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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: May 17, 2020

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

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

Addenda

BSR/ASHRAE/ASHE Addendum 170d-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170d-2015)

This proposed addendum adds requirements and language similar to those required in Section 5 (Systems and Equipment) of ASHRAE Standard 62.1. Requirements include: (1) Air intake separation distance table adapted for 170 requirements; (2) Outdoor air verification requirements while operating; (3) Measures to prevent vehicle combustion in parking garages from entering the building; and (4) Air balancing requirements.

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

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

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Addenda

BSR/ASHRAE/ASHE Addendum 170e-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170e-2014)

Proposed Addendum e original changes: (1) Clarify Chapter 5 through editing, organizing paragraphs, moving planning requirements listed in Chapter 10 to Chapter 5; (2) Modify Chapter 10 to address the intent behind Change Proposal 170-16-12-0001/007, harmonizing the Chapter 10 Construction and Start-up requirements with those in ASHRAE Standard 62.1. Based on commenter feedback, the following additional changes are proposed: (1) In Section 10.2.3, delete the drain pan testing requirements and (2) Add "Inspect the drain pan while operating to visually verify it is draining properly."

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

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Addenda

BSR/ASHRAE/ASHE Addendum 170L-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170L-2012)

Proposed Addendum L continues the process of reorganizing the standard into three components—Hospital, Outpatient, and Residential Health Care and Support in alignment with the FGI Guidelines' transition to three separate standards. There are 5 edits of definitions; 1 each edits in Chapters 7, 8, and 9; along with specific line (row) edits in Table 7.1. The addendum also revises the space name definitions and process definitions, table organization, and subheadings to better correlate with the 2018 FGI Guidelines for Design and Construction of Hospitals, including the addition of paragraph numbers after each space name.

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

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

MHI (Material Handling Industry)

8720 Red Oak Boulevard, Suite 201, Charlotte, NC 28217 ph: (704) 714-8755 www.mhi.org

Revision

BSR MH29.1-202X, Safety Requirements for Industrial Scissors Lifts (revision of ANSI MH29.1-2012)

This standard applies to industrial scissors lifts that are raised and lowered by means of hydraulic, pneumatic, or mechanical actuation. These industrial scissors lifts are intended for commercial applications on firm and level surfaces and may be either stationary or mobile and used to position, feed, transfer, load, or unload materials or personnel.

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

Send comments (with optional copy to psa@ansi.org) to: Patrick Davison, pdavison@mhi.org

UL (Underwriters Laboratories, Inc.)

333 Pfingsten Road, Northbrook, IL 60062-2096 ph: (847) 664-2850 www.ul.com

Revision

BSR/UL 20-202x, Standard for Safety for General-Use Snap Switches (revision of ANSI/UL 20-2018)

Ballot of the following topics: (1) Manufacturer's terminal tightening torque; (2) Correct typos/omissions for 277v motor ratings for 15 and 20 amp switches; (3) Marking location; (4) Voltage markings on AC-ONLY switches incorporating locator or pilot indicators; (5) Ground screws; and (6) Wiring diagram for switches.

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

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

47173 Benicia Street, Fremont, CA 94538 ph: (510) 319-4271 www.ul.com

Revision

BSR/UL 746B-202x, Standard for Safety for Polymeric Materials - Long Term Property Evaluations (revision of ANSI/UL 746B-2019)

This proposal for UL 746B provides revisions to the proposal document dated August 2, 2019 per comments received.

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

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

47173 Benicia Street, Fremont, CA 94538 ph: (510) 319-4271 www.ul.com

Revision

BSR/UL 1640-202x, Standard for Safety for Portable Power-Distribution Equipment (revision of ANSI/UL 1640-2016)

This proposal for UL 1640 provides revisions to the proposal document dated October 11, 2019 per comments received.

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

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 ph: (919) 549-0956 www.ul.com

Revision

BSR/UL 2079-202x, Standard for Safety for Tests for Fire Resistance of Building Joint Systems (revision of ANSI/UL 2079-2015)

(1) Optional Air Leakage test minimum joint length.

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

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

47173 Benicia Street, Fremont, CA 94538 ph: (510) 319-4233 www.ul.com

Revision

BSR/UL 2900-2-1-202X, Standard for Safety for Software Cybersecurity for Network-Connectable Products, Part 2-1: Particular Requirements for Network Connectable Components of Healthcare and Wellness Systems (revision of ANSI/UL 2900-2-1-2017)
UL 2900-2-1 proposals to help with telemedicine equipment entering hospitals for COVID-19 response.

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

Send comments (with optional copy to psa@ansi.org) to: Barbara Davis, (510) 319-4233, Barbara.J.Davis@ul.org

Comment Deadline: June 1, 2020**AARST (American Association of Radon Scientists and Technologists)**

527 Justice Street, Hendersonville, NC 28739 ph: (202) 830-1110 www.aarst.org

New Standard

BSR/AARST MW-RN-202x, Protocol for the Collection, Transfer and Measurement of Radon in Water (new standard)
This standard of practice contains procedures, minimum requirements and guidance for measuring radon in water that enters a building through groundwater supplies for determining if mitigation is necessary to protect current and future occupants of family dwellings and commercial buildings. The protocols contained in this standard specify minimum requirements and procedures for the collection and transport of water samples, as well as protocols for the quantitative transfer of the sample to a measurement device to determine radon concentrations in water.

Single copy price: \$TBD

Obtain an electronic copy from: <https://standards.aarst.org/public-review/>

Order from: Gary Hodgden, (202) 830-1110, StandardsAssist@gmail.com

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

AARST (American Association of Radon Scientists and Technologists)

527 Justice Street, Hendersonville, NC 28739 ph: (202) 830-1110 www.aarst.org

Revision

BSR/AARST MS-PC-202x, Performance Specifications for Instrumentation Systems Designed to Measure Radon Gas in Air (revision of ANSI/AARST MS-PC-2015)

This standard specifies minimum performance criteria and testing procedures for instruments and/or systems designed to quantify the concentration of ²²²Rn gas in air. These are consistent but general performance criteria applicable to the wide variety of radon measurement devices used for indoor measurements, primarily in residential environments or buildings not associated with the possession or handling of radioactive materials. Also included is a description of documentation necessary for demonstration of compliance with this standard.

Single copy price: \$TBD

Obtain an electronic copy from: <https://standards.aarst.org/public-review/>

Order from: Gary Hodgden, (202) 830-1110, StandardsAssist@gmail.com

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

ALI (ASC A14) (American Ladder Institute)

330 N. Wabash Avenue, Suite 2000, Chicago, IL 60611-6610 ph: (312) 321-6806 www.americanladderinstitute.org

Revision

BSR A14.8-202x, Safety Requirements for Ladder Accessories (revision of ANSI A14.8-2013)

This standard is for accessories used on individual ladders only and prescribes rules for governing the safe design, construction, and testing of accessories used in conjunction with a portable wood, metal, or reinforced plastic ladder. This standard is limited to those accessories specifically defined.

Single copy price: \$295.00

Obtain an electronic copy from: info@americanladderinstitute.org

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

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

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

Addenda

BSR/ASHRAE/ASHE Addendum 170a-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170a-2014)

This proposed addendum clarifies filtration requirements on a space-by-space basis. The filtration levels designated, and their rational basis, are included in Informative Appendix C, Table C-1 (Recommended Filter Efficiencies by Space Type). Based on commenter feedback the following revisions are proposed: (1) The requirement for MERV-A filters is being removed due to the test method being an informative appendix of ASHRAE 52.2; and (2) The requirement for HEPA filtration at terminal air devices for select operating rooms is being removed; HEPA filtration will be the minimum standard.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

Order from: standards.section@ashrae.org

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

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Addenda

BSR/ASHRAE/ASHE Addendum 170k-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170k-2016)

This proposed addendum accomplishes different objections related to Table 9.1 from various ongoing efforts of the project committee. This proposed addendum: (1) Includes Table 9.1 requirements for unoccupied turndown of the spaces; (2) Reorganizes several existing Table 9.1 space entries into revised subheadings to better correlate with FGI; (3) Clarifies and corrects table footnote sequencing that was erroneously included in Addendum n; (4) Revises Design Temperature ranges and Design Relative Humidity for several spaces; and (5) Revises other table entries as noted.

Single copy price: \$35.00

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Addenda

BSR/ASHRAE/ASHE Addendum 170m-202x, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Addendum 170M-2012)

This proposed addendum addresses changes that have been highlighted as the committee has reviewed and responded to informal and formal interpretation requests. Additionally, in recognition of the changes in the behavioral healthcare industry, the committee has sought to specifically provide guidance: (1) Revised lab exhaust discharge requirements in coordination with ANSI/AIHA Z9.5; (2) Updated the standard to allow recirculating room units in sterilizer equipment room; (3) Expanded guidance to address behavioral and mental health patient areas, residential behavioral and mental health patient rooms in coordination with the FGI; and (4) Revised Normative and Informative references in coordination with recent publications.

Single copy price: \$35.00

Obtain an electronic copy from: Free download at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

Order from: standards.section@ashrae.org

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

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 ph: (212) 591-8489 www.asme.org

Revision

BSR/ASME A17.2-202x, Guide for Inspection of Elevators, Escalators, and Moving Walks (revision of ANSI/ASME A17.2-2017)

This Guide covers recommended inspection and testing procedures for electric and hydraulic elevators, escalators, and moving walks required to conform to the Safety Code for Elevators and Escalators. This Guide also includes Canadian references and applicable exceptions for CSA B44-00 and later editions.

Single copy price: Free

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

Send comments (with optional copy to psa@ansi.org) to: Riad Mohamed, (212) 591-8460, MohamedR@asme.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Reaffirmation

BSR/ATIS 0300074-2015 (R202x), Guidelines and Requirements for Security Management Systems (reaffirmation of ANSI/ATIS 0300074-2015)

This standard aligns with the relevant ITU-T Recommendation M.3410, Guidelines and Requirements for Security Management Systems to Support Telecommunications Management.

Single copy price: \$30.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Reaffirmation

BSR/ATIS 0300202-2015 (R202x), Internetwork Operations - Guidelines for Network Management of Public Telecommunications Networks under Disaster Conditions (reaffirmation of ANSI/ATIS 0300202-2015)

The purpose of this standard is to delineate network traffic management actions that should be performed prior to and during disaster conditions. This standard is applicable to all telecommunications network operators that are interconnected to the public telecommunications networks. A coordinated network traffic management response by all affected network operators should ensure the integrity of the public telecommunications networks.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Reaffirmation

BSR/ATIS 0300210-2015 (R202x), OAM&P Principles of Functions, Architectures, and Protocol for Telecommunications Management Network Interfaces and enhanced Telecom Operations Map (eTOM) (reaffirmation of ANSI/ATIS 0300210-2015)

It is the intention of this standard to use and align with the relevant ITU-T Recommendations.

Single copy price: \$30.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Reaffirmation

BSR/ATIS 0300212-2015 (R202x), Enhanced Telecommunications Charge Card Physical Characteristics and Numbering Structure (reaffirmation of ANSI/ATIS 0300212-2015)

This standard applies to enhanced telecommunication charge cards issued within North America. The determination of eligibility to issue telecommunication charge cards is beyond the scope of this standard.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Reaffirmation

BSR/ATIS 0300230-2015 (R202x), Telecommunications Charge Card and Billed Number Screening Validation Message Components (reaffirmation of ANSI/ATIS 0300230-2015)

This standard describes information used within the validation process at a conceptual level and does not imply the use of specific network hardware components or signaling protocols. Certain parts of this standard will impact the protocols used to encode and transmit the information.

Single copy price: \$60.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 ph: (202) 628-6380 www.atis.org

Stabilized Maintenance

BSR/ATIS 0300264-2010 (S202x), Alarm Surveillance in Telecommunications Management Network (TMN) (stabilized maintenance of ANSI/ATIS 0300264-2010 (R2015))

Alarm Surveillance is the set of functions that enables the monitoring or interrogation (or both) of the telecommunications network concerning alarm-related events or conditions. This standard provides a description of the functions, management information, services, functional units, and protocols related to Alarm Surveillance.

Single copy price: \$30.00

Obtain an electronic copy from: dgreco@atis.org

Send comments (with optional copy to psa@ansi.org) to: dgreco@atis.org

AWS (American Welding Society)

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

New Standard

BSR/AWS C2.26/C2.26M-202x, Specification for Thermal Spray Powder (new standard)

This specification establishes the requirements for the classification of powders for various thermal spray processes. The requirements include particle size distribution, apparent density, flow characteristics and chemistry. Requirements for manufacturing, labeling, and packaging are also included.

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 optional copy to psa@ansi.org) to: jrosario@aws.org

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-47A-2008 (R202x), Conductor Unwrap (Solderless Wrapped Connection) Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-47A-2008 (R2015))

This standard establishes test methods to determine if excessive damage or deformation of the conductor in a solderless wrapped connection has occurred as a result of the wrapping process.

Single copy price: \$72.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-68A-2008 (R202x), Actuating Mechanism Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-68A-2008 (R2015))

This standard establishes a test method to determine the strength of the actuating mechanism of a connector release mechanism.

Single copy price: \$72.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-69A-2002 (R202x), Low Level Induction Measurement for Electrical Contacts of Electrical Connectors (reaffirmation of ANSI/EIA 364-69A-2002 (R2015))

This procedure applies to electrical connectors and sockets with values in the range of 10 nanohenrys to 100 nanohenrys.

