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Project Initiation Notification System (PINS)

ANSI Procedures require notification of ANSI by ANSI-accredited standards developers (ASD) of the initiation and scope of activities expected to result in new or revised American National Standards (ANS). Early notification of activity intended to reaffirm or withdraw an ANS and in some instances a PINS related to a national adoption is optional. The mechanism by which such notification is given is referred to as the PINS process. For additional information, see clause 2.4 of the ANSI Essential Requirements: Due Process Requirements for American National Standards.

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. Use the following Public Document Library url to access PDF & EXCEL reports of approved & proposed ANS: [List of Approved and Proposed ANS](#)

Directly and materially affected interests wishing to receive more information or to submit comments are requested to contact the standards developer directly within 30 days of the publication of this announcement.

ASIS (ASIS International)

1625 Prince Street, Alexandria, VA 22314-2818 www.asisonline.org
Contact: Aivelis Opicka; standards@asisonline.org

Revision

BSR/ASIS PSC.1-202X, Management System for Quality of Private Security Company Operations - Requirements with Guidance (revision of ANSI ASIS PSC.1-2012 (R2017))

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

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

Scope: This Standard builds on the Montreux Document and the International Code of Conduct (ICoC) for Private Security Service Providers to provide requirements and guidance for a management system with auditable criteria for Quality of Private Security Company Operations, consistent with respect for human rights, legal obligations, and good practices related to operations of private security service provider companies in conditions where governance and the rule of law have been undermined by conflict or disaster. It provides auditable requirements based on the Plan-Do-Check-Act model for third-party certification of private security service providers working for any client.

AWS (American Welding Society)

8669 NW 36th Street, Miami, FL 33166-6672 www.aws.org

Contact: Rakesh Gupta; gupta@aws.org

New Standard

BSR/AWS A5.21/A5.21M-202x, Specification for Bare Electrodes and Rods for Surfacing (new standard)

Stakeholders: Welding industry.

Project Need: Adding new filler metal classification.

Scope: This specification prescribes the requirements for classification of bare (uncoated) solid wire as well as tubular electrodes and rods for weld surfacing. Solid surfacing electrodes and rods are classified on the basis of the composition of the material as manufactured. Metal-cored and flux-cored composite (tubular) surfacing electrodes and rods are classified on the basis of the chemical composition of the deposited weld metal. Tubular tungsten-carbide bare rods are classified on the basis of the mesh range, quantity, and composition of the tungsten carbide granules. A guide is appended to the specification as a source of information concerning the characteristics and applications of the classified electrodes and rods.

AWS (American Welding Society)

8669 NW 36th Street, Miami, FL 33166-6672 www.aws.org

Contact: Stephen Borrero; sborrero@aws.org

Revision

BSR/AWS D10.18M/D10.18-202x, Guide for Welding Ferritic/Austenitic Duplex Stainless Steel Piping and Tubing (revision of ANSI/AWS D10.18M/D10.18-2017)

Stakeholders: Owners, fabricators, and inspectors associated with welding of duplex stainless steels.

Project Need: Needed by owners, fabricators, and inspectors associated with welding of duplex stainless steels

Scope: This standard presents a detailed discussion of the metallurgical and welding characteristics and weldability of duplex stainless steel used in piping and tubing. A number of tables and graphs are presented in order to illustrate the text.

CTA (Consumer Technology Association)

1919 S. Eads Street, Arlington, VA 22202 www.cta.tech

Contact: Catrina Akers; cakers@cta.tech

New Standard

BSR/CTA 2075.1-202x, Loudness Standard for Over-the-Top Television and Online Video Distribution for Mobile and Fixed Devices - LM1 (new standard)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To add LM1 as a metadata type that can be derived from streaming related to audio loudness.

Scope: This document adds LM1 to ANSI/CTA 2075, Loudness Standard for Over-the-Top Television and Online Video Distribution for Mobile and Fixed Devices. ANSI/CTA 2075 applies to devices, whether mobile or fixed, that receive OTT and OVD services and create audio output either through a built-in loudspeaker or through an interface to an external transducer or another A/V device.

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

4755 East Philadelphia Street, Ontario, CA 91761 <https://www.iapmostandards.org>

Contact: Hugo Aguilar; hugo.aguilar@iapmo.org

New Standard

BSR/IAPMO Z13XX-202x, District Ambient Temperature Loop (ATL) (new standard)

Stakeholders: Manufacturers, inspectors, consumers, engineers, and designers.

Project Need: District ambient temperature loops (ATLs) are a relative new technology which are being designed and utilized without a standard to cover their performance. This standard is intended to cover the performance and requirements for such products. Currently, district energy systems are not addressed by any standards.

Scope: This standard applies to ambient temperature loop (ATL) distributed energy systems and related low-temperature distribution systems. Such systems can be integrated with multiple renewables such as solar thermal and solar photovoltaic. An ATL system is a closed-loop piping system with central pumping that includes various heat sources and heat sinks to hold the loop fluid near the long-term average ambient air temperature. The sources/sinks can be passive (e.g., a ground loop, a body of water, sewer effluent) or active (e.g., a cooling tower) and further can include opportunistic or unique locally available waste or byproduct heat sources (e.g., data center, industrial process). The closed-loop piping system typically controls or engages these sources/sinks to maintain the loop temperature to meet the seasonal requirements as well as specific building needs.

Call for Comment on Standards Proposals

American National Standards

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. e-mail: psa@ansi.org

* Standard for consumer products

Comment Deadline: September 12, 2021

APTech (ASC CGATS) (Association for Print Technologies)

1896 Preston White Drive, Reston, VA 20191 | dorf@aptech.org, www.printtechnologies.org

National Adoption

BSR CGATS/ISO 12640-2-202x, Graphic Technology - Prepress Digital Data Exchange - Part 2: XYZ/SRGB Encoded Standard Colour Image Data (XYZ/SCID) (national adoption of ISO 12640-2 with modifications and revision of ANSI CGATS/ISO 12640-2-2007 (R2013))

This part of ISO 12640 specifies a set of 15 standard colour images (encoded as both 16-bit XYZ and 8-bit RGB digital data provided in electronic data files) that can be used for the evaluation of changes in image quality during coding, image processing (including transformation compression and decompression), displaying on a colour monitor or printing. They can be used for many graphic technology applications such as research, development, product evaluation, and process control.

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

Send comments (copy psa@ansi.org) to: dorf@aptech.org

NASBLA (National Association of State Boating Law Administrators)

1648 McGrathiana Parkway, Lexington, KY 40511 | pam@nasbla.org, www.nasbla.org

New Standard

BSR/NASBLA 100-202x, Basic Boating Knowledge - Core (new standard)

This standard establishes the essential knowledge needed to reduce recreational boating risk factors and mitigate their effects. This "Core" standard is designed to be combined with discipline-specific power, sail, and/or human-propelled "Plus" standards for development of basic boating education courses and student assessment. This standard applies to basic boating knowledge for all disciplines (power, sail, or human-propelled) of recreational boating in the U.S. states, territories, and the District of Columbia.

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

Send comments (copy psa@ansi.org) to: <https://esp.nasbla.org/esp/>

Comment Deadline: September 12, 2021

NASBLA (National Association of State Boating Law Administrators)

1648 McGrathiana Parkway, Lexington, KY 40511 | pam@nasbla.org, www.nasbla.org

Revision

BSR/NASBLA 101-202x, Basic Boating Knowledge - Plus Human-Propelled (revision of ANSI/NASBLA 101-2017)
This discipline-specific "Plus" standard, when combined with the "Basic Boating Knowledge – Core" standard, establishes minimum essential knowledge to reduce human-propelled recreational boating risk factors. The combined standards are to be used for development of basic boating education courses and student assessment for human-propelled vessels. This standard applies to basic knowledge for human-propelled recreational boating in the U.S. states, territories, and the District of Columbia.

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

Send comments (copy psa@ansi.org) to: <https://esp.nasbla.org/esp/>

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Vickie.T.Hinton@ul.org, <https://ul.org/>

National Adoption

BSR/UL 60079-33-202X, Standard for Safety for Explosive Atmospheres - Part 33: Equipment Protection by Special Protection "s" (national adoption of IEC 60079-33 with modifications and revision of ANSI/UL 60079-33-2021) This proposal for UL 60079-33 covers: (1) New paragraph added to the scope to reference the new division annex; new normative reference added for the NEC; and new annex division addition.

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

Send comments (copy 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)

333 Pfingsten Road, Northbrook, IL 60062-2096 | alan.t.mcgrath@ul.org, <https://ul.org/>

National Adoption

BSR/UL 60730-1-202X, Standard for Automatic Electrical Controls - Part 1: General Requirements (identical national adoption of IEC 60730-1 and revision of ANSI/UL 60730-1-2016)

Revisions to add clarity, reflect current practices and/or corrections.

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

Send comments (copy 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)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Doreen.Stocker@ul.org, <https://ul.org/>

National Adoption

BSR/UL 62841-3-9-202X, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-9: Particular Requirements for Transportable Mitre Saws (national adoption with modifications of IEC 62841-3-9 Ed. 2)

This proposal for UL 62841-3-9 covers: Proposed adoption of the second edition of IEC 62841-3-9, Standard for Electric Motor Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety, Part 3.9: Particular Requirements for Transportable Mitre Saws, as the second edition of 62841-3-9.

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

Send comments (copy 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: September 12, 2021

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062 | megan.monsen@ul.org, <https://ul.org/>

Revision

BSR/UL 498A-202x, Standard for Safety for Current Taps and Adapters (revision of ANSI/UL 498A-2021)

This proposal for UL 498A covers: (1) Revision to clothes dryers and ranges power adapter markings.

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

Send comments (copy 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)

333 Pfingsten Road, Northbrook, IL 60062-2096 | alan.t.mcgrath@ul.org, <https://ul.org/>

Revision

BSR/UL 1996-202X, Standard for Electric Duct Heaters (revision of ANSI/UL 1996-2020)

Addition of Class CF fuses and fuseholders.

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

Send comments (copy 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)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Joshua.Johnson@ul.org, <https://ul.org/>

Revision

BSR/UL 2238-201X-202x, Standard for Cable Assemblies and Fittings for Industrial Control and Signal Distribution (revision of ANSI/UL 2238-2021)

(1) Alternative testing method for cord or cable tags.

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

Send comments (copy 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: September 27, 2021

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

BSR/AAFS ASB Std 136-202x, Forensic Laboratory Standard for Prevention, Monitoring, and Mitigation of Human DNA Contamination (new standard)

This standard provides requirements for limiting, detecting, assessing the source of, and mitigating the effect of DNA contamination as applied to PCR-based human DNA analysis conducted within a forensic laboratory (i.e., casework and DNA database).

Single copy price: Free

Obtain an electronic copy from: This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

Order from: Document will be provided electronically on AAFS Standards Board website free of charge: www.asbstandardsboard.org.

Send comments (copy psa@ansi.org) to: asb@aafs.org

Comment Deadline: September 27, 2021

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | vangilder@asabe.org, <https://www.asabe.org/>

National Adoption

BSR/ASABE/ISO 24347-202x, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Dimensions of ball-type coupling device (80 mm) (identical national adoption of ISO 24347:2019 and revision of ANSI/ASABE AD24347:2014 (R2018))

This document specifies the dimensional requirements and location for a ball-coupling device of 80 mm nominal diameter, whose male part is fitted to an agricultural towing vehicle and female part is fitted to a towed, non-balanced vehicle which provides mechanical connection between the two vehicles. It defines vertical loading for different positions. This document specifies a ball-coupling device with either a horizontal adjustable version or a close position version.

Single copy price: \$49.00 (ASABE Members); \$72.00 (Non-members)

Obtain an electronic copy from: vangilder@asabe.org

Order from: Carla VanGilder; vangilder@asabe.org

Send comments (copy psa@ansi.org) to: vangilder@asabe.org

ASABE (American Society of Agricultural and Biological Engineers)

2950 Niles Road, Saint Joseph, MI 49085 | walsh@asabe.org, <https://www.asabe.org/>

Revision

BSR/ASABE S620.1 MONYEAR-202x, Safety for Anhydrous Ammonia Application Equipment (revision and redesignation of ANSI/ASABE S620-MAR2017)

This standard establishes the safety requirements for implements of husbandry used in the local transport and application of anhydrous ammonia for agricultural fertilizer. This standard does not cover bulk storage and handling equipment, manufacture of, or over-the-road bulk transport equipment (other than implements of husbandry) for anhydrous ammonia.

Single copy price: \$72.00

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh; walsh@asabe.org

Send comments (copy psa@ansi.org) to: walsh@asabe.org

AWS (American Welding Society)

8669 NW 36th Street, Miami, FL 33166-6672 | kbulger@aws.org, www.aws.org

Reaffirmation

BSR/AWS C3.7M/C3.7-2011 (R202x), Specification for Aluminum Brazing (reaffirmation of ANSI/AWS C3.7M/C3.7-2011)

This specification presents the minimum fabrication, equipment, material, process procedure, and inspection requirements for the brazing of aluminum by all of the processes commonly used—atmosphere furnace, vacuum furnace, and flux processes. Its purpose is to standardize aluminum brazing requirements for all applications in which brazed aluminum joints of assured quality are required. It provides criteria for classifying aluminum-brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability of each class.

Single copy price: \$24.00 (AWS Members); \$32.00 (Non-Members)

Obtain an electronic copy from: kbulger@aws.org

Order from: Kevin Bulger; kbulger@aws.org

Send comments (copy psa@ansi.org) to: kbulger@aws.org

Comment Deadline: September 27, 2021

CRSI (Concrete Reinforcing Steel Institute)

933 N Plum Grove Road, Schaumburg, IL 60173 | atrygestad@crsi.org, www.crsi.org

Revision

BSR/CRSI CG2.1-202x, CRSI Standard for Epoxy-Coated Steel Reinforcing Bar Fabrication Facilities (revision of ANSI/CRSI CG2.1-2016)

This Standard describes standard practice for fabrication quality processes for epoxy-coated steel-reinforcing bars.

