ANSI STANDARDS ACTION

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VOL. 51, #30 *July 24, 2020*

Contents

American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

ISSN 0038-9633

Comment Deadline: August 23, 2020

NSF (NSF International)

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

Revision

BSR/NSF 350-202x (i54r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

This Standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or commercial greywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from greywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

Click here to view these changes in full
Send comments (with optional copy to psa@ansi.org) to: jsnider@nsf.org

NSF (NSF International)

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

Revision

BSR/NSF 350-202x (i55r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

This Standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d); or commercial greywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity. Management methods and end uses appropriate for the treated effluent discharged from greywater residential and commercial treatment systems meeting this Standard are limited to subsurface discharge to the environment only.

Click here to view these changes in full
Send comments (with optional copy to psa@ansi.org) to: jsnider@nsf.org

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 ph: (510) 319-4269 https://ul.org/

Revision

BSR/UL 268-202x, Standard for Safety for Smoke Detectors for Fire Alarm Systems (revision of ANSI/UL 268-2019)

Proposed revisions to the 7th Edition of UL 268, a binational smoke detector standard with ULC-S529 containing requirements serving both Canada and the United States. The proposals include revisions to the alternate corrosion test, minimum screening programs specified in Table D3.1, and minor corrections to the battery and sensitivity tests.

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

UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 ph: (919) 549-1053 https://ul.org/

Revision

BSR/UL 797-202X, Standard for Electrical Metallic Tubing - Steel (revision of ANSI/UL 797-2012 (R2017))

(3) Clarification of elbow and bend radius requirements, removal of the term mandrel, removal of Figure 2 and addition of exemption for supplementary coatings from Bend Test to better align with RMC Standard and editorial changes.

Click here to view these changes in full
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Comment Deadline: August 23, 2020

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 ph: (510) 319-4297 https://ul.org/

Revision

BSR/UL 1277-202X, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members (revision of ANSI/UL 1277-2020)

Requirements for Overload, Sunlight Resistance, and Joist-Pull Tests for TC-ER used as a service entrance cable.

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UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 ph: (919) 549-0954 https://ul.org/

Revision

BSR/UL 1598A-202x, Standard for Safety for Supplemental Requirements for Luminaires for Installation on Marine Vessels (revision of ANSI/UL 1598A-2005 (R2020))

This proposal for UL 1598A covers revision to expand the scope of the Standard to include low-voltage marine luminaires and emergency lighting marine luminaires, revision to the requirements for wiring and conductors, and revision to the requirements for the use of fuses.

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UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4419 https://ul.org/

Revision

BSR/UL 1651-202x, Standard for Safety for Optical Fiber Cable (revision of ANSI/UL 1651-2018)

(1) Temperature ratings.

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UL (Underwriters Laboratories)

12 Laboratory Drive, Research Triangle Park, NC 27709-3995 ph: (919) 549-1053 https://ul.org/

Revision

BSR/UL 2238-202X, Standard for Cable Assemblies and Fittings for Industrial Control and Signal Distribution (revision of ANSI/UL 2238-2019)

(1) Suitable for current interruption under load conditions.

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Comment Deadline: September 7, 2020

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 ph: (719) 453-1036 www.aafs.org

New Standard

BSR/ASB STD 096-202x, Standard Method for the Examination and Documentation of Ammunition and Ammunition Components (new standard)

This standard provides procedures for the examination and documentation of ammunition and/or ammunition components by forensic firearm and toolmark examiners or technicians. Following these procedures, an examiner or technician will be able to document and report the examination of ammunition and/or ammunition components. This document does not cover the microscopic comparison of toolmarks on ammunition components.

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AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 ph: (719) 453-1036 www.aafs.org

New Standard

BSR/ASB Std 119-202x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Medicolegal Death Investigations (new standard)

This document delineates the minimum requirements for target analytes and analytical sensitivity for the forensic toxicological testing of blood specimens collected in medicolegal death investigations. This document does not cover the analysis of urine, tissues, or other specimens that are commonly analyzed in medicolegal death investigations.
Please note that comments on a re-circulation will only be accepted on revised sections of a document. Comments made to text not revised from the original public comment period will not be accepted.

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

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 ph: (719) 453-1036 www.aafs.org

New Standard

BSR/ASB Std 120-202x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Testing of Blood in Impaired Driving Investigations (new standard)

This document delineates the minimum requirements for target analytes and analytical sensitivity for the forensic toxicological testing of blood and urine specimens collected from drivers suspected of being impaired. This document does not cover the analysis of breath, oral fluid, urine, or other potential specimen types collected in impaired driving investigations.
Please note that comments on a re-circulation will only be accepted on revised sections of a document. Comments made to text not revised from the original public comment period will not be accepted.

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

Comment Deadline: September 7, 2020

AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 ph: (719) 453-1036 www.aafs.org

New Standard

BSR/ASB Std 121-202x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicological Urine Testing of Urine in Drug-Facilitated Crime Investigations (new standard)

This document delineates the minimum requirements for target analytes and analytical sensitivity for the forensic toxicological testing of urine specimens collected from alleged victims of drug-facilitated crimes (DFC). This document does not cover the analysis of blood and other evidence that may be collected in DFC cases.
Please note that comments on a re-circulation will only be accepted on revised sections of a document. Comments made to text not revised from the original public comment period will not be accepted.

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AAFS (American Academy of Forensic Sciences)

410 North 21st Street, Colorado Springs, CO 80904 ph: (719) 453-1036 www.aafs.org

New Standard

BSR/ASB Std 135-202x, Anthropology Scene Detection and Processing (new standard)

This document provides requirements and best practices for forensic anthropology and forensic archaeology practitioners in proper scene detection, processing, handling of evidence, and maintenance of a chain of custody, commensurate with jurisdictional requirements. These requirements and best practices use archaeological techniques and principles as a foundation for scientifically appropriate detection, processing, documentation, and collection of human remains and associated evidence at a scene. Please note that comments on a re-circulation will only be accepted on revised sections of a document. Comments made to text not revised from the original public comment period will not be accepted.

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

API (American Petroleum Institute)

200 Massachusetts Avenue NW, Washington, DC 20001 ph: (202) 682-8056 www.api.org

Reaffirmation

BSR/API SPEC 7-1/ISO 10424-1-2004 (R202x), Specification for Rotary Drill Stem Elements (reaffirm a national adoption ANSI/API Spec 7-1/ISO 10424-1-2004-2018)

This standard specifies requirements for the following drill stem elements: upper and lower kelly valves; square and hexagonal kellys; drill stem subs; standard steel and non-magnetic drill collars; and drilling and coring bits. This standard is not applicable to drill pipe and tool joints; rotary shouldered connection designs; thread gauging practice; or grand master, reference master and working gauges.

Single copy price: $50.00
Obtain an electronic copy from: cocob@api.org
Send comments (with optional copy to psa@ansi.org) to: cocob@api.org

Comment Deadline: September 7, 2020

ASC X9 (Accredited Standards Committee X9, Incorporated)

275 West Street, Suite 107, Annapolis, MD 21401 ph: (410) 267-7707 www.x9.org

New Standard

BSR X9.142-202x, Public Key Cryptography: The Elliptic Curve Digital Signature Algorithm (ECDSA) (new standard)

Business practice has changed with the introduction of computer-based technologies. The substitution of electronic transactions for their paper-based predecessors has reduced costs and improved efficiency. Trillions of dollars in funds and securities are transferred daily by telephone, wire services, and other electronic communication mechanisms. The high value or sheer volume of such transactions within an open environment exposes the financial community and its customers to potentially severe risks from the accidental or deliberate disclosure, alteration, substitution, or destruction of data. These risks are compounded by interconnected networks, and the increased number and sophistication of malicious adversaries. Electronically communicated data may be secured through the use of symmetrically keyed encryption algorithms (e.g., ANS X9.52, Triple-DEA) in combination with public-key cryptography-based key management techniques. Some of the conventional “due care” controls used with paper-based transactions are unavailable in electronic transactions. Examples of such controls are safety paper, which protects integrity, and handwritten signatures or embossed seals, which indicate the intent of the originator to be legally bound. In an electronic-based environment, controls shall be in place that provide the same degree of assurance and certainty as in a paper environment. The financial community is responding to these needs. This standard defines a mechanism designed to facilitate the secure authentication and non-repudiation of data.

Single copy price: $100.00
Obtain an electronic copy from: ambria.frazier@x9.org
Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org
Send comments (with optional copy to psa@ansi.org) to: Same

ASME (American Society of Mechanical Engineers)

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

Revision

BSR/ASME NM-3-202x, Nonmetallic Materials - Part 1: Thermoplastic Material Specifications - Part 2: Thermoset Material Specifications - Part 3: Properties (revision of ANSI/ASME NM-3-2018)

This standard includes specifications for non-metallic materials (except wood, non-fibrous glass and concrete); and in conformance with the requirements of the individual construction codes, methodologies, design values, limits, and cautions on the use of materials.

Single copy price: Free
Obtain an electronic copy from: http://cstools.asme.org/publicreview
Send comments (with optional copy to psa@ansi.org) to: Colleen O'Brien: (212) 591-7881; obrienc@asme.org

AWS (American Welding Society)

8669 Doral Blvd, Suite 130, Doral, FL 33166 ph: (305) 443-9353 www.aws.org

Revision

BSR/AWS D8.9M-202x, Test Methods for Evaluating the Resistance Spot Welding Behavior of Automotive Sheet Steel Materials (revision of ANSI/AWS D8.9M-2012)

The test methods are intended for application in a laboratory environment to characterize certain aspects of the welding behavior of sheet steel products under controlled experimental conditions. They are not intended to simulate production welding practices or to predict welding performance of a given grade of steel in production operations. The test methods and parameters are designed to be used for sheet steels (typically in automotive applications) ranging in thickness from 0.6 mm to 3.0 mm.

Single copy price: $40.00
Obtain an electronic copy from: mdiaz@aws.org
Order from: Mario Diaz, (305) 443-9353, mdiaz@aws.org
Send comments (with optional copy to psa@ansi.org) to: Same

Comment Deadline: September 7, 2020

CSA (CSA America Standards Inc.)

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

Reaffirmation

BSR Z21.75-2016 (R202x), Connectors for outdoor gas appliances and manufactured homes (reaffirmation of ANSI Z21.75-2016)

This standard applies to newly produced assembled connectors constructed entirely of new, unused parts and materials. Such connectors are intended for exterior use above ground for making the following nonrigid connections: (a) Between the gas supply and the gas inlet of an appliance for outdoor installation that is not frequently moved after installation. These connectors are not intended for use with wheeled, caster mounted or portable appliances; (b) Between the permanent gas outlet of a manufactured home community (mobile home park) or individual site and the piping inlet on a park trailer or a manufactured (mobile) home; or (c) Between sections of a multiple section manufactured (mobile) home.

Single copy price: Free
Obtain an electronic copy from: ansi.contact@csagroup.org
Send comments (with optional copy to psa@ansi.org) to: ansi.contact@csagroup.org

DSI (Dental Standards Institute, Inc.)

109 Bushaway Road, Suite 100, Wayzata, MN 55391 ph: (763) 290-0004 https://dentalstandardsinstitute.com/

New Standard

BSR/DSI CNST1.1-202x, Visualization of the Digital Dental Patient Chart Notes (DCN) (new standard)

Lack of adequate documentation of dental procedures performed in the Dental Patient Chart Note (DCN) in the Electronic Dental Record (EDR) is rampant within the industry, compromising dental care quality and is currently the second leading cause of dental malpractice losses. This Standard looks to define how EDRs will visualize unwritten and incomplete DCNs, as well as clarify how automation in DCNs can be accomplished consistently with higher quality.

Single copy price: $175.00
Obtain an electronic copy from: dentalstandards@gmail.com
Order from: Bryan Laskin, (763) 290-0004, bryan@operadds.com
Send comments (with optional copy to psa@ansi.org) to: Same

DSI (Dental Standards Institute, Inc.)

109 Bushaway Road, Suite 100, Wayzata, MN 55391 ph: (763) 290-0004 https://dentalstandardsinstitute.com/

New Standard

BSR/DSI MST1.1-202x, Definitions of Terms in Dental Metrics (new standard)

This Standard defines key metrics involved in the valuation and performance of a dental practice. The goal of this Standard is to address the need for consistency in communication regarding dental practice performance and for the elevation of patient care.

Single copy price: $175.00
Obtain an electronic copy from: dentalstandards@gmail.com
Order from: Bryan Laskin, (763) 290-0004, bryan@operadds.com
Send comments (with optional copy to psa@ansi.org) to: Same

DSI (Dental Standards Institute, Inc.)

109 Bushaway Road, Suite 100, Wayzata, MN 55391 ph: (763) 290-0004 https://dentalstandardsinstitute.com/

New Standard

BSR/DSI VRST1.1-202x, Usage of Therapeutic Virtual Reality for Anxiety Reduction in Healthcare (new standard)

This Standard defines the content and usage protocols of Therapeutic Virtual Reality used for anxiety reduction in healthcare. The goal of this Standard is to protect the healthcare patient from adverse reactions within Therapeutic Virtual Reality experiences, while empowering healthcare professionals to adequately manage patients' experiences and utilization of devices.

Single copy price: $175.00
Obtain an electronic copy from: dentalstandards@gmail.com
Order from: Bryan Laskin, (763) 290-0004, bryan@operadds.com
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Comment Deadline: September 7, 2020

ECIA (Electronic Components Industry Association)

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

New Standard

BSR/EIA 364-121-202x, Coupling Thread Strength Test Procedure for Electrical Connector Accessories (new standard)

Test method to cover the tests for coupling thread strength that are currently referenced in EIA-364 Table 5a.