Single copy price: \$78.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-79-2014 (R202x), Insert Bond Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-79-2014 (R2015))

Application of this insert bond evaluation procedure is limited to qualification or periodic inspection testing and generally is a test group of its own. This standard provide a technique for evaluating the strength of a bond between one or more components.

Single copy price: \$72.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-85-2014 (R202x), General Test Procedure for Assessing Wear and Mechanical Damage Testing of Contact Finishes for Electrical Connectors (reaffirmation of ANSI/EIA 364-85-2014 (R2015))

The purpose of this procedure is to determine the presence of mechanical damage, wear-through, and other gross defects in the contact finish. Most contact finishes are intended to be protective, and the presence of gross defects in the finish indicates a serious reduction of such protection.

Single copy price: \$96.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-94-2009 (R202x), Transverse Extraction Force Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (reaffirmation of ANSI/EIA 364-94-2009 (R2015))

The object of this test procedure is to determine the force necessary to remove the wire within the connection slot of an accessible insulation displacement termination along the longitudinal axis of the termination.

Single copy price: \$72.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-97-1997 (R202x), Housing Panel Retention Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-97-1997 (R2015))

This specification covers the test procedure for determining the mechanical retention of the panel locking feature housings when installed in panels.

Single copy price: \$72.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 ph: (571) 323-0294 www.ecianow.org

Reaffirmation

BSR/EIA 364-98-2009 (R202x), Housing Locking Mechanism Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-98-2009 (R2015))

This specification describes a test procedure for determining the mechanical retention strength of the locking retention features of mated plastic connector housings.

Single copy price: \$67.00

Obtain an electronic copy from: <https://global.ihs.com/>

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

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

GISC (ASC Z97) (Glazing Industry Secretariat Committee)

730 Worcester Street, Springfield, MA 01151 ph: (413) 730-3413 www.ansiz97.com

Reaffirmation

BSR Z97.1-2015 (R202x), Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test (reaffirmation of ANSI Z97.1-2015)

This standard establishes the specifications and methods of test for the safety properties of safety glazing materials (glazing materials designed to promote safety and reduce the likelihood of cutting and piercing injuries when the glazing materials are broken by human contact) as used for all building and architectural purposes.

Single copy price: \$105.00 (non-members); reduced non-member price not yet established.

Order from: jcschi@eastman.com

Send comments (with optional copy to psa@ansi.org) to: Julia Schimmelpenninck, jcschi@eastman.com

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Suite 227, Ann Arbor, MI 48104 ph: (734) 677-7777 www.hl7.org

Revision

BSR/HL7 IG UDI, R2-202x, HL7 Cross Paradigm Implementation Guide: UDI Pattern, Release 2 (revision and redesignation of ANSI/HL7 IG UDI, R1-2019)

Update of Release 1 content with R4 FHIR Device and Device Definition resources and any V2 content ready for use. The updates will be publishable as a Cross-Paradigm Implementation Guide.

Single copy price: Free to members and non-members

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

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

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

5001 East Philadelphia Street, Ontario, CA 91761 ph: (909) 230-5534 <https://www.iapmostandards.org>

Reaffirmation

BSR/IAPMO Z1033-2015 (R202x), Flexible PVC Hoses and Tubing for Pools, Hot Tubs, Spas, and Jetted Bathtubs (reaffirmation of ANSI/IAPMO Z1033-2015)

This Standard covers flexible PVC hoses and tubing for use on pools, hot tubs, spas, and jetted bathtubs and specifies requirements for materials, physical characteristics, performance tests, and markings. Flexible PVC hoses and tubing covered by this Standard are intended to be used on hot tub, spa, and jetted bathtub (a) water circulation systems and (b) pneumatic systems.

Single copy price: \$100.00

Obtain an electronic copy from: https://iapmomembership.org/index.php?page=shop.product_details&flypage=flypage_iapmo.tpl&product_id=1507&category_id=48&keyword=z1033&option=com_virtuemart&Itemid=3&redirected=1&Itemid=3

Order from: Kyle Thompson, (909) 230-5534, standards@iapmostandards.org

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

NECA (National Electrical Contractors Association)

3 Bethesda Metro Center, Suite 1100, Bethesda, MD 20814 ph: (301) 215-4549 www.neca-neis.org

New Standard

BSR/NECA 781-202X, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The basic components of lightning protection systems are covered as well as basic information related to lightning protection system design and system maintenance.

Single copy price: \$25.00 (NECA members), \$55.00 (nonmembers)

Obtain an electronic copy from: neis@necanet.org

Order from: Aga Golriz, (301) 215-4549, Aga.golriz@necanet.org

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

NECA (National Electrical Contractors Association)

3 Bethesda Metro Center, Suite 1100, Bethesda, MD 20814 ph: (301) 215-4549 www.neca-neis.org

Revision

BSR/NECA 101-202X, Standard for Installing Steel Conduits (RMC, IMC, EMT) (revision of ANSI/NECA 101-2006 (R2013))

This standard describes installation procedures for steel rigid metal conduit (RMC), steel intermediate metal conduit (IMC), and steel electrical metallic tubing (EMT). Conduit with supplementary PVC coating is also included.

Single copy price: \$25.00 (NECA members), \$55.00 (nonmembers)

Obtain an electronic copy from: neis@necanet.org

Order from: Aga Golriz, (301) 215-4549, Aga.golriz@necanet.org

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

NEMA (ASC C12) (National Electrical Manufacturers Association)

1300 North 17th Street, Suite 900, Rosslyn, VA 22209 ph: (703) 477-9997 www.nema.org

Reaffirmation

BSR C12.22-2012 (R202x), Protocol Specification for Interfacing to Data Communication Networks (reaffirmation of ANSI C12.22 -2012)

This standard defines network Application Services for the exchange of Table data and control elements. These services must be implemented by all C12.22 Nodes, including "back-office" or "head-end" systems. This standard extends the concepts of ANSI C12.18/MC12.18/IEEE 1701, ANSI C12.21/MC12.18/IEEE 1702, and ANSI C12.19/MC12.19/IEEE 1377 standards to allow transport of Table data over any reliable networking communications system.

Single copy price: \$251.00

Obtain an electronic copy from: pau_orr@nema.org

Order from: NEMA

Send comments (with optional copy to psa@ansi.org) to: pau_orr@nema.org

NEMA (ASC C82) (National Electrical Manufacturers Association)

1300 N 17th St, Rosslyn, VA 22209 ph: (703) 841-3262 www.nema.org

Revision

BSR C82.13-202x, Standard for Lamp Ballasts - Definitions - for Fluorescent Lamps and Ballasts (revision of ANSI C82.13-2002 (R2010))

This standard provides definitions of terms used in ANSI C78 and C82 series standards for fluorescent lamps and ballasts.

Individual standards may also include additional definitions specific to that standard.

Single copy price: \$65.00

Obtain an electronic copy from: michael.erbesfeld@nema.org

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

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

NEMA (ASC W1) (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 ph: (703) 841-3278 www.nema.org

Reaffirmation

BSR/NEMA/IEC 60974-8-2009 (R202x), Arc Welding Equipment -Part 8: Gas Consoles for Welding and Plasma Cutting Systems (reaffirmation of ANSI/NEMA/IEC 60974-8-2009)

This part of IEC 60974 specifies safety and performance requirements for gas consoles intended to be used with combustible gases or oxygen. These gas consoles are designed to supply gases for use in arc welding, plasma cutting, gouging, and allied processes in non-explosive atmospheres.

Single copy price: \$105.00

Obtain an electronic copy from: KHALED.MASRI@NEMA.ORG

Order from: Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org

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

UL (Underwriters Laboratories, Inc.)

12 Laboratory Drive, P.O. Box 13995, Research Triangle Park, NC 27709-3995 ph: (919) 549-1391 www.ul.com

Reaffirmation

BSR/UL 60065-2015a (R202x), UL Standard for Safety for Audio, Video and Similar Electronic Apparatus - Safety Requirements (reaffirmation of ANSI/UL 60065-2015a)

This proposal for UL 60065 covers: Reaffirmation.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

333 Pfingsten Road, Northbrook, IL 60062-2096 ph: (847) 664-2850 www.ul.com

Revision

BSR/UL 962A-202x, Standard for Safety for Furniture Power Distribution Units (revision of ANSI/UL 962A-2019)

Ballot of the following: (1) Enclosure cap or cover over the reset actuator (i.e., stem) of a supplementary protector and (2) New Supplement SD - Furniture Power Distribution Units for Portable (Movable) Work Space Tables.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

UL (Underwriters Laboratories, Inc.)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4437 www.ul.com

Revision

BSR/UL 2196-202x, Standard for Safety for Fire Test for Circuit Integrity of Fire-Resistive Power, Instrumentation, Control and Data Cables (revision of ANSI/UL 2196-2018)

The following revisions are being proposed: (1) Removal of word "minimum" for raceway length as a tolerance is specified; (2) Modification of marking requirements; and (3) Proposed revision to installation instruction requirements.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Order from: <http://www.shopulstandards.com>

Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Comment Deadline: June 16, 2020

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 ph: (212) 591-8489 www.asme.org

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

Revision

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

BSR/ASME B18.6.2-202x, Square Head Set Screws, and Slotted Headless Set Screws (Inch Series) (revision of ANSI/ASME B18.6.2-1998 (R2010))

This Standard covers the complete general and dimensional data for square head and slotted headless set screws. Also included is an appendix covering the formulas on which dimensional data are based, and wrench openings for square head set screws.

Single copy price: Free

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

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments (with optional copy to psa@ansi.org) to: Lawrence Chan, (212) 591-7052, chanl4@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 ph: (212) 591-8489 www.asme.org

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

Revision

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

BSR/ASME Y14.1-202x, Drawing Sheet Size and Format (revision and redesignation of ANSI/ASME Y14.1-2012, ANSI/ASME Y14.1M-2012)

This Standard defines sheet sizes and formats for engineering drawings in both decimal inch and metric units.

Single copy price: Free

Obtain an electronic copy from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

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

AARST (American Association of Radon Scientists and Technologists)

Contact: Gary Hodgden

Phone (202) 830-1110

E-mail: StandardsAssist@gmail.com

Office: 527 Justice Street
Hendersonville, NC 28739

BSR/AARST MW-RN-202x, Protocol for the Collection, Transfer and Measurement of Radon in Water (new standard)

BSR/AARST MS-PC-202x, Performance Specifications for Instrumentation Systems Designed to Measure Radon Gas in Air (revision of ANSI/AARST MS-PC-2015)

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Jean Walsh

Phone (269) 932-7027

E-mail: walsh@asabe.org

Office: 2950 Niles Road
Saint Joseph, MI 49085

BSR/ASABE EP585.1 MonYear-202x, Animal Mortality Composting (revision and redesignation of ANSI/ASABE EP585-2015 (R2019))

Specific interest areas requested, general interest, government, user. No academia or research needed.

ECIA (Electronic Components Industry Association)

Contact: Laura Donohoe

Phone (571) 323-0294

E-mail: ldonohoe@ecianow.org

Office: 13873 Park Center Road
Suite 315
Herndon, VA 20171

BSR/EIA 364-47A-2008 (R202x), Conductor Unwrap (Solderless Wrapped Connection) Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-47A-2008 (R2015))

BSR/EIA 364-68A-2008 (R202x), Actuating Mechanism Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-68A-2008 (R2015))

BSR/EIA 364-69A-2002 (R202x), Low Level Induction Measurement for Electrical Contacts of Electrical Connectors (reaffirmation of ANSI/EIA 364-69A-2002 (R2015))

BSR/EIA 364-79-2014 (R202x), Insert Bond Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-79-2014 (R2015))

BSR/EIA 364-85-2014 (R202x), General Test Procedure for Assessing Wear and Mechanical Damage Testing of Contact Finishes for Electrical Connectors (reaffirmation of ANSI/EIA 364-85-2014 (R2015))

BSR/EIA 364-94-2009 (R202x), Transverse Extraction Force Test Procedure for Insulation Displacement Contacts (IDC) for Electrical Connectors (reaffirmation of ANSI/EIA 364-94-2009 (R2015))

BSR/EIA 364-97-1997 (R202x), Housing Panel Retention Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-97-1997 (R2015))

BSR/EIA 364-98-2009 (R202x), Housing Locking Mechanism Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-98-2009 (R2015))

GISC (ASC Z97) (Glazing Industry Secretariat Committee)

Contact: Julia Schimmelpenninck

Phone (413) 730-3413

E-mail: jcschi@eastman.com

Office: 730 Worcester Street
Springfield, MA 01151

BSR Z97.1-2015 (R202x), Safety Glazing Materials Used in Buildings - Safety Performance Specifications and Methods of Test (reaffirmation of ANSI Z97.1-2015)

ISA (International Society of Automation)

Contact: Charles Robinson

Phone (919) 990-9213

E-mail: crobinson@isa.org

Office: 67 Alexander Drive
Research Triangle Park, NC 27709

BSR/ISA 95.00.03-202x, Enterprise-Control System Integration - Part 3: Activity Models of Manufacturing Operations Management (revision and redesignation of ANSI/ISA 95.00.03 (IEC 62264-3 Modified)-2013)

NECA (National Electrical Contractors Association)

Contact: Aga Golriz

Phone (301) 215-4549

E-mail: Aga.golriz@necanet.org

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

BSR/NECA 101-202X, Standard for Installing Steel Conduits
(RMC, IMC, EMT) (revision of ANSI/NECA 101-2006 (R2013))

BSR/NECA 781-202X, Recommended Practice for Installing and
Maintaining Lightning Protection Systems (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:

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

NFPA (National Fire Protection Association)

New Standard

ANSI/NFPA 770-2021, Standard on Hybrid (Water and Inert Gas) Fire Extinguishing Systems (new standard): 4/4/2020

ANSI/NFPA 3000-2021, Standard for an Active Shooter/Hostile Event Response (ASHER) Program (new standard): 4/4/2020

Revision

ANSI/NFPA 3-2021, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3-2018): 4/4/2020

ANSI/NFPA 17A-2021, Standard for Wet Chemical Extinguishing Systems (revision of ANSI/NFPA 17A-2017): 4/4/2020

ANSI/NFPA 54-2021, National Fuel Gas Code (revision of ANSI/NFPA 54-2018): 4/4/2020

ANSI/NFPA 59-2021, Utility LP-Gas Plant Code (revision of ANSI/NFPA 59-2018): 4/4/2020

ANSI/NFPA 90B-2021, Standard for the Installation of Warm Air Heating and Air-Conditioning Systems (revision of ANSI/NFPA 90B-2018): 4/4/2020

ANSI/NFPA 96-2021, Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations (revision of ANSI/NFPA 96-2017): 4/4/2020

ANSI/NFPA 99B-2021, Standard for Hypobaric Facilities (revision of ANSI/NFPA 99B-2018): 4/4/2020

ANSI/NFPA 160-2021, Standard for the Use of Flame Effects Before an Audience (revision of ANSI/NFPA 160-2016): 4/4/2020

ANSI/NFPA 221-2021, Standard for High Challenge Fire Walls, Fire Walls, and Fire Barrier Walls (revision of ANSI/NFPA 221-2018): 4/4/2020

ANSI/NFPA 303-2021, Fire Protection Standard for Marinas and Boatyards (revision of ANSI/NFPA 303-2016): 4/4/2020

ANSI/NFPA 312-2021, Standard for Fire Protection of Vessels During Construction, Conversion, Repair, and Lay-Up (revision of ANSI/NFPA 312-2016): 4/4/2020

ANSI/NFPA 496-2021, Standard for Purged and Pressurized Enclosures for Electrical Equipment (revision of ANSI/NFPA 496-2017): 4/4/2020

ANSI/NFPA 497-2021, Recommended Practice for the Classification of Flammable Liquids, Gases, or Vapors and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (revision of ANSI/NFPA 497-2017): 4/4/2020

ANSI/NFPA 499-2021, Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas (revision of ANSI/NFPA 499-2017): 4/4/2020

ANSI/NFPA 703-2021, Standard for Fire Retardant - Treated Wood and Fire-Retardant Coatings for Building Materials (revision of ANSI/NFPA 703-2018): 4/4/2020

ANSI/NFPA 791-2021, Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation (revision of ANSI/NFPA 791-2018): 4/4/2020

ANSI/NFPA 1192-2021, Standard on Recreational Vehicles (revision of ANSI/NFPA 1192-2018): 4/4/2020

ANSI/NFPA 1192-2021, Standard on Recreational Vehicles (revision of ANSI/NFPA 1192-2018): 4/4/2020

ANSI/NFPA 1801-2021, Standard on Thermal Imagers for the Fire Service (revision of ANSI/NFPA 1801-2018): 4/4/2020

ANSI/NFPA 1952-2021, Standard on Surface Water Operations Protective Clothing and Equipment (revision of ANSI/NFPA 1952-2015): 4/4/2020

ANSI/NFPA 1953-2021, Standard on Protective Ensembles for Contaminated Water Diving (revision of ANSI/NFPA 1953-2016): 4/4/2020

NSF (NSF International)

Revision

ANSI/NSF 350-2020 (i46r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019): 4/3/2020

ANSI/NSF 455-2-2020 (i2r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018): 4/6/2020

PDA (Parenteral Drug Association)

New Standard

ANSI/PDA Standard 001-2020, Enhanced Purchasing Controls to Support the Bio-Pharmaceutical, Pharmaceutical, Medical Devices and Combination Products Industries (new standard): 3/13/2020

TIA (Telecommunications Industry Association)

New Standard

ANSI/TIA 455-82-C-2020, FOTP-82 - Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable (new standard): 4/7/2020

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 61058-2-5-2020, Standard for switches for appliances - Part 2-5: Particular requirements for change-over selectors (national adoption with modifications of IEC 61058-2-5): 3/31/2020

ANSI/UL 61058-2-6-2020, Standard for switches for appliances - Part 2-6: Particular requirements for switches used in electric-motor-operated hand-held tools, transportable tools and lawn and garden machinery (national adoption with modifications of IEC 61058-2-6): 3/31/2020

Revision

ANSI/UL 60079-15-2020, Standard for Safety for Explosive Atmospheres - Part 15: Equipment Protection by Protection "n" (revision of ANSI/UL 60079-15-2013 (R2017)): 4/7/2020

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.

AAFS (American Academy of Forensic Sciences)

Contact: Teresa Ambrosius, (719) 453-1036, tambrosius@aafs.org
410 North 21st Street, Colorado Springs, CO 80904

New Standard

BSR/ASB Std 140-202x, Standard for Training in Forensic Human Mitochondrial DNA Analysis, Interpretation, Statistical Evaluation, and Reporting. (new standard)

Stakeholders: Forensic DNA analysis practitioners and the criminal justice system will be the end users.

Project Need: This document identifies the key elements of an effective training program for forensic human mitochondrial DNA (mtDNA) analysis, interpretation, statistical evaluation, and reporting that produces qualified DNA analysts. Currently, no consensus standards are published on this subject.

This document provides the requirements for a forensic DNA laboratory's training program in forensic human mitochondrial DNA (mtDNA) analysis, interpretation, statistical evaluation, and reporting.

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Jean Walsh, (269) 932-7027, walsh@asabe.org
2950 Niles Road, Saint Joseph, MI 49085

Revision

BSR/ASABE EP585.1 MonYear-202x, Animal Mortality Composting (revision and redesignation of ANSI/ASABE EP585-2015 (R2019))

Stakeholders: USDA, NPPC, EMS, extension agents, livestock producers of all species, research agencies, U.S. Composting Council, animal research facilities, state Departments of Transportation, universities and colleges, relevant state regulatory entities.

Project Need: This project will update the current Standard recommendations for composting animal mortalities.

This Engineering Practice provides guidelines for biosecure, environmentally acceptable, and economically sustainable disposal of livestock and poultry carcasses and carcass parts via composting.

ASME (American Society of Mechanical Engineers)

Contact: Terrell Henry, (212) 591-8489, ansibox@asme.org

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990

New Standard

BSR/ASME/ANS RA-S-1.4-202x, Probabilistic Risk Assessment Standard for Advanced Non-LWR Nuclear Power Plants (new standard)

Stakeholders: All nuclear facilities and other organizations who follow requirements for PRA for advanced non-LWR nuclear power plants.

Project Need: The standard is needed to support design, licensing, and operational risk management for advanced non-LWR nuclear power plants including non-LWR SMRs. It is needed to support PRAs on plants and PRA applications that are not supported by LWR risk metrics such as core damage frequency and large early release frequency.

To establish Level 1 PRA requirements for advanced non-LWR nuclear power plants intended for a broad range of PRA scopes that may include: (a) Different sources of radioactive material both within and outside the reactor core but within the boundaries of the plant whose risks are to be determined in the PRA scope selected by the user; (b) Different plant operating states including various levels of power operation and shutdown modes; (c) Initiating events caused by internal hazards, such as internal events, internal fires, and internal floods, and external hazards such as seismic events, high winds, and external flooding; (d) Different event sequence end states including core or plant damage states, and release categories that are sufficient to characterize mechanistic source terms, including releases from event sequences involving two or more reactor units for PRAs on multi-reactor unit plants; (e) Evaluation of different risk metrics including the frequencies of modeled core and plant damage states, release categories, risks of offsite radiological exposures and health effects, and the integrated risk of the multi-unit plant if that is within the selected PRA scope; and (f) Quantification of the event sequence frequencies, mechanistic source terms, offsite radiological consequences, risk metrics, and associated uncertainties.

AWS (American Welding Society)

Contact: Stephen Borrero, (305) 443-9353, sborrero@aws.org

8669 NW 36th Street, Suite 130, Doral, FL 33166

Revision

BSR/AWS D1.4/D1.4M-202x-AMD1, Structural Welding Code - Steel Reinforcing Bars (revision and redesignation of ANSI/AWS D1.4/D1.4M-2018)

Stakeholders: Engineers within the welding industry.

Project Need: Update the technological advances for reinforcing steel bars

This code covers the requirements for welding steel reinforcing bars in most reinforced concrete applications. It contains a body of rules for the regulations of welding steel reinforcing bars and provides suitable acceptance criteria for such welds.

AWWA (American Water Works Association)

Contact: Paul Olson, (303) 347-6178, polson@awwa.org

6666 W. Quincy Ave., Denver, CO 80235

New Standard

BSR/AWWA C6XX-202x, Installation of Concrete Pressure Pipe (new standard)

Stakeholders: Drinking water treatment and supply industry, water utilities, consulting engineers, water treatment equipment manufacturers.

Project Need: The need for this standard is to provide the minimum requirements for the installation of concrete pressure pipe for potable water, wastewater, reclaimed water, and raw water mains to minimize failures caused due to installation.

This standard describes the minimum requirements for the installation of concrete pressure pipelines, including inspection, unloading, handling, storage, and testing.

IAPMO (Z) (International Association of Plumbing & Mechanical Officials)

Contact: Les Nelson, (909) 218-8112, les.nelson@iapmo.org
5001 East Philadelphia Street, Ontario, CA 91761-2816

New Standard

BSR/IAPMO H1001.1-202x, Hydronic Heating and Cooling System Heat Transfer Fluid Treatment (new standard)

Stakeholders: End users, contractors, manufacturers of hydronic equipment, water-quality-equipment manufacturers, architects, and HVAC engineers.

Project Need: Hydronic heating and cooling systems can reach some of the highest efficiencies of all space conditioning systems available today, however some hydronic systems in the US today fail to reach or maintain their highest potential efficiencies due to poor water quality establishment and maintenance practices. European standards exist to meet this need, but no such standard exists for the US. As architects and engineers strive to reach ever higher levels of energy efficiency in the built environment, hydronic and radiant designs are increasingly the space conditioning system of choice. A standard establishing best practices for maintaining high efficiency operation of these systems is in the interest of all stakeholders.

Hydronic heating and cooling systems function by transferring heating or cooling energy from the heat or cold source to emitters of various types at the load. In order for a hydronic system to operate at the highest level of efficiency, and in order to prevent damage to system components including pumps, valves, tanks, boilers, chillers and other components, the quality of the heat or cold transfer fluid (water, or water/antifreeze mix) must be established at system startup, and maintained over the life of the system. This standard establishes best practices for maintaining hydronic system water quality.

ISA (International Society of Automation)

Contact: Charles Robinson, (919) 990-9213, crobinson@isa.org
67 Alexander Drive, Research Triangle Park, NC 27709

Revision

BSR/ISA 95.00.03-202x, Enterprise-Control System Integration - Part 3: Activity Models of Manufacturing Operations Management (revision and redesignation of ANSI/ISA 95.00.03 (IEC 62264-3 Modified)-2013)

Stakeholders: Those involved in manufacturing operations management across multiple industrial sectors.

Project Need: To update Part 3 of the ISA-95 series of standards.

Defines activity models of manufacturing operations management that enable enterprise system to control system integration. The modeled activities operate between business planning and logistics functions, defined as the Level 4 functions and the process control functions, defined as the Level 2 functions of the Purdue Enterprise Reference Architecture. The scope of this standard is limited to:

- A model of the activities associated with manufacturing operations management, Level 3 functions; and
- An identification of some of the data exchanged between Level 3 activities.

PHTA (Pool and Hot Tub Alliance)

Contact: Susan Hilaski, (703) 838-0083, shilaski@phta.org; glynn@phta.org
2111 Eisenhower Avenue, Suite 500, Alexandria, VA 22314

Revision

BSR/PHTA/ICC-4-202x, Standard for Aboveground/Onground Residential Swimming Pools (revision, redesignation and consolidation of ANSI/APSP 4-2012, ANSI/APSP 4 Addenda-2013)

Stakeholders: Manufacturers and producers of aboveground/onground residential swimming pools as well as consumers who wish to enjoy this pool type.

Project Need: To incorporate previously approved addenda language in the proposed revision of the Standard for Aboveground/Onground Residential Swimming Pools. The standard describes certain criteria for the design, manufacturing, testing, care, and use of aboveground/onground residential (Type-O) non-diving swimming pools and their components.

Aboveground/onground residential (Type-O) non-diving swimming pools are defined as pools with a shallow area water depth of 36 in. (914 mm) minimum at the wall and a water depth of 48 in. maximum (1219 mm) at the wall. This includes portable pools with flexible/non-rigid or rigid side walls which achieve their structural integrity by means of uniform shape, support frame or a combination thereof, and can be disassembled for storage or relocation.

Address information the manufacturers of onground storable pools shall provide in their written instructions, the location of the pool in accordance with the manufacturer's instructions as well as location of pool in regards to electrical receptacles.

BSR/PHTA/ICC-15-202x, Standard for Residential Swimming Pool and Spa Energy Efficiency (revision, redesignation and consolidation of ANSI/APSP/ICC S-15-2011, ANSI/APSP/ICC S-15 (Addenda)-2013)

Stakeholders: Designers, builders and manufacturers of residential swimming pools, spas and hot tubs; local government officials/policymakers, state officials/policymakers, regulators, regional/national energy-efficiency groups, energy-efficiency service providers/vendors, consumer advocates, and consumers.