Single copy price: Free

Obtain an electronic copy from: atrygestad@crsi.org

Send comments (copy psa@ansi.org) to: Amy Trygestad (atrygestad@crsi.org)

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 | ansi.contact@csagroup.org, www.csagroup.org

Reaffirmation

BSR Z21.11.3-2016 (R202x), Gas-fired room heaters, volume III, propane-fired portable emergency use heater systems (reaffirmation of ANSI Z21.11.3-2016)

This Standard applies to newly produced unvented, propane-fired portable emergency-use heater systems utilizing a self-contained propane supply in a listed composite cylinder. This appliance is not for use with line voltage. A portable emergency-use heater system is to be identified as a "heater system" when the coverage refers to the heating appliance and the listed composite cylinder. The term "heater" is used when identifying the appliance only. A propane-fired portable emergency-use heater system is constructed entirely of new, unused parts and materials. Propane-fired portable emergency use heater systems have input ratings up to and including 15,000 Btu/hr (4 396 W). (a) Heater systems listed for use in bedrooms (during emergencies) have a maximum input setting of 10,000 Btu/hr (2 931 W); and (b) Heater systems listed for use in bathrooms (during emergencies) have a maximum input setting of 5,000 Btu/hr (1465 W).

Single copy price: Free

Obtain an electronic copy from: ansi.contact@csargoup.org

Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 | ansi.contact@csagroup.org, www.csagroup.org

Reaffirmation

BSR Z21.76-2016 (R202x), Gas-fired unvented catalytic room heaters for use with propane gas (reaffirmation of ANSI Z21.76-2016)

This Standard applies to newly produced, unvented catalytic room heaters (see Clause 3, Definitions), referred to in this standard as heaters, constructed entirely of new, unused parts and materials, having input ratings up to and including 40,000 Btu per hour (11 723 W) for use with propane gas, except: (a) heaters suitable for installation in bedrooms are to have input ratings of 10,000 Btu (2 931 W) per hour or less; and (b) heaters suitable for installation in bathrooms are to have input ratings of 6,000 Btu per hour (1 758 W) or less.

Single copy price: Free

Obtain an electronic copy from: ansi.contact@csagroup.org

Send comments (copy psa@ansi.org) to: ansi.contact@csagroup.org

Comment Deadline: September 27, 2021

CTA (Consumer Technology Association)

1919 S. Eads Street, Arlington, VA 22202 | cakers@cta.tech, www.cta.tech

Revision

BSR/CTA 2037-C-202x, Determination of Television Set Power Consumption (revision and redesignation of ANSI/CTA 2037-B-2018)

This standard defines a method for measuring television set power consumption and related items. It is intended for television sets powered from an external source. Television sets with a non-removable main battery are excluded.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Catrina Akers; cakers@cta.tech

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

EOS/ESD (ESD Association, Inc.)

7900 Turin Road, Rome, NY 13440 | jkirk@esda.org, www.esda.org

Revision

BSR/ESD S1.1-202x, ESD Association Standard for the Protection of Electrostatic Discharge Susceptible Items - Wrist Straps (revision of ANSI/ESD S1.1-2013)

This document is intended for testing wrist straps and wrist strap systems used to ground personnel engaged in working with ESD-sensitive assemblies and devices. It does not address monitoring systems or garments.

Single copy price: \$145.00 (List)/\$115.00 (ESD Members) [Hard Cover]; \$135.00 (List)/\$105.00 (ESD Members) [Soft Cover]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl; cearl@esda.org

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

EOS/ESD (ESD Association, Inc.)

7900 Turin Road, Rome, NY 13440 | jkirk@esda.org, www.esda.org

Revision

BSR/ESDA/JEDEC JS-002-202X, ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Charged Device Model (CDM) - Device Level (revision of ANSI/ESDA/JEDEC JS-002-2018)

This document establishes the procedure for testing, evaluating, and classifying devices and microcircuits according to their susceptibility (sensitivity) to damage or degradation by exposure to a defined field-induced charged device model (CDM) electrostatic discharge (ESD). All packaged semiconductor devices, thin-film circuits, surface acoustic wave (SAW) devices, optoelectronic devices, hybrid integrated circuits (HICs), and multi-chip modules (MCMs) containing any of these devices are to be evaluated according to this standard. The devices shall be assembled into a package similar to that expected in the final application to perform the tests. This CDM document does not apply to socketed discharge model testers.

Single copy price: \$145.00 (List)/\$115.00 (ESD Members) [Hard Cover]; \$135.00 (List)/\$105.00 (ESD Members) [Soft Cover]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl; cearl@esda.org

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

Comment Deadline: September 27, 2021

NEMA (ASC C12) (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 | orrpaul@aol.com, www.nema.org

Revision

BSR C12.19-202x, Standard for Utility Industry End Device Data Tables (revision of ANSI C12.19-2014)

This Standard defines a table structure for utility application data to be passed between an end device and any other device. It neither defines device design criteria nor specifies the language or protocol used to transport that data.

Single copy price: \$472.00

Obtain an electronic copy from: pau_orr@nema.org

Order from: www.nema.org

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

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Arlington, VA 22209 | Kezhen.Shen@nema.org, www.nema.org

Reaffirmation

BSR/NEMA FB-1-2014 (R202x), Fittings, Cast Metal Boxes, and Conduit Bodies for Conduit, Electrical Metallic Tubing, and Cable (reaffirmation of ANSI/NEMA FB-1-2014)

Standard covers fittings for use with non-flexible tubular raceways: Rigid and Intermediate Metal Conduit and Electrical Metallic Tubing. Also included are fittings for use with flexible conduit and cable raceways, including Flexible Metal Conduit and Liquidtight Flexible Conduits, Armored Cable, Metal Clad Cable, Tray Cable, Mineral-Insulated Cable, Flexible Cord, Nonmetallic Sheathed Cable, and Service Entrance Cable. This standard also includes cast-metal outlet boxes and covers, as well as conduit bodies and covers, which, when designed for the purpose, serve as a box intended to house conductor splices and/or wiring devices; and cast-metal junction boxes, pull boxes, and covers.

Single copy price: \$181.00

Obtain an electronic copy from: kezhen.shen@nema.org

Order from: kezhen.shen@nema.org

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

Comment Deadline: September 27, 2021

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

The National Fire Protection Association announces the availability of the NFPA Second Draft Report for concurrent review and comment by NFPA and ANSI. These Second Draft Reports contain the disposition of public comment(s) that were received for standards in the Fall 2021 Revision Cycle (available for review on the next edition tab for each standard). All Notices of Intent to Make A Motion on the F2021 Revision Cycle Second Draft Report must be received by the following date: September 2, 2021.

For more information on the rules and deadlines for NFPA standards in cycle, please check the NFPA website (www.nfpa.org) or contact Standards Administration at NFPA. Those who submit comments to NFPA's online submission system on the F2021 Revision Cycle Standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 268-202x, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source (revision of ANSI/NFPA 268-2017)

This fire test response standard describes a method for determining the propensity of ignition of exterior wall assemblies from exposure to 12.5 kW/m² (1.10 Btu/ft²-sec) radiant heat in the presence of a pilot ignition source. This test method evaluates the propensity of ignition of an exterior wall assembly where subjected to a minimum radiant heat flux of 12.5 kW/m² (1.10 Btu/ft²-sec). This method determines whether ignition of an exterior wall assembly occurs when the wall is exposed to a specified radiant heat flux, in the presence of a pilot ignition source, during a 20-minute period. This test method utilizes a gas-fired radiant panel to apply a radiant heat flux of 12.5 kW/m² (1.10 Btu/ft²-sec) to a representative sample of an exterior wall assembly while the test specimen is exposed simultaneously to a pilot ignition source. This test method applies to exterior wall assemblies having planar, or nearly planar, external surfaces. This method shall not be used to evaluate the fire resistance of wall assemblies, nor shall it be used to evaluate the effect of fires originating within the building or within the exterior wall assemblies. This method shall not be used...

Obtain an electronic copy from: www.nfpa.org/268Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 269-202x, Standard Test Method for Developing Toxic Potency Data for Use in Fire Hazard Modeling (revision of ANSI/NFPA 269-2017)

The pyrolysis or combustion of every combustible material or product produces smoke that is toxic. A standard test method for the development of data for use in toxic hazard modeling is valuable. Such data include quantification of the toxicity of the smoke. It also is desirable to ascertain whether the observed toxicity can be attributed to the major common toxicants. This test method is intended to provide a means for assessing the lethal toxic potency of combustion products produced from a material or product ignited when exposed to a radiant flux. This test method has been designed to generate toxic potency data on materials and products (including composites) for use in fire-hazard analysis. It is also permitted to be used to assist in the research and development of materials and products. Lethal Toxic Potency Values. Lethal toxic potency values associated with 30-minute exposures are predicted using calculations that employ combustion atmospheric analytical data for carbon monoxide, carbon dioxide, oxygen (vitiation), and, if present, hydrogen cyanide, hydrogen chloride, and hydrogen bromide. These predictive equations are therefore limited to those materials and products whose smoke toxicity can be attributed to these toxicants...

Obtain an electronic copy from: www.nfpa.org/269Next

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

Comment Deadline: September 27, 2021

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 275-202x, Standard Method of Fire Tests for the Evaluation of Thermal Barriers (revision of ANSI/NFPA 275-2017)

This method of fire tests for qualifying a thermal barrier for protecting foam plastic insulation or metal composite materials (MCM), referred to in this standard as a thermal barrier, is applicable to building construction materials, products, or assemblies intended to be used to protect foam plastic insulation or MCM from direct fire exposure. Model building codes require foam plastic insulation and, in some installations, metal composite material (MCM), to be covered by a thermal barrier, or separated from the interior of the building by a thermal barrier to reduce the possibility of ignition or delay its occurrence. The typical time specified is 15 minutes based on a fire exposure similar to that in ASTM E 119 or ANSI/UL 263. The fire exposure conditions in these test methods are similar. The performance of the thermal barrier is evaluated by its ability to limit the temperature rise on its unexposed surface and by the ability of the thermal barrier to remain intact in order to provide protection from ignition of the foam plastic insulation or MCM during a standard fire exposure. This method of fire tests does not evaluate thermal barriers used in or on upholstered furniture or...

Obtain an electronic copy from: www.nfpa.org/275Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 285-202x, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components (revision of ANSI/NFPA 285-2019)

This standard provides a test method for determining the fire propagation characteristics of exterior wall assemblies and panels used as components of curtain wall assemblies that are constructed using combustible materials or that incorporate combustible components. The fire-propagation characteristics are determined for post-flashover fires of interior origin.

Obtain an electronic copy from: www.nfpa.org/285Next

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

NFPA (National Fire Protection Association)

One Batterymarch Park, Quincy, MA 02169 | dbellis@nfpa.org, www.nfpa.org

Revision

BSR/NFPA 287-202x, Standard Test Methods for Measurement of Flammability of Materials in Cleanrooms Using a Fire Propagation Apparatus (FPA) (revision of ANSI/NFPA 287-2017)

This standard shall determine and quantify the flammability characteristics of materials containing polymers that are used in cleanroom applications. The propensity of these materials to support fire propagation, as well as other flammability characteristics, are quantified by means of a fire propagation apparatus. Measurements obtained include time to ignition (t_{ign}), chemical (Q_{chem}), and convective (Q_c) heat release rates, mass loss rates m , and smoke extinction coefficient (D). This standard includes the following separate test methods: (1) The ignition test, which shall be used for the determination of t_{ign}; (2) The combustion test, which shall be used for the determination of Q_{chem}, Q_c, m , and D; (3) The fire propagation test, which shall be used for the determination of Q_{chem} from burning of a vertical specimen...

Obtain an electronic copy from: www.nfpa.org/287Next

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

Comment Deadline: September 27, 2021

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | mleslie@nsf.org, www.nsf.org

Addenda

BSR/NSF/CAN 600-202x (i6r1), 600-2021 Addendum (addenda to ANSI/NSF/CAN 600-2021)

The Standard defines the toxicological review and evaluation procedures for the evaluation of substances imparted to drinking water through contact with drinking water system components (and drinking water additives). It is intended to establish the human health risk, if any, of the substances imparted to drinking water under the anticipated use conditions of the product. Table 4.1 of this Standard contains evaluation criteria that have been determined according to the requirements of this Standard.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/60071/600i6r1%20-%20Chemical%20Prioritization%20Annex%20-%20JC%20memo%20&%20ballot.pdf

Send comments (copy psa@ansi.org) to: Monica Leslie; mleslie@nsf.org

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway South, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

Reaffirmation

BSR/TAPPI T 277 sp-2014 (R202x), Macro stickies content in pulp: The pick-up method (reaffirmation of ANSI/TAPPI T 277 sp-2014)

This standard practice describes removing and preparation of a test specimen that can be analyzed for determining heat-set area and number of macro-stickies in a specified amount of pulp screened. The method applies to a wide range of pulps, typically, recycled pulp. The standard practice does not quantify content of micro-stickies.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (copy psa@ansi.org) to: William Millians, Standards@tappi.org

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org

Reaffirmation

BSR/TAPPI T 572 sp-2013 (R202x), Accelerated pollutant aging of printing and writing paper by pollution chamber exposure apparatus (reaffirmation of ANSI/TAPPI T 572 sp-2013)

This standard practice describes a laboratory procedure for the exposure of printing and writing paper to the common atmospheric pollutant gas, nitrogen dioxide, at elevated levels of concentration to permit accelerated aging of such paper.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (copy psa@ansi.org) to: Natasha Bush-Postell, standards@tappi.org

Comment Deadline: September 27, 2021

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Casey.Granata@ul.org, <https://ul.org/>

National Adoption

BSR/UL 60947-5-1-202x, Standard for Safety for Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices (national adoption of IEC 60947-5-1 with modifications and revision of ANSI/UL 60947-5-1-2014)

Recirculation of proposed adoption of the fourth edition including Amendment 1 of the Standard for Low-Voltage Switchgear and Controlgear - Part 5-1: Control Circuit Devices and Switching Elements - Electromechanical Control Circuit Devices, UL 60947-5-1, as a tri-national standard with national deviations.

