$107.00
- ISO/DIS 1833-28, Textiles Quantitative chemical analysis Part 28: Mixtures of chitosan with certain other fibers (method using diluted acetic acid) - 9/21/2018, \$33.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/DIS 19082, Intelligent transport systems - Definition of data elements and data frames between roadside modules and signal controllers for cooperative signal control - 11/12/2018, \$82.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 13919-1, Welding - Electron and laser-beam welded joints - Guidance on quality levels for imperfections - Part 1: Steel, nickel, titanium and their alloys - 11/19/2018, \$71.00

ISO/IEC JTC 1, Information Technology

- ISO/IEC 10646/DAmd2, Information technology Universal Coded Character Set (UCS) - Amendment 2: Nandinagari, Georgian extension, and other characters - 11/18/2018, \$155.00
- ISO/IEC 23008-1/DAmd3, Information technology High efficiency coding and media delivery in heterogeneous environments Part 1: MPEG media transport (MMT) Amendment 3: Immersive media and CDN integration 11/19/2018, \$62.00
- ISO/IEC 23008-4/DAmd1, Information technology High efficiency coding and media delivery in heterogeneous environments Part 4: MMT reference and conformance software Amendment 1 11/18/2018, \$29.00
- ISO/IEC DIS 20085-1, Information technology Security techniques Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules Part 1: Test tools and techniques 11/18/2018, \$77.00
- ISO/IEC DIS 29192-6, Information technology Security techniques Lightweight cryptography - Part 6: Message authentication codes (MACs) - 9/21/2018, \$88.00
- ISO/IEC DIS 29192-7, Information technology Security techniques -Lightweight cryptography - Part 7: Broadcast authentication protocols - 9/20/2019, \$46.00
- ISO/IEC DIS 14496-32, Information technology Coding of audiovisual objects - Part 32: File format reference software and conformance - 9/21/2018, \$77.00
- ISO/IEC/IEEE DIS 16326, Systems and software engineering Life cycle processes Project management 11/18/2018, \$98.00

IEC Standards

- C/2147/DV, ISO/IEC Draft Guide 63, Guide to the development and inclusion of aspects of safety in International Standards for medical devices, /2018/12/2
- 2/1923/FDIS, IEC 60034-23 ED1: Rotating electrical machines Part 23: Repair, overhaul and reclamation, /2018/10/1
- 31/1418/DTS, IEC TS 60079-42 ED1: Explosive atmospheres Part 42: Electrical safety devices for equipment, /2018/11/2
- 34B/2013/CD, IEC 60061-2/AMD55/FRAG1 ED3: Amendment 55 Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 2: Lampholders, /2018/10/2

- 34C/1394/CDV, IEC 62384 ED2: DC or AC supplied electronic control gear for LED modules Performance requirements, /2018/11/2
- 37B/172/NP, PNW 37B-172 ED1: IEC 61643-322/Ed1 Selection and application principles for silicon PN-junction voltage limiters, /2018/11/2
- 47A/1057/FDIS, IEC 63011-3 ED1: Integrated circuits Three dimensional integrated circuits Part 3: Model and measurement conditions of through-silicon via, /2018/10/1
- 49/1290/CD, IEC TS 61994-5 ED1: Piezoelectric, dielectric and electrostatic devices and associated materials for frequency control, selection and detaection Glossary Part 5: Piezoelectric sensors, /2018/11/2
- 55/1714/CD, IEC 60317-25 ED4: Specifications for particular types of winding wires - Part 25: Polyester or polyesterimide overcoated with polyamide-imide enamelled round aluminium wire, class 200, /2018/11/2
- 55/1681/CDV, IEC 60851-2/AMD2 ED3: Winding wires Test methods Part 2: Determination of dimensions, /2018/11/2
- 55/1713/CD, IEC 60317-0-6 ED2: Specifications for particular types of winding wires Part 0-6: General requirements Glass-fibre wound resin or varnish impregnated, bare or enamelled round copper wire, /2018/11/2
- 55/1712/DC, Draft amendments to IEC 60172, Ed. 4, /2018/10/1
- 57/2038/FDIS, IEC 61970-453/AMD1 ED2: Amendment 1 Energy management system application program interface (EMS-API) Part 453: Diagram layout profile, /2018/10/1
- 57/2042/DTR, PWI TR 62357-2 ED1: Power systems management and associated information exchange Part 2: Use Cases and role model, /2018/10/2
- 62D/1628/CD, IEC 80601-2-86 ED1: Medical electrical equipment -Part 2-86: Particular requirements for the basic safety and essential performance of electrocardiographs, including diagnostic equipment, monitoring equipment, ambulatory equipment, electrodes, cables and leadwires, /2018/11/2
- 62D/1627/CD, IEC 60601-2-23 ED4: Medical electrical equipment -Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment, /2018/11/2
- 65B/1128/FDIS, IEC 60746-4 ED2: Expression of performance of electrochemical analyzers Part 4: Dissolved oxygen in water measured by membrane-covered amperometric sensors, /2018/10/1
- 65E/625/CD, IEC 63082-1 ED1: Intelligent Device Management Part 1: Concepts and Terminology, /2018/11/2
- 86A/1885/CD, IEC 60794-1-202 ED1: Optical fibre cables Part 1-202: Generic specification - Basic optical cable test procedures - Material compatibility test, /2018/11/2
- 88/689A(F)/CDV, IEC 61400-27-1 ED2: Wind energy generation systems Part 27-1: Electrical simulation models Generic models, /2018/11/2
- 89/1435/CD, IEC 60695-2-11 ED3: Fire hazard testing Part 2-11: Glowing/hot-wire based test methods Glow-wire flammability test method for end-products (GWEPT), /2018/10/2
- 110/1022/NP, PNW 110-1022: Future IEC 63145-10: Eyewear display Part 10: Specifications, /2018/10/2
- 111/498/FDIS, IEC 62474 ED2: Material declaration for products of and for the electrotechnical industry, /2018/10/1

Newly Published ISO & IEC Standards



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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 21422:2018, Milk, milk products, infant formula and adult nutritionals - Determination of chloride - Potentiometric titration method, \$103.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO 17763:2018, Space systems - Human-life activity support systems and equipment integration in space flight, \$68.00

ISO 14620-1:2018. Space systems - Safety requirements - Part 1: System safety, \$185.00

CLEANROOMS AND ASSOCIATED CONTROLLED ENVIRONMENTS (TC 209)

ISO 14644-12:2018, Cleanrooms and associated controlled environments - Part 12: Specifications for monitoring air cleanliness by nanoscale particle concentration, \$68.00

DENTISTRY (TC 106)

ISO 10650:2018, Dentistry - Powered polymerization activators, \$103.00

ESSENTIAL OILS (TC 54)

ISO 4720:2018, Essential oils - Nomenclature, \$138.00

FINE CERAMICS (TC 206)

ISO 19629:2018, Fine ceramics (advanced ceramics, advanced technical ceramics) - Thermophysical properties of ceramic composites - Determination of unidimensional thermal diffusivity by flash method, \$68.00

FORENSIC SCIENCES (TC 272)

ISO 21043-2:2018, Forensic sciences - Part 2: Recognition, recording, collecting, transport and storage of items, \$103.00

HEALTH INFORMATICS (TC 215)

ISO/IEEE 11073-20702:2018, Health informatics - Point-of-care medical device communication - Part 20702: Medical devices communication profile for web services, \$185.00

MECHANICAL TESTING OF METALS (TC 164)

ISO 204:2018, Metallic materials - Uniaxial creep testing in tension -Method of test, \$209.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

ISO 4531:2018. Vitreous and porcelain enamels - Release from enamelled articles in contact with food - Methods of test and limits, \$68.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO 9211-7:2018. Optics and photonics - Optical coatings - Part 7: Minimum requirements for neutral beam splitter coatings, \$45.00

PHOTOGRAPHY (TC 42)

ISO 18935:2018. Imaging materials - Colour images - Determination of water resistance of printed colour images, \$68.00

PLAIN BEARINGS (TC 123)

ISO 22507:2018, Plain bearings - Fluid film bearing materials for vehicular turbocharger, \$68.00

PLASTICS (TC 61)

ISO 20457:2018, Plastics moulded parts - Tolerances and acceptance conditions, \$162.00

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

ISO 11297-3:2018. Plastics piping systems for renovation of underground drainage and sewerage networks under pressure -Part 3: Lining with close-fit pipes, \$103.00

ISO 11298-3:2018. Plastics piping systems for renovation of underground water supply networks - Part 3: Lining with close-fit pipes, \$103.00

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

ISO 1835:2018. Round steel short link chains for lifting purposes -Medium tolerance sling chains - Grade 4, stainless steel, \$103.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 127:2018, Rubber, natural latex concentrate - Determination of KOH number, \$68.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

ISO 16304:2018. Ships and marine technology - Marine environment protection - Arrangement and management of port waste reception facilities, \$138.00

STEEL (TC 17)

ISO 15835-3:2018. Steels for the reinforcement of concrete -Reinforcement couplers for mechanical splices of bars - Part 3: Conformity assessment scheme, \$45.00

TEXTILES (TC 38)