Project Need: To incorporate language from a previously approved addenda/supplement in a proposed revision of the Standard for Residential Swimming Pool and Spa Energy Efficiency. The standard covers energy efficiency requirements for permanently installed residential aboveground/onground and inground swimming pools and inground spas operated by the property owner and used for bathing. It is intended to cover certain aspects of the swimming pool filtration - system design; equipment, including pool and spa heaters; installation; and operational capabilities, for the purpose of minimizing energy consumption while maintaining water quality and temperature.

To address maximum filtration flow rate for multi-speed and variable-speed pumps only, efficiency procedures required for multi-speed and variable speed pumps, and system equipment (filters sizing and system piping and circulation).

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 (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 "American National Standards Maintained Under Continuous Maintenance." Questions? psa@ansi.org.

ANSI-Accredited Standards Developers Contact Information

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

AAFS

American Academy of Forensic Sciences
410 North 21st Street
Colorado Springs, CO 80904
Phone: (719) 453-1036
Web: www.aafs.org

AARST

American Association of Radon
Scientists and Technologists
527 Justice Street
Hendersonville, NC 28739
Phone: (202) 830-1110
Web: www.aarst.org

ALI (ASC A14)

American Ladder Institute
330 N. Wabash Avenue
Suite 2000
Chicago, IL 60611-6610
Phone: (312) 321-6806
Web: www.americanladderinstitute.org

ASABE

American Society of Agricultural and
Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7027
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

ASME

American Society of Mechanical
Engineers
Two Park Avenue
M/S 6-2B
New York, NY 10016-5990
Phone: (212) 591-8489
Web: www.asme.org

ATIS

Alliance for Telecommunications
Industry Solutions
1200 G Street NW
Suite 500
Washington, DC 20005
Phone: (202) 628-6380
Web: www.atis.org

AWS

American Welding Society
8669 NW 36th Street
Suite 130
Doral, FL 33166
Phone: (305) 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

ECIA

Electronic Components Industry
Association
13873 Park Center Road
Suite 315
Herndon, VA 20171
Phone: (571) 323-0294
Web: www.ecianow.org

GISC (ASC Z97)

Glazing Industry Secretariat Committee
730 Worcester Street
Springfield, MA 01151
Phone: (413) 730-3413
Web: www.ansiz97.com

HL7

Health Level Seven
3300 Washtenaw Avenue
Suite 227
Ann Arbor, MI 48104
Phone: (734) 677-7777
Web: www.hl7.org

IAPMO (Z)

International Association of Plumbing &
Mechanical Officials
5001 East Philadelphia Street
Ontario, CA 91761-2816
Phone: (909) 218-8112
Web: <https://www.iapmostandards.org>

ISA (Organization)

International Society of Automation
67 Alexander Drive
Research Triangle Park, NC 27709
Phone: (919) 990-9213
Web: www.isa.org

MHI

Material Handling Industry
8720 Red Oak Boulevard
Suite 201
Charlotte, NC 28217
Phone: (704) 714-8755
Web: www.mhi.org

NECA

National Electrical Contractors
Association
3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814
Phone: (301) 215-4549
Web: www.neca-neis.org

NEMA (ASC C12)

National Electrical Manufacturers
Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 477-9997
Web: www.nema.org

NEMA (ASC C82)

National Electrical Manufacturers
Association
1300 N 17th St
Rosslyn, VA 22209
Phone: (703) 841-3262
Web: www.nema.org

NEMA (ASC W1)

National Electrical Manufacturers
Association

1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3278
Web: www.nema.org

NFPA

National Fire Protection Association

One Batterymarch Park
Quincy, MA 02269-9101
Phone: (617) 984-7248
Web: www.nfpa.org

NSF

NSF International

789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 418-6660
Web: www.nsf.org

PDA

Parenteral Drug Association

Bethesda Towers, 4350 East-West
Highway
Bethesda, MD 20814
Phone: (301) -656-5900-
Web: www.pda.org

PHTA

Pool and Hot Tub Alliance

2111 Eisenhower Avenue
Suite 500
Alexandria, VA 22314
Phone: (703) 838-0083
Web: www.PHTA.org

TIA

Telecommunications Industry
Association

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

UL

Underwriters Laboratories, Inc.

12 Laboratory Drive
P.O. Box 13995
Research Triangle Park, NC 27709-3995
Phone: (919) 549-1391
Web: www.ul.com



IEC Draft International Standards

This section lists proposed standards that the International Electrotechnical Commission (IEC) is considering for approval. The proposals have received substantial support within the technical committees or subcommittees that developed them and are now being circulated to 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 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

IEC Drafts can be made available by contacting ANSI's Customer Service department. Please e-mail your request for an 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.

-
- 21A/727A/NP, PNW 21A-727: General guidance for reuse of secondary cells and batteries, 020/7/3/
 - 23B/1319/FDIS, IEC 63180 ED1: Methods of measurement and declaration of the detection range of detectors - Passive infrared detectors for major and minor motion detection, 2020/5/22
 - 31G/318(F)/FDIS, IEC 60079-25 ED3: Explosive atmospheres - Part 25: Intrinsically safe electrical systems, 020/5/1/
 - 45B/960/CD, IEC 61526 ED4: Radiation protection instrumentation - Measurement of personal dose equivalents Hp(10), Hp(3) and Hp(0,07) for X, gamma, neutron and beta radiations - Direct reading personal dosimeters, 020/7/3/
 - 45A/1312/CDV, IEC 61468 ED2: Nuclear power plants - Instrumentation systems important to safety - In-core instrumentation: Characteristics and test methods of self-powered neutron detectors, 020/7/3/
 - 45A/1327/NP, PNW 45A-1327: Nuclear facilities - Electrical power systems - Part 387: Diesel generator units applied as standby power sources, 020/7/3/
 - 46C/1151/DTR, IEC TR 62222 ED3: Fire performance of communication cables installed in buildings, 020/6/5/
 - 48D/722/FDIS, IEC 62966-2/Ed.1.0: Mechanical structures for electrical and electronic equipment - Aisle containment for IT cabinets - Part 2: Details of air flow, air separation and air cooling requirements, 2020/5/22
 - 48B/2810/FDIS, IEC 60352-5 ED5: Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance, 2020/5/22
 - 59A/229(F)/FDIS, IEC 60436/AMD1 ED4: Amendment 1 - Electric dishwashers for household use - Methods for measuring the performance, 2020/4/24
 - 59F/395/FDIS, IEC 60704-2-17 ED1: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-17: Particular requirements for dry-cleaning robots, 2020/5/22
 - 65C/1012/CD, IEC 61918/AMD1 ED4: Amendment 1 - Industrial communication networks - Installation of communication networks in industrial premises, 020/7/3/
 - 86C/1664/CD, IEC 62148-21 ED2: Fibre optic active components and devices - Package and interface standards - Part 21: Design guide of electrical interface of PIC packages using silicon fine-pitch ball grid array (S-FBGA) and silicon fine-pitch land grid array (S-FLGA), 020/7/3/
 - 79/634/FDIS, IEC 60839-11-5 ED1: Alarm and electronic security systems - Part 11-5: Electronic access control systems - Open supervised device protocol (OSDP), 2020/5/22
 - 88/761/NP, PNW TS 88-761: Wind energy generation systems - Part 9: Probabilistic design measures for wind turbines, 020/7/3/
 - 9/2593/CD, IEC 62590-1 ED1: Railway applications - Fixed installations - Electronic Power Converters - Part 1: General requirements, 020/7/3/
 - 97/216/FDIS, IEC 63067 ED1: Electrical installations for lighting and beaconing of aerodromes - Connecting devices - General requirements and tests, 2020/5/22
 - 10/1117(F)/FDIS, IEC 60296 ED5: Fluids for electrotechnical applications - Mineral insulating oils for electrical equipment, 020/5/1/
 - 106/514/FDIS, IEC/IEEE 62209-1528 ED1: Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-worn wireless communication devices - Part 1528: Human models, instrumentation and procedures (Frequency range of 4 MHz to 10 GHz), 2020/5/22
 - 106/515/FDIS, IEC/IEEE 62704-4 ED1: Determining the peak spatial-average specific absorption rate (SAR) in the human body from wireless communications devices, 30 MHz to 6 GHz - General requirements for using the finite-element method (FEM) for SAR calculations, 2020/5/22
 - 113/539/DTS, IEC TS 62607-8-2: Nanomanufacturing - Key control Characteristics - Part 8-2: Nano-enabled metal-oxide interfacial devices - Test method for the polarization properties by thermally stimulated depolarization current, 020/7/3/
 - 13/1805A(F)/FDIS, IEC 62053-21 ED2: Electricity metering equipment - Particular requirements - Part 21: Static meters for AC active energy (classes 0,5, 1 and 2), 020/5/8/

13/1806A(F)/FDIS, IEC 62053-22 ED2: Electricity metering equipment
- Particular requirements - Part 22: Static meters for AC active energy (classes 0,1S, 0,2S and 0,5S), 020/5/8/

13/1807A(F)/FDIS, IEC 62053-23 ED2: Electricity metering equipment
- Particular requirements - Part 23: Static meters for reactive energy (classes 2 and 3), 020/5/8/

13/1809/CD, IEC 62055-31 ED2: Electricity metering - Payment systems - Part 31: Particular requirements - Static payment meters for active energy (classes 1 and 2), 020/6/5/

51/1338/CD, IEC TR 63307 ED1: Measurement methods of the complex relative permeability and the complex relative permittivity of noise suppression sheet, 020/6/5/

55/1840(F)/FDIS, 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, 020/5/1/

55/1844(F)/FDIS, IEC 60317-60-2 ED1: Specifications for particular types of winding wires - Part 60-2: Polyester glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, temperature index 155, 020/5/1/

55/1845(F)/FDIS, IEC 60317-70-1 ED1: Specifications for particular types of winding wires - Part 70-1: Polyester glass-fibre wound unvarnished and fused, bare or enamelled round copper wire, temperature index 155, 020/5/1/

55/1846(F)/FDIS, IEC 60317-70-2 ED1: Specifications for particular types of winding wires - Part 70-2: Polyester glass-fibre wound resin/varnish impregnated, bare or enamelled round copper wire, temperature index 155, 020/5/1/

55/1847(F)/FDIS, IEC 60317-0-2 ED4: Specifications for particular types of winding wires - Part 0-2: General requirements - Enamelled rectangular copper wire, 020/5/8/

55/1848(F)/FDIS, IEC 60317-82 ED1: Specifications for particular types of winding wires - Part 82: Polyesterimide enamelled rectangular copper wire, class 200, 020/5/8/

55/1850(F)/FDIS, IEC 60317-60-1 ED1: Specifications for particular types of winding wires - Part 60-1: Polyester glass-fibre wound fused, unvarnished, bare or enamelled rectangular copper wire, temperature index 155, 020/5/8/

82/1724/CD, IEC TS 63109 ED1: Measurement of diode ideality factor by quantitative analysis of electroluminescence images, 020/7/3/

100/3399/CDV, IEC 62106-9 ED1: Radio Data System (RDS) - VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz - Part 9: RBDS RDS variant used in North America (TA 1), 020/7/3/

100/3400/CDV, IEC 62106-10 ED1: Radio Data System (RDS) - VHF/FM sound broadcasting in the frequency range from 64,0 MHz to 108,0 MHz - Part 10: UECP - Universal Encoder Communication Protocol (TA 1), 020/7/3/

100/3421/CD, IEC 63002 ED2: Interoperability specifications and communication method for external power supplies used with computing and consumer electronics devices (TA 18), 020/6/5/

110/1188/CDV, IEC 62977-2-1 ED1: Electronic displays - Part 2-1: Measurements of optical characteristics - Fundamental measurements, 020/6/5/

CIS/A/1316(F)/FDIS, CISPR 16-1-4/AMD1 ED4: Amendment 1: Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements, 020/5/1/

CIS/F/793/DC, Electrical Fast Transient testing requirements in CISPR 14-2, 020/7/3/

CIS/I/639/DC, Electrical Fast Transient testing requirements in CISPR 35, 020/7/3/



Newly Published ISO & IEC Standards

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

ISO Standards

[ISO 9660/Amd2:2020](#), Information processing - Volume and file structure of CD-ROM for information interchange - Amendment 2, \$19.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

[ISO 7076-6/Amd1:2020](#), Fire protection - Foam fire extinguishing systems - Part 6: Vehicle mounted compressed air foam systems - Amendment 1, \$19.00

FASTENERS (TC 2)

[ISO 3506-2:2020](#), Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 2: Nuts with specified grades and property classes, \$162.00

INDUSTRIAL TRUCKS (TC 110)

[ISO 10896-1:2020](#), Rough-terrain trucks - Safety requirements and verification - Part 1: Variable-reach trucks, \$185.00

QUALITY MANAGEMENT AND QUALITY ASSURANCE (TC 176)

[ISO 10018:2020](#), Quality management - Guidance for people engagement, \$68.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 16165:2020](#), Ships and marine technology - Marine environment protection - Vocabulary relating to oil spill response, \$45.00

SMALL CRAFT (TC 188)

[ISO 15083:2020](#), Small craft - Bilge-pumping systems, \$68.00

[ISO 25197:2020](#), Small craft - Electrical/electronic control systems for steering, shift and throttle, \$138.00

TIMBER STRUCTURES (TC 165)