Single copy price: $75.00
Obtain an electronic copy from: https://global.ihs.com/
Order from: Global Engineering Documents, (800) 854-7179, www.global.ihs.com
Send comments (with optional copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

ECIA (Electronic Components Industry Association)

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

Reaffirmation

BSR/EIA 364-03D-2015 (R202x), Altitude Immersion Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-03D -2015)

This standard establishes a test method to determine the ability of the connector-to-wire and interface area seals of a mated connector assembly to perform satisfactorily during and subsequent to simulated rapid descents from high altitude with attendant moisture condensation.

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Obtain an electronic copy from: https://global.ihs.com/
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ECIA (Electronic Components Industry Association)

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

Reaffirmation

BSR/EIA 364-04B-2015 (R202x), Normal Force Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-04B-2015)

This procedure establishes two methods to determine the magnitude of normal force, at the point of the electrical connection, generated by a contact system at a given deflection within its normal operating levels. This data and its relationship to contact pressure allow the electrical integrity and stability of the contact interface to be evaluated in proper perspective when integrated with other monitored attributes.

Single copy price: $82.00
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ECIA (Electronic Components Industry Association)

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

Reaffirmation

BSR/EIA 364-08C-2015 (R202x), Crimp Tensile Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-08C -2015)

This standard establishes a test method to determine the tensile strength of a crimped contact to conductor joint. The values obtained give an indication of the relative strength of the joints. Unless otherwise specified in the referencing document, this is a destructive test.

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Comment Deadline: September 7, 2020

ECIA (Electronic Components Industry Association)

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

Reaffirmation

BSR/EIA 364-84-2015 (R202x), Residual Magnetism Test Procedure for Electrical Connectors Used in Space Applications (reaffirmation of ANSI/EIA 364-84-2015)

This standard establishes a test procedure to determine the residual magnetism of a connector during controlled laboratory tests designed to simulate conditions likely to be encountered in unusual atmospheres and high-altitude and space-flight environments.

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FCI (Fluid Controls Institute)

1300 Sumner Avenue, Cleveland, OH 44115 ph: (216) 241-7333 www.fluidcontrolsinstitute.org

Revision

BSR/FCI 15-1-202x, Standard for Production Testing of Pressure Regulators (revision of ANSI/FCI 15-1-2015)

This standard provides guidelines for documenting minimum production tests and determining pass/fail criteria for pressure regulators undergoing production tests in a manufacturing facility. It applies to most designs including self- and pilot-operated pressure-reducing regulators, differential pressure regulators, pressure-loaded regulators, and regulators with or without internal relief valves.

Single copy price: Free
Obtain an electronic copy from: fci@fluidcontrolsinstitute.org
Send comments (with optional copy to psa@ansi.org) to: Leslie Schraff, fci@fluidcontrolsinstitute.org

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

445 Hoes Lane, Piscataway, NJ 08854 ph: (732) 562-3874 www.ieee.org

Revision

BSR C63.10-202x, Standard of procedures for compliance testing of unlicensed wireless devices (revision of ANSI C63.10-2013)

This draft is intended to address the following topics to be incorporated into Edition 3: (a) Editorial corrections, including clarification of terms like “plots” and removal of subclauses no longer deemed necessary; (b) Clarification of administrative procedures in Clause 5 of C63.10 to address FCC concerns; (c) Review of subclause 6.6 for measurements above 40 GHz; (d) Review subclause 7.8 (frequency hoppers) for applicability and harmonization with DTS; (e) Review Clause 11 (DTS) for applicability; (f) Review Clause 13 (beam steering antennas) for applicability; (g) Review and amend procedures for UNII due to changes in FCC Rules; (h) Clarification of the mm-wave test procedures; (i) Guidance for what channel combinations to test for FIRSTLY DOWNLINK interband and intraband contiguous and non-contiguous carrier aggregation; (j) Channel bonding/aggregation with respect to applicable technical requirements; (k) Review and include DFS test procedures; and (l) Review MIMO procedures.

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Comment Deadline: September 7, 2020

NSF (NSF International)

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

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BSR/NSF 350-202x (i56r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

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PDA (Parenteral Drug Association)

Bethesda Towers, 4350 East-West Highway, Suite 600, Bethesda, MD 20814 ph: (301) 656-5900 www.pda.org

New Standard

BSR/PDA Standard 002-202x, Cryopreservation of Cells for Use in Cell Therapies, Gene Therapies, and Regenerative Medicine Manufacturing: An Introduction and Best Practices Approach on How to Prepare, Cryopreserve, and Recover Cells, Cell Lines, and Cell-Based Tissue Products (new standard)

This document is designed to provide guidance on best practice approaches to develop a robust protocol for the reliable freezing, storage, and recovery of cells intended for clinical applications. It focuses on primary cells or cell lines that maybe used in research, development, and manufacturing of cell and gene therapy products. Generalized freezing, storage, and recovery flow charts are presented in this standard, and potential source of variability and important process considerations are identified.

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171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4417 https://ul.org/

Reaffirmation

BSR/UL 355-2011 (R202x), Standard for Cord Reels (reaffirmation of ANSI/UL 355-2011 (R2016))

The requirements of this Standard cover cord reels for general use, as well as cord reels - referred to in this Standard as special-use cord reels - intended to be mounted on or in electrical utilization equipment such as appliances, portable lamps, or similar equipment. These cord reels are intended for use in accordance with the National Electrical Code, NFPA 70. This Standard also covers reels for use in factories, household workshops, garages, commercial facilities, and construction sites where an additional degree of protection against the risk of the entrance of water, dust or other contaminates might be needed. This Standard also covers cord reels for use above but not in hazardous locations in commercial garages as defined in the National Electrical Code, NFPA 70. A cord reel, as covered by this Standard, is a reel equipped with, or intended for use with, a length of flexible cord. The reel provides a means for the cord to be unwound by the user as desired. The reel is provided with a take-up mechanism, by which the cord is rewound on the reel.

Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

Comment Deadline: September 7, 2020

UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4417 https://ul.org/

Reaffirmation

BSR/UL 814-2011 (R202x), Standard for Gas-Tube-Sign Cable (reaffirmation of ANSI/UL 814-2011 (R2015))

The requirements of this Standard cover single-conductor, 18 - 10 AWG, gas-tube-sign cables with temperature ratings of 105°C - 250°C (221°F - 482°F), and ratings of 5000 volts, 10000 volts, or 15000 volts. The cables are for use with gas-tube systems for signs, outline lighting, and interior lighting in accordance with the National Electrical Code and the Standard for Electrical Signs, UL 48. Assemblies that include these cables and are intended for use as components of gas-tube signs shall meet the requirements in the Standard for Electric-Sign Components, UL 879.

Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4417 https://ul.org/

Reaffirmation

BSR/UL 1685-2010 (R202x), Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables (reaffirmation of ANSI/UL 1685-2010 (R2015))

Limits are specified for each fire test to make the tests equally acceptable for the purpose of quantifying the smoke. The cable manufacturer is to specify, for testing each limited-smoke cable construction, either the UL vertical-tray flame exposure described in Sections 4 - 11 or the FT4/IEEE 1202 type of flame exposure described in Sections 12 - 19. The same test need not be specified for all constructions. Sections 20 - 25 provide for the collection of certain optional additional data, which may be requested by the cable manufacturer (see list in 25.1). For cables that are subject to a vertical-tray flame test without the cable manufacturer requesting the rating for limited smoke, the end-product wire Standard specifies that smoke measurements are not applicable. In the UL or FT4/IEEE 1202 test for these cables, only the flame height and cable damage height are of interest unless the manufacturer requests that the smoke data and results also be reported.

Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

UL (Underwriters Laboratories)

171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada ph: (613) 368-4417 https://ul.org/

Revision

BSR/UL 2586-202x, Standard for Hose Nozzle Valves for Flammable and Combustible Liquids (revision of ANSI/UL 2586-2014)

The requirements of this Standard cover hose nozzle valves that are intended to be used for the control of flammable and combustible liquids. They are of the type used in motor fuel dispensing equipment. Hose nozzle valves covered by this standard are for use with flammable and combustible liquids which are handled at temperatures within the range of -20°F (-29°C) to 125°F (52°C) and an operating pressure of minimum 50 psi (350 kPa). These requirements cover hose nozzle valves of the manually operated and automatic pressure operated type. When they form a part of an assembly which provides for additional functions or service, the requirements are outside the scope of these requirements.

Single copy price: Free
Obtain an electronic copy from: https://csds.ul.com/Home/ProposalsDefault.aspx
Order from: http://www.shopulstandards.com
Send comments (with optional copy to psa@ansi.org) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: https://csds.ul.com/Home/ProposalsDefault.aspx

Comment Deadline: September 22, 2020

ASME (American Society of Mechanical Engineers)

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

New Standard

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

BSR/ASME Y14.45-202x, Measurement Data Reporting (new standard)

This Standard establishes uniform practices for reporting attribute or variable measurement data for the dimensioning and tolerancing specifications defined in ASME Y14.5-2018. Measurement data used in support of product acceptance, manufacturing process evaluation, design development, and other uses are addressed.

Single copy price: Free
Obtain an electronic copy from: http://cstools.asme.org/publicreview
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (with optional copy to psa@ansi.org) to: Fred Constantino: (212) 591-8684; constantinof@asme.org

ASME (American Society of Mechanical Engineers)

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

Revision

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

BSR/ASME NM-2-202x, Glass-Fiber-Reinforced Thermosetting-Resin Piping Systems (revision of ANSI/ASME NM-2-2018)

This Standard provides requirements for the design, materials, manufacture, fabrication, installation, examination, and testing of glass-fiber-reinforced thermosetting- resin (FRP) piping systems.

Single copy price: Free
Obtain an electronic copy from: http://cstools.asme.org/publicreview
Order from: https://cstools.asme.org/csconnect/PublicReviewPage.cfm
Send comments (with optional copy to psa@ansi.org) to: Andres Carrion: (212) 591-7933; CarrionA@asme.org

Call for Members (ANS Consensus Bodies)

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

ASA (ASC S2) (Acoustical Society of America)

Contact: Nancy Blair-DeLeon
1305 Walt Whitman Road, Suite 300
Melville, NY 11747
p: (516) 576-2341
e: standards@acousticalsociety.org

BSR/ASA S2.1-202x/ISO 2041-202x, Mechanical Vibration, Shock and Condition Monitoring - Vocabulary (identical national adoption of ISO 2041:2018 and revision of ANSI/ASA S2.1 -2009 (R2020), ISO 2041-2009 (R2020))

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Jean Walsh
2950 Niles Road
Saint Joseph, MI 49085
p: (269) 757-1213
e: walsh@asabe.org

BSR/ASABE EP657 MONYEAR-202x, Measurement and Rating of Hermetic Storage Bags- Specifications of Gas Barrier Liners (new standard)

ASME (American Society of Mechanical Engineers)

Contact: Terrell Henry
Two Park Avenue, M/S 6-2B
New York, NY 10016-5990
p: (212) 591-8489
e: ansibox@asme.org

BSR/ASME NM-2-202x, Glass-Fiber-Reinforced Thermosetting-Resin Piping Systems (revision of ANSI/ASME NM-2-2018)

BSR/ASME NM-3-202x, Nonmetallic Materials - Part 1: Thermoplastic Material Specifications - Part 2: Thermoset Material Specifications - Part 3: Properties (revision of ANSI/ASME NM-3-2018)

ECIA (Electronic Components Industry Association)

Contact: Laura Donohoe
13873 Park Center Road, Suite 315
Herndon, VA 20171
p: (571) 323-0294
e: ldonohoe@ecianow.org

BSR/EIA 364-121-202x, Coupling Thread Strength Test Procedure for Electrical Connector Accessories (new standard)

BSR/EIA 364-03D-2015 (R202x), Altitude Immersion Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-03D-2015)

BSR/EIA 364-04B-2015 (R202x), Normal Force Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-04B -2015)

BSR/EIA 364-08C-2015 (R202x), Crimp Tensile Strength Test Procedure for Electrical Connectors (reaffirmation of ANSI/EIA 364-08C-2015)

BSR/EIA 364-84-2015 (R202x), Residual Magnetism Test Procedure for Electrical Connectors Used in Space Applications (reaffirmation of ANSI/EIA 364-84-2015)

FCI (Fluid Controls Institute)

Contact: Leslie Schraff
1300 Sumner Avenue
Cleveland, OH 44115
p: (216) 241-7333
e: fci@fluidcontrolsinstitute.org

BSR/FCI 15-1-202x, Standard for Production Testing of Pressure Regulators (revision of ANSI/FCI 15-1-2015)

Call for Members (ANS Consensus Bodies)

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

NEMA (National Electrical Manufacturers Association)

Contact: Brian Marchionini
1300 North 17th Street, Suite 1752
Arlington, VA 22209
p: (703) 841-3279
e: brian.marchionini@nema.org

BSR/NEMA 62321-1-202x, Determination of certain substances in electrotechnical products - Part 1: Introduction and overview (identical national adoption of IEC 62321-1:2013)

BSR/NEMA 62321-2-202x, Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation (identical national adoption of IEC 62321-2:2013)

BSR/NEMA 62321-5-202x, Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS (identical national adoption of IEC 62321-5:2013)

BSR/NEMA 62321-6-202x, Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatograhy -mass spectometry (GC-MS) (identical national adoption of IEC 62321-6:2015)

BSR/NEMA 62321-8-202x, Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py-TD-GC-MS) (identical national adoption of IEC 62321-8:2017)