ISO 20418-2:2018. Textiles - Qualitative and quantitative proteomic analysis of some animal hair fibres - Part 2: Peptide detection using MALDI-TOF MS, \$138.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO 19638:2018. Intelligent transport systems - Road boundary departure prevention systems (RBDPS) - Performance requirements and test procedures, \$138.00

ISO 17572-2:2018. Intelligent transport systems (ITS) - Location referencing for geographic databases - Part 2: Pre-coded location references (pre-coded profile), \$209.00

TYRES, RIMS AND VALVES (TC 31)

<u>ISO 16992:2018.</u> Passenger car tyres - Spare unit substitutive equipment (SUSE), \$103.00

WATER QUALITY (TC 147)

ISO 20899:2018. Water quality - Plutonium and neptunium - Test method using ICP-MS, \$103.00

ISO Technical Reports

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

<u>ISO/TR 10400:2018</u>, Petroleum and natural gas industries - Formulae and calculations for the properties of casing, tubing, drill pipe and line pipe used as casing or tubing, \$232.00

ISO Technical Specifications

GEARS (TC 60)

<u>ISO/TS 6336-22:2018</u>, Calculation of load capacity of spur and helical gears - Part 22: Calculation of micropitting load capacity, \$185.00

ISO/IEC JTC 1, Information Technology

- <u>ISO/IEC 27011/Cor1:2018</u>, Information technology Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations -Corrigendum, FREE
- <u>ISO/IEC 14496-3/Amd7:2018</u>, Information technology Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations - SBR enhancements, \$19.00
- ISO/IEC 14763-3/Amd1:2018, Information technology Implementation and operation of customer premises cabling Part
 3: Testing of optical fibre cabling Amendment 1, \$103.00
- ISO/IEC 14496-26/Amd5:2018, Information technology Coding of audio-visual objects - Part 26: Audio conformance - Amendment 5: Conformance for new levels of ALS simple profile, SBR enhancements, \$19.00
- <u>ISO/IEC 30141:2018</u>, Internet of Things (IoT) Reference Architecture, \$232.00
- ISO/IEC 19823-19:2018, Information technology Conformance test methods for security service crypto suites - Part 19: Crypto suite RAMON. \$103.00
- <u>ISO/IEC 29110-4-3:2018</u>. Systems and software engineering -Lifecycle profiles for very small entities (VSEs) - Part 4-3: Service delivery - Profile specification, \$209.00

IEC Standards

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

- IEC 61784-5-2 Ed. 4.0 en:2018, Industrial communication networks -Profiles - Part 5-2: Installation of fieldbuses - Installation profiles for CPF 2, \$410.00
- IEC 61784-5-3 Ed. 4.0 en:2018, Industrial communication networks -Profiles - Part 5-3: Installation of fieldbuses - Installation profiles for CPF 3, \$375.00
- IEC 61784-5-6 Ed. 4.0 en:2018, Industrial communication networks -Profiles - Part 5-6: Installation of fieldbuses - Installation profiles for CPF 6, \$317.00
- IEC 61784-5-8 Ed. 2.0 en:2018, Industrial communication networks -Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8, \$352.00

- IEC 61784-5-12 Ed. 2.0 en:2018. Industrial communication networks Profiles Part 5-12: Installation of fieldbuses Installation profiles for CPF 12, \$164.00
- IEC 61784-5-18 Ed. 2.0 en:2018, Industrial communication networks -Profiles - Part 5-18: Installation of fieldbuses - Installation profiles for CPF 18, \$164.00
- IEC 61784-5-20 Ed. 1.0 en:2018, Industrial communication networks -Profiles - Part 5-20: Installation of fieldbuses - Installation profiles for CPF 20, \$281.00
- IEC 61784-5-21 Ed. 1.0 en:2018, Industrial communication networks -Profiles - Part 5-21: Installation of fieldbuses - Installation profiles for CPF 21, \$164.00

MEASURING EQUIPMENT FOR ELECTROMAGNETIC QUANTITIES (TC 85)

- <u>IEC 60051-2 Ed. 5.0 b:2018.</u> Direct acting indicating analogue electrical measuring instruments and their accessories Part 2: Special requirements for ammeters and voltmeters, \$117.00
- <u>IEC 60051-3 Ed. 5.0 b:2018.</u> Direct acting indicating analogue electrical measuring instruments and their accessories Part 3: Special requirements for wattmeters and varmeters, \$117.00
- IEC 60051-4 Ed. 5.0 b:2018, Direct acting indicating analogue electrical measuring instruments and their accessories title - Part 4: Special requirements for frequency meters, \$82.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

- IEC 61853-3 Ed. 1.0 b:2018. Photovoltaic (PV) module performance testing and energy rating - Part 3: Energy rating of PV modules, \$82.00
- <u>IEC 61853-4 Ed. 1.0 b:2018</u>, Photovoltaic (PV) module performance testing and energy rating - Part 4: Standard reference climatic profiles, \$23.00

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

For further information about the USA TBT Inquiry Point, please visit:

https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point

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

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

SCTE is currently seeking to broaden the membership base of its 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 a materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

PINS Correction

BSR/NFPA 1410-201x

The 11/10/2017 PINS notice for BSR/NFPA 1410-201x, Standard on Training for Emergency Scene Operations, mistakenly listed the designation as NFPA 1401.

NOTE: This NFPA standard also appears in the Call for Comment section of this same issue of Standards Action.

ANSI Accredited Standards Developers

Application for Accreditation

DirectTrust.org, Inc.

Comment Deadline: October 8, 2018

DirectTrust.org, Inc., a new ANSI member, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on DirectTrust-sponsored American National Standards. DirectTrust's proposed scope of standards activity is as follows:

Develop and maintain standards that enable and promote healthcare interoperability using Direct exchange and trust frameworks

To obtain a copy of DirectTrust's application and proposed operating procedures or to offer comments, please contact: Ms. Ginna Yost, P.O. Box 2885, Blairsville, GA 30514; phone: 706.897.5797; e-mail: admin@directtrust.org. Please submit any comments to DirectTrust by October 8, 2018, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: Jthompso@ANSI.org). As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of DirectTrust's proposed operating procedures from ANSI Online during the public review period at the following URL: www.ansi.org/accredPR.

Approval of Reaccreditation

Association for Challenge Course Technology (ACCT)

ANSI's Executive Standards Council has approved the reaccreditation of the Association for Challenge Course Technology (ACCT), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on ACCT-sponsored American National Standards, effective September 4, 2018. For additional information, please contact: Mr. Shawn Tierney, Executive Director, Association for Challenge Course Technology, P.O. Box 80308; phone: 303.328.5978; e-mail: shawn@acctinfo.org.

International Organization for Standardization

Establishment of ISO Project Committee

ISO/PC 320 – Tableware, Giftware, Jewellery, Luminaries – Glass Clarity – Classification and Test Method

A new ISO Project Committee, ISO/PC 320 - Tableware, giftware, jewellery, luminaries - Glass clarity - Classification and test method, has been formed. The Secretariat has been assigned to France (AFNOR).

ISO/PC 320 operates under the following scope:

Standardization in the field of tableware, giftware, jewellery, luminaries - Glass clarity - Classification and test method.

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

ISO Proposal for a New Field of ISO Technical Activity

Sharing Economy

Comment Deadline: October 19, 2018

JISC, the ISO member body for Japan, has submitted to ISO a proposal for a new field of ISO technical activity on Sharing Economy, with the following scope statement:

Standardization in the field of sharing economy.

Excluded: Technical aspects of information security or risk management guidelines already covered by ISO/IEC JTC 1/SC27 and ISO/TC 262, respectively.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, October 19

Meeting Notices

Accredited Standards Committee (ASC) B109 Standards B109.1, B109.2, B109.3, and B109.4

Meeting Date: October 22, 2018; 8:00 AM – 4:00 PM CST

Meeting Location: Omni Forth Worth Hotel, 1300 Houston Street, Fort Worth, Texas (Teleconference information available upon request)

Purpose: This is the annual ANSI B109 meeting. Updates will be given for each of the B109 standards. Breakout sessions for B109.1, B109.2, B109.3, and B109.4 will follow the main meeting.

Please register on line at www.aga.org. For more information, contact Jeff Meyers, jmeyers@aga.org.

Accredited Standards Committee Z87 on Safety Standards for Eye Protection

The Accredited Standards Committee Z87 on Safety Standards for Eye Protection will next meet as noted:

Wednesday, October 10, 2018 9:00 AM – 4:00 PM 3M Innovation Center 1425 K Street, NW #300 Washington, DC 20005

Meeting space is limited and is available on a first-come, first-serve basis. If you have questions or are interested in attending the Z87 Committee meeting, please contact Cristine Z. Fargo, Director - Member and Technical Services at 703-525-1695 or cfargo@safetyequipment.org.

ASC Z133 Committee (Safety Standards for Arboricultural Operations)

The next meeting of the ASC Z133 Committee (Safety Standards for Arboricultural Operations) for the 2022 Revision Cycle has been established as follows:

Date: October 10, 2018

Time: 8:00 am - 5:00 pm (Breakfast from 7am - 8am)

Room: Concourse B

Location: Hilton Baltimore BWI Airport

1739 West Nursery Road Linthicum Heights, MD 21090

Contact: Alex Julius

Phone: (217) 355-9411, ext. 235 E-Mail: ajulius@isa-arbor.com www: www.isa-arbor.com

ANSI Z359 Committee

The American Society of Safety Professionals (ASSP) serves as the secretariat of the ANSI Z359 Committee for Fall Arrest/Protection.