Single copy price: Contact comm2000 for pricing and delivery options

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

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

Send comments (copy 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)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Casey.Granata@ul.org, <https://ul.org/>

National Adoption

BSR/UL 60947-5-2-202x, Standard for Safety for Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches (national adoption of IEC 60947-5-2 with modifications and revision of ANSI/UL 60947-5-2-2014)

Recirculation of proposed adoption of the third edition including Amendment 1 of the Standard for Low-Voltage Switchgear and Controlgear - Part 5-2: Control Circuit Devices and Switching Elements - Proximity Switches, UL 60947-5-2, as a tri-national standard with national deviations.

Single copy price: Contact comm2000 for pricing and delivery options

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

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

Send comments (copy 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)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | Nicolette.A.Weeks@ul.org, <https://ul.org/>

Reaffirmation

BSR/UL 14C-2008a (R202x), Standard for Swinging Hardware for Standard Tin-Clad Fire Doors Mounted Singly and in Pairs (reaffirmation of ANSI/UL 14C-2008a (R2017))

UL proposes a reaffirmation to UL 14C.

Single copy price: Free

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

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

Send comments (copy 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>

Project Withdrawn

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

BSR/V2IG CDS VMR R1-202x, HL7 Version 2 Implementation Guide: Implementing the Virtual Medical Record for Clinical Decision Support (vMR-CDS), Release 1 (new standard)

Inquiries may be directed to Karen Van Hentenryck; Karenvan@HL7.org

Notice of Withdrawal: ANS at least 10 years past approval date

The following American National Standards have not been revised or reaffirmed within ten years from the date of their approval as American National Standards and accordingly are withdrawn:

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

18927 Hickory Creek Drive, Mokena, IL 60448 | stan.nickell@asse-plumbing.org, www.asse-plumbing.org

ANSI/ASSE 1017-2009, Performance Requirements for Temperature Actuated Mixing Valves for Hot Water Distribution Systems

Inquiries may be directed to Steve Hazzard, (440) 835-3040, steve@asse-plumbing.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.

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 | tambrosius@aafs.org, www.aafs.org

New Standard

ANSI/ASB BPR 050-2021, Best Practice Recommendation for Photographic Documentation of Footwear and Tire Impression Evidence (new standard) Final Action Date: 8/5/2021

New Standard

ANSI/ASB Std 119-2021, Standard for the Analytical Scope and Sensitivity of Forensic Toxicology Testing for Medicolegal Death Investigations. (new standard) Final Action Date: 8/5/2021

New Standard

ANSI/ASB Std 131-2021, Standard for Training in Forensic DNA Sequencing using Capillary Electrophoresis (new standard) Final Action Date: 8/5/2021

ANS (American Nuclear Society)

555 North Kensington Avenue, La Grange Park, IL 60526 | kmurdoch@ans.org, www.ans.org

New Standard

ANSI/ANS 3.14-2021, Process for Infrastructure Aging Management and Life Extension of Non-Reactor Nuclear Facilities (new standard) Final Action Date: 8/5/2021

Reaffirmation

ANSI/ANS 6.4-2006 (R2021), Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants (reaffirmation of ANSI/ANS 6.4-2006 (R2016)) Final Action Date: 8/5/2021

Reaffirmation

ANSI/ANS 8.14-2004 (R2021), Use of Soluble Neutron Absorbers in Nuclear Facilities Outside Reactors (reaffirmation of ANSI/ANS 8.14-2004 (R2016)) Final Action Date: 8/5/2021

ASSP (Safety) (American Society of Safety Professionals)

520 N. Northwest Highway, Park Ridge, IL 60068 | TFisher@ASSP.org, www.assp.org

National Adoption

ANSI/ASSP/ISO 45003-2021, Occupational health and safety management - Psychological health and safety at work - Managing psychosocial risks - Guidelines (identical national adoption of ISO 45003-2021) Final Action Date: 8/9/2021

Revision

ANSI/ASSP Z590.3-2021, Prevention through Design. Guidelines for Addressing Occupational Hazards and Risks in Design and Redesign Processes (revision and redesignation of ANSI/ASSE Z590.3-2011 (R2016)) Final Action Date: 8/5/2021

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

Reaffirmation

ANSI/ASTM D7618-2013 (R2021), Specification for Ethyl Tertiary-Butyl Ether (ETBE) for Blending with Aviation Spark-Ignition Engine Fuel (reaffirmation of ANSI/ASTM D7618-2013 (R2017)) Final Action Date: 7/20/2021

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

Reaffirmation

ANSI/ASTM F1545-2015 (R2021), Specification for Plastic-Lined Ferrous Metal Pipe, Fittings, and Flanges (reaffirmation of ANSI/ASTM F1545-2015) Final Action Date: 7/20/2021

Reaffirmation

ANSI/ASTM F1673-2010 (R2021), Specification for Polyvinylidene Fluoride (PVDF) Corrosive Waste Drainage Systems (reaffirmation of ANSI/ASTM F1673-2010) Final Action Date: 7/20/2021

Reaffirmation

ANSI/ASTM F2737-2011 (R2021), Specification for Corrugated High Density Polyethylene (HDPE) Water Quality Units (reaffirmation of ANSI/ASTM F2737-2011 (R2017)) Final Action Date: 7/20/2021

Reaffirmation

ANSI/ASTM F2946-2012 (R2021), Specification for PVC Hub and Elastomeric Seal (Gasket) Tee Connection for Joining Plastic Pipe to In-situ Pipelines and Manholes (reaffirmation of ANSI/ASTM F2946-2012 (R2017)) Final Action Date: 7/20/2021

Revision

ANSI/ASTM D1655-2021a, Specification for Aviation Turbine Fuels (revision of ANSI/ASTM D1655-2021) Final Action Date: 7/20/2021

Revision

ANSI/ASTM D2239-2021, Specification for Polyethylene (PE) Plastic Pipe (SIDR-PR) Based on Controlled Inside Diameter (revision of ANSI/ASTM D2239-2017) Final Action Date: 8/1/2021

Revision

ANSI/ASTM D2737-2021, Specification for Polyethylene (PE) Plastic Tubing (revision of ANSI/ASTM D2737-2012A (R2020)) Final Action Date: 8/1/2021

Revision

ANSI/ASTM D2774-2021a, Practice for Underground Installation of Thermoplastic Pressure Piping (revision of ANSI/ASTM D2774-2021) Final Action Date: 7/20/2021

Revision

ANSI/ASTM D3035-2021, Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Controlled Outside Diameter (revision of ANSI/ASTM D3035-2017) Final Action Date: 8/1/2021

Revision

ANSI/ASTM D3244-2021, Practice for Utilization of Test Data to Determine Conformance with Specifications (revision of ANSI/ASTM D3244-2020) Final Action Date: 7/20/2021

Revision

ANSI/ASTM D4054-2021, Practice for Evaluation of New Aviation Turbine Fuels and Fuel Additives (revision of ANSI/ASTM D4054-2020b) Final Action Date: 7/20/2021

Revision

ANSI/ASTM D6792-2021a, Practice for Quality Management Systems in Petroleum Products, Liquid Fuels, and Lubricants Testing Laboratories (revision of ANSI/ASTM D6792-2021) Final Action Date: 8/1/2021

Revision

ANSI/ASTM D7566-2021, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons (revision of ANSI/ASTM D7566-2020b) Final Action Date: 7/20/2021

ASTM (ASTM International)

100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 | accreditation@astm.org, www.astm.org

Revision

ANSI/ASTM D7856-2021, Specification for Color and Appearance Retention of Solid and Variegated Color Plastic Siding Products using CIE Lab Color Space (revision of ANSI/ASTM D7856-2015A) Final Action Date: 7/20/2021

Revision

ANSI/ASTM E162-2021, Test Method for Surface Flammability of Materials Using a Radiant Heat Energy Source (revision of ANSI/ASTM E162-2016) Final Action Date: 7/20/2021

Revision

ANSI/ASTM E2579-2021, Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2579-2021) Final Action Date: 8/1/2021

Revision

ANSI/ASTM F1804-2021, Practice for Determining Allowable Tensile Load for Polyethylene (PE) Gas Pipe During Pull-In Installation (revision of ANSI/ASTM F1804-2016 (R2020)) Final Action Date: 7/20/2021

Revision

ANSI/ASTM F1951-2021, Specification for Determination of Accessibility of Surface Systems Under and Around Playground Equipment (revision of ANSI/ASTM F1951-2014) Final Action Date: 8/1/2021

Revision

ANSI/ASTM F2785-2021, Specification for Polyamide 12 Gas Pressure Pipe, Tubing, and Fittings (revision of ANSI/ASTM F2785-2021) Final Action Date: 7/20/2021

Withdrawal

ANSI/ASTM D6777-2016, Test Method for Relative Rigidity of Poly(Vinyl Chloride)(PVC) Siding (withdrawal of ANSI/ASTM D6777-2016) Final Action Date: 7/20/2021

BIFMA (Business and Institutional Furniture Manufacturers Association)

678 Front Avenue NW, Grand Rapids, MI 49504 | dpanning@bifma.org, www.bifma.org

New Standard

ANSI/BIFMA X5.41-2021, Large Occupant Public and Lounge Seating (new standard) Final Action Date: 8/5/2021

CEMA (Conveyor Equipment Manufacturers Association)

1250 Tamiami Trail N, Naples, FL 34102 | naylu@cemanet.org, www.cemanet.org

Revision

ANSI/CEMA Standard 501.1-2021, Specifications for Welded Steel Wing Pulleys (revision and redesignation of ANSI/CEMA 501.1-2015) Final Action Date: 8/5/2021

Revision

ANSI/CEMA Standard B105.1-2021, Specification for Welded Steel Conveyor Pulleys with Compression Type Hubs (revision and redesignation of ANSI/CEMA B105.1-2015) Final Action Date: 8/5/2021

CSA (CSA America Standards Inc.)

8501 E. Pleasant Valley Road, Cleveland, OH 44131 | ansi.contact@csagroup.org, www.csagroup.org

Reaffirmation

ANSI Z21.5.2-2016 (R2021), Gas clothes dryers, Volume II, type 2, clothes dryers (reaffirmation of ANSI Z21.5.2-2016) Final Action Date: 8/5/2021

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

Reaffirmation

ANSI/EIA 60115-1 ed. 4.0-2014 (R2021), Fixed Resistors for Use in Electronic Equipment - Part 1: Generic Specification (reaffirmation of ANSI/EIA 60115-1 ed. 4.0-2014) Final Action Date: 8/6/2021

Revision

ANSI/EIA 481-F-2021, 4 mm Through 200 mm Embossed Carrier Taping and 8 mm and 12 mm Punched Carrier Taping of Surface Mount Components for Automatic Handling (revision and redesignation of ANSI/EIA 481-E-2015) Final Action Date: 8/5/2021

HL7 (Health Level Seven)

3300 Washtenaw Avenue, Ann Arbor, MI 48104 | Karenvan@HL7.org, www.hl7.org

Reaffirmation

ANSI/HL7 CDAR2L3IG EMSRUNRPT, R2-2016 (R2021), HL7 Version 3 Implementation Guide for CDA Release 2 - Level 3: Emergency Medical Services; Patient Care Report, Release 2 - US REALM (reaffirmation of ANSI/HL7 CDAR2L3IG EMSRUNRPT, R2-2016) Final Action Date: 8/9/2021

Reaffirmation

ANSI/HL7 EHR LTCFP, R1-2010 (R2021), HL7 EHR System Long-Term Care Functional Profile, Release 1 - US Realm (reaffirmation of ANSI/HL7 EHR LTCFP, R1-2010) Final Action Date: 8/9/2021

Reaffirmation

ANSI/HL7 V3 RBAC, R3-2016 (R2021), HL7 Version 3 Standard: Healthcare (Security and Privacy) Access Control Catalog, Release 3 (reaffirmation of ANSI/HL7 V3 RBAC, R3-2016) Final Action Date: 8/9/2021

IES (Illuminating Engineering Society)

120 Wall Street, Floor 17, New York, NY 10005-4001 | pmcgilllicuddy@ies.org, www.ies.org

Revision

ANSI/IES LM-80-2021, Approved Method: Measuring Maintenance of Light Output Characteristics of Solid-State Light Sources (revision of ANSI/IES LM-80-2017 (R2020)) Final Action Date: 8/6/2021

Revision

ANSI/IES TM-21-2021, Technical Memorandum: Projecting Long-Term Lumen, Photon, and Radiant Flux Maintenance of LED Light Sources (revision of ANSI/IES TM-21-2019) Final Action Date: 8/6/2021

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

700 K Street NW, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

National Adoption

INCITS/ISO/IEC 7812-1:2017 [2021], Identification Cards - Identification of Issuers - Part 1: Numbering System (identical national adoption of ISO/IEC 7812-1:2017 and revision of INCITS/ISO/IEC 7812-1:2015 [2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 7816-4:2020 [2021], Identification Cards - Integrated Circuit Cards - Part 4: Organization, Security and Commands for Interchange (identical national adoption of ISO/IEC 7816-4:2020 and revision of INCITS/ISO/IEC 7816-4:2013 [2016]) Final Action Date: 8/9/2021