BSR/NEMA 62321-10-202x, Determination of certain substances in electrotechnical products - Part 10: Polycyclic aromatic hydrocarbons (PAHs) in polymers and electronics by gas chromatography-mass spectrometry (GC-MS) (identical national adoption of IEC 62321-10:2020)

BSR/NEMA 62321-3-1-202x, Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry (identical national adoption of IEC 62321-3-1:2013)

BSR/NEMA 62321-3-2-202x, Determination of certain substances in electrotechnical products - Part 3-2: Screening - Total bromine in polymers and electronics by combustion - Ion chromatography (identical national adoption of IEC 62321 -3-2:2013)

BSR/NEMA 62321-7-1-202x, Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method (identical national adoption of IEC 62321-7-1:2015)

BSR/NEMA 62321-7-2-202x, Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method (identical national adoption of IEC 62321-7-2:2017)

BSR/NEMA 62430-202x, Environmentally conscious design (ECD) - Principles, requirements and guidance (identical national adoption of IEC 62430:2019)

BSR/NEMA 62474-202x, Material declaration for products of and for the electrotechnical industry (identical national adoption of IEC 62474:2018)

BSR/NEMA 62321-4-202xAMD1-202x CSV, Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (identical national adoption of IEC 62321-4:2013AMD1:2017 CSV)

Call for Members (ANS Consensus Bodies)

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

NSF (NSF International)

Contact: Jason Snider
789 N. Dixboro Road
Ann Arbor, MI 48105-9723
p: (734) 418-6660
e: jsnider@nsf.org

BSR/NSF 350-202x (i54r1), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350 -2019)

BSR/NSF 350-202x (i55r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350 -2019)

BSR/NSF 350-202x (i56r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350 -2019)

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

AAFS (American Academy of Forensic Sciences)

New Standard

ANSI/ASB Std 018-2020, Validation Standards for Probabilistic Genotyping Systems (new standard): 7/15/2020

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

ANSI/AAMI/ISO 8637-1-2020, Extracorporeal systems for blood purification - Part 1: Haemodialysers, haemodiafilters, haemofilters and haemoconcentrators (identical national adoption of ISO 8637-1 and revision of ANSI/AAMI/ISO 8637-2010 (R2015), AM1-2013 (R2015)): 7/21/2020

ANSI/AAMI/ISO 8637-2-2020, Extracorporeal systems for blood purification - Part 2: Extracorporeal blood circuit for haemodialysers, haemodiafilters and haemofilters (identical national adoption of ISO 8637-2 and revision of ANSI/AAMI/ISO 8638-2010 (R2015)): 7/21/2020

ANSI/AAMI/ISO 8637-3-2020, Extracorporeal systems for blood purification - Part 3: Plasmafilters (identical national adoption of ISO 8637-3:2018): 7/21/2020

ASME (American Society of Mechanical Engineers)

Reaffirmation

ANSI/ASME EA-4-2010 (R2020), Energy Assessment for Compressed Air Systems (reaffirmation of ANSI/ASME EA-4-2010 (R2015)): 7/14/2020

ANSI/ASME PTC 47.4-2015 (R2020), Power Block of an Integrated Gasification Combined Cycle Power Plant (reaffirmation of ANSI/ASME PTC 47.4-2015): 7/14/2020

Revision

ANSI/ASME B30.4-2020, Portal and Pedestal Cranes (revision of ANSI/ASME B30.4-2015): 7/16/2020

ANSI/ASME Y14.24-2020, Types and Applications of Engineering Drawings (revision of ANSI/ASME Y14.24-2012): 7/20/2020

ASTM (ASTM International)

Revision

ANSI/ASTM D910-2020, Specification for Leaded Aviation Gasolines (revision of ANSI/ASTM D910-2019): 7/7/2020

ANSI/ASTM D1655-2020, Specification for Aviation Turbine Fuels (revision of ANSI/ASTM D1655-2018): 7/15/2020

ANSI/ASTM D4054-2020, Practice for Evaluation of New Aviation Turbine Fuels and Fuel Additives (revision of ANSI/ASTM D4054-2019): 7/7/2020

ANSI/ASTM D6300-2020, Practice for Determination of Precision and Bias Data for Use in Test Methods for Petroleum Products and Lubricants (revision of ANSI/ASTM D6300-2020): 7/7/2020

ANSI/ASTM D7566-2020, Specification for Aviation Turbine Fuel Containing Synthesized Hydrocarbons (revision of ANSI/ASTM D7566-2018): 7/15/2020

ANSI/ASTM F2337-2020, Test Method for Treestand Fall Arrest System (revision of ANSI/ASTM F2337-2016): 7/7/2020

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

ANSI/ATIS 0600015.09-2020, Methodology for Measurement and Reporting of Base Station Metrics for Telecommunication Equipment: Power Consumption and Energy Performance (revision of ANSI/ATIS 0600015.09 -2015): 7/16/2020

ANSI/ATIS 0600017-2020, Non-Halogenated DC Power Wire and Cable for Telecommunications Power Systems (revision of ANSI ATIS 0600017 -2014): 7/16/2020

ANSI/ATIS 0600331-2020, Description of Above-Baseline Physical Threats to Telecommunications Links (revision of ANSI/ATIS 0600331-2015): 7/16/2020

ANSI/ATIS 0600332-2020, Electrical Protection of Network-Powered Broadband Facilities (revision of ANSI/ATIS 0600332-2015): 7/16/2020

AWS (American Welding Society)

Revision

ANSI/AWS D1.4/D1.4M-2020-AMD1, Structural Welding Code - Steel Reinforcing Bars (revision and redesignation of ANSI/AWS D1.4/D1.4M -2018): 7/14/2020

ECIA (Electronic Components Industry Association)

Revision

ANSI/EIA 364-38E-2020, Cable Pull-Out Test Procedure for Electrical Connectors (revision and redesignation of ANSI/EIA 364-38D-2014): 7/14/2020

ANSI/EIA 622-C-2020, Glossary of Electrical Connector Related Terms (revision and redesignation of ANSI/EIA 622-B-2015): 7/14/2020

EMAP (Emergency Management Accreditation Program)

Revision

ANSI/EMAP EMS 5-2019, Emergency Management Standard (revision and redesignation of ANSI/EMAP EMS2016-2016): 7/14/2020

ANSI/EMAP US&R 2-2019, Urban Search and Rescue Standard (revision and redesignation of ANSI/EMAP US&R-2016): 7/14/2020

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

New Standard

ANSI/ASSE 1090-2020, Performance Requirements for Drinking Water Atmospheric Water Generators (AWG) (new standard): 7/16/2020

Revision

ANSI/ASSE 1061-2020, Performance Requirements for Push-Fit Fittings (revision of ANSI/ASSE 1061-2015): 7/17/2020

ANSI/ASSE 1037/ASME A112.1037/CSA B125.37-2020, Performance Requirements for Pressurized Flushing Devices for Plumbing Fixtures (revision of ANSI/ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37 -2015 (R2020)): 7/16/2020

ANSI/ASSE 1070/ASME A112.1070/CSA B125.70-2020, Performance requirements for water temperature limiting devices (revision and redesignation of ANSI/ASSE 1070-2015/ASME A112.1070-2015/CSA B125.70-15): 7/17/2020

NEMA (ASC W1) (National Electrical Manufacturers Association)

Reaffirmation

ANSI/NEMA/IEC 60974-12-2009 (R2020), Arc Welding Equipment - Part 12: Coupling Devices for Welding Cables (reaffirmation of ANSI/NEMA/IEC 60974-12-2009): 7/14/2020

NFPA (National Fire Protection Association)

Revision

ANSI/NFPA 16-2021, Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems (revision of ANSI/NFPA 16-2019): 7/16/2020

ANSI/NFPA 18-2021, Standard on Wetting Agents (revision of ANSI/NFPA 18 -2017): 7/16/2020

NSF (NSF International)

Revision

ANSI/NSF 14-2020 (i107r3), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2019): 7/14/2020

ANSI/NSF 14-2020 (i110r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2019): 7/13/2020

RESNET (Residential Energy Services Network, Inc.)

Addenda

ANSI/RESNET/ICC 301-2019 Addendum B-2020, Clarifications, HVAC Quality Installation Grading, and Dehumidification (addenda to ANSI/RESNET/ICC 301-2018): 7/21/2020

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 170-2020, Preparing an MDU Amplifier Extender Specification (revision of ANSI/SCTE 170-2010): 7/14/2020

TIA (Telecommunications Industry Association)

Revision

ANSI/TIA 4950-B-2020, Requirements for Battery-Powered, Portable Land Mobile Radio Applications in Class I, II, III, Division I, Hazardous (Classified) Locations (revision and redesignation of ANSI/TIA 4950-A-2014): 7/21/2020

UL (Underwriters Laboratories)

New National Adoption

ANSI/UL 12402-4-2020, Standard for Personal Flotation Devices - Part 4: Lifejackets, Performance Level 100 - Safety Requirements (national adoption with modifications of ISO 12402-4): 7/9/2020

Revision

ANSI/UL 141-2020, Standard for Safety for Garment Finishing Appliances (revision of ANSI/UL 141-2011 (R2016)): 7/21/2020

ANSI/UL 399-2020, Standard for Safety for Drinking-Water Coolers (revision of ANSI/UL 399-2017): 7/21/2020

ANSI/UL 498-2020b, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2020): 7/14/2020

ANSI/UL 778-2020a, Standard for Safety for Motor-Operated Water Pumps (revision of ANSI/UL 778-2019): 7/17/2020

ANSI/UL 1062-2020, Standard for Safety for Unit Substations (revision of ANSI/UL 1062-2014 (R2019)): 7/20/2020

ANSI/UL 1647-2020, Standard for Safety for Motor-Operated Massage and Exercise Machines (revision of ANSI/UL 1647-2014): 7/21/2020

VITA (VMEbus International Trade Association (VITA))

New Standard

ANSI/VITA 46.30-2020, Higher Data Rate VPX (new standard): 7/14/2020

Project Initiation Notification System (PINS)

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

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

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

APTech (ASC CGATS) (Association for Print Technologies)

Contact: Jeff Linder: (703) 264-7220; jlinder@aptech.org
1896 Preston White Drive, Reston, VA 20191 www.printtechnologies.org

Revision

BSR/CGATS 21-2-202X, Graphic technology - Printing from digital data across multiple technologies - Part 2: Reference characterization data (revision of ANSI/CGATS 21-2-2013)

Stakeholders: Color characterization data equipment and software manufacturers and the users of this equipment.
Project Need: Update CGATS.21-2 to account for ANSI IT8.7/5-2019, Graphic technology - Input data for characterization of 4-color process printing - Extended data set (new standard). CGATS IT8.7/5 test target incorporates all of the CMYK values of the IT8.7/4 target, removes some duplicate sets of values and adds additional patches for the convenience of process control and certification activities.
This part of CGATS.21 specifies a limited number of characterized reference printing conditions that span the expected range of color gamuts used for the production of printed material from digital data, regardless of the printing process used.

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Jean Walsh: (269) 757-1213; walsh@asabe.org
2950 Niles Road, Saint Joseph, MI 49085 https://www.asabe.org/

New Standard

BSR/ASABE EP657 MONYEAR-202x, Measurement and Rating of Hermetic Storage Bags - Specifications of Gas Barrier Liners (new standard)

Stakeholders: Hermetic storage bag manufacturers, smallholder farmers, grain aggregators and distributors, pest control businesses.
Project Need: By placing an airtight gas barrier consisting of a solid material or flexible liner between the grain and the outside atmosphere, the moisture content of the stored grain will remain the same as when the hermetic storage vessel (silo or bag) was sealed. Thus, hermetic storage provides moisture and pest control without the need for pesticides. Identifying the key engineering properties that are important to ensure hermeticity is one approach to develop a science-based standard for gas barrier liners of hermetic storage bags.
This standard is for hermetic storage bag gas barrier liners typically placed inside polypropylene bags or jute sacks. The gas barrier liner can be made of extruded multilayers of different polymers with a high oxygen gas barrier layer, or high-/low-density polyethylene (HDPE/LDPE) film without a special oxygen gas barrier layer. The focus of this standard is on specifying the key engineering properties that will be the basis for measuring and rating hermeticity and strength of gas barrier liners.

ASC X9 (Accredited Standards Committee X9, Incorporated)

Contact: Ambria Frazier: (410) 267-7707; Ambria.frazier@x9.org
275 West Street, Suite 107, Annapolis, MD 21401 www.x9.org

Revision

BSR X9.100-110-202X, Document Imaging Compatibility (revision of ANSI X9.100-110-2015)

Stakeholders: Banks, check manufacturers, software vendors, service providers, auditors.
Project Need: A revision is needed to revise inconsistencies between tables and text within the standard. The terms and definitions within the standard will also be updated as necessary.
This standard specifies the location and background design of essential check data fields and is intended for all business size and personal size checks.

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

Contact: Christopher White: (708) 995-3017; chris@asse-plumbing.org
18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 www.asse-plumbing.org

Revision

BSR/ASSE 1057-202x, Performance Requirements for Freeze Resistant Sanitary Yard Hydrants with Backflow Protection (revision of ANSI/ASSE 1057-2012)

Stakeholders: Plumbing industry, plumbers, inspectors, contractors.
Project Need: Revise the requirements of certain applications to reflect practice and public need.
This standard covers design and performance requirements for freeze-resistant sanitary yard hydrants to prevent backflow due to backsiphonage and backpressure.