The next meeting of the Z359 Committee will take place on November 6, 7, and 8, 2018 in Schaumburg, IL. Those interested in participating can contact ASSP for additional information at OMunteanu@assp.org.

International Organization for Standardization (ISO)

Establishment of ISO Technical Committee

ISO/TC 321 – Transaction Assurance in E-Commerce

A new ISO Technical Committee, ISO/TC 321 – *Transaction assurance in E-commerce*, has been formed. The Secretariat has been assigned to China (SAC).

ISO/TC 321 operates under the following scope:

Standardization in the field of "transaction assurance and upstream/downstream directly related processes in e-commerce", including the following:

- The assurance of transaction process in e-commerce (including easier access to e-platforms and e-stores);
- The protection of online consumer rights including both prevention of online disputes and resolution process;
- The interoperability and admissibility of commodity quality inspection result in cross-border ecommerce.
- The assurance of e-commerce delivery to the final consumer.

Excluded:

- Management system standards already covered by ISO/TC 176:
- Authenticity, integrity and trust for products and documents standards already covered by ISO/TC 292/WG4;
- Guidelines on consumer warranties and guarantees standards already covered by ISO/PC 303;
- Meta-standards of information interchange standards already covered by ISO/TC 154;
- Cross-border trade of second-hand goods standards already covered by ISO/PC 245;
- Brand evaluation standards already covered by ISO/TC 289;
- Online reputation standards already covered by ISO/TC 290;
- Financial services standards already covered by ISO/TC 68;
- Identity management standards already covered by ISO/IEC/JTC 1/SC 27/WG 5;
- Meta-standards of data management and interchange already covered by ISO/IEC/JTC 1/SC 32;
- Biometrics standards already covered by ISO/IEC/JTC 1/SC 37.

Since the payment and security of the transaction are very important in e-commerce, the proposed new technical committee will cooperate with ISO/TC 68 (Financial services), ISO/IEC/JTC1/SC 27 (IT Security techniques) and other TC via a liaison membership. If request for developing new standards for e-commerce in those TCs arose, the proposed new TC would work with them to develop the needed standards."

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

ACCT Consensus Group Announcement

The Association for Challenge Course Technology (ANSI Accredited Standards Developer) is currently accepting applications from individuals willing to serve on the ACCT Consensus Group.

Membership is open to all interested parties having a direct and material interest in the activities of the Consensus Group. Selections by the Consensus Group shall give consideration to:

- ✓ need for active participation by members
- ✓ need for balance
- ✓ extent of interest expressed and willingness to participate
- ✓ qualifications and ability to materially contribute

To apply for consideration as a member of the ACCT Consensus Group, please contact the ACCT Executive Director for an electronic copy of the application form:

Shawn Tierney, Executive Director shawn@acctinfo.org (303) 827-2432

Complete and return your applications electronically

Call for Members

American Academy of Forensic Sciences – Academy's Standards Board (ASB)

Application Deadline: September 14, 2018

The ASB is currently accepting applications for openings in the consensus bodies. In order to maintain a specific balance across interest categories, the ASB is soliciting members only in these interest categories.

Click here for a detailed description of the Interest Categories: https://asb.aafs.org/wp-content/uploads/2017/07/Interest Categories 2017.pdf

Anthropology: Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Government (federal, state, and local), User/Industry

Bloodstain Pattern Analysis: Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Industry

Disaster Victim Identification: Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Government (federal, state, and local), User/Industry

DNA: Academia, Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Industry

Dogs and Sensors: soliciting members in all categories

Firearms and Toolmarks: Academia, Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Government (federal, state, and local), User/Industry

Footwear and Tire Tracks: soliciting members in all categories

Forensic Document Examination: Academia, Consumer Groups, General Interest, Producers, Subject Matter Experts, User/Government (federal, state, and local), User/Industry

Friction Ridge: Academia, Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, Subject Matter Experts, User/Industry

Medicolegal Death Investigation: Academia, Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, User/Industry

Toxicology: Academia, Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, Subject Matter Experts, User/Government (federal, state, and local), User/Industry (This Consensus Body is specifically seeking individuals impacted by breath alcohol standards.)

Wildlife: Consumer Groups, General Interest, Laboratories and or Testing Facilities, Producers, Subject Matter Experts, User/Government (federal, state, and local), User/Industry

The application for membership can be downloaded from the Consensus Body informational area of the ASB website: https://asb.aafs.org/consensus-bodies/.

Please complete the application by September 14, 2018 and send it to asb@aafs.org.



BSR/ASHRAE Addendum b to ANSI/ASHRAE Standard 55-2017

Public Review Draft

Proposed Addendum b to Standard 55-2017, Thermal Environmental Conditions for Human Occupancy

First Public Review (August 2018)
(Draft shows Proposed Changes to Current Standard)

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

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 ASHARE 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

First Public Review Draft

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

FOREWORD

This proposed addendum updates the computer code for calculation of PMV-PPD using the JavaScript language to ease the use of the code in modern software applications. The updated code also includes errata previously published for Standard 55-2013 and aligns the code with requirements in Standard 55-2017.

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

Addendum b to 55-2017

Revise Normative Appendix B as shown below.

(This is a normative appendix and is part of this standard.)

NORMATIVE APPENDIX B COMPUTER PROGRAM FOR CALCULATION OF PMV-PPD

(Reference Annex D of ISO 7730⁴. Used with permission from ISO. For additional technical information and an I-P version of the equations in this appendix, refer to the ASHRAE Thermal Comfort Tool³ referenced in Section 8 of this standard. The Thermal Comfort Tool allows for I-P inputs and outputs, but the algorithm is implemented in SI units.)

The following code is one implementation of the PMV-PPD calculation using JavaScript in SI units. This calculation does not include discomfort risk due to local discomfort factors.

```
pmv = function(ta, tr, vel, rh, met, clo, wme) {
    // returns [pmv, ppd]
    // ta, air temperature (°C)
    // tr, mean radiant temperature (°C)
    // vel, relative air velocity (m/s)
    // rh, relative humidity (%) Used only this way to input humidity level
    // met, metabolic rate (met)
    // clo, clothing (clo)
    // wme, external work, normally around 0 (met)

var pa, icl, m, w, mw, fcl, hcf, taa, tra, tcla, p1, p2, p3, p4,
    p5, xn, xf, eps, hcn, hc, tcl, hl1, hl2, hl3, hl4, hl5, hl6,
    ts, pmv, ppd, n;

pa = rh * 10 * exp(16.6536 - 4030.183 / (ta + 235));
```