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

700 K Street NW, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

National Adoption

INCITS/ISO/IEC 10373-6:2020 [2021], Cards and security devices for personal identification - Test methods - Part 6: Contactless proximity objects (identical national adoption of ISO/IEC 10373-6:2020 and revision of INCITS/ISO/IEC 10373-6:2016 [2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 11695-3:2017 [2021], Identification Cards - Optical Memory Cards - Holographic Recording Method - Part 3: Optical Properties and Characteristics (identical national adoption of ISO/IEC 11695-3:2017 and revision of INCITS/ISO/IEC 11695-3:2008 [R2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 14443-2:2020 [2021], Cards and security devices for personal identification - Contactless proximity objects - Part 2: Radio frequency power and signal interface (identical national adoption of ISO/IEC 14443-2:2020 and revision of INCITS/ISO/IEC 14443-2:2016 [2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 18013-2:2020 [2021], Personal identification - ISO-compliant driving licence - Part 2: Machine-readable technologies (identical national adoption of ISO/IEC 18013-2:2020 and revision of INCITS/ISO/IEC 18013-2:2008 [R2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 19763-3:2020 [2021], Information Technology - Metamodel Framework for Interoperability (MFI) - Part 3: Metamodel for Ontology Registration (identical national adoption of ISO/IEC 19763-3:2020 and revision of INCITS/ISO/IEC 19763-3:2010 [R2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 23000-6:2012 [2021], Information technology - Multimedia application format (MPEG-A) - Part 6: Professional archival application format (identical national adoption of ISO/IEC 23000-6:2012 and revision of INCITS/ISO/IEC 23000-6:2009 [R2016]) Final Action Date: 8/9/2021

National Adoption

INCITS/ISO/IEC 23000-10:2012 [2021], Information technology - Multimedia application format (MPEG-A) - Part 10: Surveillance application format (identical national adoption of ISO/IEC 23000-10:2012 and revision of INCITS/ISO/IEC 23000-10:2009 [R2016]) Final Action Date: 8/9/2021

Reaffirmation

INCITS 524-2016 [R2021], Information Technology - AT Attachment 8 - ATA/ATAPI Parallel Transport (ATA8-APT) (reaffirmation of INCITS 524-2016) Final Action Date: 8/9/2021

Reaffirmation

INCITS 537-2016 [R2021], Information technology - Zoned Device ATA Command Set (ZAC) (reaffirmation of INCITS 537-2016) Final Action Date: 8/9/2021

NEMA (ASC C12) (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 | orrpaul@aol.com, www.nema.org

Reaffirmation

ANSI C12.9-2014 (R2021), Test Switches and Plugs for Transformer-Rated Meters (reaffirmation of ANSI C12.9-2014) Final Action Date: 8/5/2021

NEMA (ASC C8) (National Electrical Manufacturers Association)

1300 North 17th Street, Arlington, VA 22209 | Khaled.Masri@nema.org, www.nema.org

Revision

ANSI ICEA S-94-649-2021, Concentric Neutral Cables Rated 5 Through 46 kV (revision of ANSI/ICEA S-94-649-2013)

Final Action Date: 8/5/2021

NEMA (National Electrical Manufacturers Association)

1300 North 17th Street, Rosslyn, VA 22209 | and_moldoveanu@nema.org, www.nema.org

New Standard

ANSI NEMA SM31000-2-2021, Electrical Submeter Active Energy Accuracy (new standard) Final Action Date: 8/6/2021

NSF (NSF International)

789 N. Dixboro Road, Ann Arbor, MI 48105-9723 | jsnider@nsf.org, www.nsf.org

New Standard

ANSI/NSF 505-2021 (i1r3), Conformity Assessment Requirements for Certification Bodies that Certify Pool Chemicals Pursuant to NSF/ANSI/CAN 50: Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (new standard) Final Action Date: 7/30/2021

Revision

ANSI/NSF 2-2021 (i38r2), Food Equipment (revision of ANSI/NSF 2-2019) Final Action Date: 8/3/2021

Revision

ANSI/NSF 6-2021 (i20r1), Dispensing Freezers (revision of ANSI/NSF 6-2018) Final Action Date: 8/2/2021

Revision

ANSI/NSF 7-2021 (i26r1), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2019) Final Action Date: 8/2/2021

Revision

ANSI/NSF 8-2021 (i20r1), Commercial Powered Food Preparation Equipment (revision of ANSI/NSF 8-2018) Final Action Date: 8/2/2021

Revision

ANSI/NSF 25-2021 (i20r1), Thermoplastic Refuse Containers (revision of ANSI/NSF 25-2017) Final Action Date: 8/2/2021

Revision

ANSI/NSF 29-2021 (i7r1), Detergent and Chemical Feeders for Commercial Spray-Type Dishwashing Machines (revision of ANSI/NSF 29-2017) Final Action Date: 8/2/2021

Revision

ANSI/NSF 42-2021 (i116r2), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2020) Final Action Date: 8/1/2021

Revision

ANSI/NSF 53-2021 (i135r1), Drinking Water Treatment Units - Health Effects (revision of ANSI/NSF 53-2020) Final Action Date: 8/5/2021

Revision

ANSI/NSF 170-2021 (i32r1), Glossary of Food Equipment Terminology (revision of ANSI/NSF 170-2019) Final Action Date: 8/2/2021

RVIA (Recreational Vehicle Industry Association)

1899 Preston White Drive, Reston, VA 20191-4326 | kperkins@rvia.org, www.rvia.org

New Standard

ANSI/RVIA RVEC-1-2021, Recommended Practice Testing Requirements of Exterior Components for Recreational Vehicles (new standard) Final Action Date: 8/9/2021

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

400 Admiral Boulevard, Kansas City, MO 64106 | deanna@saiaonline.org, www.saiaonline.org

Revision

ANSI/SAIA A92.20-2021, Design, Calculations, Safety Requirements and Test Methods for Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.20-2020) Final Action Date: 8/5/2021

Revision

ANSI/SAIA A92.22-2021, Safe Use of Mobile Elevating Work Platforms (MEWPs) (revision of ANSI/SAIA A92.22-2020) Final Action Date: 8/5/2021

SCTE (Society of Cable Telecommunications Engineers)

140 Philips Rd, Exton, PA 19341 | kcooney@scte.org, www.scte.org

Reaffirmation

ANSI/SCTE 46-2014 (R2021), Test Method for AC to DC Outdoor Power Supplies (reaffirmation of ANSI/SCTE 46-2014) Final Action Date: 8/5/2021

Revision

ANSI/SCTE 236-2021, Content Metadata (revision of ANSI/SCTE 236-2017) Final Action Date: 8/5/2021

UL (Underwriters Laboratories)

333 Pflugsten Road, Northbrook, IL 60062-2096 | alan.t.mcgrath@ul.org, https://ul.org/

National Adoption

ANSI/UL 60730-2-9-2021, Standard for Automatic Electrical Controls - Part 2-9: Particular requirements for temperature sensing controls (identical national adoption of IEC 60730-2-9 and revision of ANSI/UL 60730-2-9-2020) Final Action Date: 8/9/2021

New Standard

ANSI/UL 536-2021, Standard for Safety for Flexible Metallic Hose (new standard) Final Action Date: 8/9/2021

Reaffirmation

ANSI/UL 452-2021, Standard for Antenna - Discharge Units (reaffirmation and redesignation of ANSI/UL 452-2015) Final Action Date: 8/6/2021

Reaffirmation

ANSI/UL 1419-2021, Standard for Safety for Professional Video and Audio Equipment (reaffirmation and redesignation of ANSI/UL 2021-2016) Final Action Date: 7/30/2021

Reaffirmation

ANSI/UL 60079-17-2017 (R2021), Standard for Safety for Explosive Atmospheres - Part 17: Electrical Installations Inspection and Maintenance (reaffirm a national adoption ANSI/UL 60079-17-2017) Final Action Date: 7/28/2021

Revision

ANSI/UL 263-2021, Standard for Safety for Fire Tests of Building Construction and Materials (revision of ANSI/UL 263-2020) Final Action Date: 8/5/2021

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 | caroline.treuthardt@ul.org, <https://ul.org/>

Revision

ANSI/UL 746F-2021a, Standard for Safety for Polymeric Materials - Flexible Dielectric Film Materials for Use in Printed-Wiring Boards and Flexible Materials Interconnect Constructions (revision of ANSI/UL 746F-2021) Final Action Date: 8/4/2021

Revision

ANSI/UL 796-2021, Standard for Safety for Printed Wiring Boards (revision of ANSI/UL 796-2020) Final Action Date: 8/4/2021

Revision

ANSI/UL 796F-2021a, Standard for Safety for Flexible Materials Interconnect Constructions (revision of ANSI/UL 796F-2021) Final Action Date: 8/4/2021

Call for Members (ANS Consensus Bodies)

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

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

18927 Hickory Creek Drive, Mokena, IL 60448 | stan.nickell@asse-plumbing.org, www.asse-plumbing.org
Stan Nickell; stan.nickell@asse-plumbing.org

ANSI/ASSE 1017-2009, Performance Requirements for Temperature Actuated Mixing Valves
for Hot Water Distribution Systems (new standard)

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

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

SCTE is currently seeking to broaden the membership base of its ANS consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities. Membership in the SCTE Standards Program is open to all directly and materially affected parties as defined in SCTE's membership rules and operating procedures. More information is available at www.scte.org or by e-mail from standards@scte.org.

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

Accreditation Announcements (Standards Developers)

Public Review of Revised ASD Operating Procedures

AMCA - Air Movement and Control Association

Comment Deadline: August 29, 2021

The **AMCA - Air Movement and Control Association**, an ANSI Member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on AMCA-sponsored American National Standards, under which it was last reaccredited in 2018. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Joseph Brooks, Air Movement and Control Association (AMCA); 30 West University Drive, Arlington Heights, IL 60004-1893; (847) 394-0150; jbrooks@amca.org

[Click here to view/download a copy of the revisions during the public review period.](#)

Please submit any public comments on the revised procedures to AMCA by **August 30, 2021**, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ADA (Organization) - American Dental Association

Meeting Time: October 8-10, 2021

The ADA Standards Committee on Dental Informatics (SCDI) returns to in-person meetings **October 8-10, 2021**, at the Mandalay Bay Resort and Casino, in Las Vegas, NV (3950 Las Vegas Blvd S, Las Vegas, NV 89119). The meeting will open on Friday, October 8, at 8:30am with an Opening Plenary. The SCDI Plenary session will take place Sunday, October 10, from 8:30am – 12:00pm. Working groups will meet throughout Friday, October 8 and Saturday, October 9. Although there is no charge, registration is required to attend any of the SCDI meetings. Discounted hotel reservations are available. For further information on the ADA SCDI meeting, please contact Paul Bralower at 800-621-8099, Ext. 4129 or e-mail "bralowerp@ada.org". For hotel and registration information, please contact Marilyn Ward at 800-621-8099, Ext. 2506 or e-mail "wardm@ada.org".

American National Standards (ANS) Process

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:

Where to find Procedures, Guidance, Interpretations and More...

Please visit ANSI's website (www.ansi.org)

- 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: <https://www.ansi.org/portal/psawebforms/>
- Information about standards Incorporated by Reference (IBR): <https://ibr.ansi.org/>
- ANSI - Education and Training: www.standardslearn.org

If you have a question about the ANS process and cannot find the answer, please email us at: 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>

American National Standards 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.

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- 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)

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 (ASD) Contacts

The addresses listed in this section are to be used in conjunction with standards listed in PINS, Call for Comment, Call for Members 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 the PSA Department at psa@ansi.org.

AAFS

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ANS

American Nuclear Society
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APTech (ASC CGATS)

Association for Print Technologies
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ASABE

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ASSP (Safety)

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BIFMA

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CEMA

Conveyor Equipment Manufacturers
Association
1250 Tamiami Trail N
Naples, FL 34102
www.cemanet.org

Naylu Garces
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CRSI

Concrete Reinforcing Steel Institute
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Schaumburg, IL 60173
www.crsi.org

Amy Trygestad
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CSA

CSA America Standards Inc.
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CTA

Consumer Technology Association
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ECIA

Electronic Components Industry
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www.ecianow.org

Laura Donohoe
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EOS/ESD

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ANSI-Accredited Standards Developers Contact Information

HL7

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IAPMO (Z)

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Ontario, CA 91761
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IES

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ITI (INCITS)

InterNational Committee for Information
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NASBLA

National Association of State Boating Law
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NFPA

National Fire Protection Association
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NSF

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ISO & IEC Draft International Standards

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

COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

ORDERING INSTRUCTIONS

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

ISO Standards

Additive manufacturing (TC 261)

ISO/ASTM DIS 52920, Additive manufacturing - Qualification principles - Requirements for industrial additive manufacturing sites/Requirements for industrial additive manufacturing sites - 11/9/2002, \$98.00

Agricultural food products (TC 34)

ISO/DIS 7927-1, Spices and condiments - Fennel seed, whole or ground (powdered) - Part 1: Bitter fennel seed (*Foeniculum vulgare* P. Miller var. *vulgare*) - Specification - 10/25/2021, \$40.00

ISO/DIS 7927-2, Spices and condiments - Fennel seed, whole or ground (powdered) - Part 2: Sweet fennel (*Foeniculum vulgare* var. *panmorium*) - Specification - 10/25/2021, \$40.00

ISO/FDIS 22949-1, Molecular biomarker analysis - Methods of analysis for the detection and identification of animal species in foods and food products (nucleotide sequencing-based methods) - Part 1: General requirements - 11/4/2029, \$82.00

Aircraft and space vehicles (TC 20)

ISO/DIS 23135, Space systems - Verification programme and management process - 11/9/2002, \$93.00

ISO/DIS 24356, General requirements for tethered unmanned aircraft systems - 10/24/2021, \$58.00

Anaesthetic and respiratory equipment (TC 121)

ISO/DIS 80601-2-12, Medical electrical equipment - Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators - 11/9/2002, \$185.00