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

Contact: Kyle Thompson: (909) 230-5534; standards@iapmostandards.org
5001 East Philadelphia Street, Ontario, CA 91761 https://www.iapmostandards.org

Revision

BSR/IAPMO Z1002-202x, Rainwater Harvesting Tanks (revision of ANSI/IAPMO Z1002-2014)

Stakeholders: Manufacturers, users, inspectors, distributors, designers, and contractors.
Project Need: Revision to update the standard to include requirements for steel-reinforced polyethylene tanks.
This Standard covers rainwater harvesting tanks and specifies requirements for design, materials, manufacture, performance, testing, and markings.

ICC (ASC A117) (International Code Council)

Contact: Karl Aittaniemi: (888) 422-7233 ; kaittaniemi@iccsafe.org
4051 Flossmoor Road, Country Club Hills, IL 60478 www.iccsafe.org

Revision

BSR ICC A117.1-202x, Standard for Accessible and Usable Buildings and Facilities (revision of ANSI/ICC A117.1-2017)

Stakeholders: Design professionals; manufacturers; constructors; and building, fire, and other government officials.
Project Need: To update the standard to be consistent with current industry practices.
Site design and architectural features affecting the accessibility and usability of buildings and facilities, consideration to be given to all types of physical and sensory disabilities, to publicly used buildings and facilities, and to residential structures.

NCPDP (National Council for Prescription Drug Programs)

Contact: Kittye Krempin: (480) 296-4584; kkrempin@ncpdp.org
9240 East Raintree Drive, Scottsdale, AZ 85260 www.ncpdp.org

Revision

BSR/NCPDP BUS v4.0-202x, NCPDP Billing Unit Standard (revision and redesignation of ANSI/NCPDP BUS v3.1-2015)

Stakeholders: Pharmacies and payers, their software systems, value-added networks.
Project Need: The NCPDP Billing Unit Standard Implementation Guide is intended to meet two needs within the pharmaceutical drug claim industry: (1) provide practical guidelines for software developers and (2) to ensure a consistent implementation of standardized billing units.
The NCPDP Billing Unit Standard Implementation Guide provides guidelines for consistent implementation of drug/product packaging for use in all applicable NCPDP Standards.

NEMA (National Electrical Manufacturers Association)

Contact: Brian Marchionini: (703) 841-3279; brian.marchionini@nema.org
1300 North 17th Street, Suite 1752, Arlington, VA 22209 www.nema.org

New National Adoption

BSR/NEMA 62321-1-202x, Determination of certain substances in electrotechnical products - Part 1: Introduction and overview (identical national adoption of IEC 62321-1:2013)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-1:2013 refers to the sample as the object to be processed and measured. The nature of the sample and the manner in which it is acquired is defined by the entity carrying out the tests and not by this standard. It provides guidance on the disassembly procedure employed for obtaining a sample. This first edition of IEC 62321-1 is a partial replacement of IEC 62321, forming a structural revision and replacing Clauses 1 to 4.

NEMA (National Electrical Manufacturers Association)

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1300 North 17th Street, Suite 1752, Arlington, VA 22209 www.nema.org

New National Adoption

BSR/NEMA 62321-2-202x, Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation (identical national adoption of IEC 62321-2:2013)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-2:2013 provides strategies of sampling along with the mechanical preparation of samples from electrotechnical products, electronic assemblies and electronic components. These samples can be used for analytical testing to determine the levels of certain substances as described in the test methods in other parts of IEC 62321. Restrictions for substances will vary between geographic regions and from time to time. This Standard describes a generic process for obtaining and preparing samples prior to the determination of any substance which are under concern.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-5-202x, Determination of certain substances in electrotechnical products - Part 5: Cadmium, lead and chromium in polymers and electronics and cadmium and lead in metals by AAS, AFS, ICP-OES and ICP-MS (identical national adoption of IEC 62321-5:2013)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-5:2013 describes the four test methods for lead, cadmium, and chromium in polymers, metals, and electronics, namely AAS (atomic absorption spectrometry), AFS (atomic fluorescence spectrometry), ICP-OES (inductively coupled plasma optical emission spectrometry), and ICP-MS (inductively coupled plasma mass spectrometry) as well as several procedures for preparing the sample solution from which the most appropriate method of analysis can be selected by experts.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-6-202x, Determination of certain substances in electrotechnical products - Part 6: Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatograhy-mass spectometry (GC-MS) (identical national adoption of IEC 62321-6:2015)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-6:2015 specifies one normative and two informative techniques for the determination of polybrominated biphenyls (PBB) and diphenyl ethers (PBDE) in polymers of electrotechnical products. The test methods are:
- The gas chromatography-mass spectrometry (GC-MS);
- The ion attachment mass spectrometry (IAMS) technique; and
- The high-pressure liquid chromatography technique.
This first edition of IEC 62321-6 is a partial replacement of IEC 62321:2008, forming a structural revision and generally replacing Annex A.

NEMA (National Electrical Manufacturers Association)

Contact: Brian Marchionini: (703) 841-3279; brian.marchionini@nema.org
1300 North 17th Street, Suite 1752, Arlington, VA 22209 www.nema.org

New National Adoption

BSR/NEMA 62321-8-202x, Determination of certain substances in electrotechnical products - Part 8: Phthalates in polymers by gas chromatography-mass spectrometry (GC-MS), gas chromatography-mass spectrometry using a pyrolyzer/thermal desorption accessory (Py-TD-GC-MS) (identical national adoption of IEC 62321-8:2017)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGOs and government agencies

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-10-202x, Determination of certain substances in electrotechnical products - Part 10: Polycyclic aromatic hydrocarbons (PAHs) in polymers and electronics by gas chromatography-mass spectrometry (GC-MS) (identical national adoption of IEC 62321-10:2020)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-10:2020 specifies one normative technique for the determination of polycyclic aromatic hydrocarbons (PAHs) in polymers of electrotechnical products. These PAHs can especially be found in the plastic and rubber parts of a wide range of consumer articles. They are present as impurities in some of the raw materials used in the production of such articles, in particular in extender oils and in carbon black. They are not added intentionally to the articles and do not perform any specific function as constituents of the plastic or rubber parts. The gas chromatography-mass spectrometry (GC MS) test method is suitable for the determination of polycyclic aromatic hydrocarbons (PAHs). These test methods have been evaluated for use with plastics and rubbers. These test methods have been evaluated for use with ABS (acrylonitrile butadiene styrene) containing individual PAHs ranging from 37.2 mg/kg to 119 mg/kg and rubbers containing individual PAHs ranging from 1 mg/kg to 221.2 mg/kg.
WARNING: This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-3-1-202x, Determination of certain substances in electrotechnical products - Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine using X-ray fluorescence spectrometry (identical national adoption of IEC 62321-3-1:2013)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-3-1:2013 describes the screening analysis of five substances, specifically lead (Pb), mercury (Hg), cadmium (Cd), total chromium (Cr), and total bromine (Br) in uniform materials found in electrotechnical products, using the analytical technique of X-ray fluorescence (XRF) spectrometry.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-3-2-202x, Determination of certain substances in electrotechnical products - Part 3-2: Screening - Total bromine in polymers and electronics by combustion - Ion chromatography (identical national adoption of IEC 62321-3-2:2013)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-3-2:2013 specifies the screening analysis of the total bromine (Br) in homogeneous materials found in polymers and electronics by using the analytical technique of combustion ion chromatography (C-IC).

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-7-1-202x, Determination of certain substances in electrotechnical products - Part 7-1: Hexavalent chromium - Presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protected coatings on metals by the colorimetric method (identical national adoption of IEC 62321-7-1:2015)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-7-1:2015 describes a boiling water extraction procedure intended to provide a qualitative determination of the presence of hexavalent chromium (Cr(VI)) in colourless and coloured corrosion-protection coatings on metallic samples. In this procedure, when Cr(VI) in a sample is detected below the 0.10 g/cm^2 LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 g/cm^2 and 0.13 g/cm^2 has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 g/cm^2, the sample is considered to be positive for the presence of Cr(VI) in the coating layer.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-7-2-202x, Determination of certain substances in electrotechnical products - Part 7-2: Hexavalent chromium - Determination of hexavalent chromium (Cr(VI)) in polymers and electronics by the colorimetric method (identical national adoption of IEC 62321-7-2:2017)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-7-2:2017 describes procedures to measure hexavalent chromium, Cr(VI), quantitatively in samples of polymers and electronics. This method employs organic solvent to dissolve or swell the sample matrix, followed by an alkaline digestion procedure to extract Cr(VI) from samples. Studies have shown that organic/alkaline solution is more effective than acidic solution in extracting Cr(VI) from soluble and insoluble samples. Minimal reduction of Cr (VI) to Cr(III) or oxidation of Cr(III) to Cr(VI) occurs under alkaline conditions. The first edition of IEC 62321:2008 was a “stand-alone” standard that included an introduction, an overview of test methods, a mechanical sample preparation as well as various test method clauses. This first edition of IEC 62321-7-2 is a partial replacement of IEC 62321:2008, forming a structural revision and generally replacing Annex C. IEC 62321-7-2 is the final replacement part of the corresponding clauses in IEC 62321:2008.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62430-202x, Environmentally conscious design (ECD) - Principles, requirements and guidance (identical national adoption of IEC 62430:2019)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62430:2019 describes principles, specifies requirements, and provides guidance for organizations intending to integrate environmental aspects into the design and development in order to minimize the adverse environmental impacts of their products. This document applies to processes on how ECD (environmentally conscious design) are integrated into the design and development. This document applies to any organization, regardless of its size, type or sector. This document does not provide requirements for assessing the conformity of individual products. IEC 62430:2019 cancels and replaces the first edition published in 2009. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition: (a) Scope is extended from electrotechnical product and systems to all products including services; (b) As a consequence of the scope expansion, non-electrotechnical products, services in particular, are taken into account to modify requirements; and (c) Clause 6 is added as a guidance.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62474-202x, Material declaration for products of and for the electrotechnical industry (identical national adoption of IEC 62474:2018)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62474:2018 RLV contains both the official IEC International Standard and its Redline version. The Redline version is not an official document, it is available in English only and provides you with a quick and easy way to compare all the changes between the official IEC Standard and its previous edition. IEC 62474:2018 specifies the procedure, content, and form relating to material declarations for products of companies operating in and supplying the electrotechnical industry. Process chemicals and emissions during product use are not in the scope of this International Standard. It provides data to downstream manufacturers that:
- allows them to assess products against substance restriction compliance requirements;
- they can use in their environmentally conscious design process and across all product life-cycle phases.

NEMA (National Electrical Manufacturers Association)

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New National Adoption

BSR/NEMA 62321-4-202xAMD1-202x CSV, Determination of certain substances in electrotechnical products - Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS (identical national adoption of IEC 62321-4:2013AMD1:2017 CSV)

Stakeholders: Manufacturers of electrical and electronic equipment and related service providers including laboratories, industry associations, consultants, retailers, IT tool providers, and environmentally related NGO's and government agencies.
Project Need: To review and adopt an IEC Standard to accommodate global supply chains.
IEC 62321-4:2013+A1:2017 describes the use of four test methods for mercury in polymers, metals, and electronics, namely CV-AAS (cold vapour atomic absorption spectrometry), CV-AFS (cold vapour atomic fluorescence spectrometry), ICP-OES (inductively coupled plasma optical emission spectrometry), and ICP-MS (inductively coupled plasma mass spectrometry) as well as several procedures for preparing the sample solution from which the most appropriate method of analysis can be selected by experts.

UL (Underwriters Laboratories)

Contact: Laura Werner: (613) 368-4417; laura.werner@ul.org
171 Nepean Street, Suite 400, Ottawa, ON K2P 0B4 Canada https://ul.org/

New Standard

BSR/UL 2583-202x, Standard for Fuel Tank Accessories (new standard)

Stakeholders: Manufacturers of fuel tank accessories for stationary fuel storage tanks.
Project Need: This standard will take OOI UL 2583 and combine it with two ULC Standards (ULC-S661 and ULC-S663). Effectively, these three documents will become a single bi-national standard to be applied in the US and Canada. This activity will result in a joint Canada/US standard. Manufacturers will benefit from reduced administrative burden when a product only needs to be tested to a single standard. Regulators will benefit from reduced overlap in standards requirements.
The requirements of this Standard cover mechanical-type accessories that are typically intended for attachment to storage tanks or connecting pipe in commercial (public) or private (fleet) automotive fueling station and similar storage or dispensing applications and are designed to provide automatic safety or operational functions. These products may be used with underground or aboveground tank systems and with liquid and/or vapor phases of the fuels and similar fuels or liquids covered by each Part of this Standard and include: Vapor Control Products, Liquid Control Products, Structural & Containment Products, and Corrosion Protection Products. These products are intended for use with storage tanks or fueling systems containing automotive fuels and similar fuels or liquids under the expected use conditions and exposures that have similar chemical, physical, and material compatibility properties as represented in these requirements.

American National Standards Maintained Under Continuous Maintenance

The ANSI Essential Requirements: Due Process Requirements for American National Standards provides two options for the maintenance of American National Standards (ANS): periodic maintenance (see clause 4.7.1) and continuous maintenance (see clause 4.7.2). Continuous maintenance is defined as follows:

The standard shall be maintained by an accredited standards developer. A documented program for periodic publication of revisions shall be established by the standards developer. Processing of these revisions shall be in accordance with these procedures. The published standard shall include a clear statement of the intent to consider requests for change and information on the submittal of such requests. Procedures shall be established for timely, documented consensus action on each request for change and no portion of the standard shall be excluded from the revision process. In the event that no revisions are issued for a period of four years, action to reaffirm or withdraw the standard shall be taken in accordance with the procedures contained in the ANSI Essential Requirements.