icl = 0.155 * clo; //thermal insulation of the clothing in M2K/W

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```
m = met * 58.15; //metabolic rate in W/M2
  w = wme * 58.15; //external work in W/M2
  mw = m - w; //internal heat production in the human body
  if (icl \leq 0.078) fcl = 1 + (1.29 * icl);
  else fcl = 1.05 + (0.645 * icl);
  //heat transf. coeff. by forced convection
  hcf = 12.1 * sqrt(vel);
  taa = ta + 273;
  tra = tr + 273;
  tcla = taa + (35.5 - ta) / (3.5 * icl + 0.1);
p1 = icl * fcl;
 p2 = p1 * 3.96;
  p3 = p1 * 100;
  p4 = p1 * taa;
  p5 = 308.7 - 0.028 * mw + p2 * pow(tra / 100, 4);
xn = tcla / 100;
  xf = tcla / 50;
 eps = 0.00015;
  n = 0;
 while (abs(xn - xf) > eps) {
    xf = (xf + xn) / 2;
    hcn = 2.38 * pow(abs(100.0 * xf - taa), 0.25);
    if (hcf > hcn) hc = hcf;
    else hc = hcn;
    xn = (p5 + p4 * hc - p2 * pow(xf, 4)) / (100 + p3 * hc);
    ++n;
    if (n > 150) {
       alert('Max iterations exceeded');
      return 1;
tcl = 100 * xn - 273;
  // heat loss diff. through skin
  h11 = 3.05 * 0.001 * (5733 - (6.99 * mw) - pa);
  // heat loss by sweating
  if (mw > 58.15) hl2 = 0.42 * (mw - 58.15);
  else h12 = 0;
  // latent respiration heat loss
  h13 = 1.7 * 0.00001 * m * (5867 - pa);
  // dry respiration heat loss
  hl4 = 0.0014 * m * (34 - ta);
  // heat loss by radiation
  hl5 = 3.96 * fcl * (pow(xn, 4) - pow(tra / 100, 4));
  // heat loss by convection
  hl6 = fcl * hc * (tcl - ta);
  ts = 0.303 * exp(-0.036 * m) + 0.028;
  pmv = ts * (mw - hl1 - hl2 - hl3 - hl4 - hl5 - hl6);
ppd = 100.0 - 95.0 * exp(-0.03353 * pow(pmv, 4.0) - 0.2179 * pow(pmv, 2.0));
  var r = \{\}
```

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```
r.pmv = pmv;
     r.ppd = ppd;
      return r
10
       REM
                 'Computer program (BASIC) for calculation of
20
       REM
                 'Predicted Mean Vote (PMV) and Predicted Percentage of Dissatisfaction (PPD)
       REM
                 'in accordance with ISO 7730
30
40
       CLS:
                 Print "Data Entry"
                                                                           : 'data entry
       INPUT
                                                              <del>(clo)"</del>
50
                 " Clothing
                                                                           ; CLO
60
       INPUT
                 " Metabolic rate
                                                              (met)"
                                                                           ; MET
70
       INPUT
                 " External work, normally around 0
                                                               (met)"
                                                                           ; WME
       INPUT
                                                               <del>(C)</del>"
                                                                           ; TA
80
                 " Air Temperature
                                                               <del>(C)</del>"
90
       INPUT
                 " Mean radiant temperature
                                                                           ; TR
       INPUT
100
                 " Relative air velocity
                                                               (m/s)"
                                                                           : VEL
                 " ENTER EITHER RH OR WATER VAPOR PRESSURE BUT NOT BOTH"
110
       PRINT
120
       INPUT
                 " Relative humidity
                                                               <del>(%)</del>"
                                                                           ; RH
130
       INPUT
                 " Water vapor pressure
                                                                 (Pa)"
                                                                           ; PA
140
                                                                           : ' saturated vapor pressure KPa
       DEF FNPS (T) = \exp(16.6536-4030.183/(TA+235))
150
       IF PA=0 THEN PA=RH*10*FNPS (TA)
                                                                           : 'water vapor pressure, Pa
       ICL = .155 * CLO
                                                                           : 'thermal insulation of the clothing in m<sup>2</sup>K/W
160
170
       M = MET * 58.15
                                                                           : ' metabolic rate in W/m<sup>2</sup>
       W = WME * 58.15
180
                                                                           : 'external work in W/m<sup>2</sup>
190
       MW = M - W
                                                                           : 'internal heat production in the human body
<del>200</del>
       IF ICL < .078 THEN FCL = 1 + 1.29 * ICL ELSE FCL = 1.05 + .645*ICL
205
                                                                             ' clothing area factor
210
       HCF = 12.1*SQR (VEL)
                                                                           : ' heat transf. coefficient by forced convection
<del>220</del>
       TAA = TA + 273
                                                                           : 'air temperature in Kelvin
       TRA = TR + 273
230
                                                                           : ' mean radiant temperature in Kelvin
240
                     CACULATE SURFACE TEMPERATURE OF CLOTHING BY ITERATION
<del>250</del>
       TCLA = TAA + (35.5-TA) / (3.5*(6.45*ICL+.1))
255
       ' first guess for surface temperature of clothing
260
       P1 = ICL * FCL
                                                                           : 'calculation term
       P2 = P1 * 3.96
270
                                                                           : 'calculation term
280
       P3 = P1 * 100
                                                                           : 'calculation term
290
       P4 = P1 * TAA
                                                                           : 'calculation term
       P5 = 308.7 - .028 * MW + P2 * (TRA/100) \wedge 4
300
                                                                           : 'calculation term
310
       XN = TCLA / 100
320
       XF = XN
<del>330</del>
       N=0
                                                                           : 'N: number of iterations
340
       EPS = .00015
                                                                           : 'stop criteria in iteration
350
       XF = (XF+XN)/2
355
       'heat transf. coeff. by natural convection
       HCN=2.38*ABS(100*XF TAA)^.25
360
370
       IF HCF>HCN THEN HC=HCF ELSE HC=HCN
380
       XN=(P5+P4*HC-P2*XF^4) / (100+P3*HC)
390
       N=N+1
400
       IF N > 150 then goto 550
       IF ABS(XN-XF). EPS then goto 350
410
420
       TCL=100*XN 273
                                                                           : 'surface temperature of the clothing
430
                                  HEAT LOSS COMPONENTS
435
       "heat loss diff. through skin
440
       HL1 = 3.05*.001*(5733~6.99*MW~PA)
445
       'heat loss by sweating (comfort)
450
       IF MW > 58.15 THEN HL2 = .42 * (MW-58.15)
```

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END

	ELSE HL2 = 0!					
455	<u>Latent respiration heat loss</u>					
460	HL3 = 1.7 * .00001 * M * (5867-PA)					
4 65	'dry respiration heat loss'					
470	HL4 = .0014 * M * (34 TA)					
475	'heat loss by radiation					
480	$HL5 = 3.96 * FCL*(XN^4 (TRA/100)^4)$					
485	' heat loss by convection					
490	HL6 = FCL * HC * (TCL-TA)					
500	CALCULATE PMV AND PPD					
505	'thermal sensation trans. Coeff.					
510	TS = .303 * EXP(036*M) + .028					
515	' predicted mean vote					
520	PMV = TS * (MW HL1 HL2 HL3 HL4 HL5 HL6)					
525	' predicted percentage dissat.					
530	PPD=100 95*EXP(.03353*PMV^4 .2179*PMV^2)					
540	goto 570					
550	PMV = 99999!					
560	PPD 100					
570	PRINT: PRINT "OUTPUT"					
580	PRINT "Predicted Mean Vote (PMV) : "					
	;: PRINT USING "###.###"; PMV					
590	PRINT "Predicted Percentage of Dissatisfied (PPD) : "					
	;: PRINT USING ###.###": PPD					
600	PRINT: INPUT "NEXT RUN (Y/N)"; R\$					
610	If (R\$="Y" or R\$="y") THEN RUN					

<u>Validation Table EXAMPLE</u> Values used to generate the comfort envelope in Figure 5.3.1.

Run	Air Temp.		RH Radiant Temp.		Air Speed		Met.	CLO	PMV	PPD %	
#	°F	C	%	$^{\circ}\mathbf{F}$	C	FPM	m/s				
1	67.3	19.6	86	67.3	19.6	20	0.10	1.1	1	<u>-0.47</u> -0.5	10
2	75.0	23.9	66	75.0	23.9	20	0.10	1.1	1	<u>0.48 </u>	10
3	78.2	25.7	15	78.2	25.7	20	0.10	1.1	1	0.5 <u>3</u>	10
4	70.2	21.2	20	70.2	21.2	20	0.10	1.1	1	<u>-0.48</u> -0.5	10
5	74.5	23.6	67	74.5	23.6	20	0.10	1.1	0.5	<u>-0.47</u> -0.5	10
6	80.2	26.8	56	80.2	26.8	20	0.10	1.1	0.5	0.5 <u>2</u>	10
7	82.2	27.9	13	82.2	27.9	20	0.10	1.1	0.5	0.5 <u>0</u>	10
8	76.5	24.7	16	76.5	24.7	20	0.10	1.1	0.5	<u>-0.49</u> -0.5	10

Note: In every case listed above the PMV result corresponds to a calculated PPD of 10%.



BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 55-2017

Public Review Draft

Proposed Addendum c to Standard 55-2017, Thermal Environmental Conditions for Human Occupancy

First Public Review (August 2018)
(Draft shows Proposed Changes to Current Standard)

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

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

BSR/ASHRAE Addendum c to ANSI/ASHRAE Standard 55-2017, *Thermal Environmental Conditions for Human Occupancy*First Public Review Draft

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FOREWORD

This proposed addendum adds a requirement for projects demonstrating compliance through Section 5.3.1, 5.3.2, or 5.3.3, design compliance to indicate the Comfort Control Classification Levels proposed through the addendum.

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

Addendum c to 55-2017

Modify Section 3 Definitions as shown below. The remainder of Section 3 is unchanged.

corrective power (CP): the ability of a PCS system expressed in degrees (°C, °F) to "correct" thermal conditions toward the comfort zone, measured as the difference between two operative temperatures at which equal thermal sensation is achieved - one a temperature in the comfort zone with no PCS, and one with PCS in use, with all other environmental factors held constant.

personal comfort system (PCS): a device to heat and/or cool individual occupants directly or heat and/or cool the immediate thermal environment of an individual occupant, under the control of the occupant without affecting the thermal environment of other occupants.

personal environment: the thermal environment immediately surrounding an occupant

readily accessible: capable of being reached quickly for operation without requiring those for whom ready access is required to climb over or remove obstacles or to resort to portable ladders, chairs, or other climbing aids.

thermal zone: an area of a building designated by the designer such that the comfort zone is maintained within the occupied zone by local controls for its representative occupant(s).

Modify Section 6 Design Compliance as shown below.

6.1 Design. Building systems (i.e., combinations of mechanical systems, control systems, and thermal enclosures) shall be designed so that at outdoor and indoor design conditions they are able to maintain the occupied space(s) at indoor thermal conditions specified by one of the methods in this standard.

The building systems shall be designed so that they are able to maintain the occupied space(s) within the ranges specified for internal conditions in this standard, and within the range of expected operating conditions (indoor and outdoor).

6.1.1 Design Comfort Control Classification

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For all projects demonstrating compliance through Section 5.3.1, 5.3.2, or 5.3.3, design compliance shall indicate the Comfort Control Classification Level in accordance with Table 6.1 of each space type within the building.