Bamboo and rattan (TC 296)

ISO/DIS 23067, Grading System for Rattan: Guidelines and Classification - 11/9/2004, \$46.00

ISO/DIS 21629-2, Bamboo floorings - Part 2: Outdoor use - 10/22/2021, \$62.00

Brand evaluation (TC 289)

ISO/DIS 20671-3, Brand evaluation - Part 3: Guidelines for brands related to geographical Indications - 10/25/2021, \$67.00

Building construction (TC 59)

ISO/DIS 4781, Building and civil engineering sealants - Determination of application life - 11/9/2004, \$33.00

ISO/DIS 4784, Building and civil engineering sealants - Determination of surface cure time - 11/9/2004, \$33.00

ISO/DIS 11617, Building and civil engineering sealants - Determination of changes in cohesion and appearance of elastic weatherproofing sealants after exposure of statically cured specimens to artificial weathering and mechanical cycling - 11/9/2002, \$71.00

Clinical laboratory testing and in vitro diagnostic test systems (TC 212)

ISO/DIS 18113-1, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 1: Terms, definitions, and general requirements - 11/9/2001, \$125.00

ISO/DIS 18113-2, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 2: In vitro diagnostic reagents for professional use - 11/9/2001, \$58.00

ISO/DIS 18113-3, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 3: In vitro diagnostic instruments for professional use - 11/9/2001, \$53.00

ISO/DIS 18113-4, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 4: In vitro diagnostic reagents for self-testing - 11/9/2001, \$58.00

ISO/DIS 18113-5, In vitro diagnostic medical devices - Information supplied by the manufacturer (labelling) - Part 5: In vitro diagnostic instruments for self-testing - 11/9/2001, \$53.00

Corrosion of metals and alloys (TC 156)

ISO/DIS 4215, Corrosion of metals and alloys - Test method for high-temperature corrosion testing of metallic materials by thermogravimetry under isothermal or cyclic conditions - 11/9/2002, \$58.00

Ferrous metal pipes and metallic fittings (TC 5)

ISO/DIS 4370, Environmental life cycle assessment and recycling of ductile iron pipes for water applications - 11/9/2002, \$71.00

ISO/FDIS 21052, Restrained joint systems for ductile iron pipelines - Calculation rules for lengths to be restrained - 11/13/2028, \$93.00

Fine ceramics (TC 206)

ISO/DIS 18755, Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of thermal diffusivity of monolithic ceramics by flash method - 10/24/2021, \$107.00

ISO/DIS 24046, Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods of tests for reinforcements - Determination of the tensile properties of resin-impregnated yarns - 11/10/2003, \$67.00

Fluid power systems (TC 131)

ISO/DIS 16028, Hydraulic fluid power - Flush-face type, quick-action couplings for use at pressures of 10 MPa (200 bar) to 31,5 MPa (315 bar) - Specifications - 10/23/2021, \$40.00

Graphic technology (TC 130)

ISO/FDIS 24487-1, Graphic technology - Processless lithographic plates - Part 1: Evaluation methods for characteristics and performance - 11/3/2002, \$93.00

Health Informatics (TC 215)

ISO/DIS 4454, Genomics informatics - Phenopackets: A format for phenotypic data exchange - 10/22/2021, \$155.00

Implants for surgery (TC 150)

ISO/FDIS 5832-3, Implants for surgery - Metallic materials - Part 3: Wrought titanium 6-aluminium 4-vanadium alloy - 11/11/2012, \$46.00

Innovation management (TC 279)

ISO/FDIS 56006, Innovation management - Tools and methods for strategic intelligence management - Guidance - 11/9/2009, \$58.00

Laboratory glassware and related apparatus (TC 48)

ISO/DIS 5215, Laboratory plastic ware - Volumetric flasks - 11/10/2003, \$53.00

Mechanical vibration and shock (TC 108)

ISO/DIS 21940-21, Mechanical vibration - Rotor balancing - Part 21: Description and evaluation of balancing machines - 10/22/2021, \$134.00

Metallic and other inorganic coatings (TC 107)

ISO/DIS 1461, Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods - 10/22/2021, \$71.00

Nuclear energy (TC 85)

ISO/DIS 20044, Measurement of radioactivity in the environment - Air: aerosols - Test method using sampling by filter media - Aerosols sampling - 10/22/2021, \$112.00

Optics and optical instruments (TC 172)

ISO/DIS 9022-3, Optics and photonics - Environmental test methods - Part 3: Mechanical stress - 11/10/2003, \$46.00

Other

ISO/DIS 14268, Leather - Physical and mechanical tests - Determination of water vapour permeability - 10/24/2021, \$46.00

Personal safety - Protective clothing and equipment (TC 94)

ISO/DIS 6942, Protective clothing - Protection against heat and fire - Method of test: Evaluation of materials and material assemblies when exposed to a source of radiant heat - 10/28/2021, \$58.00

Plastics (TC 61)

ISO/DIS 23927, Laminates and moulding compounds - Prepregs - Determination of tack - 11/9/2001, \$53.00

Road vehicles (TC 22)

ISO/FDIS 6469-3, Electrically propelled road vehicles - Safety specifications - Part 3: Electrical safety - 11/13/2013, \$88.00

ISO/DIS 15118-4, Road vehicles - Vehicle to grid communication interface - Part 4: Network and application protocol conformance test - 10/23/2021, \$380.00

Ships and marine technology (TC 8)

ISO/DIS 24316, Ships and marine technology - Design and testing specification for steel doors using electrical resistance trace heating - 11/9/2002, \$62.00

ISO/DIS 24319, Ships and marine technology - Design and test requirements for electrical trace heating small steel hatches - 11/9/2002, \$67.00

ISO/DIS 24452, Ships and marine technology - Personal and group survival kit for use in polar water - 11/9/2001, \$82.00

Small tools (TC 29)

ISO/DIS 12164-1, Hollow taper interface with flange contact surface - Part 1: Shanks of types A, AB, C, CB and EB - 11/10/2003, \$93.00

ISO/DIS 12164-2, Hollow taper interface with flange contact surface - Part 2: Receivers of type A, C and E for hollow taper shanks of type A, AB, C, CB and EB - 11/10/2003, \$46.00

ISO/DIS 12164-3, Hollow taper interface with flange contact surface - Part 3: Shanks of type T, TA and U - 11/10/2003, \$67.00

ISO/DIS 12164-4, Hollow taper interface with flange contact surface
- Part 4: Receivers of type T and U for hollow taper shanks of type T, TA and U - 11/10/2003, \$40.00

ISO/DIS 12164-5, Hollow taper interface with flange contact surface
- Part 5: Shanks of type AS, CS and ES - 11/10/2003, \$93.00

ISO/DIS 12164-6, Hollow taper interface with flange contact surface
- Part 6: Receivers of type AS, CS and ES for hollow taper shanks of type AS, CS and ES - 11/10/2003, \$40.00

ISO/FDIS 22402-1, Medium-transfer units for tool interfaces - Part 1:
Transfer units for hollow taper shanks in accordance with the ISO 12164 series - 11/12/2011, \$67.00

Soil quality (TC 190)

ISO/DIS 23611-4, Soil quality - Sampling of soil invertebrates - Part 4:
Sampling, extraction and identification of soil-inhabiting nematodes - 10/28/2021, \$88.00

Solid biofuels (TC 238)

ISO/DIS 18122, Solid biofuels - Determination of ash content -
10/25/2021, \$40.00

Solid mineral fuels (TC 27)

ISO/DIS 923, Coal cleaning equipment - Performance evaluation -
10/25/2021, FREE

ISO/FDIS 1014, Coke - Determination of true relative density,
apparent relative density and porosity - 11/2/2006, \$53.00

Sports and recreational equipment (TC 83)

ISO/DIS 25649-1, Floating leisure articles for use on and in the water
- Part 1: Classification, materials, general requirements and test methods - 10/25/2021, \$107.00

ISO/DIS 25649-2, Floating leisure articles for use on and in the water
- Part 2: Consumer information - 10/25/2021, \$88.00

ISO/DIS 25649-3, Floating leisure articles for use on and in the water
- Part 3: Additional specific safety requirements and test methods for Class A devices - 10/25/2021, \$71.00

ISO/DIS 25649-4, Floating leisure articles for use on and in the water
- Part 4: Additional specific safety requirements and test methods for Class B devices - 10/25/2021, \$88.00

ISO/DIS 25649-5, Floating leisure articles for use on and in the water
- Part 5: Additional specific safety requirements and test methods for Class C devices - 10/25/2021, \$88.00

ISO/DIS 25649-6, Floating leisure articles for use on and in the water
- Part 6: Additional specific safety requirements and test methods for Class D devices - 10/25/2021, \$88.00

ISO/DIS 25649-7, Floating leisure articles for use on and in the water
- Part 7: Additional specific safety requirements and test methods for Class E devices - 10/25/2021, \$93.00

Surface chemical analysis (TC 201)

ISO/DIS 18115-3, Surface chemical analysis - Vocabulary - Part 3:
Terms used in optical interface analysis - 11/10/2003, \$102.00

Technical systems and aids for disabled or handicapped persons (TC 173)

ISO/DIS 16840-11, Wheelchair seating - Part 11: The determination
of dissipation characteristics of sensible perspiration into seat cushions - 11/10/2003, \$46.00

Terminology (principles and coordination) (TC 37)

ISO/DIS 12620-1, Management of terminology resources - Data
categories - Part 1: Specifications - 10/24/2021, \$58.00

Textile machinery and allied machinery and accessories (TC 72)

ISO/DIS 8115-1, Cotton bales - Dimensions and density - 11/9/2004,
\$29.00

ISO/DIS 8115-3, Bales - Part 3: Bales of cotton - Packaging and
labelling - 11/9/2004, \$29.00

Tourism and related services (TC 228)

ISO/DIS 13810, Tourism and related services - Visits to industrial
tourism organizations and to natural, cultural and historical sites -
Requirements and recommendations - 10/23/2021, \$58.00

Tractors and machinery for agriculture and forestry (TC 23)

ISO/FDIS 11738, Agricultural irrigation equipment - Control heads -
11/12/2025, \$67.00

Traditional Chinese medicine (TC 249)

ISO/DIS 4154, Traditional Chinese Medicine - Sinomenium acutum
stem - 11/9/2004, \$58.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 27400, Cybersecurity - IoT security and privacy -
Guidelines - 11/9/2001, \$112.00

ISO/IEC FDIS 13818-1/DAMd1, Information technology - Generic
coding of moving pictures and associated audio information - Part
1: Systems - Amendment 1: Carriage of LCEVC in MPEG-2 TS and
other improvements - 10/29/2021, FREE

ISO/IEC DIS 18181-4, Information technology - JPEG XL Image Coding
System - Part 4: Reference software - 11/9/2004, \$33.00

ISO/IEC DIS 19794-14, Information technology - Biometric data
interchange formats - Part 14: DNA data - 10/22/2021, \$185.00

IEC Standards

13/1845(F)/CDV, IEC 62052-41-ED1 ED1: Electricity metering
equipment - General requirements, tests and test conditions -
Part 41: Energy registration methods and requirements for multi-
energy and multi-rate meters, 10/22/2021

55/1918/NP, PNW 55-1918 ED1: Specifications for particular types of winding wires - Part 93: Polyester or polyesterimide overcoated with polyamide-imide enamelled rectangular copper wire, class 220, 10/29/2021

86B/4477(F)/CDV, IEC 61753-089-02 ED1: Fibre optic interconnecting devices and passive components - Performance standard - Part 089-02: Non-connectorised single-mode bidirectional OTDR monitoring WWDM for categorie C - Indoor controlled environment, 10/15/2021

86B/4497(F)/FDIS, IEC 61753-101-03 ED1: Fibre optic interconnecting devices and passive components performance standard - Part 101-03: Fibre management systems for category OP - Outdoor protected environment, 08/27/2021

94/523/NP, PNW 94-523 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-0: General and guidance, 10/29/2021

110/1342/CD, IEC TR 62595-1-5 ED1: Display lighting unit - Part 1-5: Electrical signal interface of LED BLU, 10/01/2021

Electric welding (TC 26)

26/729/CD, IEC 62822-3 ED2: Electric welding equipment - Assessment of restrictions related to human exposure to electromagnetic fields (0 Hz to 300 Hz) - Part 3: Resistance welding equipment, 10/29/2021

Electrical accessories (TC 23)

23E/1235/CDV, IEC 61543 ED2: Residual current-operated protective devices (RCDs) for household and similar use - Electromagnetic compatibility, 10/29/2021

23E/1236/CDV, IEC 62873-3-3 ED2: Residual current operated circuit-breakers for household and similar use - Part 3-3: Specific requirements for devices with screw-type terminals for external untreated aluminium conductors and with aluminium screw-type terminals for use with copper or with aluminium conductors, 10/29/2021

Electrical equipment in medical practice (TC 62)

62B/1249(F)/FDIS, IEC 61223-3-7 ED1: Evaluation and routine testing in medical imaging departments - Part 3-7: Acceptance and constancy tests - Imaging performance of X-ray equipment for dental cone beam computed tomography, 08/27/2021

62D/1880/CDV, ISO 80601-2-12 ED3: Medical electrical equipment - Part 2-12: Particular requirements for the basic safety and essential performance of critical care ventilators, 10/29/2021

Fibre optics (TC 86)

86B/4476(F)/CDV, IEC 62077 ED4: Fibre optic interconnecting devices and passive components - Fibre optic circulators - Generic specification, 10/15/2021

Fuel Cell Technologies (TC 105)

105/871/CD, IEC 62282-6-401 ED1: Fuel cell technologies - Part 6 -401: Micro fuel cell power systems - Power and data interchangeability - Performance test methods for laptop computers, 10/29/2021

Industrial-process measurement and control (TC 65)