[ISO 22389-2:2020](#), Timber structures - Bending applications of I-beams - Part 2: Component performance and manufacturing requirements, \$68.00

WOOD-BASED PANELS (TC 89)

[ISO 2426-1:2020](#), Plywood - Classification by surface appearance - Part 1: General, \$45.00

[ISO 2426-2:2020](#), Plywood - Classification by surface appearance - Part 2: Hardwood, \$45.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 18038:2020](#), Information technology - Computer graphics, image processing and environmental representation - Sensor representation in mixed and augmented reality, \$209.00

IEC Standards

AUTOMATIC CONTROLS FOR HOUSEHOLD USE (TC 72)

[IEC 60730-2-9 Ed. 4.2 en:2020](#), Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control, \$586.00

[IEC 60730-2-9 Amd.2 Ed. 4.0 b:2020](#), Amendment 2 - Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control, \$12.00

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

[IEC 60352-3 Ed. 2.0 b:2020](#), Solderless connections - Part 3: Accessible insulation displacement (ID) connections - General requirements, test methods and practical guidance, \$281.00

[IEC 61076-8-100 Ed. 1.0 b:2020](#), Connectors for electrical and electronic equipment - Product requirements - Part 8-100: Power connectors - Detail specification for 2-pole or 3-pole power plus 2-pole signal shielded and sealed connectors with plastic housing for rated current of 20 A, \$235.00

[IEC 61076-8-101 Ed. 1.0 b:2020](#), Connectors for electrical and electronic equipment - Product requirements - Part 8-101: Power connectors - Detail specification for 2-pole or 3-pole power plus 2-pole signal shielded and sealed connectors with plastic housing for rated current of 40 A, \$235.00

FIBRE OPTICS (TC 86)

[IEC 61977 Ed. 4.0 b:2020](#), Fibre optic interconnecting devices and passive components - Fibre optic fixed filters - Generic specification, \$199.00

[IEC 61754-35 Ed. 1.0 b:2020](#), Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 35: Type LSHE connector family for harsh environments, \$117.00

[IEC 62343-3-3 Ed. 2.0 b:2020](#), Dynamic modules - Part 3-3: Performance specification templates - Wavelength selective switches, \$82.00

[IEC 61753-061-2 Ed. 2.0 b:2020](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 061-2: Single-mode fibre optic pigtailed style polarization independent isolators for category C - Controlled environments, \$164.00

[S+ IEC 61977 Ed. 4.0 en:2020 \(Redline version\)](#), Fibre optic interconnecting devices and passive components - Fibre optic fixed filters - Generic specification, \$259.00

[S+ IEC 62343-3-3 Ed. 2.0 en:2020 \(Redline version\)](#), Dynamic modules - Part 3-3: Performance specification templates - Wavelength selective switches, \$107.00

[S+ IEC 61753-061-2 Ed. 2.0 en:2020 \(Redline version\)](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 061-2: Single-mode fibre optic pigtailed style polarization independent isolators for category C - Controlled environments, \$213.00

INSULATING MATERIALS (TC 15)

[IEC 60667-1 Ed. 2.0 b:2020](#), Vulcanized fibre for electrical purposes - Part 1: Definitions and general requirements, \$47.00

PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)

[IEC 63086-1 Ed. 1.0 b:2020](#), Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 1: General requirements, \$117.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-40 Ed. 6.0 b:2018](#), Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers, \$375.00

IEC Technical Reports

ELECTROMAGNETIC COMPATIBILITY (TC 77)

[IEC/TR 61000-2-1 Ed. 1.0 b:1990](#), Electromagnetic compatibility (EMC) - Part 2: Environment - Section 1: Description of the environment - Electromagnetic environment for low-frequency conducted disturbances and signalling in public power supply systems, \$164.00

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

[IEC/TR 63141 Ed. 1.0 en:2020](#), Damp heat, steady state (unsaturated pressurized vapour with air), \$317.00

IEC Technical Specifications

NANOTECHNOLOGY STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS AND SYSTEMS (TC 113)

[IEC/TS 62607-2-4 Ed. 1.0 en:2020](#), Nanomanufacturing - Key control characteristics - Part 2-4: Carbon nanotube materials - Test methods for determination of resistance of individual carbon nanotubes, \$117.00

[IEC/TS 62607-8-1 Ed. 1.0 en:2020](#), Nanomanufacturing - Key control characteristics - Part 8-1: Nano-enabled metal-oxide interfacial devices - Test method for defect states by thermally stimulated current, \$199.00

OTHER

[IEC/TS 63134 Ed. 1.0 en:2020](#), Active assisted living (AAL) use cases, \$375.00

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 5/SC 1 – Steel Tubes

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 5/SC 1, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 5/SC 1 operates in the area of Steel Tubes under the scope of ISO/TC 5:

Standardization in the field of steel tubes, cast iron pipes, flexible metallic tubes and metallic fittings, flanges, pipe supports, pipe threads and gauges, metallic and organic coatings and protections.

Excluded :

- steel for tubes (ISO / TC 17);
- aircraft pipes (ISO / TC 20);
- tubes and equipment (other than flanges) pipe threads and gauging within the field of work of the petroleum and natural gas industries (ISO / TC 67);
- connections for fluid power systems (ISO / TC 131).

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

ISO/TC 17 – Steel

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

ISO/TC 17 operate under the following scope:

Standardization in the field of cast, wrought and cold-formed steel, including technical delivery conditions for steel tubes for pressure purposes.

Excluded:

- steel tubes within the scope of ISO / TC 5;
- line pipe, casing, tubing and drill pipe within the scope of ISO / TC 67;
- methods of mechanical testing of metals within the scope of ISO / TC 164.

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

ISO/TC 17/SC 19 – Technical Delivery Conditions for Steel Tubes for Pressure Purposes

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17/SC 19, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 17/SC 19 operate under the following scope:

Maintenance of existing ISO Standards and preparation of new ISO Standards for technical delivery conditions for steel tubes for pressure purposes, in liaison with ISO/TC 5 and ISO/TC 11. Excluded from this area of work are all other standards for tubes whatever their use and particularly the standards related to ISO/TC 67 and the standards on tubes for transportation of water, gas and sewage.

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

New Secretariats

ISO/TC 171/SC 2 – Document file formats, EDMS Systems and Authenticity of Information

Comment Deadline: April 27, 2020

The PDF Association, Inc. has requested ANSI to delegate the responsibilities of the administration of the ISO/TC 171/SC 2 secretariat to the PDF Association, Inc. The secretariat was previously held by the 3D PDF Consortium, which was recently acquired by the PDF Association, Inc., and the secretariat transfer is supported by the U.S. TAG.

ISO/TC 171/SC 2 operates under the following scope:

- Logical aspects of storage and preservation (short and long term)
- File formats
- EDMS functionalities and architecture
- Evaluations and qualification of EDMS
- Workflow
- Authenticity of information

Organizations wishing to comment on the delegation of the responsibilities should contact ANSI's ISO Team (isot@ansi.org).

ISO Proposal for a New Field of ISO Technical Activity

Biodiversity

Comment Deadline: April 17, 2020

AFNOR, the ISO member body for France, has submitted to ISO a proposal for a new field of ISO technical activity on Biodiversity, with the following scope statement:

Standardization in the field of Biodiversity to develop requirements, principles, framework, guidance and supporting tools in a holistic and global approach for all relevant organizations, to enhance their contribution to Sustainable Development.

Excluded: standardization of test and measurement methods for ecological quality of water, air, soil and marine environment.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 17, 2020.

Security Equipment for Financial Institutions and Commercial Organizations

Comment Deadline: April 17, 2020

BSI, the ISO member body for India, has submitted to ISO a proposal for a new field of ISO technical activity on Security Equipment for Financial Institutions and Commercial Organizations, with the following scope statement:

Standardization in the field of safes, cash boxes, strong room doors and safe deposit locker cabinets, ventilation equipment for strong room used in banks, financial institutions and commercial organization etc.

The standards formulated by this technical committee deals with specification and test methods of physical security products used in banks, financial institutions, commercial organization and by jewellers.

Excluded are the fields covered by ISO/TC 68 (Financial services).

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 17, 2020.

International Electrotechnical Commission (IEC)

Representative Needed

MSB (Market Strategy Board)

The MSB, which reports to the CB (Council Board), identifies the principal technological trends and market needs in the IEC's fields of activity.

Individuals who are interested in becoming a member of the MSB are invited to contact Ade Gladstein at agladstein@ansi.org as soon as possible.

Please see the scope for the MSB below.

Scope:

The MSB sets strategies to maximize input from primary markets and establishes priorities for the technical and conformity assessment work of the IEC, improving the Commission's response to the needs of innovative and fast-moving markets. It may establish SWGs (Special Working Groups) under the leadership of an MSB member to investigate certain subjects in depth or to develop a specialized document.

The MSB comprises a chairman, 15 top-level technology officers as members appointed from industry, and (ex officio) the IEC Officers. The MSB meets at least once a year.

Meeting Notices

U.S. TAG to ISO TC 299 – Robotics

ANSI-Accredited Standards Committee: U.S. TAG to ISO TC 299, Robotics

Meeting Format & Location: Remote via GoToMeeting

Purpose: Monthly standing meeting to discuss U.S. positions on ballots, and preparations for U.S. participation in meetings, of the ISO TC 299, Robotics, and its Working Groups (WGs).

Standing Day/Date/Time: 3rd Wednesday of each month (unless a holiday or similar); 2:30 – 4:00 PM (ET).

Next Monthly Meeting will be: Thursday, May 21, 2020, 2:30 – 4:00 PM (ET)

For More Information: Contact Carole Franklin, cfranklin@robotics.org.

ANSI-Accredited Standards Committee: U.S. TAG to ISO TC 299, Robotics

Meeting Format & Location: Remote via GoToMeeting

Purpose: Discuss U.S. Position and Comments on ISO/DIS 8373.

Day/Date/Time: Thursday, May 21, 2020, 2:30 – 4:00 PM (ET)

For More Information: Contact Carole Franklin, cfranklin@robotics.org.

ANSI-Accredited Standards Committee: U.S. TAG to ISO TC 299, Robotics

Meeting Format & Location: Remote via GoToMeeting

Purpose: Discuss U.S. Position and Comments on ISO/NP 5124.

Day/Date/Time: Tuesday, June 2, 2020, 2:30 – 4:00 PM (ET)

For More Information: Contact Carole Franklin, cfranklin@robotics.org.

Information Concerning

American National Standards

Call for Members

AAMI/ISO Standards

Comment Deadline: June 1, 2020

AAMI (www.aami.org) is actively seeking participation in the following standards development work and in the interest categories specified:

AAMI/ISO 8637-1, *Extracorporeal systems for blood purification series, Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators*. Specifies requirements for haemodialysers, haemodiafilters, haemofilters and haemoconcentrators, for use in humans. Seeking industry/general interest/regulator members. To apply or obtain additional information, please contact Cliff Bernier at cbernier@aami.org by June 1, 2020.

AAMI/ISO 8637-2, *Extracorporeal systems for blood purification, Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters*. Specifies requirements for the blood circuit for devices used in extracorporeal blood filtration therapies such as, but not limited to, haemodialysis, haemodiafiltration, haemofiltration and transducer protectors (integral and non-integral) intended for use in such circuits. Seeking industry/general interest/regulator members. To apply or obtain additional information please contact Cliff Bernier at cbernier@aami.org by June 1, 2020.

AAMI/ISO 8637-3, *Extracorporeal systems for blood purification, Part 3: Plasmafilters*. Specifies requirements and acceptance criteria (including test methods) for safety related parameters for plasmafilters. Specifies requirements for sterile, single-use plasmafilters, intended for use on humans. Seeking industry/general interest/regulator members. To apply or obtain additional information please contact Cliff Bernier at cbernier@aami.org by June 1, 2020.



American National Standards (ANS) – Where to find Procedures, Guidance, Interpretations and More...

Please visit ANSI's website (www.ansi.org) for resources that will help you to understand, administer and participate in the American National Standards (ANS) process. Documents posted at these links are updated periodically as new documents and guidance are developed, whenever ANS-related procedures are revised, and routinely with respect to lists of proposed and approved ANS. The main ANS-related link is www.ansi.org/asd and here are some direct links as well as highlights of information that is available:

- *ANSI Essential Requirements: Due process requirements for American National Standards* (always current edition): www.ansi.org/essentialrequirements
- ANSI Standards Action (weekly public review announcements of proposed ANS and standards developer accreditation applications, listing of recently approved ANS, and proposed revisions to ANS-related procedures): www.ansi.org/standardsaction
- Accreditation information – for potential developers of American National Standards (ANS): www.ansi.org/sdoaccreditation
- ANS Procedures, ExSC Interpretations and Guidance (including a slide deck on how to participate in the ANS process and the BSR-9 form): www.ansi.org/asd
- Lists of ANSI-Accredited Standards Developers (ASDs), Proposed ANS and Approved ANS: www.ansi.org/asd
- American National Standards Key Steps: www.ansi.org/anskeysteps
- American National Standards Value: www.ansi.org/ansvalue
- ANS Web Forms for ANSI-Accredited Standards Developers - PINS, BSR8|108, BSR11, Technical Report: www.ansi.org/PSAWebForms
- Information about standards Incorporated by Reference (IBR): www.ansi.org/ibr
- ANSI - Education and Training: www.standardslearn.org

If you have a question about the ANS process and cannot find the answer quickly, please send an email to psa@ansi.org.

Please also visit Standards Boost Business at www.standardsboostbusiness.org for resources about why standards matter, testimonials, case studies, FAQs and more.