Table 6.1 Comfort Control Classification Levels

Comfort Control Classification Level	Control Measure(s) for Environmental Factors Required to Achieve Level	Informative Examples Meeting Comfort Control Classification Levels
1	Each occupant is provided two or more control measures for their personal environment	 Private office with a ceiling fan and an occupant adjustable thermostat Shared office with desktop fans and foot warmers for each occupant
2	Each occupant is provided one control measure for their personal environment	Private office with an occupant adjustable thermostat Shared office with a desktop fan for each occupant
3	The room or <i>thermal zone</i> provides multi-occupant control of at least two control measures in their shared environment.	Shared office with an occupant adjustable thermostat and ceiling fan control
4	The room or <i>thermal zone</i> provides multi-occupant control of one control measure in their shared environment.	Shared office with an occupant adjustable thermostat
<u>5</u>	No occupant control of any environmental factors	Shared or private office with an unadjustable thermostat or no thermostat

Each Control Measure for Environmental Factors shall be *readily accessible* to occupants, when occupancy is expected and be either (1) or (2)

- 1. A user-adjustable thermostat with ability of user to change setpoint by +/-3 °C (+/-5 °F)
- 2. Capable of changing the thermal environment of the space or individual occupant by the magnitude specified in either 6.1.1.2. a. or b. in 15 minutes or less from occupant control initiation, while met and clo values are constant. For control measures that apply to a multi-occupant space, the change must meet the requirements for all representative occupants.
 - a. Cooling: At design cooling condition, the measure shall change PMV by -0.5 or
 - i. Average air temperature by 3°C (-5 °F)
 - ii. Average air speed by + 0.3 m/s (60 fpm)
 - iii. Mean radiant temperature by 3°C (-5 °F)
 - iv. For personal comfort systems, the measure shall be listed in Table 6.2 or have a minimum corrective power of 2°C (-4 °F).
 - b. Heating: At design heating condition, the measure shall change PMV by +0.5 or
 - i. Average air temperature by + 3°C (5 °F)
 - ii. Mean radiant temperature by + 3°C (5 °F)
 - iii. For personal comfort systems, the measure shall be listed in Table 6.2 or have a minimum corrective power of + 2°C (4 °F)

Informative Note: A single device that is capable of changing PMV in both directions (a and b above) is counted as a single control measure. For example, a thermostat that can affect the temperature in the space by -0.5 and +0.5 PMV counts as one control measure, not two.

Table 6.2 Prescriptively Compliant Personal Comfort Systems

<u>Description</u> <u>Requirements</u>	
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Cooling					
Desk fan aimed at head/face/upper body	Capable of providing air speed at the occupant's head/face/upper body within				
	range of 0.36 – 0.8 m/s (70.9 – 157.5 fpm)				
Cooled chair	Capable of extracting 20 watts from the body				
Heating					
Footwarmer	Capable of adding 6 W to the body				
Heated chair	Capable of adding 14 W to the body				

6.2 Documentation The method and design conditions appropriate for the intended use of the building shall be selected and documented as follows.

Informative Note: Some of the requirements in items (a) through (h) below are not applicable to naturally conditioned buildings.

- a. The method of design compliance shall be stated for each space and/or system: Graphic Comfort Zone Method (Section 5.3.1), Analytical Comfort Zone Method (Section 5.3.2), Elevated Air Speed Comfort Zone Method (Section 5.3.3), or the use of Section 5.4 for Occupant-Controlled Naturally Conditioned Spaces.
- b. The design operative temperature (*t_o*) and humidity (including any tolerance or range), the design outdoor conditions (see 2009 *ASHRAE Handbook—Fundamentals*¹, Chapter 14), and total indoor loads shall be stated. The design exceedance hours (see Section 3, "Definitions") shall be documented based on the design conditions used.
- c. Values assumed for comfort parameters used in the calculation of thermal conditions, including operative temperature t_o , humidity, average air speed V_a , clothing insulation I_{cl} , and metabolic rate, shall be stated for heating and cooling design conditions. If an acceptable level of comfort is not being provided to any representative occupants, this shall be stated. Where Table 5.2.1.2 gives a range, the basis for selecting a single value within that range shall be stated. If the clothing insulation or metabolic rate parameters for a given space are outside the applicable bounds defined by the standard, or if the space is not regularly occupied as defined in Section 2.3, the space shall be clearly identified as not under the scope of the standard.
- d. Local thermal discomfort shall be addressed, at a minimum, by a narrative explanation of why an effect is not likely to exceed Section 5 limits. Where calculations are utilized to determine the effect of local thermal discomfort in accordance with Section 5, the calculation inputs, methods, and results shall be stated.
- e. System equipment capacity shall be provided for each space and/or system documenting performance meeting the design criteria stated. For each unique space, the design system or equipment heating and/or cooling capacity shall meet the thermal loads calculated under the heating and cooling design conditions stated for compliance with this standard.
- f. Where elevated air speed with occupant control is employed to provide acceptable thermal conditions, documentation shall be provided to identify the method and equipment for occupant control.
- g. Air speed, radiant temperature asymmetry, vertical air-temperature difference, surface temperatures, and temperature variations with time shall be determined in accordance with generally accepted engineering standards (e.g., *ASHRAE Handbook—HVAC Applications*, Chapter 57). The method used and quantified selection criteria, characteristics, sizes, and indices that are applicable to the method shall be stated.
- h. When direct beam solar radiation falls on a representative occupant, documentation shall include solar design condition (solar altitude, direct beam intensity), the method in Section 5.3.2.2.1 used for compliance, and the resultant mean radiant temperature t_r .

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i. Comfort Control Classification Level shall be documented for each space type with supporting calculations and design documents indicating the Control Measure(s) for Environmental Factors, the means of control, and the degree to which control changes the environmental factor.

Informative Note: See Informative Appendix K for sample compliance documentation.

Modify Section 7.2.1 as shown below.

7.2.2.1 Mechanically Conditioned Spaces. Use Section 5.3.1.2 to determine the PMV-based comfort zone for the occupants' expected clothing and metabolic rate. The modeled clothing and activity levels of the occupants must be as observed or as expected for the use of the indoor space in question. Use Section 5.3.3 to adjust the comfort zone's lower and upper operative temperature limits for elevated air movement. Occupied zone conditions must also conform to requirements for avoiding local thermal discomfort (as specified in Section 5.3.4) and to limits to rate of temperature change over time, as specified in Section 5.3.5.

Parameters to be measured and/or recorded include the following:

- a. Occupant metabolic rate (met) and clothing (clo) observations
- b. Air temperature and humidity
- c. Mean radiant temperature $\overline{t_r}$, unless it can be otherwise demonstrated that, within the space, $\overline{t_r}$ is within 1°C (2°F) of t_a
- d. Average air speed, unless it can be otherwise demonstrated that, within the space, average air speed V_a meets the requirements of Section 5.3.3
- e. Control measures for environmental factors

Modify Section 7.3.3 as shown below.

7.3.3 Timing of Physical Measurements. Measurement periods shall span two hours or more and, in addition, shall represent a sample of the total occupied hour s in the period selected for evaluation (year, season, or typical day) or shall take place during periods directly determined to be the critical hours of anticipated occupancy.

Measurement intervals for air temperature, mean radiant temperature $\bar{t_r}$, and humidity shall be five minutes or less, and for average air speed shall be three minutes or less.

Assessment of control measures for occupant control of environmental factors shall be evaluated for compliance with the requirements of Section 6.1.1 including: accessibility, time response and magnitude of PMV influence.



BSR/ASHRAE/IES Addendum dn to ANSI/ASHRAE/IES Standard 90.1-2016

Public Review Draft

Proposed Addendum dn to Standard 90.1-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings

Second Public Review (September 2018) (Draft Shows Proposed Changes to Current Standard)

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

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.

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BSR/ASHRAE/IES Addendum dn to ANSI/ASHRAE Standard 90.1-2016, Energy Standard Stier Bushching Den Tee 20 180 W Page 67 of 89 pages Residential Buildings
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FOREWORD

This addendum revises two exceptions to requirement to use energy recovery in section 6.5.6.1.

One change limits the exception for solar heating to cooler climates.

The second clarifies the exemption for the use of "energy recovery in series with the cooling coil" by creating a new definition for series energy recovery. This definition is required because some users of the standard have confused condenser heat recovery and site-recovered energy with series energy recovery. They are quite different.

There is also a new definition that defines the performance of series energy recovery. The purpose is to ensure that the series energy recovery system performs well enough to justify allowing it to be used in lieu of conventional energy recovery. The format of the standard does not allow formulas to be used in a definition, so the series energy recovery ratio is described in text. For clarity, the formula is shown here:

$$SERR = (T_L - T_C)/(T_E - T_C)$$

Where

SERR = *Series energy recovery ratio*

 T_L = Rated dry bulb temperature of the air leaving the device.

 $T_C = Dry$ bulb temperature of the air leaving the dehumidifying cooling coil

 $T_E = Dry$ bulb temperature of the air entering the first step of 75 ^{0}F

In addition, the exemption for series energy recovery has been limited to warmer climate zones.