65E/791/CDV, IEC 62453-302 ED3: Field device tool (FDT) interface specification - Part 302: Communication profile integration - IEC 61784 CPF 2, 10/29/2021

Internet of things and digital twin (JTC 1/SC 41)

JTC1-SC41/232/CDV, ISO/IEC 30169 ED1: Internet of things (IoT) - IoT applications for electronic label system (ELS), 10/29/2021

Nanotechnology standardization for electrical and electronic products and systems (TC 113)

113/615/CD, IEC TS 62607-6-2 ED1: Nanomanufacturing - Key control characteristics - Part 6-2: Graphene-based material - Number of layers: atomic force microscopy, optical transmission, Raman spectroscopy, 10/29/2021

Performance of household electrical appliances (TC 59)

59F/434/FDIS, IEC 62885-2 ED2: Surface cleaning appliances - Part 2: Dry vacuum cleaners for household or similar use - Methods for measuring the performance, 09/17/2021

Rotating machinery (TC 2)

2/2059/CDV, IEC 60072-1 ED7: Dimensions and output series for rotating electrical machines - Part 1: Frame numbers 56 to 400 and flange numbers 55 to 1080, 10/29/2021

Switchgear and controlgear (TC 17)

17/1106/FDIS, IEC 62271-1/AMD1 ED2: Amendment 1 - High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear, 09/17/2021

Switchgear and Controlgear and Their Assemblies for Low Voltage (TC 121)

121B/138/CDV, IEC 61439-7 ED2: Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations, 10/29/2021

System engineering and erection of electrical power installations in systems with nominal voltages above 1 kV A.C., particularly considering safety aspects (TC 99)

99/328/Q, Proposed horizontal standard: IEC 60071-12 ED 1 Insulation Co-ordination - Part 12: Application guidelines for LCC HVDC converter stations, 09/17/2021

Terminology (TC 1)

1/2458/FDIS, IEC 60050-651/AMD1 ED2: Amendment 1 -
International Electrotechnical Vocabulary (IEV) - Part 651: Live
working, 09/17/2021

Wind turbine generator systems (TC 88)

88/822/CDV, IEC 61400-12-1 ED3: Wind energy generation systems -
Part 12-1: Power performance measurement of electricity
producing wind turbines, 10/29/2021

88/823/CDV, IEC 61400-12-2 ED2: Wind energy generation systems -
Part 12-2: Power performance of electricity producing wind
turbines based on nacelle anemometry, 10/29/2021

88/824/CDV, IEC 61400-12-3 ED1: Wind energy generation systems -
Part 12-3: Power Performance - Measurement Based Site
Calibration, 10/29/2021

88/825/CDV, IEC 61400-12-5 ED1: Wind energy generation systems -
Part 12-5: Power performance - Assessment of obstacles and
terrain, 10/29/2021

88/826/CDV, IEC 61400-12-6 ED1: Wind energy generation systems -
Part 12-6: Measurement based nacelle transfer function of
electricity producing wind turbines, 10/29/2021

88/827/CDV, IEC 61400-50 ED1: Wind energy generation systems -
Part 50: Wind measurements, 10/29/2021

88/828/CDV, IEC 61400-50-1 ED1: Wind energy generation systems -
Part 50-1: Wind Measurement - Application of Meteorological
Mast, Nacelle and Spinner Mounted Instruments, 10/29/2021

88/829/CDV, IEC 61400-50-2 ED1: Wind energy generation systems -
Part 50-2: Wind Measurement - Application of Ground Mounted
Remote Sensing Technology, 10/29/2021

88/830/CDV, IEC 61400-12 ED1: Wind energy generation systems -
Part 12: Power performance measurements of electricity
producing wind turbines - Overview, 10/29/2021

Winding wires (TC 55)

55/1917/NP, PNW 55-1917 ED1: Specifications for particular types
of winding wires - Part 89: Polyesterimide enameled round
aluminum wire, class 200, 10/29/2021



Newly Published ISO Standards

Listed here are new and revised standards recently approved and promulgated by ISO - the International Organization for Standardization. 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>).

Agricultural food products (TC 34)

ISO 18363-4:2021, Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 4: Method using fast alkaline transesterification and measurement for 2-MCPD, 3-MCPD and glycidol by GC-MS/MS, \$149.00

Aircraft and space vehicles (TC 20)

ISO 14620-3:2021, Space systems - Safety requirements - Part 3: Flight safety systems, \$73.00

Building environment design (TC 205)

ISO 11855-1:2021, Building environment design - Embedded radiant heating and cooling systems - Part 1: Definitions, symbols, and comfort criteria, \$175.00

ISO 11855-3:2021, Building environment design - Embedded radiant heating and cooling systems - Part 3: Design and dimensioning, \$149.00

ISO 11855-4:2021, Building environment design - Embedded radiant heating and cooling systems - Part 4: Dimensioning and calculation of the dynamic heating and cooling capacity of Thermo Active Building Systems (TABs), \$225.00

Corrosion of metals and alloys (TC 156)

ISO 7539-9:2021, Corrosion of metals and alloys - Stress corrosion testing - Part 9: Preparation and use of pre-cracked specimens for tests under rising load or rising displacement, \$175.00

Documents and data elements in administration, commerce and industry (TC 154)

ISO 14533-2:2021, Processes, data elements and documents in commerce, industry and administration - Long term signature - Part 2: Profiles for XML Advanced Electronic Signatures (XAeS), \$149.00

Graphic technology (TC 130)

ISO 14298:2021, Graphic technology - Management of security printing processes, \$149.00

Materials, equipment and offshore structures for petroleum and natural gas industries (TC 67)

ISO 15590-2:2021, Petroleum and natural gas industries - Factory bends, fittings and flanges for pipeline transportation systems - Part 2: Fittings, \$175.00

Paints and varnishes (TC 35)

ISO 11125-9:2021, Preparation of steel substrates before application of paints and related products - Test methods for metallic blast-cleaning abrasives - Part 9: Wear testing and performance, \$111.00

Pigments, dyestuffs and extenders (TC 256)

ISO 787-2:2021, General methods of test for pigments and extenders - Part 2: Determination of matter volatile at 105°C, \$48.00

Plastics (TC 61)

ISO 4892-2/Amd1:2021, Plastics - Methods of exposure to laboratory light sources - Part 2: Xenon-arc lamps - Amendment 1: Classification of daylight filters, \$20.00

Railway applications (TC 269)

ISO 23300-1:2021, Railway infrastructure - Rail welding - Part 1: General requirements and test methods for rail welding, \$200.00

Robots and robotic devices (TC 299)

ISO 18646-4:2021, Robotics - Performance criteria and related test methods for service robots - Part 4: Lower-back support robots, \$175.00

Rubber and rubber products (TC 45)

ISO 4647:2021, Rubber, vulcanized - Determination of static adhesion to textile cord - H-pull test, \$111.00

Technical drawings, product definition and related documentation (TC 10)

ISO 11540:2021, Writing and marking instruments - Specification for caps to reduce the risk of asphyxiation, \$73.00

Tobacco and tobacco products (TC 126)

ISO 16632:2021, Tobacco and tobacco products - Determination of water content - Gas-chromatographic method, \$73.00

Transport information and control systems (TC 204)

ISO 4426:2021, Intelligent transport systems - Lower layer protocols for usage in the European digital tachograph, \$225.00

ISO Technical Specifications

Agricultural food products (TC 34)

ISO/TS 23758:2021, Guidelines for the validation of qualitative screening methods for the detection of residues of veterinary drugs in milk and milk products, \$175.00

Nanotechnologies (TC 229)

ISO/TS 21633:2021, Label-free impedance technology to assess the toxicity of nanomaterials in vitro, \$149.00

ISO/TS 23034:2021, Nanotechnologies - Method to estimate cellular uptake of carbon nanomaterials using optical absorption, \$149.00

Petroleum products and lubricants (TC 28)

ISO/TS 6521-2:2021, Lubricants, industrial oils and related products (Class L) - Family D (Compressors) - Part 2: Specifications of categories DAG, DAH and DAJ (Lubricants for flooded rotary air compressors), \$73.00

Plastics pipes, fittings and valves for the transport of fluids (TC 138)

ISO/TS 10986:2021, Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - System design of above ground pipe and joint installations without end thrust, \$200.00

ISO/TS 23818-2:2021, Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines - Part 2: Resin-fibre composite (RFC) material, \$175.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 21838-1:2021, Information technology - Top-level ontologies (TLO) - Part 1: Requirements, \$149.00

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 82 – Mining and ISO/TC 82/SC 7 – Mine Closure and Reclamation Management

ANSI has been informed that CSA Group, the ANSI-accredited U.S. TAG Administrator for ISO/TC 82 – *Mining* and ISO/TC 82/SC 7 – *Mine closure and reclamation management*, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 82 operates under the following scope:

Standardization of:

- *specifications relating to specialized mining machinery and equipment used in opencast mines (e.g. conveyors, high wall miners, rock drill rigs and continuous surface miners) and all underground mining machinery and equipment for the extraction of solid mineral substances [e.g. road headers, continuous miners, rock drill rigs, raise boring machines, high wall miners, LHDs, mining auger boring machines, RMDSs (rapid mine development systems)]*
- *recommended practice in the presentation of plans and drawings used in mine surveying*
- *methods of calculation of mineral reserves*
- *mine reclamation management*
- *design of structures for mining industry.*
- *special refuge/rescue chambers*
- *shaft boring machines.*

Excluded:

- *foundation machines [e.g. piling, diaphragm walling, earth boring, jetting, grouting, drill rigs for soil and rock mixture (ISO/TC 195)]*
- *aggregate processing machines (e.g. screening, crushing)*
- *equipment and protective systems to be used in explosive atmospheres (IEC/TC 31)*
- *hand-held rock drills (ISO/TC 118)*
- *earth-moving machinery (by ISO/TC 127)*
- *geotechnics (ISO/TC 182)*
- *tunnel boring machines (TBMs) and associated machines and equipment (ISO/TC 195).*

ISO/TC 82/SC 7 operates under the following scope:

Standardization of mine reclamation management to minimize mine impacts that occur during the lifecycle of resource development, such as during exploration, extraction, suspension of operation, mine closure, reclamation, and follow-up management. Mine closure planning shall be re-established at every stage for sustainable resource development and risk management. However, it is expected that safety and health issues related to workplace activity will be excluded from this context. Mine closure planning shall be re-established at every stage for sustainable resource development and risk management.

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).

Registration of Organization Names in the United States

The Procedures for Registration of Organization Names in the United States of America (document ISSB 989) require that alphanumeric organization names be subject to a 90-day Public Review period prior to registration. For further information, please contact the Registration Coordinator at (212) 642-4975.

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

Public Review

FiRa

Public Review: June 25 through September 27, 2021

NOTE: Challenged alphanumeric names are underlined. The Procedures for Registration provide for a challenge process, which follows in brief. For complete details, see Section 6.4 of the Procedures.

A challenge is initiated when a letter from an interested entity is received by the Registration Coordinator. The letter shall identify the alphanumeric organization name being challenged and state the rationale supporting the challenge. A challenge fee shall accompany the letter. After receipt of the challenge, the alphanumeric organization name shall be marked as challenged in the Public Review list. The Registration Coordinator shall take no further action to register the challenged name until the challenge is resolved among the disputing parties.

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; F: (301) 926-1559; E: usatbtep@nist.gov or notifyus@nist.gov.

Graphic technology — Prepress digital data exchange — Part 2: XYZ/sRGB encoded colour image data (XYZ/SCID)

1 Scope

This part of ISO 12640 specifies a set of 15 standard colour images (encoded as both 16-bit XYZ and 8-bit RGB digital data provided in electronic data files) that can be used for the evaluation of changes in image quality during coding, image processing (including transformation compression and decompression), displaying on a colour monitor or printing. They can be used for many graphic technology applications such as research, development, product evaluation, and process control.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61966-2-1:1999, *Multimedia systems and equipment — Colour measurement and management — Part 2-1: Default RGB colour space – sRGB*

[IEC 61966-2-1 Amd.1 ED. 1.0 en:2003](#)

ITU-R BT.709-3:~~1998~~[2015](#), *Parameter values for the HDTV standards for production and international programme exchange*

TIFF, Revision 6.0 Final, Aldus Corporation (now Adobe Systems Incorporated), June 3, 1992

3 Definitions

For the purposes of this document, the following terms and definitions apply.

3.1

check sum

sum of the digits in a file that can be used to check if a file has been transferred properly

NOTE Often, only the least significant bits are summed.

3.2

colour sequence

order in which the colours are stored in a data file

3.3

colour space

geometric representation of colours in space, usually of three dimensions

[CIE Publication 17.4, definition 845-03-25]

NOTE This part of ISO 12640 is based on two colour spaces, XYZ and sRGB. The relationship between XYZ and sRGB is given in 5.2.

(Proposed) American National Standard

Basic Boating Knowledge – Core

Scope

This standard establishes the essential knowledge needed to reduce recreational boating risk factors and mitigate their effects. This "Core" standard is designed to be combined with discipline-specific power, sail, and/or human-propelled "Plus" standards for development of basic boating education courses and student assessment. This standard applies to basic boating knowledge for all disciplines (power, sail, or human-propelled) of recreational boating in the U.S. states, territories, and the District of Columbia.

1.0 Terminology

1.1 Define and demonstrate knowledge of common nautical terms across all types of boating including vessel, port, starboard, bow, stern, stand-on, and give-way.

2.0 Boat Types and Characteristics

2.1 Describe the types of boats and limitations of each (power driven including jet-propelled, sailing, and human-propelled).

2.2 Determine a boat's capacity by locating and determining gross load capacity (total weight and number of persons) from the boat capacity plate.

2.3 Determine a boat's capacity if a capacity plate is not present.

2.4 Describe how to determine acceptable loading including the benefits and methods of stowing and securing gear and equipment properly aboard a boat.