The Executive Standards Council (ExSC) has determined that for standards maintained under the Continuous Maintenance option, separate PINS announcements are not required. The following ANSI Accredited Standards Developers have formally registered standards under the Continuous Maintenance option.

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

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit ANSI Online at www.ansi.org/asd, select “American National Standards Maintained Under Continuous Maintenance.” Questions? psa@ansi.org.

ANSI-Accredited Standards Developers Contact Information

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

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

AAMI
Association for the Advancement of Medical Instrumentation
901 N. Glebe Road, Suite 300
Arlington, VA 22203
Phone: (703) 253-8263
Web: www.aami.org

API
American Petroleum Institute
200 Massachusetts Avenue NW
Washington, DC 20001
Phone: (202) 682-8056
Web: www.api.org

APTech (ASC CGATS)
Association for Print Technologies
1896 Preston White Drive
Reston, VA 20191
Phone: (703) 264-7220
Web: www.printtechnologies.org

ASABE
American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 757-1213
Web: https://www.asabe.org/

ASC X9
Accredited Standards Committee X9, Incorporated
275 West Street
Suite 107
Annapolis, MD 21401
Phone: (410) 267-7707
Web: www.x9.org

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

ASTM
ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9744
Web: www.astm.org

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

AWS
American Welding Society
8669 Doral Blvd
Suite 130
Doral, FL 33166
Phone: (305) 443-9353
Web: www.aws.org

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

DSI
Dental Standards Institute, Inc.
109 Bushaway Road
Suite 100
Wayzata, MN 55391
Phone: (763) 290-0004
Web: https://dentalstandardsinstitute.com/

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

EMAP
Emergency Management Accreditation Program
201 Park Washington Court
Falls Church, VA 22046-4527
Phone: (859) 494-0917
Web: www.emap.org

FCI
Fluid Controls Institute
1300 Sumner Avenue
Cleveland, OH 44115
Phone: (216) 241-7333
Web: www.fluidcontrolsinstitute.org

IAPMO (ASSE Chapter)
ASSE International Chapter of IAPMO
18927 Hickory Creek Drive
Suite 220
Mokena, IL 60448
Phone: (708) 995-3017
Web: www.asse-plumbing.org

IAPMO (Z)
International Association of Plumbing & Mechanical Officials
5001 East Philadelphia Street
Ontario, CA 91761
Phone: (909) 230-5534
Web: https://www.iapmostandards.org

ICC (ASC A117)
International Code Council
4051 Flossmoor Road
Country Club Hills, IL 60478
Phone: (888) 422-7233
Web: www.iccsafe.org

IEEE (ASC C63)
Institute of Electrical and Electronics Engineers
445 Hoes Lane
Piscataway, NJ 08854
Phone: (732) 562-3874
Web: www.ieee.org

NCPDP
National Council for Prescription Drug Programs
9240 East Raintree Drive
Scottsdale, AZ 85260
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NEMA (ASC W1)
National Electrical Manufacturers Association
1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3278
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NEMA (Canvass)
National Electrical Manufacturers Association
1300 North 17th Street
Suite 1752
Arlington, VA 22209
Phone: (703) 841-3279
Web: www.nema.org

NFPA
National Fire Protection Association
One Batterymarch Park
Quincy, MA 02169
Phone: (617) 984-7246
Web: www.nfpa.org

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

PDA
Parenteral Drug Association
Bethesda Towers, 4350 East-West Highway
Suite 600
Bethesda, MD 20814
Phone: (301) 656-5900
Web: www.pda.org

RESNET
Residential Energy Services Network, Inc.
4867 Patina Court
Oceanside, CA 92057
Phone: (760) 408-5860
Web: www.resnet.us.com

SCTE
Society of Cable Telecommunications Engineers
140 Philips Rd
Exton, PA 19341
Phone: (800) 542-5040
Web: www.scte.org

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

UL
Underwriters Laboratories
171 Nepean Street
Suite 400
Ottawa, ON K2P 0B4 Canada
Phone: (613) 368-4417
Web: https://ul.org/

VITA
VMEbus International Trade Association (VITA)
929 W. Portobello Avenue
Mesa, AZ 85210
Phone: (602) 281-4497
Web: www.vita.com

ISO & IEC Draft International Standards

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

Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); 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

BUILDING CONSTRUCTION (TC 59)

ISO/DIS 15928-7, Houses - Description of performance - Part 7: Accessibility and usability - 10/8/2020, $53.00

ERGONOMICS (TC 159)

ISO/DIS 23456-1, Dynamic signs in physical environments - Part 1: General requirements - 10/5/2020, $53.00

ESSENTIAL OILS (TC 54)

ISO/DIS 3518, Essential oil of sandalwood (Santalum album L.) - 10/4/2020, $46.00

GAS CYLINDERS (TC 58)

ISO/DIS 9809-4, Gas cylinders - Refillable seamless steel gas cylinders - Design, construction and testing - Part 4: Stainless steel cylinders with an Rm value of less than 1 100 MPa - 10/3/2020, $125.00

GLASS IN BUILDING (TC 160)

ISO/DIS 19916-3, Glass in building - Vacuum insulating glass - Part 3: Test methods for evaluation of performance under temperature differences - 10/1/2020, $88.00

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 12642-3, Graphic technology - Input data for characterization of 4-colour process printing - Part 3: Extended data set - 10/5/2020, $46.00

ISO/DIS 20616-1, Graphic technology - File format for quality control and metadata - Part 1: Print Requirements eXchange (PRX) - 10/4/2020, $102.00

PAPER, BOARD AND PULPS (TC 6)

ISO/DIS 12625-7, Tissue paper and tissue products - Part 7: Determination of optical properties - Measurement of brightness and colour with D65/10° (outdoor daylight) - 10/2/2020, $58.00

PLASTICS (TC 61)

ISO/DIS 23517-1, Plastics - Biodegradable mulch films for use in agriculture and horticulture - Part 1: Requirements and test methods regarding biodegradation, ecotoxicity and control of constituents - 10/4/2020, $88.00

RAILWAY APPLICATIONS (TC 269)

ISO/DIS 22480-2, Railway applications - Concrete sleepers and bearers for track - Part 2: Prestressed monoblock sleepers - 10/5/2020, $77.00

ROAD VEHICLES (TC 22)

ISO/DIS 3911, Wheels and rims for pneumatic tyres - Vocabulary, designation and marking - 10/2/2020, $82.00

ISO/DIS 13988, Clip balance weight and rim flange nomenclature, test procedures and performance requirements - Passenger vehicle wheels - 11/13/2005, $62.00

ISO/DIS 22140, Passenger cars - Validation of vehicle dynamics simulation - Lateral transient response test methods - 10/3/2020, $77.00

ISO/DIS 11010-1, Passenger cars - Simulation model classification - Part 1: Vehicle dynamics - 10/4/2020, $107.00

ISO/DIS 23274-2, Hybrid-electric road vehicles - Exhaust emissions and fuel consumption measurements - Part 2: Externally chargeable vehicles - 10/8/2020, $62.00

SOLID RECOVERED FUELS (TC 300)

ISO/DIS 22940, Solid recovered fuels - Determination of elemental composition by X-ray fluorescence - 10/4/2020, $102.00

SURFACE CHEMICAL ANALYSIS (TC 201)

ISO/DIS 19318, Surface chemical analysis - X-ray photoelectron spectroscopy - Reporting of methods used for charge control and charge correction - 10/8/2020, $62.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

ISO 37106/DAmd1, Sustainable cities and communities - Guidance on establishing smart city operating models for sustainable communities - Amendment 1 - 10/4/2020, $62.00

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

ISO/DIS 10209, Technical product documentation - Vocabulary - Terms relating to technical drawings, product definition and related documentation - 10/1/2020, $155.00

TEXTILES (TC 38)

ISO/DIS 16322-2, Textiles - Determination of spirality after laundering - Part 2: Woven and knitted fabrics - 10/9/2020, $67.00

THERMAL INSULATION (TC 163)

ISO 24353/DAmd1, Hygrothermal performance of building materials and products - Determination of moisture adsorption/desorption properties in response to humidity variation - Amendment 1 - 10/5/2020, $29.00

ISO/DIS 6781-1, Performance of buildings - Detection of heat, air and moisture irregularities in buildings by infrared methods - Part 1: General procedures - 10/5/2020, $107.00

ISO/IEC JTC 1, Information Technology

ISO/IEC/IEEE DIS 24774, Systems and software engineering - Life cycle management - Specification for process description - 10/3/2020, $88.00

IEC Standards

SMB/7089/QP, ISO/IEC Directives Part 1 - Consolidated JTC 1 Supplement 2020 - Procedures specific to JTC 1, 2020/8/14

8A/71/DTR, IEC TR 63043 ED1: Renewable Energy Power Forecasting Technology, 2020/9/11

18/1685/DC, Amendment 1 to IEC/IEEE 80005-1 ED2, 2020/8/28

22F/588/CD, IEC 60700-2/AMD1 ED1: Amendment 1 - Thyristor valves for high voltage direct current (HVDC) power transmission - Part 2: Terminology, 2020/9/11

29/1065/CD, IEC 60645-6 ED2: Electroacoustics - Audiometric equipment - Part 6: Instruments for the measurement of otoacoustic emissions, 2020/10/9

45/894/CDV, IEC 61452 ED2: Nuclear instrumentation - Measurement of gamma-ray emission rates of radionuclides - Calibration and use of germanium spectrometers, 2020/10/9

45B/969/FDIS, IEC 62484 ED2: Radiation protection instrumentation - Spectrometric radiation portal monitors (SRPMs) used for the detection and identification of illicit trafficking of radioactive material, 2020/8/28

46A/1424/CD, IEC 61196-6 ED2: Coaxial communication cables - Part 6: Sectional specification for CATV drop cables, 2020/10/9

46A/1426/NP, PNW 46A-1426: Coaxial communication cables - Part 9 -2: Detail specification for 50-0,4 type RF flexible cables, 2020/10/9

46A/1425/CD, IEC 61196-6-1 ED2: Coaxial communication cables - Part 6-1: Blank detail specification for CATV drop cables, 2020/10/9

48B/2823/CDV, IEC 60352-7 ED2: Solderless connections - Part 7: Spring clamp connections - General requirements, test methods and practical guidance, 2020/10/9

48B/2835/NP, PNW 48B-2835: Connectors for electronic equipment - Product requirements - Part 61076-8-XXX: Power connectors - Detail specification for 2P power plus 2P signal plastic housing rectangular shielded connectors with 250A rated current and IP68/IPXXB degree of protection, 2020/10/9

48B/2836/NP, PNW 48B-2836: Connectors for electronic equipment - Product requirements - Part 61076-8-XXX: Power connectors - Detail specification for 2P power plus 2P signal plastic housing rectangular shielded connectors with 130A rated current and IP68/IPXXB degree of protection, 2020/10/9

48B/2832/FDIS, IEC 60603-7 ED4: Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors, 2020/8/28

48B/2834/NP, PNW 48B-2834: Connectors for electronic equipment - Product requirements - Part 61076-8-XXX: Power connectors - Detail specification for 2P power plus 2P signal plastic housing rectangular shielded connectors with 200A rated current and IP68/IPXXB degree of protection, 2020/10/9

56/1891/CDV, IEC 60300-3-4 ED3: Dependability management - Part 3-4: Application guide - Guide to the specification of dependability requirements, 2020/10/9

57/2229/CDV, IEC 61970-457 ED1: Energy Management System Application Program Interface (EMS-API) - Part 457: Dynamics profile, 2020/10/9

57/2253/DTR, IEC TR 61850-7-5 ED1: Communication networks and systems for power utility automation - Part 7-5: IEC 61850 modelling concepts, 2020/9/11

57/2250/CD, IEC TS 61850-80-5 ED1: Communication networks and systems for power utility automation - Part 80-5: Guideline for mapping information between IEC 61850 and IEC 61158-6 (Modbus), 2020/9/11

59K/317/NP, PNW TS 59K-317: Household electric appliances - Specification of the properties of a digital device for measuring the performance, 2020/10/9

62B/1174/CDV, IEC 60601-2-63/AMD2 ED1: Amendment 2 - Medical electrical equipment - Part 2-63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment, 2020/10/9

62B/1179/CD, IEC 60601-2-33 ED4: Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis, 2020/9/11

69/724/NP, PNW 69-724: Interoperability and safety of high power wireless power transfer (H-WPT) for electric vehicles, 2020/10/9

82/1742/CDV, IEC 62920/AMD1 ED1: Amendment 1 - Photovoltaic power generating systems - EMC requirements and test methods for power conversion equipment, 2020/10/9

82/1771/NP, PNW 82-1771: Light and elevated temperature induced degradation (LeTID) test for c-Si Photovoltaic (PV) modules: Detection, 2020/9/11

82/1769/FDIS, IEC 63092-1 ED1: Photovoltaics in buildings - Part 1: Requirements for building-integrated photovoltaic modules, 2020/8/28

82/1772/Q, Proposed corrigendum to IEC 62109-3 ED1.0, Safety of power converters for use in photovoltaic power systems - Part 3: Particular requirements for electronic devices in combination with photovoltaic elements, 2020/8/28

82/1770/NP, PNW TS 82-1770: Utility-interconnected photovoltaic (PV) inverters - Test procedure of high-voltage ride-through measurements, 2020/9/11

82/1774/CD, IEC 63163 ED1: Terrestrial photovoltaic (PV) modules for consumer products - Design qualification and type approval, 2020/10/9