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

Addendum DN to 90.1-2016

3.2 Definitions

<u>energy recovery, series:</u> A three-step process in which the first step is to remove energy from a single airstream without the use of mechanical cooling. In the second step the air stream is mechanically cooled for the purpose of dehumidification. In the third step the energy removed in step one is reintroduced to the air stream.

energy recovery ratio, series (SERR): The difference between the dry bulb air temperatures leaving the series energy recovery unit and leaving the dehumidifying coil divided by the difference between 75°F (24°C) and the dry bulb temperature of the air leaving the dehumidifying cooling coil.

3.3 Abbreviations and Acronyms

SERR series energy recovery ratio

6.5.6.1 Exhaust Air Energy Recovery

Each fan *system* shall have an *energy* recovery *system* when the design supply fan airflow rate exceeds the value listed in Tables <u>6.5.6.1-1</u> and <u>6.5.6.1-2</u>, based on the climate zone and percentage of *outdoor air* at design airflow conditions. Table <u>6.5.6.1-1</u> shall be used for all *ventilation systems* that operate less than 8000 hours per year, and Table <u>6.5.6.1-2</u> shall be used for all *ventilation systems* that operate 8000 or more hours per year.

Energy recovery systems required by this section shall result in an enthalpy recovery ratio of at least 50%. A 50% enthalpy recovery ratio shall mean a change in the enthalpy of the outdoor air supply equal to 50% of the difference between the outdoor air and entering exhaust air enthalpies at design conditions. Provision shall be made to bypass or control the energy recovery system to permit air economizer operation as required by Section 6.5.1.1

Exceptions to 6.5.6.1

- 1. Laboratory systems meeting Section <u>6.5.7.3</u>.
- 2. Systems serving spaces that are not cooled and that are heated to less than 60°F.
- 3. Heating energy recovery where more than 60% of the *outdoor air* heating *energy* is provided from *site-recovered energy* or *site-solar energy*-in Climate Zones 5 through 8.
- 4. Heating *energy* recovery in Climate Zones 0, 1, and 2.
- 5. Cooling *energy* recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7, and 8.
- 6. Where the sum of the airflow rates exhausted and relieved within 20 ft of each other is less than 75% of the design outdoor airflow rate, excluding exhaust air that is
 - a. used for another *energy* recovery *system*,
 - b. not allowed by ASHRAE Standard 170 for use in *energy* recovery *systems* with leakage potential, or
 - c. of Class 4 as defined in ASHRAE Standard 62.1.
- 7. Systems in Climate Zones 0 through 4 requiring dehumidification that employ *series energy* recovery recovery in series with the cooling coil. and have a minimum SERR of 0.40.
- 8. *Systems* expected to operate less than 20 hours per week at the *outdoor air* percentage covered by Table <u>6.5.6.1-1</u>.

Table 6.5.6.1.2-1 Exhaust Air *Energy* Recovery Requirements for *Ventilation Systems* Operating Less than 8000 Hours per Year

(no changes to table)

Table 6.5.6.1.2-2 Exhaust Air *Energy* Recovery Requirements for *Ventilation Systems* Operating Greater than or Equal to 8000 Hours per Year

(no changes to table)

NOTE TO REVIEWER: Section 6.5.6.1 is also modified by addenda H and AM, which are approved, and in preparation for publication. The following shows how section 6.5.6.1 will appear when this addendum and addenda H and AM are combined. Additional changes needed to combine this addendum with prior addendum are shown in strikeout and underline. Such changes do not change the substantive nature of prior approved addenda and are not available for comment.

6.5.6.1 Exhaust Air Energy Recovery

Each fan *system* shall have an *energy* recovery *system* when the design supply fan airflow rate exceeds the value listed in Tables <u>6.5.6.1-1</u> and <u>6.5.6.1-2</u>, based on the climate zone and percentage of *outdoor air* at design airflow conditions. Table <u>6.5.6.1-1</u> shall be used for all *ventilation systems* that operate less than 8000 hours per year, and Table <u>6.5.6.1-2</u> shall be used for all *ventilation systems* that operate 8000 or more hours per year.

Energy recovery systems required by this section shall result in an enthalpy recovery ratio of at least 50%. A 50% enthalpy recovery ratio shall mean a change in the enthalpy of the outdoor air supply equal to 50% of the difference between the outdoor air and entering exhaust air enthalpies at design conditions. The energy recovery system shall provide the required enthalpy recovery ratio at both heating and cooling design conditions, unless one mode is not required for the climate zone by the exceptions below. Provision shall be made to bypass or control the energy recovery system to permit air economizer operation as required by Section 6.5.1.1

Exceptions to 6.5.6.1

- 1. Laboratory systems meeting Section 6.5.7.3.
- 2. Systems serving spaces that are not cooled and that are heated to less than 60°F.
- 3. Heating energy recovery where more than 60% of the *outdoor air* heating *energy* is provided from *site-recovered energy* or *site-solar energy*.
- 4. Heating *energy* recovery in Climate Zones 0, 1, and 2.
- 5. Cooling energy recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7, and 8.
- 6. Where the sum of the airflow rates exhausted and relieved within 20 ft of each other is less than 75% of the design outdoor airflow rate, excluding exhaust air that is
 - a. used for another energy recovery system,
 - b. not allowed by ASHRAE Standard 170 for use in *energy* recovery *systems* with leakage potential, or
 - c. of Class 4 as defined in ASHRAE Standard 62.1.
- 7. Systems in Climate Zones 0 through 4 requiring dehumidification that employ *series energy* recovery and have a minimum SERR of 0.40.
- 8. *Systems* expected to operate less than 20 hours per week at the *outdoor air* percentage covered by Table <u>6.5.6.1-1</u>.
- 9 Indoor pool dehumidifiers meeting Section 6.5.6.4.

Table 6.5.6.1.2-1 Exhaust Air *Energy* Recovery Requirements for *Ventilation Systems* Operating Less than 8000 Hours per Year

(no changes to table)

Table 6.5.6.1.2-2 Exhaust Air *Energy* Recovery Requirements for *Ventilation Systems* Operating Greater than or Equal to 8000 Hours per Year

(no changes to table)

Public Review Draft

Proposed Addendum i to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

First Public Review (September 2018) (Draft Shows Proposed Changes to Current Standard)

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FOREWORD

This addendum proposes to update the cooling tower requirements by specifying different maximum concentrations of contaminants for different cooling tower materials and simplifying the calculations for meeting the requirements.

This addendum also proposes to move the prescriptive cooling tower requirements in 6.4.2.1 with a set of revised mandatory requirements in section 6.3. A previous addendum (designated as s), moved these requirements from section 6.4 to section 6.3 but did not revise them. The intent is to replace the current cooling tower requirements with those shown below in 6.3.2.3.

Note: In this addendum, changes to the current standard are indicated in the text by <u>underlining</u> (for additions) and <u>strikethrough</u> (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 i to 189.1-2017

Add to section 3.3

Modify section 3 as follows:

<u>Langelier Saturation Index</u> (LSI): a measure of a solution's ability to dissolve or deposit calcium carbonate that is often used as an indicator of the corrosivity of water, calculated using the following formula:

 $LSI = pH - pH_s$

where

<u>pH</u> is the measured water <u>pH</u> pH_s is the pH at saturation in calcium carbonate

Modify Section 6.3.2.3 as follows:

6.3.2.3 HVAC Systems and Equipment

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- a. Once-through cooling with potable water is prohibited.
- b. The water being discharged from cooling towers for air conditioning systems such as chilled water systems shall be limited in accordance with method (1) or (2):
 - 1. For makeup waters having less than 200 ppm (200 mg/L) of total hardness expressed as calcium carbonate, by achieving a minimum of 5 cycles of concentration.
 - 2. For makeup waters with more than 200 ppm (200 mg/L) of total hardness expressed as calcium carbonate, by achieving a minimum of 3.5 cycles of concentration.

Exception to 6.3.2.3(b): Where the total dissolved solids concentration of the discharge water exceeds 1500 mg (1500 ppm/L) or the silica exceeds 150 ppm (150 mg/L) measured as silicon dioxide before the above *cycles of concentration* are reached.

b. The design of open circuit cooling towers for air conditioning systems, including the materials used to construct them and their water treatment systems shall not allow water exchange (blowdown) until one or more of the parameters in Table 6.3.2.3 reaches 90% or more of the maximum value specified in Table 6.3.2.3. The system shall be tolerant of pH levels between 7.0 and 9.2.

Table 6.3.2.3 Recirculating Water Properties for Open Circuit Cooling Tower Construction

Recirculating Water Parameters	Maximum Value
Conductivity (micro-ohms)	<u>3,300</u>
Total Dissolved Solids (ppm)	<u>2,050</u>
Total Alkalinity as CaCO3 (ppm)	<u>600</u>
excluding Galvanized Steel	
Total Alkalinity as CaCO3 (ppm)	<u>500</u>
Galvanized Steel (passivated)	
Calcium Hardness as CaCO3 (ppm)	<u>600</u>
Chlorides as Cl (ppm)	<u>300</u>
Sulfates (ppm)	<u>250</u>
Silica (ppm)	<u>150</u>
LSI (Langelier Saturation Index)	<u>+2.8</u>

c. The materials of construction for the water cooling system that comes in contact with cooling tower water shall be of the type that can operate and be maintained within the limits set in Table 6.3.2.3.