Commented [PD1]:

Changes to 3.1 include:

CORE Public Review comment #2 (Accepted) to use phrase "inherently buoyant" instead of "inherent".

Reordering of bullet points was made by the Panel to facilitate "flow" of information in the accompanying Technical Report.

3.0 Required Equipment

3.1 Describe how to select, use, and wear U.S. Coast Guard approved life jackets/ personal flotation devices (wearables and throwables) including:

- ~~legal requirements for carriage and wear including "readily accessible" versus "immediately available";~~
- label information indicating U.S. Coast Guard approval, size, performance, and limitations of use;
- appropriateness for activity and in accordance with the law;
- sizing and fit for intended wearer;
- ~~legal requirements for carriage and wear including "readily accessible" versus "immediately available";~~
- importance of wearing the life jacket due to rapidly changing conditions including weather and water conditions, boat traffic, etc.;
- difficulty of putting on a life jacket in the water while under distress;
- ~~maintenance of inherently buoyant and inflatable life jackets per manufacturer recommendations;~~
- serviceability of inherently buoyant and inflatable life jackets; ~~and maintenance of inherent and inflatable life jackets per manufacturer recommendations; and~~
- when to replace life jackets due to excessive wear or damage.

3.2 Describe required lights and sound signals for recreational boats as set forth in the most recent version of the *NAVIGATION RULES AND REGULATIONS HANDBOOK* as published/maintained on the United States Coast Guard's online Navigation Center, including:

- common lighting configurations; and
- types of sound-producing devices required and use of such devices on recreational boats.

3.3 Describe visual distress signals for recreational boaters as set forth in 33 CFR § 175.110, including types and required visual distress signals on recreational boats.

4.0 Trip Planning and Preparation

4.1 Describe how to obtain and adhere to information regarding local, state, and federal laws and regulations including regulations for titling, registering or documentation of a boat.

4.2 Identify information sources for local weather and water conditions. Obtain and interpret the information for the length of the intended trip according to:

- boater skill level;
- boat capability pertinent to those conditions; and
- environmental conditions including low/high tide, submerged objects, sand bars, currents, etc.

4.3 Identify critical topics for a pre-departure briefing including safety equipment, first-aid kit, emergency and routine communications and procedures, falls overboard, line handling, etc. that should be described for crew and passengers and how it could be delivered.

4.4 List important considerations for personal preparation and readiness before departure, including health/medications, fitness, gear, supplies, hydration, clothing, etc.

4.5 Describe how to identify dangerous weather including strong winds, storms, lightning, hurricanes, fog and water conditions including high water, sand bars, currents, large waves and their importance in trip planning.

4.6 Describe how to obtain information about local hazards and local knowledge that may affect the safe operation of a recreational boat including use of charts or maps.

4.7 Describe the purpose and content of a float plan, to whom it should be submitted and when it should be cancelled.

4.8 Identify examples of factors that would lead to a “go-no-go” decision, state the reasons why and how these factors influence decisions, and provide some safe, alternative options.

4.9 Describe the importance of preventative maintenance including regular inspection and maintenance of boat and key components.

4.10 Describe why boats should be prepped away from a launching area in order to leave the ramp clear to facilitate efficient launching and retrieval.

5.0 Safe Boat Operation

5.1 Describe the purpose and content of a pre-departure checklist and operator responsibilities for passenger communication.

5.2 Describe the responsibilities for:

- operator proficiency;
- situational awareness;
- safety for everyone aboard and activity on, in or around the boat;
- regulations regarding controlled areas, areas of danger, exclusion areas;
- ensuring safe speed;
- careless, reckless, or negligent operations on the water;
- courteous operation and sharing the waterways;
- risk of collision and action to avoid collision; and
- safe use of lines and proper storage.

5.3 Describe when and how boating accidents/incidents must be reported.

Commented [PD2]:

Change to 5.4 based on CORE Public Review comment #1 (Accepted in Principle).

5.4 Describe basic safe boating operation and good seamanship for recreational boaters to avoid capsizing, falls overboard, ejection, or injuries including:

- communication from the boat operator to passengers of intended actions;
- the importance of wearing a life jacket to reduce the risk of drowning;
- staying centered and low when moving around the boat;
- avoiding sudden moves;
- maintaining three points of contact;
- loading the boat properly, including safe seating locations for passengers and crew;
- changing water conditions;
- additional safety considerations inherent to all small watercraft to include stabilizing the boat for entering, boarding safely, movement in the boat including keeping the weight centered from side-to-side and bow-to-stern; and
- being prepared for unintended water entry.

5.5 Describe why boating under the influence of drugs or alcohol is unsafe.

6.0 Navigation

6.1 Describe typical navigation rule situations* and the operator's legal obligations regarding:

- Rules 2(a) and 2(b) - Responsibility;
- Rule 5 - Look-out;
- Rule 6(a) - Safe Speed;
- Rules 7(a), 7(d) - Risk of Collision;
- Rule 8 - Action to Avoid Collision;
- Rule 9 – Narrow Channels;
- Rule 13 - Overtaking;
- Rule 14(a), 14(b), 14(c) - Head-on Situation;
- Rule 15(a) - Crossing Situation;
- Rule 16 - Action by Give-way Vessel;
- Rule 17 - Action by Stand-on Vessel;
- Rule 18 (a-d) - Responsibilities Between Vessels; and
- Rule 19 (a-e) - Conduct of Vessels in Restricted Visibility.

*Disclaimer: *The navigation rules contained in this standard summarize basic navigation rules for which a boat operator is responsible on inland waterways. Additional and more in-depth rules apply regarding various types of waterways, such as International Waters and Western Rivers, and operation in relation to commercial vessels and other watercraft. For a complete listing of the navigation rules, refer to the most recent version of the NAVIGATION RULES AND REGULATIONS HANDBOOK as published/maintained on the United States Coast Guard's online*

Navigation Center. For state-specific navigation requirements, refer to the state laws where you intend to boat. In those areas that Inland Rules do not apply, the equivalent International, Western Rivers or Great Lakes rule(s) may be substituted. It is the responsibility of a boat operator to know and follow all applicable rules."

6.2 Describe homeland security measures, including:

- keeping a safe prescribed distance from military and commercial ships;
- restricted operation in the vicinity of commercial activities and port operations;
- observing all security zones; and
- observing and reporting suspicious activities to proper authorities.

6.3 Identify the U.S. Aids to Navigation System (USATONS) and state its purpose.

6.4 Identify regulatory and informational markers and state their purposes including controlled, information, danger, and exclusion areas.

7.0 Emergency Preparedness and Response

7.1 Determine the obligation and ability to render assistance to an individual or boat in distress per 46 U.S. Code § 2304.

7.2 Describe capsizing/falls overboard post-incident response procedures including:

- putting on a life jacket if not already being worn;
- calling for assistance, use of communication devices, reporting location, number of people, description of boat, nature of distress;
- taking a head count;
- staying with the vessel when appropriate;
- signaling for assistance;
- using improvised floating aids;
- recognition of a person in the water in distress; and
- initiation of procedures to recover people in the water.

7.3 Describe environmental stressors that impact recreational boating including:

- sun, wind, glare;
- dehydration;
- fatigue;
- heat factors including the effects of hyperthermia and how to prepare for, prevent, and respond to heat related events;
- cold factors (exposure) including the effect of hypothermia and how to prepare for, prevent, and respond to cold related events; and

(Proposed) American National Standard

Basic Boating Knowledge – Plus Human-Propelled

Scope

This discipline-specific "Plus" standard, when combined with the "Basic Boating Knowledge – Core" standard, establishes minimum essential knowledge to reduce human-propelled recreational boating risk factors. The combined standards are to be used for development of basic boating education courses and student assessment for human-propelled vessels. This standard applies to basic knowledge for human-propelled recreational boating in the U.S. states, territories, and the District of Columbia.

1.0 Terminology

1.1 - See "Basic Boating Knowledge – Core" (*latest version*)

1.2 Discipline Specific

1.2.1 – Define terms specific to the vessel and related equipment.

2.0 Boat Types and Characteristics

2.1 through 2.4 - See "Basic Boating Knowledge – Core" (*latest version*)

3.0 Required Equipment

3.1 through 3.3 - See "Basic Boating Knowledge – Core" (*latest version*)

3.4 Discipline Specific

3.4.1 Describe the importance of wearing life jackets at all times on a human-propelled vessel.

3.4.2 Describe safety equipment boaters should carry that is appropriate for the circumstances, such as:

- helmet, whistle, river knife, rescue throw bag, rescue hardware (webbing, carabineers, z-drag kit), leash, first aid kit, signal mirror, flotation bags, and dry bags;
- dewatering equipment (pump, sponge or bucket); and
- a map or chart of the area (if applicable).

3.4.3 Describe importance of carrying visual distress signals, communication devices and survival items ON YOUR PERSON so they are readily available including whistles, waterproof radios, and waterproofed cell phones.

4.0 Trip Planning and Preparation

4.1 through 4.10 - See “Basic Boating Knowledge – Core” (*latest version*)

4.11 Discipline Specific

4.11.1 Describe how to make informed go-no-go decisions based on water conditions such as;

- strong currents, waves, hydraulics;
- dangerous areas and features in and around the water including rocky shores, human-made structures, debris, trees, or other items; and,
- the importance of considering water conditions in trip planning.

4.11.2 Describe the need for regular inspection of common failure points of a human-propelled vessel including;

- water tightness, gaskets, flotation air bags, etc.; and,
- importance of maintenance, cleaning, and proper storage.

4.11.3 Describe proper procedures for transporting a boat to prevent accidents/incidents and property damage, including making sure the boat is securely fastened to the car or racks, and use of proper tie downs and knots.

4.11.4 Describe courteous use of common access areas to include launching and leaving quickly to clear the area for others.

4.11.5 Describe the benefits of paddling with a partner or others and near shore when possible.

5.0 Safe Boat Operation

5.1 through 5.5 - See “Basic Boating Knowledge – Core” (*latest version*)

5.6 Discipline Specific

5.6.1 Describe the importance of marking vessels with owner information in order to identify unregistered vessels for emergency situations.

5.6.2 Describe the boater's ultimate responsibility for:

- ~~their his or her~~ personal safety;
- the safety of anyone else on board and all activity aboard the human-propelled vessel;
- evaluating environmental conditions including currents, weather, etc. and determining which should be avoided based on skill level;
- refraining from careless, reckless, or negligent operations on the water;
- abiding by general boater courtesy;
- crossing a channel as a group;
- understanding the impact of waves and wakes on boat handling; and
- sharing water features such as eddies and rapids with other paddlers.

Commented [PD1]:
Human-Propelled Comment #1 (Accepted by the Panel)

5.6.3 Describe how to safely board, exit, and propel a small boat, including:

- sufficient clearance or proper fit so that entry into and exit from the human-propelled vessel is not impeded; and
- basic ergonomics of rowing or paddling including proper body and arm position both to maintain balance in/on the boat and to reduce the possibility of injury.

5.6.4 Describe how to secure the human-propelled vessel at the shore to prevent it from drifting away.

5.6.5 Describe the responsibility to report boating accidents/incidents as it applies to human propelled vessels.

5.6.6 Describe the importance of evaluating trip and environmental conditions to include individual skill levels and preparation of each member of the group.

5.6.7 Describe various types of anchors, associated equipment, and their use. Describe the proper scope, anchoring and retrieval procedures, and safety considerations.

6.0 Navigation

6.1 through 6.4 - See "Basic Boating Knowledge – Core" (*latest version*)

6.5 Discipline Specific

6.5.1 Utilize the content of the most recent version of the NAVIGATION RULES AND REGULATIONS HANDBOOK as published/maintained on the United States Coast Guard's online Navigation Center to describe:

- use by larger vessels and when navigating in a channel, giving way to vessels constrained by the channel;
- avoiding collision with vessels by keeping a sharp lookout;
- using light and sound signals to identify your presence; and

- maneuvering out of the way.

6.5.2 Describe why human-propelled vessels have no special privileges under the Navigation Rules.

7.0 Emergency Preparedness and Response

7.1 through 7.6 - See “Basic Boating Knowledge – Core” (*latest version*)

7.7 Discipline Specific

7.7.1 Describe procedures and tools for assisting other boaters in difficulty, while minimizing risk to the rescuing boater.

7.7.2 Describe how to prevent and respond to emergencies using techniques specific to an individual vessel including falling from a stand up paddleboard.

7.7.3 Describe emergency response procedures including:

- wearing life jackets,
- taking a head count,
- staying with the boat when appropriate,
- signaling for assistance,
- using improvised floating aids,
- initiation of procedures to recover people in the water, and
- proper procedures to use when boating.

7.7.4 Describe dressing for cold water immersion as it pertains to use of human-propelled vessels.

8.0 Other Water Activities

8.1 through 8.2 - See “Basic Boating Knowledge – Core” (*latest version*)

8.3 Discipline Specific

8.3.1. Describe safe practices for hunting and fishing from a human-propelled vessel.

9.0 Environmental Concerns

9.1 through 9.3 - See “Basic Boating Knowledge – Core” (*latest version*)

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BSR/UL 60079-33, Standard for Explosive Atmospheres – Part 33: Equipment Protection by Special Protection “s”

1. New Paragraph added to the Scope to Reference the New Division Annex; New Normative reference added for the NEC; and New Annex Division Addition.

PROPOSAL

1 Scope

Annex DVC outlines the application of this standard when special protection techniques are used in equipment identified for use in hazardous (classified) locations under the Division system, including the area classification method and installation requirements.

2 Normative references

NFPA 70, National Electrical Code (NEC)

Annex DVC
(normative)

Requirements for Special protection techniques under the Division system

Annex DVC DR Addition of new Annex DVC as follows:

DVC.1 Application

The requirements of this Annex shall be applied when special protection techniques are used in equipment identified for hazardous (classified) locations under the Division system.