82/1768/FDIS, IEC 63092-2 ED1: Photovoltaics in buildings - Part 2: Requirements for building-integrated photovoltaic systems, 2020/8/28

82/1767/FDIS, IEC 62788-1-4/AMD1 ED1: Amendment 1 - Measurement procedures for materials used in photovoltaic modules - Part 1-4: Encapsulants - Measurement of optical transmittance and calculation of the solar-weighted photon transmittance, yellowness index, and UV cut-off wavelength, 2020/8/28

86B/4326/CD, IEC 61755-2-1 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 2-1: Connection parameters of non-dispersion unshifted single-mode physically contacting fibres - Non-angled, 2020/9/11

86B/4327/CD, IEC 61755-2-2 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 2-2: Connection parameters of dispersion unshifted single-mode physically contacting fibres - Angled, 2020/9/11

88/781/CD, IEC 61400-15-1 ED1: Wind energy generation systems - Part 15-1: Site suitability input conditions for wind power plants, 2020/10/9

91/1660/CD, IEC 63215-2 ED1: Endurance test methods for die attach materials applied to power electronics devices - Part 2: Temperature cycling test method and reliability performance index for Die attach materials applied to discrete type power electronic devices, 2020/10/9

110/1220/CD, IEC 63145-1-2 ED1: Eyewear display - Part 1-2: Generic - Terminology, 2020/9/11

110/1218/CD, IEC 62977-3-7 ED1: Electronic displays - Part 3-7: Evaluation of optical performances - Tone characteristics, 2020/9/11

113/548/DTR, IEC TR 63258 ED1: Nanotechnologies: A guideline for ellipsometry application to evaluate the thickness of nanoscale films, 2020/9/11

116/467/FDIS, IEC 62841-4-3 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-3: Particular requirements for pedestrian controlled walk-behind lawnmowers, 2020/8/28

116/468/FDIS, IEC 62841-4-4 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, 2020/8/28

125/29/NP, PNW 125-29: Personal e-Transporters - Terminology and classification, 2020/10/9

SyCSmartCities/149/NP, PNW TS SYCSMARTCITIES-149: Systems Reference Deliverable (SRD) - Use Case Collection and Analysis - Management of Public Health Emergencies in Smart Cities, 2020/10/9

SyCSmartEnergy/142/DTS, IEC TS 63200 ED1: System Reference Deliverable SRD: Definition of Extended SGAM Smart Energy Grid Reference Architecture, 2020/10/9

JTC1-SC41/162/CDV, ISO/IEC 30147 ED1: Internet of Things (IoT) - Integration of IoT trustworthiness activities in ISO/IEC/IEEE 15288 systems engineering processes, 2020/10/9

Newly Published ISO & IEC Standards

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 6647-1:2020, Rice - Determination of amylose content - Part 1: Spectrophotometric method with a defatting procedure by methanol and with calibration solutions of potato amylose and waxy rice amylopectin, $68.00

ISO 6647-2:2020, Rice - Determination of amylose content - Part 2: Spectrophotometric routine method without defatting procedure and with calibration from rice standards, $68.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO 22772:2020, Space systems - Requirements of launch vehicle (LV) to electrical ground support equipment (EGSE) interfaces, $68.00

BLOCKCHAIN AND DISTRIBUTED LEDGER TECHNOLOGIES (TC 307)

ISO 22739:2020, Blockchain and distributed ledger technologies - Vocabulary, $45.00

CONCRETE, REINFORCED CONCRETE AND PRE-STRESSED CONCRETE (TC 71)

ISO 22904:2020, Additions for concrete, $138.00

CRYOGENIC VESSELS (TC 220)

ISO 23208/Amd1:2020, Cryogenic vessels - Cleanliness for cryogenic service - Amendment 1: Cryogenic vessels - Cleanliness for cryogenic service, $19.00

DENTISTRY (TC 106)

ISO 13017:2020, Dentistry - Magnetic attachments, $68.00

FOUNDRY MACHINERY (TC 306)

ISO 23472-1:2020, Foundry machinery - Vocabulary - Part 1: General, $45.00

INDUSTRIAL TRUCKS (TC 110)

ISO 22915-5:2020, Industrial trucks - Verification of stability - Part 5: Single-side-loading trucks, $68.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

ISO 23363:2020, Electrodeposited coatings and related finishes - Electroless Ni-P-ceramic composite coatings, $68.00

MICROBEAM ANALYSIS (TC 202)

ISO 13067:2020, Microbeam analysis - Electron backscatter diffraction - Measurement of average grain size, $138.00

NUCLEAR ENERGY (TC 85)

ISO 20785-1:2020, Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 1: Conceptual basis for measurements, $162.00

ISO 20785-2:2020, Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 2: Characterization of instrument response, $185.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO 18340:2020, Endoscopes - Trocar pins, trocar sleeves and endotherapy devices for use with trocar sleeves, $68.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO 5165:2020, Petroleum products - Determination of the ignition quality of diesel fuels - Cetane engine method, $138.00

ISO 23581:2020, Petroleum products and related products - Determination of kinematic viscosity - Method by Stabinger type viscometer, $68.00

PHOTOGRAPHY (TC 42)

ISO 18941:2020, Imaging materials - Colour reflection prints - Test method for ozone gas fading stability, $138.00

PLAIN BEARINGS (TC 123)

ISO 12131-1:2020, Plain bearings - Hydrodynamic plain thrust pad bearings under steady-state conditions - Part 1: Calculation of thrust pad bearings, $138.00

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

ISO 13259:2020, Thermoplastics piping systems for underground non-pressure applications - Test method for leaktightness of elastomeric sealing ring type joints, $68.00

ROLLING BEARINGS (TC 4)

ISO 21250-1:2020, Rolling bearings - Noise testing of rolling bearing greases - Part 1: Basic principles, testing assembly and test machine, $103.00

ISO 21250-3:2020, Rolling bearings - Noise testing of rolling bearing greases - Part 3: Test and evaluation method MQ, $138.00

ISO 21250-4:2020, Rolling bearings - Noise testing of rolling bearing greases - Part 4: Test and evaluation method NQ, $68.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 3949:2020, Plastics hoses and hose assemblies - Textile-reinforced types for hydraulic applications - Specification, $103.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO 22256:2020, Traditional Chinese medicine - Detection of irradiated natural products by photostimulated luminescence, $45.00

WATER RE-USE (TC 282)

ISO 23044:2020, Guidelines for softening and desalination of industrial wastewater for reuse, $103.00

ISO Technical Reports

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/TR 17051:2020, Rubber, vulcanized - Guidelines for material specification, $185.00

ISO Technical Specifications

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/TS 21310:2020, Traditional Chinese medicine - Microscopic examination of medicinal herbs, $68.00

IEC Standards

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

IEC 60601-1-6 Ed. 3.2 b:2020, Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability, $352.00

IEC 60601-1-6 Amd.2 Ed. 3.0 b:2020, Amendment 2 - Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability, $47.00

IEC 60601-1-9 Ed. 1.2 b:2020, Medical electrical equipment - Part 1-9: General requirements for basic safety and essential performance - Collateral Standard: Requirements for environmentally conscious design, $293.00

IEC 60601-1-9 Amd.2 Ed. 1.0 b:2020, Amendment 2 - Medical electrical equipment - Part 1-9: General requirements for basic safety and essential performance - Collateral Standard: Requirements for environmentally conscious design, $12.00

IEC 60601-1-10 Amd.2 Ed. 1.0 b:2020, Amendment 2 - Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers, $47.00

IEC 60601-1-10 Ed. 1.2 b:2020, Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers, $410.00

IEC 60601-1-11 Amd.1 Ed. 2.0 b:2020, Amendment 1 - Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment, $23.00

IEC 60601-1-11 Ed. 2.1 b:2020, Medical electrical equipment - Part 1-11: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment, $528.00

IEC 60601-1-12 Amd.1 Ed. 1.0 b:2020, Amendment 1 - Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment, $23.00

IEC 60601-1-12 Ed. 1.1 b:2020, Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment, $469.00

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

IEC 60352-5 Ed. 5.0 en:2020, Solderless connections - Part 5: Press-in connections - General requirements, test methods and practical guidance, $235.00

FIBRE OPTICS (TC 86)

IEC 61280-4-5 Ed. 1.0 en:2020, Fibre-optic communication subsystem test procedures - Part 4-5: Installed cabling plant - Attenuation measurement of MPO terminated fibre optic cabling plant using test equipment with MPO interfaces, $352.00

FUSES (TC 32)

IEC 60127-3 Ed. 3.1 en:2020, Miniature fuses - Part 3: Sub-miniature fuse-links, $293.00

IEC 60127-3 Amd.1 Ed. 3.0 en:2020, Amendment 1 - Miniature fuses - Part 3: Sub-miniature fuse-links, $23.00

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

IEC 62890 Ed. 1.0 en:2020, Industrial-process measurement, control and automation - Life-cycle-management for systems and components, $352.00

INSULATORS (TC 36)

IEC 60120 Ed. 4.0 b:2020, Ball and socket couplings of string insulator units - Dimensions, $235.00

IEC 60372 Ed. 4.0 b:2020, Locking devices for ball and socket couplings of string insulator units - Dimensions and tests, $117.00

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC 63103 Ed. 1.0 en:2020, Lighting equipment - Non-active mode power measurement, $235.00

OTHER

CISPR 36 Ed. 1.0 b:2020, Electric and hybrid electric road vehicles - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers below 30 MHz, $164.00

IEC/SRD 63199 Ed. 1.0 en:2020, Top priority standards development status in the domain of smart energy, $235.00

SEMICONDUCTOR DEVICES (TC 47)

IEC 60749-41 Ed. 1.0 b:2020, Semiconductor devices - Mechanical and climatic test methods - Part 41: Standard reliability testing methods of non-volatile memory devices, $164.00

SWITCHGEAR AND CONTROLGEAR AND THEIR ASSEMBLIES FOR LOW VOLTAGE (TC 121)

IEC 61439-2 Ed. 3.0 en:2020, Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies, $317.00

IEC Technical Reports

INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)

IEC/TR 63164-2 Ed. 1.0 en:2020, Reliability of industrial automation devices and systems - Part 2: System reliability, $164.00

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.

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. 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

Southern California Edison (SCE)

Public Review Ends: August 28, 2020

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

SCTE is currently seeking to broaden the membership base of its consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

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

ANSI Accredited Standards Developers

Reaccreditation

American Welding Society (AWS)

Comment Deadline: August 24, 2020

The American Welding Society (AWS), an ANSI member and Accredited Standards Developer (ASD), has submitted a limited revision to its currently accredited operating procedures for documenting consensus on AWS-sponsored American National Standards, under which it was last reaccredited in 2018. As the revision 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: Mr. Peter Portela, Director, Standards Development, American Welding Society ®, 8669 NW 36th Street #130, Miami, FL 33166; phone: 305.443.9353, x311; e-mail: pportela@aws.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to AWS by August 24, 2020, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: Jthompso@ANSI.org).

ASIS International

Comment Deadline: August 24, 2020

ASIS International, an ANSI member and Accredited Standards Developer, has submitted revisions to its currently accredited operating procedures for documenting consensus on ASIS-sponsored American National Standards, under which it was last reaccredited in 2015. As the current revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Ms. Aivelis Opicka, Manager, Standards Guidelines, ASIS International, 1625 Prince Street, Alexandria, VA 22314-2818; phone: 703.518.1439; e-mail: standards@asisonline.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to ASIS International by August 24, 2020, with a copy to the ExSC Recording Secretary in ANSI's New York Office (jthompso@ANSI.org).

International Organization for Standardization (ISO)

Establishment of ISO Technical Committee

ISO/TC 330 - Surfaces with Biocidal and Antimicrobial Properties

A new ISO Technical Committee, ISO/TC 330 - Surfaces with biocidal and antimicrobial properties, has been formed. The Secretariat has been assigned to France (AFNOR).

ISO/TC 330 operates under the following scope:

Standardization of test methods used to assess the biocidal performance and efficacy of any surfaces with antimicrobial activities, including their compatibility with different families of disinfectants and cleaning agents. Such methods aim at evaluating the biocidal activity (i.e. that which irreversibly inactivates microorganism) and at differentiating it from the biostatic activity (i.e. the inhibition of the growth of microorganisms).

The field covers the assessment of surfaces displaying intrinsic biocidal properties and of surfaces processed by any means so as to deliver biocidal properties under normal environmental conditions for human beings The field targets only surfaces, regardless of their final use.

Areas of interest include medical and veterinary applications, aerospace, agriculture, food, hygiene and other industrial fields, institutional and domestic applications.

Excluded: Toxicological and ecotoxicological surface testing methods, disinfection processes, antimicrobial activities of textile and porous products (including footwear), photocatalysis and nanotechnologies. component and not a material, which can be directly used in electric vehicles, digital cameras, electric motorcycles, etc.

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

ISO/TC 331 - Biodiversity

A new ISO Technical Committee, ISO/TC 331 - Biodiversity, has been formed. The Secretariat has been assigned to France (AFNOR).

ISO/TC 331 operates under the following scope:

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

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

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

ISO/TC 332 - Security Equipment for Financial Institutions

A new ISO Technical Committee, ISO/TC 332 - Security equipment for financial institutions, has been formed. The Secretariat has been assigned to India (BIS).

ISO/TC 332 operates under the following scope:

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

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

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

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

ISO/TC 333 - Lithium

A new ISO Technical Committee, ISO/TC 333 - Lithium, has been formed. The Secretariat has been assigned to China (SAC).