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- e. <u>d. Open circuit Ccooling towers, closed circuit cooling towers</u>, and evaporative <u>condensers</u> eoolers-shall be equipped with makeup <u>and blowdown water</u> meters, conductivity controllers, and overflow alarms in accordance with the thresholds listed in Table 6.3.4.1b. Cooling towers shall be equipped with <u>efficient</u> drift eliminators that achieve <u>reduce</u> drift to a maximum of 0.002% <u>or less</u> of the recirculated water <u>volume flow</u> for counterflow towers and 0.005% <u>or less</u> of the recirculated water flow for cross-flow towers.
- d. e. Building projects located in regions where the ambient mean coincident wet-bulb temperature at 1% design cooling conditions is greater than or equal to 72°F (22°C) shall have a system for collecting condensate from air-conditioning units with a capacity greater than 65,000 Btu/h (19 kW), and the condensate shall be recovered for reuse.

Public Review Draft

Proposed Addendum I to Standard 189.1-2017

Standard for the Design of High-Performance Green Buildings

Except Low-Rise Residential Buildings

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Foreword

Energy efficiency of a new building will degrade over time caused by poorly maintained, failing and improperly controlled equipment. The proposed Fault Detection and Diagnostics (FDD) requirement will reduce that degradation by detecting existing and future malfunctioning systems and notifying building operators so that actions may be taken to reduce energy consumption of the building. Additionally, FDD systems are being utilized to drive operational efficiency, make better use of maintenance personnel, and resolve comfort issues.

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

Addendum l to 189.1-2017

Add Section 7.3.5 as follows:

7.3.5 Fault Detection and Diagnostics (FDD)

A fault detection and diagnostics (FDD) system shall be installed in new buildings to monitor the performance of the building's HVAC system and detect faults in the system. The FDD system shall:

- 1. <u>Include permanently installed devices to monitor HVAC system operation;</u>
- 2. Sample the HVAC system performance not less than once per hour;
- 3. Automatically identify, display and report system faults;
- 4. Automatically notify service personnel of identified fault conditions;

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- 5. <u>Automatically provide prioritized recommendations for fault repair based on analysis of collected data.</u>
- 6. Be capable of tracking and recording history of identified faults, from identification through repair completion.

Exceptions:

- 1. Buildings with gross floor area less than 25,000 ft² (2500 m²).
- 2. Individual tenant spaces with gross floor area less than 10,000 ft² (1000 m²).
- 3. <u>Dwelling units</u> and hotel/motel guest rooms.
- 4. Residential buildings with less than 10,000 ft² (1000 m²) of common area.
- 5. Emergency smoke control systems.

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New Standard NSF/ANSI 455-3 – 201X Issue 8, Revision 1 (August 2018)

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NSF/ANSI Standard for Good Manufacturing Practices –

Good manufacturing practices for cosmetics

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5 Audit process

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- 5.8.5 Use of the designation of the Standard number by CBs

Upon certification by an accredited CB, the company may use a Mark as evidence of conformance to this Standard during the period of certification. Usage of the Mark is specific to the facility location and types of products and processes specific to the certification audit. The Mark and usage of the Mark must adhere to ANSI's rules and regulations of Mark usage found in ANSI-PR-027: Rules Governing the Use and Protection of the ANSI Accreditation Mark and References to ANSI Accreditation.

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NSF/ANSI Standard for Good Manufacturing Practices –

Good manufacturing practices for over-the-counter drugs

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New Standard NSF/ANSI 455-3 – 201X Issue 9, Revision 1 (August 2018)

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NSF/ANSI Standard for Good Manufacturing Practices –

Good manufacturing practices for cosmetics

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5.8.6 Certification suspension and withdrawal

The certificate may be suspended or revoked for circumstances such as:

- violation of CB program rules; and
- failure to fulfill financial commitments.

The certificate may be withdrawn by the CB where circumstances indicate the site no longer complies with the requirements of the ANSI certification scheme. Examples of these situations include, but are not limited to:

- evidence that the site no longer complies with the cGMP requirements for OTC drug manufacture;
- failure to implement adequate corrective actions within appropriate timelines;
- evidence of falsification of records; and
- persistent misuse of the Mark.

Refer to the Governance Document section on Certification Suspension and Withdrawal for process details.

5.8.7 Appeals

The company has the right to appeal the identification and/or categorization of a nonconformance or certification decision. Any such appeal is to be made in writing and include evidence to support the appeal, and demonstrate compliance such as documentation, records, and photographic evidence.

The CB shall have a documented procedure for the consideration and resolution of appeals. Investigative procedures shall be independent of the individual auditor.

In the event of an unsuccessful appeal, the CB has the right to charge costs for conducting the appeal.

Refer to the governance document section on appeals for process details and requirements.

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NSF/ANSI Standard for Good Manufacturing Practices –

Good manufacturing practices for over-the-counter drugs

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Summary of Draft PDS-03.3 Changes to Draft PDS-02.2

BSR/RESNET/ICC 380-201x

Standard for Testing Airtightness of Building, Dwelling Unit, and Sleeping Unit Enclosures; Airtightness of Heating and Cooling Air Distribution Systems; and Airflow of Mechanical Ventilation Systems

Revise the definition of Conditioned Space Volume as follows:

Conditioned Space Volume²¹ - The volume within a building or Dwelling Unit serviced by a space heating or cooling system designed to maintain space conditions at 78 °F (26 °C) for cooling and 68 °F (20 °C) for heating. The following specific spaces are addressed to ensure consistent application of this definition:

- If the volume both above and below a floor assembly meets this definition and is part of the subject Dwelling Unit, then the volume of the floor assembly shall also be included. Otherwise the volume of the floor assembly shall be excluded.
 - Exception: The wall height shall extend from the finished floor to the bottom side
 of the floor decking above the subject Dwelling Unit for non-top floor level
 Dwelling Units and to the exterior enclosure air barrier for top floor level
 Dwelling Units.
- If the volume of at least one of the spaces horizontally adjacent to a wall assembly meets this definition, and that volume is part of the subject Dwelling Unit, then the volume of the wall assembly shall also be included. Otherwise, the volume of the wall assembly shall be excluded.
 - Exception: If the volume of one of the spaces horizontally adjacent to a wall assembly is a Dwelling Unit other than the subject Dwelling Unit, then the volume of that wall assembly shall be evenly divided between both adjacent Dwelling Units.
- The volume of an attic that is not both air sealed and insulated at the roof deck shall be excluded.
- The volume of a vented crawlspace shall be excluded.
- The volume of a garage shall be excluded, even when it is conditioned.
- The volume of a thermally isolated sunroom shall be excluded.

² (Informative Note) Informative Annex A has a table that summarizes parts of a Dwelling Unit that are included in Conditioned Space Volume.

- The volume of an attic that is both air sealed and insulated at the roof deck, the volume of an unvented crawlspace, and the volume of a basement shall only be included if the volume is contiguous with the subject Dwelling Unit and the party conducting evaluations has either:
 - Obtained an ACCA Manual J, S, and either B or D report and verified that both the heating and cooling equipment and distribution system are designed to offset the entire design load of the volume, or,
 - Verified through visual inspection that both the heating and cooling equipment and distribution system serve the volume and, in the judgement of the party conducting evaluations, are capable of maintaining the heating and cooling temperatures specified by the Thermostat section in Table 4.2.2(1) of ANSI/RESNET/ICC 301.
- The volume of a mechanical closet, regardless of access location, that is contiguous with the subject Dwelling Unit shall be included if:
 - o it is serviced by a space heating or cooling system designed to maintain space conditions at 78 °F (26 °C) for cooling and 68 °F (20 °C) for heating, and
 - o it only includes equipment serving the subject Dwelling Unit, and
 - combustion makeup air is not intentionally provided from outside the Dwelling Unit, and
 - -the mechanical room is not intentionally air sealed from the subject Dwelling Unit

Revise Section 4.3.2.4 as follows:

4.3.2.4 The doorway where the Blower Door is installed shall be inspected for the presence of a door sweepseal installed to minimize air leakage between the door and door frame. Where a door sweep such seal is not present or is not properly installed, 140 CFM50 shall be added to the measured airflow. This adjustment, and the presence, installation quality and condition of the door sweepseal shall be documented in the final test report².

Revise Section 4.4.1.5 as follows:

4.4.1.5 Corrected CFM50 (corrected CMS50) shall be calculated by making the adjustments due to density and viscosity using Equation 4 in Section 9 of ASTM E779-10 ³. Equations 1 and 2 in Section 9 shall be used to convert air flows to flows through the building

⁴⁷ (Informative Note) For example, pressure taps, a device that measures a parameter such as watt draw that can be translated to airflow.

³ (Normative Note) Software provided by manufacturers of test equipment is permitted to be used to perform these calculations if the manufacturer certifies that the calculations are performed in accordance with ASTM E779.

envelope. Equation 4 in Section 9 shall be used to convert to standard conditions, by substituting CFM50 (CMS50) for C and Corrected CFM50 (corrected CMS50) for C₀.