If you are interested in purchasing an American National Standard, please visit <https://webstore.ansi.org/>



**BSR/ASHRAE/ASHE Addendum d
to ANSI/ASHRAE/ASHE Standard 170-2017**

Public Review Draft

Proposed Addendum d to Standard 170-2017, Ventilation of Health Care Facilities

**Third Public Review (March 2020)
(Draft shows Proposed Independent Substantive Changes
to Previous Public Review Draft)**

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

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

(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 offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

This proposed addendum adds requirements and language similar to those required in Section 5 (Systems and Equipment) of ASHRAE Standard 62.1. Requirements include:

1. *Air intake separation distance table adapted for 170 requirements.*
2. *Outdoor air verification requirements while operating.*
3. *Measures to prevent vehicle combustion in parking garages from entering the building.*
4. *Air balancing requirements.*

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

Addendum d to 170-2017

Modify 6.3.1 Outdoor Air Intakes and Exhaust Discharges as shown below (changes highlighted in yellow). The remainder of Section 6.3 is unchanged.

6.3.1 Outdoor Air Intakes

6.3.1.1 General. Outdoor air intakes for AHU shall be located such that the shortest distance from the intake to any specific potential outdoor contaminant source shall be equal to or greater than the separation distance listed in Table 6.3.1.1 and comply with all other requirements of this section. New facilities with moderate-to-high risk of natural or man-made extraordinary incidents shall locate air intakes away from public access. All intakes shall be designed to prevent the entrainment of wind-driven rain, shall contain features for draining away precipitation, and shall be equipped with a birdscreen of mesh no smaller than 0.5 in. (13 mm).

Exception 1 to 6.3.1.1: For gas fired, packaged rooftop units, the separation distance of the unit's outdoor air intake from its flue may be less than 25 ft (8 m). The separation distance shall be greater than or equal to the distance prescribed in ANSI/ASHRAE Standard 62.1, Section 5.5.1.2.

Exception 2 to 6.3.1.1: For plumbing vents terminating with stack-type air admittance valves installed less than 3 feet (1m) above the level of the outdoor air intake the minimum separation distance may be 10 feet (3 m). For plumbing vents terminating with stack-type air admittance valves installed at least 3 feet (1m) above the level of the outdoor air intake the minimum separation distance may be 3 feet (1 m).

Exception 3 to 6.3.1.1: If permitted by the AHJ based on an engineering analysis of reentrainment, separation distances may be decreased below table 6.3.1.1 values for cooling towers and exhaust and vent discharges and an alternate location may be used. The submitted reentrainment analysis shall demonstrate that an exhaust discharge outlet located at a distance less than required by table 6.3.1.1 provides a lower concentration of reentrainment than all the areas located at a distance greater than required by table 6.3.1.1 on the roof level where the exhaust discharge is located.

(Informative Note: e.g., located adjacent to an air intake but with the exhaust discharge point above the top of the air intake)

Table 6.3.1.1 Air Intake Minimum Separation Distance

Potential Outdoor Contaminant Source	Minimum Distance, ft (m)
Class 2 air relief outlet	10 (3)
Required exhaust from ASHRAE 62.1 Table 6.5 or other codes	25 (7.5)
Required exhaust from Table 7.1, 8.1, or 9.1 or Class 3 air exhaust/relief outlet	25 (7.5)
Required exhaust from Section 6.3.2.2 or Class 4 air exhaust/relief outlet	30 (10)
Plumbing vents	25 (7.5)
Vents, chimneys, and flues from combustion appliances and equipment	25(7.5)
Garage Entry, automobile loading area, or drive-in queue	See Note 1
Truck loading area or dock, bus parking/idling area	See Note 1
Driveway, landscaped grade, sidewalk, street, or parking place directly below intake	5 (1.6)
Thoroughfare with high vehicle traffic volume	See Note 1
Roof or other above-grade surface directly below intake	3 (1)
Garbage storage/pick-up area, dumpsters	See Note 1
Cooling tower exhaust, intake, or basin	25 (7.5)

Note 1: Refer to ANSI/ASHRAE 62.1, Table 5.5.1¹.

6.3.1.2 Air-Handling System Controls. Provide air-handling systems and equipment with manual or automatic controls to maintain the required space minimum outdoor airflow and space minimum total air changes per hour under all design conditions, including any space unoccupied turndown conditions.

6.3.1.2.1 All systems shall allow for field verification of outdoor air intake flow during operation and be provided with manual or automatic controls to maintain not less than the outdoor air intake flow required by Section 7, Section 8, and Section 9 under all load conditions or unoccupied turndown conditions.

6.3.1.3 Relief Air. Relief air is exempt from the 25 ft (7.5 m) separation requirement. Relief air is defined as air that could be returned to the air-handling unit from the occupied spaces but is being discharged to the outdoors to maintain building pressurization (such as during air-side economizer operation) is exempt from the separation requirement listed in Table 6.3.1.1 for the respective air handling unit's outdoor air intake opening.

Informative Note: For more information, see ASHRAE Standard 62.1 (ASHRAE 2016a) in Appendix B.

6.3.1.4 Areaways. [...]

6.3.2 Exhaust Discharges

[...]

6.3.2.3 Health Care Facilities with attached Parking Garages. In order to minimize the entry of vehicular exhaust into occupiable spaces, Health Care Facilities with attached parking garages shall comply with ANSI/ASHRAE Standard 62.1, Section 5.15¹.

6.3.3 Combustion Air. Fuel-burning appliances, both vented and unvented, comply with ANSI/ASHRAE Standard 62.1, Section 5.7¹.

Modify Section 6.7.6 Air Balancing as shown below.

6.7.6 Air Balancing

6.7.6.1 Designing for Air Balancing. The air distribution system shall be provided with means to adjust the system to achieve at least the minimum outdoor airflow and the minimum total air changes per hour as required by Section 7, Section 8, and Section 9 under any load condition.

6.7.6.2 Plenum Systems. When the ceiling or floor plenum is used to recirculate return to ceiling-mounted or floor-mounted terminal units the plenum system shall not be used to distribute outdoor air.

Informative Note: Systems with direct connection of outdoor air ducts to terminals units, for example, comply with this requirement.

6.7.6.3 Documentation. The design documents shall specify minimum requirements for air balance testing or reference applicable national standards for measuring and balancing airflow.

6.7.7 Building Exfiltration. Outdoor Air ventilation systems for a building shall be designed such that the total building outdoor air intake equals or exceeds the total building exhaust under all load and unoccupied turndown conditions.

Exceptions: Where an imbalance is required by process considerations and approved by the authority having jurisdiction.

Modify Section 6.9 Insulation and Duct Lining as shown below.

6.9 Insulation and Duct Lining

- a. Pipes, ducts, and other surfaces within the building whose surface temperatures are expected to fall below the surrounding dew-point temperature shall be insulated to prevent condensation and provided with an exterior vapor barrier. A vapor barrier is not required for insulation materials that do not absorb or transmit moisture.
- b. Existing insulation and duct lining accessible during a renovation project shall be inspected, repaired, and/or replaced as appropriate.
- c. Duct lining shall not be used in ductwork located down-stream of Filter Bank No. 2. Duct lining with an impervious cover may be allowed in terminal units, sound attenuators, and air distribution devices downstream of Filter Bank No. 2. This lining and cover shall be factory installed.
- d. Duct lining shall not be installed within 15 ft (4.57 m) downstream of humidifiers.

STANDARD

BSR/ASHRAE/ASHE Addendum e to ANSI/ASHRAE/ASHE Standard 170-2017

Public Review Draft

Proposed Addendum e to Standard 170-2017, Ventilation of Health Care Facilities

Second Public Review (March 2020)
**(Draft shows Proposed Independent Substantive Changes
to Previous Public Review Draft)**

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

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FOREWORD

A summary of proposed Addendum e original changes:

1. Clarify Chapter 5 through editing, organizing paragraphs, moving planning requirements listed in Chapter 10 to Chapter 5.
2. Modify Chapter 10 to address the intent behind Change Proposal 170-16-12-0001/007, harmonizing the Chapter 10 Construction and Start-up requirements with those in ASHRAE Standard 62.1. The SSPC 170 feels the changes represent minimum current design practices and should not present additional economic burden to health care facility construction.

Based on commenter feedback the following additional changes are proposed:

1. In Section 10.2.3, delete the drain pan testing requirements.
2. Add inspect the drain pan while operating to visually verify it is draining properly.

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

Addendum e to 170-2017

Revised Section 10.2.3 as shown below. The remainder of Section 10.2 is unchanged.

10. CONSTRUCTION AND SYSTEM STARTUP

[...]

10.2 System Startup

[...]

10.2.3 Testing of Drain Pans. To minimize conditions of water stagnation that may result in microbial growth, inspect drain pans to verify proper drainage under operating conditions. ~~shall be field tested under operating conditions that are the most restrictive to condensate flow to demonstrate proper drainage.~~

Informative Note: ~~Above conditions usually occur at full fan airflow for draw through fans and minimum fan airflow for blow through fans.~~

Exception: ~~Field testing of drain pans is not required if units with factory installed drain pans have been certified (attested in writing) by the manufacturer for proper drainage when installed as recommended.~~

[...]



**BSR/ASHRAE/ASHE Addendum L
to ANSI/ASHRAE/ASHE Standard 170-2017**

Public Review Draft

Proposed Addendum L to Standard 170-2017, Ventilation of Health Care Facilities

**Second Public Review (March 2020)
(Draft shows Proposed Independent Substantive Changes
to Previous Public Review Draft)**

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

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BSR/ASHRAE/ASHE Addendum L to ANSI/ASHRAE/ASHE Standard 170-2017, *Ventilation of Health Care Facilities*
Second Independent Substantive Change 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 offered the right to appeal at ASHRAE or ANSI.)

FOREWORD

Proposed Addendum L continues the process of reorganizing the standard into three components—Hospital, Outpatient, and Residential Health Care and Support in alignment with the FGI Guidelines’ transition to three separate standards. Addendum L follows the continuing maintenance process in further coordination with FGI staff and 170 staff to result in a coordinated document for use by all stakeholders in the Healthcare Community.

This proposed addendum is 5 edits of definitions, 1 each edits in Chapters 7, 8 and 9 along with specific line (row) edits in Table 7.1. These edits incorporate Addenda ‘a’ & ‘p’. Generally, the changes are as follows:

- *Incorporate Addendum ‘a’ updated filtration requirements to revised Table 7.1 rows affected.*
- *Incorporate Addendum ‘p’ updated unoccupied turndown requirements to revised Table 7.1 rows affected.*

Revise the space name definitions and process definitions, table organization, and subheadings to better correlate with the 2018 FGI Guidelines for Design and Construction of Hospitals, including the addition of paragraph numbers after each space name. These revised 2018 FGI paragraph numbers have been coordinated with FGI committee members and will be presented in italicized text to keep them as informative language.

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

Addendum L to 170-2017

Revise Table 7.1 as shown below. The remainder of Table 7.1 is unchanged.

Table 7.1 Design Parameters – Hospital Spaces

Function of Space (dd)	Pressure Relationship to Adjacent Areas (n)	Minimum Outdoor ach	Minimum Total ach	All Room Air Exhausted Directly to Outdoors (j)	Air Recirculated by Means of Room Units (a)	Unoccupied Turndown	Minimum Filter Efficiencies (bb)	Design Relative Humidity (k), %	Design Temperature (l), °F/°C
DIAGNOSTIC AND TREATMENT									
Class 2 imaging room (d), (p) <i>(FGI 2.2-3.4.2.4(1)(b)(ii))</i>	Positive	3	15	NR	No	Yes	MERV-A-8 / MERV-A-14	max 60 <u>20-60</u>	70–75/21–24

Summary of substantive changes for public review

BSR MH29.1-202X

Safety Requirements for Industrial Scissors Lifts

The following substantive changes were proposed by the consensus body and approved by the MH29.1 drafting committee:

4.10 System protection

4.10.1 Overload protection

...

4.10.1.2 Hydraulic system

Protection shall be provided by means of a relief valve that will prevent raising of the tilter, from its fully lowered position, such that it shall not tilt a load more than 125% of the rated capacity. The relief valve shall be located so that its operation will not cause the platform to lower.

4.10.2 Fault conditions

4.10.2.1 Hydraulic or pneumatic system

Hydraulically or pneumatically powered tilters shall be so designed that in the event of failure in any part of the piping system, either the descent of the tilter will be promptly arrested or the rate of descent of the tilter will be limited to a speed not to exceed the greater of four times the normal down speed or 30 ft/min (9.1 m/min), measured at the platform edge opposite the tilt axis, when fully loaded.

4.15 Markings

4.15.1 Manufacturer's nameplate

Industrial scissors lifts shall be provided with a manufacturer's nameplate constructed of a durable, corrosion-resistant material and permanently attached to the scissors lift for inspection. The nameplate shall ~~should~~ include the following information:

- a) the name of the manufacturer;
- b) model number;
- c) serial number;
- d) lifting capacity;
- e) rated capacity; and
- f) specific edge load or axle load ratings.

Please submit comments to Patrick Davison, MHI Director of Standards, at pdavison@mhi.org.

UL 20, Standard for Safety for General-Use Snap Switches

1. Manufacturer's Terminal Tightening Torque

7 Markings

7.1 General

7.1.13 A general-use snap switch with wiring terminals shall be provided with manufacturers recommended terminal tightening torque. These instructions shall appear on the device where visible during installation, on the smallest unit container, or on an information sheet packed in the smallest unit container.