NOTE Information on the Division system is given in NFPA 70.

DVC.2 General

When applying the requirements of this Annex, equipment identified for hazardous (classified) locations under the Division system shall comply with the following:

- the applicable safety requirements of the relevant industrial standards for ordinary (unclassified) locations; and
- the applicable hazardous (classified) location requirements of Clauses 4 through 14 inclusive, and Clause 17, of this standard in accordance with the general equivalency between Classes/Divisions and EPLs detailed in Table DVC.1, supplemented or modified by the requirements shown in DVC.3.

Regarding the requirements of Clauses 4 through 14 inclusive, and Clause 17, of this standard, references to the UL 60079 series of standards shall be considered, but are only applicable if determined to be so as part of the equipment evaluation.

Table DVC.1
General equivalency between Classes/Divisions and EPLs

<u>Classes/Divisions</u>	<u>Equipment protection levels (EPLs)</u>
<u>Class I, Division 1</u>	'Ga'
<u>Class I, Division 1*</u>	'Gb'
<u>Class I, Division 2</u>	'Gc'
<u>Class II, Division 1</u>	'Da'
<u>Class II, Division 1*</u>	'Db'
<u>Class II, Division 2</u>	'Dc'
<u>Class III</u>	'Dc'
*Equipment identified for Division 1 that is not intended for installation in applications where ignitable concentrations of flammable gases or vapors, or combustible dusts, are present continuously or for long periods of time. This intended installation shall be detailed in the installation instructions.	

DVC.3 Marking

Equipment shall be clearly and permanently surface marked to indicate Class(es), Division(s), Group(s), Equipment Temperature, and Ambient Temperature Range in accordance with NFPA 70 as applicable.

The following provides the general equivalency between Zone system and Division system Group designations:

Table DVC.2
General group equivalency

<u>Zone system group designations</u>	<u>Division system group designations</u>
<u>IIC</u>	<u>(Class I) Groups A, B, C, D</u>
<u>IIB</u>	<u>(Class I) Groups C, D</u>
<u>IIA</u>	<u>(Class I) Group D</u>
<u>IIIC</u>	<u>(Class II) Groups E, F, G</u>
<u>IIIB</u>	<u>(Class II) Groups F, G</u>
<u>IIIA</u>	<u>(Class III)</u>

BSR/UL 60730-1, Standard for Automatic Electrical Controls - Part 1: General Requirements

1. Revisions to add clarity, reflect current practices and/or corrections.

DVE.3 An electric strength test shall be conducted on 100% production, as a routine production-line test to determine gross mis-wiring or other safety related manufacturing defects. A one second electric strength test shall be conducted between live parts and accessible dead-metal parts ~~(or a metal foil with an area not exceeding 20 cm x 10 cm in contact with accessible surfaces of insulating material)~~ for the required insulation at the specified test voltage in Table 12. Insulating material that is accessible shall be in contact with conductive material when performing this test.

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Standard: UL 62841-3-9

Standard Title: Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety - Part 3.9: Particular Requirements for Transportable Mitre Saws

Date of Proposal: August 13, 2021

Comments Due: September 14, 2021

SUMMARY OF TOPICS

The following topics are being recirculated for your review:

1. Proposed Adoption Of The Second Edition Of IEC 62841-3-9, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery – Safety - Part 3.9: Particular Requirements for Transportable Mitre Saws As The Second Edition of UL 62841-3-9

PROPOSAL

8.2DV.1 D1 Modification: Add the following to Subclause 8.2 of the Part 1:

Tools shall be marked with the following additional safety warnings:

- WARNING – “Wear eye protection” or the sign M00004 of ISO 7010.
- WARNING – Keep hands and body out of the path of the saw blade. Contact with blade will result in serious injury.
- WARNING – Check guarding system to make sure it is functioning correctly.
- WARNING - Do not perform any operation freehand.
- WARNING – Never reach around saw blade (or ”Never reach in back of saw blade”).
- WARNING – Turn off tool and wait for saw blade to stop before moving workpiece or changing settings.

20.1 Addition:

The upper **guard** and lower **guard** for the saw blade as specified in 19.101.1 shall be manufactured from any of the following:

- a) metal having the following characteristics:

Ultimate tensile strength	Minimum thickness
N/mm ²	mm
≥ 380	1,25
≥ 350 and < 380	1,50
≥ 200 and < 350	2,00
≥ 160 and < 200	2,50

b) polycarbonate with a wall thickness of at least 3 mm;

c) other non-metallic material of at least 3 mm thickness with an ultimate tensile strength of at least 60 N/mm² and an Izod notched impact strength of at least 60 kJ/m² in accordance with ISO 180.

Compliance is checked by inspection, by measurement and by either receipt of confirmation of the ultimate strength of the material from the material manufacturer or through measurement of samples of the material.

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BSR/UL 498A, Standard for Current Taps and Adapters

1. Revision to Clothes Dryers and Ranges Power Adapter Markings

8.6 Adapters for dryer and range outlets

8.6.1 A device whose purpose is to adapt either a dryer receptacle having a 14-30R configuration or a range receptacle having a 14-50R configuration to mate with a grounding-type attachment plug having a 5-15P or 6-15P configuration shall be additionally provided with installation instructions, or the smallest unit container of the device shall be marked that include the words, "CAUTION — Risk of fire or electric shock. Do not use with appliances that block access to the outlet for disconnection."

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BSR/UL 1996, Standard for Electric Duct Heaters**Addition of Class CF Fuses and Fuseholders**

20.3 Fuseholders shall comply with the Standard for Safety Fuseholders – Part 1: General Requirements, UL 4248-1, and the Standard for Safety Fuseholders – Part 4: Class CC, UL 4248-4 or the:

- a) Standard for Safety Fuseholders – Part 5: Class G, UL 4248-5; or
- b) Standard for Safety Fuseholders – Part 6: Class H, UL 4248-6; or
- c) Standard for Safety Fuseholders – Part 8: Class J, UL 4248-8; or
- d) Standard for Safety Fuseholders – Part 9: Class K, UL 4248-9; or
- e) Standard for Safety Fuseholders – Part 11: Type C (Edison Base) and Type S Plug Fuse, UL 4248-11; or
- f) Standard for Safety Fuseholders – Part 12: Class R, UL 4248-12; or
- g) Standard for Safety Fuseholders – Part 15: Class T, UL 4248-15; or
- h) Outline of Investigation for Fuseholders - Part 17: Class CF, UL 4248-17.

24.7 Overcurrent protective devices shall be provided for all ungrounded conductors, and have a voltage rating not less than the circuits in which they are used. The devices shall be either a circuit breaker that provides branch circuit protection or a fuse that provides branch circuit protection such as Class CC, CF, G, H, J, K, L, R, or T, or a Type S plug fuse.

Exception: When the control circuit is tapped from a circuit supplying other loads in the equipment, a device used for overcurrent protection is not prohibited from being of the supplementary type (a type other than indicated for branch circuit protection provided the fuse has a short circuit rating as specified in Table 37.1), when it has a short circuit rating acceptable for the circuit in which it is used. See 46.3 for fuse replacement marking.

24.7.1 Fuses shall comply with the Standard for Safety Low-Voltage Fuses - Part 1: General Requirements, UL 248-1; and the Standard for Safety Low-Voltage Fuses – Part 64: Class H CC Non-Renewable Fuses, UL 248-64, or the:

- a) Standard for Safety Low-Voltage Fuses - Part 5: Class G Fuses, UL 248-5; or
- b) Standard for Safety Low-Voltage Fuses - Part 6: Class H Non-Renewable Fuses, UL 248-6; or
- c) Standard for Safety Low-Voltage Fuses - Part 8: Class J fuses, UL 248-8; or

d) Standard for Safety Low-Voltage Fuses - Part 9: Class K fuses, UL 248-9; or

e) Standard for Safety Low-Voltage Fuses - Part 11: Plug Fuses, UL 248-11; or

f) Standard for Safety Low-Voltage Fuses - Part 12: Class R Fuses, UL 248-12;
or

ag) Standard for Safety Low-Voltage Fuses – Part 15: Class T Fuses, UL 248-15;
or

h) Outline of Investigation for Low-Voltage Fuses - Part 17: Class CF Fuses, UL
248-17.

~~b) Standard for Low Voltage Fuses – Part 14: Supplemental Fuses, UL 248-14;
or~~

~~c) Standard for Low Voltage Fuses – Part 16: Test Limiters, UL 248-16; or~~

~~d) Standard for Low Voltage Fuses – Part 9: Class K Fuses, UL 248-9; or~~

~~e) Standard for Low Voltage Fuses – Part 11: Plug Fuses, UL 248-11.~~

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BSR/UL 2238, Standard for Cable Assemblies and Fittings for Industrial Control and Signal

1. Alternative testing method for cord or cable tags

PROPOSAL

37.10 Tests for permanence of flag type cord or cable tag

37.10.1 For the following tests, printed production-type flag type cord or cable tags are to be provided with all the required markings printed in accordance with the requirements specified in this standard (i.e. required letter height, etc.) and in a contrasting color to the solid background. To determine compliance with 40.1.2, the samples that have been subjected to the applicable conditions described in 37.12 shall meet the following requirements. The tests shall be conducted in the following order:

a) Visual Examination – The cord or cable tag shall be visually examined with normal or corrected vision following each applicable exposure conditioning for the following:

1) There shall not be any permanent shrinkage, deformation, cracking, or any other condition that will render the marking on the tag illegible.

b) Defacement Test (Overlaminated Cord Tags Only) – Following each applicable exposure, the flag type cord or cable tag is to be scraped back and forth 10 times across the printed surface and edges with a downward force of 2 lbf (8.9 N) using the edge of a 5/64-in (1.9-mm) thick steel blade. The blade is to be held perpendicular to the cord surface. The portion of the blade in contact with the surface shall have an approximate radius of curvature of 1 in (25.4 mm) and shall be rounded to a minimum radius of 1/64 in (0.4 mm). The cord or cable tag shall be examined as follows:

1) The flag type cord or cable label and overlamination shall not move more than a 1/2 in (12.7 mm) along the cord or cable and shall not be torn a distance greater than 1/16 in (1.6 mm) or otherwise damaged. The printing shall remain legible.

c) Tearing and Separation Test – The cord or cable assembly, with the fitting pointing up, is to be held taught in a vertical plane. A force of 5 lbf (22.2 N), which includes the weight of the clamp, is to be applied for 1 min to the uppermost corner of the flag type cord or cable tag farthest from the device, within 1/4 in (6.4 mm) of the vertical edge of the tag. The force is to be applied by affixing a C-clamp with a pad diameter of 3/8 in (9.5 mm) to the tag and securing the weight to the C-clamp. The force is to be applied vertically downward in a direction parallel to the major axis of the cord or cable. The flag type cord or cable tag shall be examined as follows:

1) The flag type cord or cable tag shall resist tearing for longer than 1/16 in (1.6 mm) at any point.

2) The flag type cord or cable tag shall not separate from the cord or cable assembly. A hang-type tag shall not separate from the securement strap, and the securement strap shall not separate from the cord or cable assembly;

3) The flag type cord or cable tag or securement strap shall not slip or move along the length of the cord or cable assembly more than 1/2 in (13 mm) and there shall not be any visible damage to the cord.

Exception: A flag type cord or cable tag that complies with the applicable requirements in Marking and Labeling Systems – Flag Labels, Flag Tags, Wrap-Around Labels and Related Products, UL 969A , and is rated for the cord or cable type and size, for the intended use (i.e. indoor or outdoor use, lubricating oil resistant) of the cord and cable assembly, and for the limited slippage rating, is not required to comply with this test.

37.11 Tests for permanence of wrap around cord or cable label

37.11.1 For the following tests, printed production-type wrap around cord or cable labels are to be provided with all the required markings printed in accordance with the requirements specified in this standard (i.e. required letter height, etc.) and in a contrasting color to the solid background. To determine compliance with 40.1.2, the samples that have been subjected to the test conditions described in 37.12 shall meet the following requirements. The tests shall be conducted in the following order:

a) Visual Examination – A wrap around cord or cable label shall be visually examined with normal or corrected vision following each applicable exposure condition for the following:

1) A wrap around cord or cable label shall adhere to the surface to which it is applied without any significant evidence of curling or loosening around the perimeter or other indication of loss of adhesion such as wrinkles or bubbles.

2) It shall not excessively craze or shrink.

3) The printed text shall remain legible. Discoloration or fading is not to be considered a failure.

b) Legibility Test – Following each applicable exposure condition, the printed surface of the wrap around cord label is to be rubbed with finger pressure back and forth 10 times with a downward force of 4 lbf (17.8 N). This test does have to be conducted on samples employing an over-lamination or that are subsurface printed.

1) The printed text shall remain legible.

c) Defacement Test – Following each applicable exposure, the wrap around cord or cable label is to be scraped back and forth 10 times across the printed surface and edges with a downward force of 2 lbf (8.9 N) using the edge of a 5/64-in (1.9-mm) thick steel blade. The blade is to be held perpendicular to the cord surface. The portion of the blade in contact with the surface shall have an approximate radius of curvature of 1 in (25.4 mm) and shall be rounded to a minimum radius of 1/64 in (0.4 mm). The wrap around cord or cable label shall be examined as follows:

1) The wrap around cord or cable label and/or overlamination, if provided, shall not move more than a 1/2 in (12.7 mm) along the cord and shall not be torn or removed from the cord or cable surface.

Exception: A flag type cord or cable tag that complies with the applicable requirements in Marking and Labeling Systems – Flag Labels, Flag Tags, Wrap-Around Labels and Related Products, UL 969A , and is rated for the cord or cable type and size, for the intended use (i.e. indoor or outdoor use, lubricating oil resistant) of the cord and cable assembly, and for the limited slippage rating, is not required to comply with this test

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