Revise Section 6.4.3 as follows:

6.4.3 Integrated Diagnostic Tool

6.4.3.1 Equipment

6.4.3.1.1. Integrated Diagnostic Tool. A tool that is integrated into the ventilation equipment⁴⁷ that permits assessment of airflow. The with a manufacturer reported maximum error of the integrated diagnostic tool shall be 15% of the measured flow at the highest speed flow setting of the ventilation equipment.

6.4.3.2. Procedure to Conduct Airflow Test. Follow the manufacturer-provided instructions for the Integrated Diagnostic Tool to determine the airflow.

BSR/UL 355, Standard for Safety for Cord Reels

PROPOSAL

If the UL 355 proposal dated 8-4-2017 is withdrawn, the current requirements in the standard

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

PROPOSALS

5.9 CORD RESTRAINT DEVICE - A device provided with retention means intended to reduce the likelihood of an attachment plug becoming unintentionally detached from a mating cord connector of a cord set or any outlet device. This is permitted to be a separate add-on device or integral to the cord ssion from U connector, device is not an integral or permanently attached component of a cord set or outlet device, but rather is a separate add-on device.

(NEW)

- 8.7 Manually- or Spring-activated latching cord connectors
- 8.7.1 A cord connector of the 1-15R, 5-15R, 5-20R, 6-15R, or 6-20R configuration is permitted to be provided with a manually- or spring-activated latching mechanism.
- 8.7.2 A cord connector with a manual or spring-activated latching mechanism shall be subjected to the applicable tests in Tests for Cord Connectors, Section 14, with the mechanism in place and defeated. In addition, a cord connector provided with a manual or spring-activated latching mechanism shall be subjected to the Latch Mechanism Tests, Section 19B.
- 9.11.3 Cord restraint devices not employing a latching mechanism shall not be integral with or permanently attached to a cord set or outlet device. Cord restraint devices employing a latching mechanism are permitted to be integral with the cord connector and shall comply with the requirements as described in Manually- or Spring-activated latching cord connectors, 8.7.

19B Latch Mechanism Tests

- 19B.1 Tests for manually- or spring-activated latching cord connectors
- 19B.1.1 A cord connector of the 1-15R, 5-15R, 5-20R, 6-15R, or 6-20R configurations, employing a manually- or spring-actuated latching mechanism for locking a mated attachment plug in place after its blades have been inserted into the female contacts shall comply with the Cycling test, 19B.2 and the Pull test, 19B.3.

19B.2 Cycling test

19B.2.1 After completion of this test:

- The latching mechanism shall remain capable of functioning as intended.
- There shall not be any damage, arcing or dielectric breakdown of the attachment plug or cord connector during application of the test potential.
- The mating plug shall not displace more than 2.4 mm (3/32 in) from the cord connector outlet as a result of the test force as indicated in 19B.2.3.
- 19B.2.2 Each of six previously untested devices is to be tested. A mating attachment plug having rigidly mounted solid blades and standard detent holes shall be inserted and fully seated into the outlet of the device under test. For devices with the 1-15R, 5-15R, 5-20R, 6-15R, or 6-20R configurations, the mating plugs shall have the configurations specified in Table 19B.1. The latching mechanism is to be activated to lock the plug in place. The locking means is then to be de-activated to release the plug and the plug is to be withdrawn from the outlet. This sequence is to be repeated for a total of 1000 cycles.

<u>Table 19B.1</u>

<u>Mating plug configurations for cycling testing</u>

Device under test	Mating plug	Number of devices tested
1-15R	1-15P	6
5-15R	1-15P	6
5-20R	5-20P	3
6-15R	6-15P	6
6-20R	6-20P	3

- 19B.2.3 A mating attachment plug employing folded blades with standard detent holes is then to be inserted and fully seated in the outlet of each device tested to 19B.2.2. The latching mechanism is to be actuated to lock the plug in place. A static 30 lbf (133 N) is to be applied to the plug for 1 minute in a direction perpendicular to the plane of the face of the outlet.
- 19B.2.4 Each device is then to be subjected to the Dielectric voltage-withstand test, 11.4, except the test potential shall be twice the rated voltage plus 1000 V.

19B.3 Pull test

19B.3.1 After completion of this test:

- a) There shall not be any damage to the cord connectors or the blades of the attachment plugs or other evidence of increased risk of injury or electric shock.
- b) The latching means shall remain functional.
- c) There shall not be any loosening of the plug blades nor displacement of the plugs blades at the attachment plug face exceeding 2.4 mm (3/32 in), nor compression of the folded blades to less than 1.40 mm (0.055 in).
- d) The attachment plug shalf be capable of being inserted into a standard mating receptacle. There shall not be any damage, arcing, or dielectric breakdown during application of the test potential.
- 19B.3.2 Previously untested devices and mating plugs are to be used. With the device firmly secured in place, a mating attachment plug is to be inserted into the device and the latching mechanism activated to lock the plug in place. The mating plugs are to have the configurations shown in Table 19B.2. A static 30 lbf (133 N) is to be applied to the plug for 1 minute in a direction perpendicular to the plane of the face of the cord connector which tends to remove the plug from the cord connector. The force is then to be removed from the plug and the latching mechanism de-activated to release the plug, and the plug removed from the cord connector. This is to be repeated for a total of 50 cycles. Three devices are to be tested using attachment plugs with rigidly mounted solid blades with standard detent holes. Three devices are to be tested using attachment plugs with folded blades and standard detent holes.

(NEW TABLE)

<u>Table 19B.2</u>

<u>Mating plug configurations for pull testing</u>

Device under test Mating plug Number of devices tested		-
1-15R	1-15P	6
5-15R	1-15P	6

5-20R	5-20P	3	
6-15R	6-15P	6	
6-20R	6-20P	3	

cord set in accordance with Manually- or Spring-activated latching mechanism that is part of a with a statement instructing the user how to disengage the latching mechanism as the latching mechanism as the latching mechanism as the latching mechanism as the latching mechanism.

BSR/UL 962, Standard for Safety for Household and Commercial Furnishings

1. Revise the horizontal loading requirements in Table 36.1 to reference the requirements in BIFMA X5.5

Table 36.1 Horizontal surface loading requirements

Surface type	Surface size	Functional load	Proof load	
Secondary Surface Note (1)	Unit depth < 8 in.	1.5 lbs/in. of width or as specified in (a)	3.0 lbs* width (in.) or as specified in (b)	
Secondary Surface Note (1)	Unit depth ≥ 8 in ≤ 16 in.	2.5 lbs/in. of width or as specified in (a)	5.0 lbs* width (in.) or as specified in (b)	
Secondary Surface Note (1)	Unit depth > 16 in.	3.5 lbs/in. of width or as specified in (a)	7.0 lbs* width (in.) or as specified in (b)	
Secondary Surface Note (1)	All Sizes	See Table 1 of the Standard for Desk Products, BIFMA X5.5 (a) Load (lbs) as specified in the user instructions	See Table 1 of the Standard for Desk Products, BIFMA X5.5 (b) - 4x load (lbs) as specified in the user instructions	
Work Surface Note (1)	Unit width	4.7 lbs/in. of width or 200 lbs whichever is greater or as specified in (c)	7 lbs/in. of width or 300 lbs whichever is greater; or as specified in (d)	
Work Surface Note (1)	All Sizes Unit width	See Table 1 of the Standard for Desk Products, BIFMA X5.5 (e) Load (lbs) as specified in the user instructions	See Table 1 of the Standard for Desk Products, BIFMA X5.5 (d) 4x load (lbs) as specified in the user instructions	
Clothes and Towel Rods	All lengths	1.5 lbs/in. per length	1.5 lbs/in. per length	
Clothes and Towel Hooks	All sizes	2.5 lbs/in. each hook	2.5 lbs/in. each hook	
Television Support Surfaces	All sizes	Load (lbs) as specified in the user instructions	1.5 times functional load Refer to Note: (4)	
Bed Note: (2)	Number of intended persons	300 lbs per person	500 lbs per person	
Furnishings with seating surfaces Note: (3)	Number of intended persons	300 lbs per person	450 lbs per person	
Note (1):	A furnishing that has a circular or irregular shaped surface if determined to be less stable in a partially loaded condition shall be loaded along 1/3 the perimeter edge.			
Note (2):	Refer to 36.2.1.			
Note (3):	Refer to 36.2.3.			
	i) Four times (4X) the load when the supporting surface is rated 100 pounds (45.36 kG) or less, or			
	ii) Two times plus 200 pounds (2x + 200 lbs) (2x + 90.72 kG) when the rated load is greater than 100 pounds. A specified load greater than 100 pounds shall be not less than 105 pounds (47.6 kG).			

BSR/UL 1557, Standard for Safety for Electrically Isolated Semiconductor Devices

1. Define Requirements for Series End Test as Minimum Values for Compliance to IEC

14.2 The production-line test potential shall be at least the rated isolation rms voltage for 60 seconds or at least 120 percent of the rated isolation rms voltage for a minimum of one second.

Exception: For a dc test potential:

5.4 INSULATING MATERIAL OPERATING TEMPERATURE - The maximum temperature of the insulating material for either the semiconductor device or module when operating in accordance with the ature sh.

ature sh. manufacturer's specifications, usually the maximum junction temperature. For module packages with ceramic insulation the rated maximum case temperature shall be regarded as maximum insulating