ISO/TC 333 operates under the following scope:

Standardization in the field of lithium mining, concentration, extraction, separation and conversion to useful lithium compounds/materials (including oxides, salts, metals, master alloys, lithium-ion battery materials, etc.) The work program includes terminology, technical conditions of delivery to overcome transport difficulties, unified testing and analysis methods to improve the general quality of lithium products.

Excluded: Battery

Note: Battery is a component and not a material, which can be directly used in electric vehicles, digital cameras, electric motorcycles, etc.

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

ISO Proposal for a New Field of ISO Technical Activity

Reference Materials

Comment Deadline: August 14, 2020

For a number of years, ISO has had a policy development committee named ISO REMCO which has developed a series of ISO Guides for Reference Materials. Recently, the ISO/TMB noted that most, if not all, ISO REMCO Guides should be issued as ISO standards rather than ISO Guides by the nature of their content and intended user community, Therefore, the agreement of ISO REMCO, the ISO/TMB is proposal this new ISO TC on Reference Materials, which is essentially the conversion of ISO REMCO into a TC, with the following scope statement:

Standardization in the competent production and use of reference materials, including the concepts, terms and definitions related to reference materials.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, August 14, 2020.

New Secretariats

ISO/TC 67/SC 4 – Drilling and production equipment

Comment Deadline: August 14, 2020

NACE International has notified ANSI of their intent to relinquish the responsibilities of the ISO/TC 67/SC 4 secretariat. As a result of the U.S. TAG consultation the American Petroleum Institute is willing to assume the secretariat responsibilities and this transfer is supported by the U.S. TAG.

ISO/TC 67/SC 4 operates under the following scope:

Development of standards in the field of Drilling and production equipment within the scope of ISO/TC 67:

Standardization of the materials, equipment and offshore structures used in the drilling, production, transport by pipelines and processing of liquid and gaseous hydrocarbons within the petroleum, petrochemical and natural gas industries.

Excluded:

Aspects of offshore structures subject to IMO requirements (ISO/TC 8).

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

Meeting Notice

ANSI-Accredited Standards Committee R15.08, Industrial Mobile Robot Safety

Meeting Format & Location: Remote via GoToMeeting

Purpose: Series of four 2-hour remote meetings to resolve public comments received on R15.08 Part 1. Later meetings will be canceled if comment resolution is completed early.

Day/Date/Time:

#1 Monday Aug 17, 2:30 - 4:30 EDT / 11:30 - 1:30 PDT

#2 Tuesday Aug 18, 2:30 - 4:30 EDT / 11:30 - 1:30 PDT

#3 Monday Aug 24, 2:30 - 4:30 EDT / 11:30 - 1:30 PDT

#4 Tuesday Aug 25, 2:30 - 4:30 EDT / 11:30 - 1:30 PDT

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

Information Concerning

International Electrotechnical Commission (IEC)

U.S. Representative Needed

SG 13: Working with Consortia

The SMB has approved to expand the scope of SG 13 as follows: *SG 13 to take on board the responsibility of implementing the overall standardization part of item 1.3 (Providing innovative solutions to collaborate with other organizations) of the Masterplan Implementation Plan, and link Conformity Assessment activities with other relevant groups."*

To support SG 13 in its current tasks and broader scope, the leadership of the group is seeking additional members with an interest in assessing and devising ways to collaborate with other organizations including industry consortia. Currently, the US has one representative serving on SG 13. Individuals who are interested in joining SG 13 are invited to contact **Ade Gladstein at agladstein@ansi.org** as soon as possible.

Please see the scope for SG 13 below.

Scope:

Support the Consortia Facilitator in enhancing collaboration between the IEC and consortia and including the following activities:

• Develop a strategic outreach plan to increase the involvement of consortia in IEC work through the National Committee members;

• Support the Consortia Facilitator in the identification of consortia that are potentially suitable for cooperation with the IEC, in particular by gathering inputs from National Committees;

• Develop criteria for identifying consortia with which IEC Committees should engage;

• Develop and maintain guidelines and other documents supporting better collaboration with consortia;

• Support the update of the IEC website with consortia related information;

• Track and monitor consortia related activities under the auspices of the SMB;

• Ensure appropriate collaboration and communication with other IEC Management Boards or groups that have an interest in developing further cooperation with consortia (e.g. SMB SG 11, MSB, CAB);

• Support a survey of consortia to identify new services or products that could be provided to them by the IEC;

• Develop and maintain a roadmap for cooperation models including services and products meetings the needs of consortia while benefiting to the IEC;

• Undertake any other activities that support the implementation of the IEC Masterplan's strategic objective 1.3 "Providing innovative solutions to collaborate with other organizations", item "Foster partnerships with industry consortia wherever there is a market demand"

• Implement the overall standardization part of item 1.3 (Providing innovative solutions to collaborate with other organizations) of the Masterplan Implementation Plan, and link Conformity Assessment activities with other relevant groups.

Information Concerning

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Laboratory Design

Comment Deadline: August 14, 2020

SAC, the ISO member body for China, has submitted to ISO a proposal for a new field of ISO technical activity on Laboratory Design, with the following scope statement:

> *Standardization in the field of laboratory design including site selection, design of internal layout of space and services with the objective to provide functional, safe, energy efficient and sustainable laboratories taking into account environmental impact, the practical division of experimental and support areas and layouts plus model selection of laboratory furniture. It includes standardization of apparatus and devices for personal safety aspects that are an integral part of the laboratory. Design of devices and apparatus for experiment purposes covered by ISO/TC 48 as well as design of measuring instruments are excluded from the scope.*
>
> *Excluded:*
>
> *• ISO/TC 48 (laboratory equipment);*
>
> *• ISO/TC 212 (Clinical laboratory testing and in vitro diagnostic test systems);*
>
> *• CASCO;*
>
> *• IEC/TC 66 (Safety of measuring, control and laboratory equipment);*
>
> *• ISO/TC 209 (Clean rooms).*
>
> *Note:*
>
> *Once the new TC is established, liaisons with other relevant ISO technical committees will be established, including:*
>
> *• ISO/TC 48 (laboratory equipment);*
>
> *• ISO/TC 212 (Clinical laboratory testing and in vitro diagnostic test systems);*
>
> *• CASCO;*
>
> *• ISO/TC 136 (Furniture);*

- *ISO TC 307 (Blockchain and distributed ledger technologies);*
- *ISO/TC 159 (Ergonomics);*

as well as relevant IEC technical committees:

- *IEC/TC 64 (Electrical installations and protection against electric shock);*
- *IEC/TC 81 (Lightning protection);*
- *IEC/TC 85 (Measuring equipment for electrical and electromagnetic quantities);*
- *IEC/TC 45 (Nuclear instrumentation);*
- *IEC/TC 62 (Electrical equipment in medical practice);*
- *IEC/TC 65 (Industrial-process measurement, control and automation);*
- *IEC/TC 76 (Optical radiation safety and laser equipment);*
- *IEC/TC 104 (Environmental conditions, classification and methods of test);*
- *and ISO/IEC JTC 1 (Information technology).*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, August 14, 2020.

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

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

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

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

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

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

Tracking #350i54r1

Revision to NSF/ANSI 350-2019
Issue 54, Revision 1 (July 2020)

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
For Wastewater Technology –

Onsite Residential and Commercial Water Reuse Treatment Systems

•
•
•

5 Design and construction •

•
•

5.12 Backflow prevention

5.12.1 It is common for greywater treatment systems to connect to a treated water supply system for the purpose of topping off the treated water storage tank when needed and sometimes to assist in a treatment function, such as backflush. Units intended to be connected to a water supply system under pressure shall have one of the following:

— an air gap at least twice the diameter of the water supply inlet but not less than 25 mm (1.0 in); or

— a vacuum breaker that conforms to ANSI/ASSE 10015, *Atmospheric Type Vacuum Breakers* (for intermittent pressure conditions); or

— a vacuum breaker that conforms to ANSI/ASSE 10205, *Pressure Vacuum Breaker Assembly* (for continuous pressure conditions); or

— a backflow prevention device that conforms to ANSI/ASSE 10245, *Dual Check Backflow Preventers*; or

— a statement in the installation instruction and on a label permanently affixed to the equipment that clearly indicates that the equipment is to be installed with adequate backflow protection to comply with applicable federal, state, and local codes.

5.12.2 A screen of at least 100 mesh (minimum 100 strands per inch) shall be installed immediately upstream of all check valve type backflow preventers used for water supply protection. The screen shall be accessible and removable for cleaning or replacement.

[Note – the recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by grey highlighting. Rationale Statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard
For Wastewater Technology –

Onsite Residential and Commercial Water Reuse Treatment Systems

3 Definitions

3.X maintenance: Routine activities specified by the manufacturer in O&M manuals on a regular schedule that allow the treatment system to perform as intended.

Examples of maintenance activities include but are not limited to:

- cleaning filters,
- replacing media,
- cleaning screens,
- rebooting operating system following power loss,
- cleaning UV light tubes or;
- filling chemical reservoirs.

Maintenance is carried out by manufacturer trained-personnel, which may include treatment system owners. Maintenance is to be distinguished from repairs, which are not routine and happen only when a component fails.

Normative Annex 1

(formerly Annex A)

Key elements for a field evaluation of a commercial (C) onsite treatment system

N-1.1 General description

A detailed procedure for field evaluation, consistent with the testing and performance evaluation described above in Section 8, *Performance Testing and Evaluation*, shall be developed for each field evaluation. The components shall include the following:

— facility description;
— wastewater source description;
— daily volume of treated reuse water production;
— test duration, minimum of 6 mo;
— sample collection:

  — sample frequency, as per Section 8.4; and
  — specific analyses, influent and effluent, as per Section 8.5.

— performance criteria, as per Section 8.6; and
— final report.

When system maintenance is a normal part of operation, the manufacturer may specify maintenance to be performed at prescribed intervals during testing.

●
●
●

N-1.5 Reporting

At a minimum, reports shall include:

— description of onsite commercial treatment system location(s);
— specifications for the tested system;
— description of typical installation;
— list of key participants;
— complete description of sampling and analytical methods;
— all testing results; and
— rationale for exclusion of data or removal of a system from statistical analysis.
— A list of all maintenance events that includes a description and date for each event.

BSR/UL 268, Standard for Safety for Smoke Detectors for Fire Alarm Systems

PROPOSALS

1. Alternate Corrosion Test

54 Alternate Corrosion Test ~~for Detectors with a Specified Life Not Exceeding 10 Years~~ (21 day)

54.1 The 21-day corrosion test outlined in 54.2 – 54.4 may be conducted in lieu of the Corrosion Test outlined in Section 53. ~~This alternate test method only applies to smoke detectors with a specified life not exceeding 10 years.~~

2. Smoke Alarm IC -- Production Daily Temperature Cycling Sample Test Requirement

Table D3.1
Minimum screening programs

Hermetic and plastic packages	
1. Internal visual (Method 2010.1 condition B modified) _____	100 percent[a]
2. Bond strength (Method 2011) _____	Sample basis[a]
3. Stabilization bake (Method 1008C, 150 °C, 24 hours) _____	100 percent[b]
4. Temperature cycling (Method 1010C, minus 55 °C to 150 °C, 10 cycles _____	100 percent[e]
5. Seal (fine leak, Method 1014B, 5×10^{-8} cc/Sec) _____	100 percent[c]
6. Seal (gross leak - Method 1014B fluorocarbon) _____	100 percent
7. Functional electrical, 25 °C _____	100 percent
8. External visual, Method 2009 _____	100 percent
9. Quality conformance _____	AQL 1.5% per MIL-STD 105 Level II
A. Functional electrical, 25 °C	
B. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles)	
C. Seal (Fine leak, Method 1014B 5×10^{-8} cc/Sec)[d]	
D. External visual, Method 2009	
Plastic packages	
1. Internal visual (Method 2010.1 condition B modified) _____	100 percent[a]
2. Bond strength (Method 2011) _____	Sample basis[a]
3. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles or minus 40°C to 85°C, 43 cycles for package material sets less than 125°C_____	100 percent[e, f]

4. Functional electrical test, 25 °C _____	100 percent
5. External visual, Method 2009 _____	100 percent
6. Quality conformance _____	AQL 1.5% per MIL-STD 105 Level II[g]
A. Functional electrical test, 25 °C	
B. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles)	
C. External visual, Method 2009	
[a] Modified procedures or sample lot sizes shall be submitted for review.	
[b] The stabilization bake shall not be required only when the production process includes equivalent conditioning.	
[c] Shall be reduced to 1.5 percent AQL only when the vendor's first lot of 25,000 units shows statistical justification.	
[d] Shall not be required only when justified by the reject rate in item 5.	
[e] It is permissible to substitute either condition B or C of thermal shock Method 1011.1.	
[f] Shall not be required only when the sample lot used in the burn-in test is subjected to 100 cycles of the temperature cycling or equivalent condition of minus 40°C to 85°C, 430 cycles for package material sets less than 125°C, and no devices fail as a result of the temperature cycling. The manufacturer shall then perform an annual audit of the device package type. It is permissible for this audit to be in the form of choosing samples from the same package type and subjecting them to the Temperature Cycling or Thermal Shock (Method 1010C or 1011.1, Conditions B or C, MIL-STD-883D . Records shall be maintained for inspection. (MIL-STD-883D). Records shall be maintained for inspection.	
[g] Shall not be required only when the demonstrated lifetime reliability quality level of temperature cycling is below 100 ppm. A lifetime reliability quality level of temperature cycling below 100 ppm is demonstrated by 0 failures in 10,000 parts sampled, or equivalent. The quantity of parts sampled can be reduced by applying wear out mechanism acceleration factors, such as increasing the number of temperature cycles or increasing the temperature cycling temperature range applied to the samples.	