2. Correct Typos / Omissions for 277v Motor Ratings for 15 and 20 amp Switches

Table 20
Values for marking in supplementary rating
(see Clause 7.2.1)

Switch rating		Supplementary rating	
Amperes	Volts	A	B
15	120	12	1/2 hp
15	120 - 277	12	1/2 hp, 120 V; 2 hp, 240 V
15	277	12	2 hp, 240 V 277 V
20	120	16	1 hp
20	120 - 277	16	1 hp, 120 V; 2 hp, 240 V
20	277	16	2 hp, 240 V 277 V
30	120	24	2 hp
30	120 - 277	24	2 hp
30	277	24	2 hp

3. Marking Location

7 Markings

7.3 Location

7.3.3 Markings and instructions that are alternatively permitted on a stuffer sheet, information sheet etc. may be provide via a manufacturer's web site. The web address shall be marked on the device, packaging and/or information sheet. The web address may be in the form of a Uniform Resource Locator (URL - http://www.____.com/____/), or as a Quick Response Code (QRcode). This does not apply to markings that are specified to be located on the device or the packaging/container only (not a stuffer sheet) but this information may be repeated on the web site.

4. Voltage Markings on AC-ONLY Switches Incorporating Locator or Pilot Indicators

Table 19
Switch ampere ratings for various voltages
(see Clause 5.2.14, 6.2, 7.2.1)

AC-only rating			AC/DC rating			
Ampere rating	Voltage ac, V	Maximum full load motor current A	Ampere rating, A voltage, dc			
			Rating designation	125 V	250 V	600 V
A	V	A				
15	120	12	A	-	-	1
20	120	16	B ^c	3 ^d	1 ^d	-
30	120	24	C	-	-	2
15	120 - 277 ^{b,f}	12	D ^c	5 ^d	2 ^d	-
20	120 - 277 ^{b,f}	16	E	-	-	3
30	120 - 277 ^{b,f}	24	F	5 ^d or 6 ^d	3 ^d	-
20/15	120 - 277 ^{b,f}	16/12	G	-	5	3
30/15	120 - 277 ^{b,f}	24/12	H	-	-	5
30/20	120 - 277 ^{b,f}	24/16	I	-	5 ^d	-
15	347	Not applicable ^e	J	10 ^d	5 ^d	-
20	347	Not applicable ^e	K	-	10	5
30	347	Not applicable ^e	L	-	-	10
			M	-	10 ^d	-
			N	20 ^d	10 ^d	-
			O	-	20	10
			P	-	-	20
			Q	-	20 ^d	-
			R	30 ^d	20	-
			S	40 ^d	20 ^d	-
			T	-	30	20
			U	-	-	30
			V	-	30 ^d	-
			W	60 ^d	30 ^d	-
			X	-	60	-

^a These ratings are inherent in the switches.

^b Switches rated as 120 - 277 V ac are acceptable for use on motor circuits up to the ampere ratings shown, at any voltage between 120 and 277 V ac.

^c Ratings B and D apply only to 3-way, 4-way, 2-circuit, 3-circuit, or fixture switches.

^d The current rating indicated may be used as the current rating for an additional "T" rating, at 125 V.

^e Not intended for motor loads.

^f Switches rated as 120 - 277 V AC ONLY that incorporate locator indicators (indicator lamp ON if load switched OFF) or pilot indicators (indicator lamp ON solely if load switched ON) may be marked with restricted voltage ratings (e.g., "208 V", "240 V", "277 V", "120 V OR 277 V") or with restricted voltage

ranges (e.g., "120 - 208 V", "120 - 240 V", "208 V - 277 V", "240 - 277 V") instead of the full "120 - 277 V" range, to optimize indicator lamp brightness or indicator lamp life or, for pilot indicators, to omit those supply voltages that inherently do not present grounded (neutral) conductors.

Table 20
Values for marking in supplementary rating
(see Clause 7.2.1)

Switch rating		Supplementary rating	
Amperes	Volts	A	B
15	120	12	1/2 hp
15	120 – 277 ^a	12	1/2 hp, 120 V ^a ; 2 hp, 240 V ^a
15	277	12	2 hp, 240 V
20	120	16	1 hp
20	120 – 277 ^a	16	1 hp, 120 V ^a ; 2 hp, 240 V ^a
20	277	16	2 hp, 240 V
30	120	24	2 hp
30	120 – 277 ^a	24	2 hp ^a
30	277	24	2 hp

^a Switches rated as 120 – 277 V AC ONLY that incorporate locator indicators (indicator lamp ON if load switched OFF) or pilot indicators (indicator lamp ON solely if load switched ON) may be marked with restricted voltage ratings (e.g., "208 V", "240 V", "277 V", "120 V OR 277 V") or with restricted voltage ranges (e.g., "120 - 208 V", "120 - 240 V", "208 V - 277 V", "240 - 277 V") instead of the full "120 - 277 V" range, to optimize indicator lamp brightness or indicator lamp life or, for pilot indicators, to omit those supply voltages that inherently do not present grounded (neutral) conductors.

7.2.5 An AC-only general-use switch that incorporates a pilot indicator and an associated terminal intended for connection to the grounded circuit conductor shall be clearly and permanently identified on the device at that terminal by

- (a) A wire-binding screw of white metal or plating on a circular screw head;
- (b) A visible pressure wire terminal of white metal or plating on the connector;
- (c) A concealed pressure wire terminal having a distinct white-colored surface adjacent to wire entrance hole, or the word "white", or the letter "W" distinctively marked adjacent to wire entrance hole;
- (d) A terminal plate of white metal or plating;
- (e) An insulating enclosure or terminal having the word "white" or the letter "W", marked on or directly adjacent to terminal, or white metal or plating on terminal;
- (f) A wire lead having a braid of solid white or gray color (without tracer); or,
- (g) A wire lead having insulation of solid white or gray color, or striped white or gray on contrasting color other than green.

5. Ground Screws

4.12.2 A flush-type switch that is provided with either a grounding terminal or lead shall comply with the requirements described in Clauses 4.5.3.1, 4.5.3.2, and 4.5.3.9 – 4.5.3.21. The construction shall also conductively connect a metal flush device cover plate to the grounding terminal or lead. See 7.1.13 for marking requirements.

7.1.13 In Canada, a flush-type switch may be marked on the device, individual package, label, or its instruction sheet with the following or equivalent:

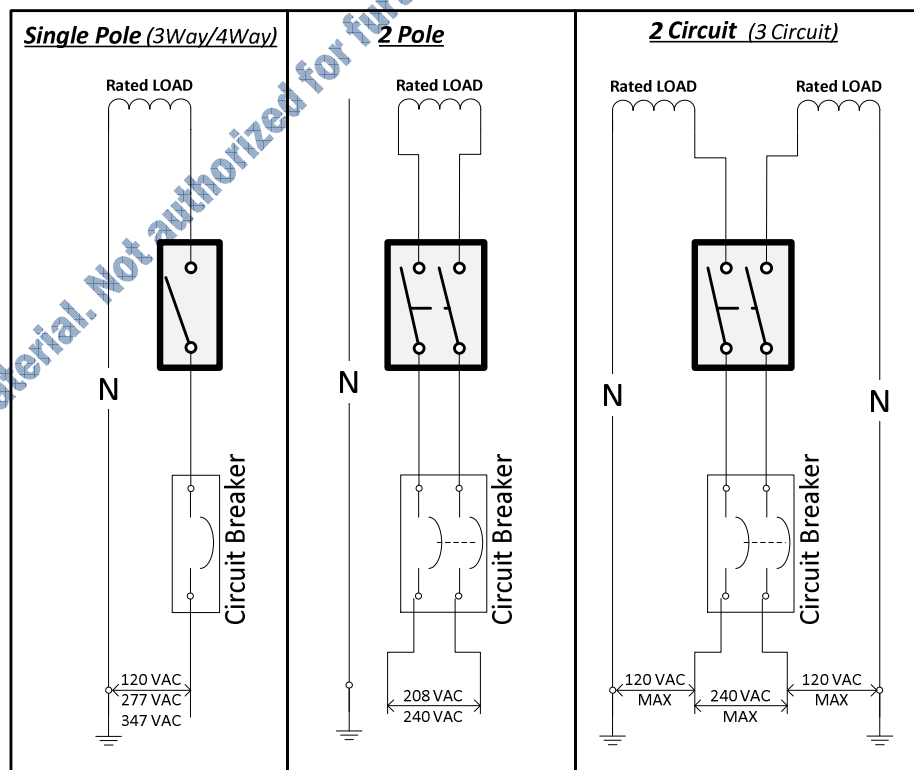
"In Canada, a flush-type switch does not require attachment to a grounding/bonding wire when installed in a grounded/bonded flush device box"

6. Wiring Diagram for Switches

2.10 SINGLE POLE, 3-WAY, 4-WAY, OR 2 POLE SWITCHES – ~~Are Is~~ intended to be installed on ~~supplied by~~ a single branch circuit ~~and to control~~ controlling a single ~~set of~~ loads. The circuit and loads can be a ~~phase-to-neutral~~ connected line-to-neutral (that is e.g., 120 V ac, 277 V ac) or ~~phase-to-phase~~ line-to-line (that is e.g., 208 V ac, 240 V ac). See Figure 9 for details.

2.22 TWO- OR THREE-CIRCUIT SWITCHES – Consists of ~~up to a two- or three-pole switch,~~ respectively, intended to be installed on ~~supplied by~~ multiple or multi-phase single-phase branch circuits ~~and to controlling~~ multiple or multi-phase ~~sets of single-phase~~ loads, each of no more than 120 V ac ~~to ground and line-to-neutral or 240 V ac line to line, and no more than 240 V ac total per between~~ circuits; see 7.2.4. See Figure 9 for details.

Figure 9
Wiring diagram for switches
(see Clauses 2.10, 2.22)



BSR/UL 746B, Standard for Safety for Polymeric Materials – Long Term Property Evaluations

1. This proposal provides revisions to the proposal document dated August 2, 2019 per comments received.

PROPOSAL

Table 7.1
Relative thermal indices based upon past field-test performance and chemical structure^a

Material	ISO designation	Generic thermal index, °C
Polyamide ^b	PA	65
Polycarbonate ^b	PC	80
Polycarbonate/Siloxane Copolymer ⁱ	PC/Siloxane	80
Polyethylene terephthalate –		
molding resin ^b	PET	75
film (0.25 mm maximum) <u>film or sheet</u> ^h	PET	105
Polybutylene (polytetramethylene) terephthalate ^b	PBT	75
Polyphenylene Ether (including PS, PA, PP, or TPE modified) ⁱ	PPE	65
Polypropylene ^{b,g}	PP	65
Polyetherimide	PEI	105
Polyethersulfone	PES	105
Polyether Ether Ketone	PEEK	130
Polyphthalamide ^l	PPA	85
Polyphenylene Sulfide ^b	PPS	130
Polyimide film (0.25 mm maximum) <u>film or sheet</u> ^h	PI	130
Molded Phenol Formaldehyde ^c	PF	150
Molded Melamine Formaldehyde ^{c,d} and Molded melamine formaldehyde/phenol formaldehyde ^{c,d} –	MF, MF/PF	
specific gravity < 1.55		130
specific gravity ≥ 1.55		150
Polytetrafluoroethylene	PTFE	
Without inert fillers and/or reinforcements		180
With inert fillers and/or reinforcements		130

Material	ISO designation	Generic thermal index, °C
Polychlorotrifluoroethylene	PCTFE	150
Fluorinated ethylene propylene	FEP	150
Poly(tetrafluoroethylene, hexafluoropropylene, vinylidene fluoride) ^k	TFE/HFP/VDF	130
Ethylene/Tetrafluoroethylene	E/TFE	105
Urea Formaldehyde ^c	UF	100
Acrylonitrile – butadiene – styrene ^b	ABS	60
Silicone – molding resin ^{c,d}		150
Silicone rubber – molding resin	SIR	150
addition-cure, vinyl, platinum catalyzed		150
room-temperature vulcanizing, condensation or heat-cured paste	RTV	105
Epoxy – molding resin ^{c,d}		130
powder coating materials		105
casting or potting resin ^{b,h}	EP	90
Molded diallyl phthalate ^{c,d}		130
Molded unsaturated polyester ^{c,d} alkyd (AMC), bulk (BMC), dough (DMC), sheet (SMC), thick (TMC), and pultrusion molding compounds	UP	105 ^e (electrical) 130 (mechanical)
Liquid crystalline thermotropic aromatic polyester ^f	LCP	130
Ligno-cellulose laminate		60
Vulcanized fiber		90
Cold-molded phenolic, melamine or melamine-phenolic compounds ^d – specific gravity < 1.55		130
specific gravity ≥ 1.55		150
Cold-molded inorganic (hydraulic-cement, etc.) compounds		200
Integrated mica, resin-bonded –		

Material	ISO designation	Generic thermal index, °C
epoxy, alkyd or polyester binder		130
phenolic binder		150
silicone binder		200
<p>^a Generic thermal index is for homopolymer and for the compounding of the same type or relative resins, either grafted or ungrafted only, unless a specific copolymer or blend is indicated. In the case of alloys, the lowest generic index of any component shall be assigned to the composite. The term "grafted" means all of the monomer reacts to form a polymer, and the polymer chain forms a chemical bond. The term "ungrafted" means that the two types of polymer chains entwine with each other by mechanical blending to form a chemical composite.</p> <p>^b Includes glass-fiber reinforcement and/or talc, asbestos, mineral, calcium carbonate, compounding of the same type of resins, either grafted or ungrafted and other inorganic fillers.</p> <p>^c Includes only compounds molded by high-temperature and high-pressure processes such as injection, compression, pultrusion, and transfer molding and match-metal die molding; excludes compounds molded by open-mold or low-pressure molding processes such as hand lay-up spray-up, contact bag, filament winding, rotational molding, and powder coating (fluidized bed, electrostatic spray, hot dip, flow coating).</p> <p>^d Includes materials having filler systems of fibrous (other than synthetic organic) types but excludes fiber reinforcement systems using resins that are applied in liquid form. Synthetic organic fillers are to be considered acceptable at temperatures not greater than 105°C.</p> <p>^e Except 130°C generic thermal index if the material retains at least 50% of its unaged dielectric strength after a 504-hour exposure at 180°C in an air circulating oven. Specimens are to be tested in a dry, as molded, condition. Specimens that are removed from the oven are to be cooled over desiccant for at least 2 hours prior to testing.</p> <p>^f Includes only wholly aromatic liquid crystalline thermotropic polyesters; wholly aromatic polyester/amides and wholly aromatic polyester/ethers; excluding amorphous, lyotropic and liquid crystalline aliphatic-aromatic polyesters which are aliphatic in the backbone chain or main chain, and substituted aromatic polyesters (except for methyl or aromatic).</p> <p>^g Includes polypropylene copolymers containing not more than 25% ethylene comonomer, by weight.</p> <p>^h Multi-part liquid epoxy materials incorporating acid anhydride or aromatic amine curing agents receive a 130°C generic thermal index.</p> <p>ⁱ Includes only those polyphenylene ether materials (polystyrene, polyamide, polypropylene, or thermoplastic elastomer modified) in which the PPE component is not less than 30% of the total composition by weight and that have a Heat Deflection Temperature of at least 70°C at a load (fiber stress) of 1.80 M Pa (264 psi).</p> <p>^j PC/Siloxane Copolymers in which siloxane comprises less than, or equal to, 5% of the total material composition by weight.</p> <p>^k Must have a minimum peak melting point of 160 °C, with less than 25% VDF monomer by weight and the remainder being fully fluorinated monomers.</p> <p>^l PPA definition according to ASTM D5336: polyphthalamide, PPA, n-a polyamide in which residues of terephthalic acid or isophthalic acid or a combination of the two comprise at least 55 molar percentage of the dicarboxylic acid portion of the repeating structural units in the polymer chain.</p>		

Material	ISO designation	Generic thermal index, °C
<p>Additionally, this definition includes only those polyphthalamide materials that have a Glass Transition Temperature (T_g) of at least 85°C, when determined through second-heat DSC testing in accordance with the Differential Scanning Calorimetry, Section 47 of the Standard for Polymeric Materials – Short Term Property Evaluations, UL 746A.</p> <p><i>Note: Reprinted, with permission, from D5336-15a Standard Classification System and Basis for Specification for Polyphthalamide (PPA) Injection Molding, copyright ASTM International, 100 Barr Harbor Drive, West Conshohocken, PA 19428.</i></p> <p>^aException: Material thicker than 0.25 mm gets the same generic RTI if processed using the same technology as film.</p>		

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BSR/UL 1640, Standard for Safety for *Portable Power-Distribution Equipment*

1. This proposal provides revisions to the proposal document dated October 11, 2019 per comments received.

PROPOSAL

5.5 COVER – An unhinged, removable covering member that is a required part of the enclosure.

Note: Some standards for products used as components on or in portable power distribution units designate “cover” as “cap” or “closure”.

5.8 DOOR – A hinged, sliding, or similarly attached covering member that is capable of being removed only by the use of a tool and that is a required part of the enclosure.

Note: Some standards for products used as components on or in portable power distribution units designate “door” as “cover”, “hood”, or “lid”.

9.6 Inlet and receptacle doors

9.6.1 Equipment with enclosures marked "3, 3R, 3X, 3RX, 3S, 3SX, 4, or 4X shall be subjected to the Resistance to Rain Test, Section 24. Spring-closing doors (see the Note for 5.8) protecting inlets and receptacles and relied upon to comply with the Resistance to Rain Test shall be made of a material that is inherently resistant to corrosion and shall comply with the Spring-Closing Cycling Test, Section 27. The gaskets relied upon to comply with the Resistance to Rain Test shall meet requirements specified in Gasket Tests, Section 26.

Exception No. 1: Equipment provided with spring-closing outlet box doors (see the Note for 5.8) evaluated for use in wet locations are considered to comply with these requirements without performance of the Spring-Closing Cycling Test or Gasket Tests.

Exception No. 2: A multi-conductor receptacle or inlet of either the non-locking-blade-, locking-blade-, or pin-and-sleeve-type that:

- a) *Is provided with or integrates into its design a self-closing door (see the Note for 5.8) and*
- b) *Has been evaluated as "watertight" or as any of Enclosure Types 3, 3R, 3X, 3RX, 3S, 3SX, 4, or 4X*

is considered to comply with these requirements.

9.6.2 Equipment with enclosures marked “Suitable for Use in Damp Locations” or “Suitable for Use in Damp or Wet Locations” or “DWL” shall be provided with spring closing ~~covers~~ doors that are gasketed and tight fitting, and that comply with the Spring-Closing Cycling Test, Section 27. The gasket shall meet requirements specified in Gasket Tests, Section 26. The spring shall be made of a material that is inherently resistant to corrosion.

Exception No. 1: Equipment provided with spring-closing outlet box doors (see the Note to 5.8) evaluated for use in damp locations is considered to comply with these requirements.

Exception No. 2: A multi-conductor receptacle or inlet of either the non-locking-blade-, locking-blade-, or pin-and-sleeve-type that:

- a) Is provided with or integrates into its design a self-closing door (see the Note to 5.8) and*
- b) Has been evaluated as "Suitable for use in Damp Locations", "watertight", or as any of Enclosure Types 3, 3R, 3X, 3RX, 3S, 3SX, 4, or 4X*

is considered to comply with these requirements.

14.2 Receptacles

14.2.4 All 15- and 20-ampere, 125- and 250-volt nonlocking receptacles with configurations specified in the "Note" to this paragraph, and used in equipment marked as having a Type 3R enclosure or other Type designation intended for outdoor use or marked "Suitable for Use in Damp Locations" or "Suitable for Use in Damp or Wet Locations" or "DWL", shall be rated as "weather-resistant" type in accordance with the Standard for Attachment Plugs and Receptacles, UL 498. See the Notes to 5.5 and 5.8.

Note: NEMA configurations that are subject to this requirement are identified as 5-15, 5-20, 6-15, and 6-20 in the Standard for Dimensions of Attachment Plugs and Receptacles, ANSI/NEMA WD 6.

24 Resistance to Rain Test

24.1 An enclosure is to be tested both with and without all inputs and outputs terminated to appropriate plugs or cord connectors. Equipment with doors over more than one receptacle at a time is to be tested both without any attachment plugs and with only a single plug placed in the receptacle that results in the greatest risk of water entering a wiring device. Prior to each test, all doors, guards, shields, or the like are to be opened, then allowed to assume their natural position. A self-closing door is to be allowed to close, a door with a detent or other feature intended to hold it open is not to be manually closed, and an input or output without a self-closing door is to be tested without the door in place.

Exception: Doors (see the Note to 5.8) that do not protect inlets and receptacles against water ingress by means of spring-closing doors and that are provided on equipment marked for use by qualified personnel in accordance with Qualified Personnel, Section 35 shall be permitted to be manually closed during this test.

27 Spring-Closing Cycling Test

27.1 When subjected to the cycling test described in 27.2, a door protecting inlets or receptacles shall not crack, deform, or otherwise be damaged so as to allow the entrance of water as verified by the appropriate environmental test outlined in Enclosure Performance, Section 10. Verification of door performance is to be conducted with the door opened completely and then allowed to assume its natural position. See the Note to 5.8.

27.2 A door shall be subjected to 1000 cycles of operation. One cycle of operation is considered to be complete opening of the door followed by allowing the door to assume its natural position. See the Note to 5.8.

33 Enclosure Type

33.2 ~~When~~ If the acceptability of an enclosure type designation is dependent upon a particular mounting orientation or upon manual closure and fastening of doors or covers, the enclosure shall be marked to indicate the required orientation or required manual closure and fastening. Where this marking appears on products employed as components on or in equipment and the standards governing those products identify the terms "door" or "cover" with other terms (see the Note to 5.8 and the Note to 5.5), markings on such products shall not be required to be revised to the terms "door" or "cover".

35 Qualified Personnel

35.2 Equipment subjected to the Resistance to Rain Test with doors (see the Note to 5.8) closed, as permitted in the Exception to 24.1, shall be marked with the following or other marking determined to be equivalent: "FOR USE BY QUALIFIED PERSONNEL ONLY" and "All doors must be closed and fastened prior to leaving the equipment unattended." This marking shall be in minimum 1/16 inch (1.6 mm) high letters. The words "FOR USE BY QUALIFIED PERSONNEL ONLY" shall be in minimum 1/8 inch (3.2 mm) high letters.

61 Enclosures

61.1 Unless marked in accordance with 67.8, the enclosure shall comply with the requirements for a 3R or 3RX enclosure specified in Enclosure, Section 9.

61.2 A door or hinged shield provided for a switch, circuit breaker, receptacle, fuseholder, or similar device shall be self-closing with the equipment in the intended mounting position. A self-closing mechanism that does not rely solely on gravity shall comply with the Resistance to Rain Test, Section 24, and the Door Endurance Test, Section 66. See the Note to 5.8.

66 Door Endurance Test

66.1 After being opened and closed for 1,000 cycles, a power-distribution equipment door or hinged shield (see the Note to 5.8) shall self-close as intended, and shall comply with the Resistance to Rain Test, Section 24.

MARKINGS

67 Details

67.1 In addition to the markings specified in General, Section 30, construction-site portable power-distribution equipment intended for temporary installations shall be provided with the following specified markings:

- a) For enclosure type in 33.1;
- b) In Receptacle Ratings, Section 36;
- c) In Switches or Circuit Breakers, Section 40; and
- d) In 67.2 - 67.8.

Where this marking appears on products employed as components on or in equipment and the standards governing those products identify the terms “door” or “cover” with other terms (see the Note to 5.8 and the Note to 5.5), markings on such products shall not be required to be revised to the terms “door” or “cover”.

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BSR/UL 2079-202x, Standard for Safety for Tests for Fire Resistance of Building Joint Systems

1. Optional Air Leakage Test Minimum Joint Length

20.1 The fire-resistive floors and/or wall structures and the joint system shall be representative of the construction for which air leakage rating is desired and shall be constructed, conditioned and movement cycled in the same manner as that described for the fire test assembly. The minimum length of the joint system for the air leakage tests is ~~39~~ 36 in (~~1 m~~ 914 mm). The same test assembly constructed, conditioned and movement cycled for the fire test is not prohibited from being used for the air leakage tests. When the same test assembly is used for both the air leakage tests and the fire test, the air leakage tests are to be conducted in the 96 h time period immediately preceding the fire endurance test. The joint system is to be tested for air leakage at the maximum joint width.

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BSR/UL 2900-2-1, Standard for Safety for Software Cybersecurity for Network-Connectable Products, Part 2-1: Particular Requirements for Network Connectable Components of Healthcare and Wellness Systems, UL 2900-2-1

1. UL 2900-2-1 proposals to help with telemedicine equipment entering hospitals for COVID-19 response

1.1 This security evaluation standard applies to the testing of network ~~connected~~ connectable components of healthcare systems. It applies to, but is not limited to, the following key components:

- a) Medical devices;
- b) Accessories to medical devices;
- c) Medical device data systems;
- d) In vitro diagnostic devices;
- e) Health information technology; and
- f) Wellness devices.

Note – Combinations of the technologies listed here may be applied to such solutions as “telemedicine,” where a single solution may contain both regulated and unregulated components.

12.1.2 A risk management file shall be constructed in accordance with the Standard for Medical Devices - Application of Risk Management to Medical Devices, ISO 14971, risk management process, or equivalent, and it shall specifically include the following elements with regard to security:

- a) Security risk analysis;

NOTE: The security risk analysis should consider defense-in-depth also known as layer of protection analysis (LOPA)¹.

- b) Security risk evaluation;
- c) Security risk control;

NOTE: Security risk controls should consider a defense-in-depth strategy to minimize impact of a breach.

- d) Production and post-production security information;
- e) Verification and validation of security risk controls; and

NOTE: Validation demonstrates an implementation that satisfies system requirements.

- f) Analysis of the acceptability of residual security risk.

¹See the IEC 61511, Functional Safety - Safety Instrumented Systems for the Process Industry Sector standards.

12.3.1 The risk controls identified in Sections 7 - 11 of the Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements, UL 2900-1, and the security capabilities of the Application of Risk Management for IT-Networks Incorporating Medical Devices - Part 2-2:

Guidance for the Disclosure and Communication of Medical Device Security Needs, Risks and Controls, IEC/TR 80001-2-2, or equivalent, shall be considered for risk management.

20.1.1 The product shall be developed under a Quality Management System per the Standard for Medical Devices - Quality Management Systems - Requirements for Regulatory Purposes, ISO 13485, or equivalent.

20.4.1 The product shall comply with the requirements of the Standard for Software Cybersecurity for Network-Connectable Products, Part 1: General Requirements, UL 2900-1, Clause ~~46.4~~ 11.

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