3. Correction of Formula in Clause 72.2 (c)

72.2 Six samples of the battery, or sets of batteries when more than one battery is used for primary power, shall be tested under each of the following ambient conditions for a minimum of 1 year while connected to the smoke alarm or a simulated load to which the battery is to supply power:

a) A room ambient temperature of 23 ±2 °C (73.4 ±3.6°F), 30 - 50 percent relative humidity, and 760 mm Hg;

b) High temperature of = (T_{HI} - 38°C) + 45°C or (T_{HI} - 100°F) + 113°F;

c) Low temperature of = (T_{LO} ~~- 0°C~~) ~~or (T_{LO} - 32°F)~~, and

d) Temperature = (T_{HI} - 38°C) + 30°C or (T_{HI} - 100°F) + 86°F, and 85 ±5 percent relative humidity and;

~~e)~~ Where T_{LO} and T_{HI} are the respective low and high end operating temperatures.

4. Correction to Combustible Section (31.1.2.1)

31.1.2.1 In the United States: A cotton lamp wick, nominally 3.2 mm (1/8 inch) in diameter, a minimum of 127 mm (5 inches) long and secured by a thin wire inserted through one end, is to be employed as the source of smoke. Prior to use, the wick is to be conditioned at least 72 hours at 45 °C (113°F) and 10 percent or less relative humidity. It is then to be stored in a desiccator at room temperature and 10 percent or less relative humidity. The wick end is to be cut square and smoldering initiated by momentarily placing the wick end over a horizontally mounted resistive heater element energized to a dull red color. Upon ignition, it is possible for momentary flaming to occur for 1 second, after which the flame is to be extinguished. The wick is then permitted to smolder a minimum of 30 seconds before being placed in the chamber. The smoldering rate of the wick is to be such that the relationship between the MIC output and the percent light transmission remains within the curves illustrated in Figure 2. The visible smoke buildup rate is to be maintained within the limits illustrated in Figure 3 ~~outside the test compartment and the smoke permitted to enter through an inverted funnel-pipe arrangement~~.

5. Editorial Change to Heading in Table D3.1

Table D3.1
Minimum screening programs

Hermetic ~~and plastic~~ packages	
1. Internal visual (Method 2010.1 condition B modified) _____	100 percent[a]
2. Bond strength (Method 2011) _____	Sample basis[a]
3. Stabilization bake (Method 1008C, 150 °C, 24 hours) _____	100 percent[b]
4. Temperature cycling (Method 1010C, minus 55 °C to 150 °C, 10 cycles _____	100 percent[e]
5. Seal (fine leak, Method 1014B, 5×10^{-8} cc/Sec) _____	100 percent[c]
6. Seal (gross leak - Method 1014B fluorocarbon) _____	100 percent
7. Functional electrical, 25 °C _____	100 percent
8. External visual, Method 2009 _____	100 percent
9. Quality conformance _____	AQL 1.5% per MIL-STD 105 Level II
A. Functional electrical, 25 °C	
B. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles)	
C. Seal (Fine leak, Method 1014B 5×10^{-8} cc/Sec)[d]	
D. External visual, Method 2009	
Plastic packages	
1. Internal visual (Method 2010.1 condition B modified) _____	100 percent[a]
2. Bond strength (Method 2011) _____	Sample basis[a]
3. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles or minus 40°C to 85°C, 43 cycles for package material sets less than 125°C_____	100 percent[e, f]

4. Functional electrical test, 25 °C _____	100 percent
5. External visual, Method 2009 _____	100 percent
6. Quality conformance _____	AQL 1.5% per MIL-STD 105 Level II
A. Functional electrical test, 25 °C	
B. Temperature cycling (Method 1010C, minus 55 °C to 125 °C, 10 cycles)	
C. External visual, Method 2009	

[a] Modified procedures or sample lot sizes shall be submitted for review.

[b] The stabilization bake shall not be required only when the production process includes equivalent conditioning.

[c] Shall be reduced to 1.5 percent AQL only when the vendor's first lot of 25,000 units shows statistical justification.

[d] Shall not be required only when justified by the reject rate in item 5.

[e] It is permissible to substitute either condition B or C of thermal shock Method 1011.1.

[f] Shall not be required only when the sample lot used in the burn-in test is subjected to 100 cycles of the temperature cycling or equivalent condition of minus 40°C to 85°C, 430 cycles for package material sets less than 125°C, and no devices fail as a result of the temperature cycling. The manufacturer shall then perform an annual audit of the device package type. It is permissible for this audit to be in the form of choosing samples from the same package type and subjecting them to the Temperature Cycling or Thermal Shock (Method 1010C or 1011.1, Conditions B or C, MIL-STD-883D . Records shall be maintained for inspection. (MIL-STD-883D). Records shall be maintained for inspection.

BSR/UL 797, Standard for *Electrical Metallic Tubing - Steel,*

3. Clarification of Elbow and Bend Radius Requirements, Removal of the Term Mandrel, Removal of Figure 2 and Addition of Exemption for Supplementary Coatings from Bend Test to Better Align with RMC Standard and Editorial Changes

PROPOSAL

5.4.3 The curve of an elbow shall be formed using any suitable bending equipment capable of producing elbows with a radius of the curve to the centerline not less than that referenced in Table 5.2. The curved portion of an elbow shall be smooth and continuous throughout the bend without creases when examined visually under an artificial light source using normal or corrected-to-normal vision. Elbows sharper than 90 degrees are not included in this standard. ~~No elbow shall be sharper than 90 degrees. Tolerances for elbows shall be plus or minus 2 degrees.~~ For each size of tubing, ~~the radius R and~~ the length L_s of the straight portions at the ends of an elbow shall not be smaller than indicated in Table 5.2. See Figure 1 for illustration.

Table 5.2

Minimum Dimensions of Elbows

Metric Designator	Radius R to Centerline of Tubing, mm	Length L_s of Each Straight End Portion of Tubing, mm	Trade Size	Radius R to Centerline of Tubing, for reference only (not a requirement) in	Length L_s of Each Straight End Portion of Tubing, in
16	102	38	1/2	4	1-1/2
21	114	38	3/4	4-1/2	1-1/2
27	146	48	1	5-3/4	1-7/8
35	184	51	1-1/4	7-1/4	2
41	210	51	1-1/2	8-1/4	2
53	241	51	2	9-1/2	2
63	267	76	2-1/2	10-1/2	3
78	330	79	3	13	3-1/8
91	381	83	3-1/2	15	3-1/4
103	406	86	4	16	3-3/8

6.1.2 After being conditioned at a temperature of 0°C (32°F) for 60 min, one specimen of the smallest available trade size of finished tube shall be capable of being bent into a quarter of a circle using any suitable bending equipment capable of producing elbows with a radius of the curve to the centerline not less than that referenced in Table 5.2 ~~around a mandrel~~. The same specimen may also be used to determine compliance with the coating test in Clause 6.2.1.3. Compliance shall be determined by bending the tube using any suitable bending equipment capable of producing elbows with a radius of the curve to the centerline not less than that referenced in Table 5.2 ~~with the test apparatus as shown in Figure 2 with a radius as described in Table 5.2~~. The tube shall not develop a crack and the weld shall not open. The test shall be conducted inside the cold chamber or shall begin within 15 s of removal from the cold chamber. Tubing that is provided with a nonmetallic alternate corrosion-resistant coating and that is marked with a temperature rating below "0°C" ("32°F") shall be conditioned at the rated temperature. The rated temperature shall be any temperature below 0°C (32°F) in 5°C (9°F) increments.

~~6.1.3 Compliance of trade sizes 16 (1/2), 21 (3/4), and 27 (1) EMT with the requirements in Clauses 6.1.1 and 6.1.2 shall be determined by bending the tube with the test apparatus as shown in Figure 2 with a radius as described in Table 5.2. Compliance of EMT larger than trade size 27 (1) with the requirements in Clauses 6.1.1 and 6.1.2 shall be determined by bending the tube with any suitable bending equipment that has a radius as described in Table 5.2.~~

6.2.1.1 The protective coating used on the interior or exterior of the tubing shall not crack or flake, as visible using normal or corrected to normal vision, when a finished specimen of the smallest available trade size produced by the manufacturer is tested at ambient temperature. Testing shall be performed by bending the tubing into a semi-circle, ~~the centerline of which has a radius as described in Table 5.2~~ using any suitable bending equipment capable of producing elbows with a radius of the curve to the centerline not less than that referenced in Table 5.2.

~~6.2.1.2 Compliance of trade sizes 16 (1/2), 21 (3/4), and 27 (1) EMT with the requirement in Clause 6.2.1.1 shall be determined by bending the tube with the test apparatus as shown in Figure 2. Compliance of EMT larger than trade size 27 (1) with the requirement in Clause 6.2.1.1 shall be determined by bending the tube with any suitable bending equipment.~~

6.2.1.3 One specimen of the smallest available trade size of finished tube shall be capable of being bent into a quarter of a circle using any suitable bending equipment capable of producing elbows with a radius of the curve to the centerline not less than that referenced in Table 5.2~~around a mandrel after~~ being conditioned at a temperature of 0°C (32°F) for 60 min. ~~Compliance shall be determined by bending the tube with the test apparatus as shown in Figure 2 with a radius as described in Table 5.2.~~ The tube shall not develop a crack and a weld shall not open. The coatings shall not be damaged to the extent that bare metal is exposed or that the coating separates from the metal.

The test shall be conducted inside the cold chamber or begun within 15 s of removal from the cold chamber. Tubing that is provided with a nonmetallic alternate corrosion-resistant coating and that is marked with a temperature rating below "0°C" ("32°F") shall be conditioned at the rated temperature. The rated temperature shall be any temperature below 0°C (32°F) in 5°C (9°F) increments.

6.2.1.4 The supplementary coating described in Clause 5.3.5 need not comply with 6.2.1.1.

BSR/UL 1277, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members

PROPOSALS

1.2 The conductors for these cables are described in Sections 9.2 (NEC types) and 9.3 (other conductors). Cables are surface marked with the conductor type letters and/or with the temperature and “wet”, “dry”, or “wet or dry” ratings applicable to the insulation. Cables for direct burial are so marked on the surface. Cables that have a sunlight-resistant jacket are surface marked “sun res” or “sunlight resistant”. Cables may include one or more optical-fiber member(s) and are surface marked to so indicate. Cables that are surface marked “oil resistant II” have a jacket that is for exposure to oil at temperatures not in excess of 75° C (167° F). Cables that are surface marked “oil resistant I” have a jacket that is for exposure to oil at temperatures not in excess of 60° C (140° F). Each insulated conductor that is oil resistant II, oil resistant I, VW-1, gasoline-resistant, or has another individual conductor use is individually so marked. Cables that are surface marked "-ER" are for use as exposed runs between a cable tray and utilization equipment where the cables are continuously supported and protected against physical damage using mechanical protection such as struts, angles, or channel, or for use as a service entrance cable as described in Article 230.43(20) in the NEC.

20 Sunlight-Resistance Test

20.1 Finished cable marked -ER and cables whose overall jacket is marked [see 30.1(h)] to indicate that the cable is for use in sunlight is to be considered acceptable for sunlight-resistant use if the ratio of the average tensile strength and ultimate elongation of five conditioned specimens of the overall jacket to the average tensile strength and ultimate elongation of five unconditioned specimens of the overall jacket is 0.80 or more when the jacket from the finished cable is conditioned and tested as indicated in the test, Weather (sunlight resistance) described in UL 2556 using 720 h of xenon-arc exposure.

26 Pulling-Through-Joists Test

26.1 Finished cable marked -ER shall each be constructed to withstand the low-temperature pulling through joists described in 26.2 – 26.9 without any opening occurring in the jacket that exposes the cable interior (see 26.7 and 26.8), without any change in the position of the grounding conductor that results in the metal of the grounding conductor touching the insulation on a circuit (see 26.9), and without physical damage to the insulation (see 26.9). Samples containing two or three insulated 14 or 12 AWG copper or 12 AWG aluminum or copper-clad aluminum circuit conductors with a grounding conductor shall be tested and shall be considered representative of the entire range of number of conductors and conductor sizes.

26A Overload Test of Uninsulated Conductor in Type TC-ER Cable

26A.1 A Type TC-ER cable containing the following shall not flame or rupture while a current of 300 A is flowing through the uninsulated conductor for 60 min as described in 26A.2.

a) Two parallel insulated 6 AWG copper conductors and a 6 AWG concentric copper uninsulated conductor or two parallel insulated 4 AWG aluminum or copper-clad aluminum conductors and a 4 AWG concentric aluminum or copper-clad aluminum uninsulated conductor.

b) Three insulated 6 AWG copper conductors and a 6 AWG copper uninsulated conductor or three insulated 4 AWG aluminum or copper-clad aluminum conductors and a 4 AWG aluminum or copper-clad aluminum uninsulated conductor.

26A.2 One 11 ft or 3.5 m specimen of finished cable with 6 in or 150 mm of the overall covering removed from each end is to be placed in a straight, open (open top and ends), flat-bottomed trough with side walls to retain any hot material. The trough is to be made of soft wood nominally 3/4 in or 20 mm thick; is to be lined with fire-resistant, chemically-inert, and electrically-nonconductive sheeting; and is to have inside dimensions of approximately 12 ft by 10 in wide by 9 in deep or 3-3/4 m by 250 mm wide by 225 mm deep. At each end of the specimen, connection (by means of a connector intended for the purpose) is to be made between a source of alternating or direct current and the uninsulated conductor. A current of 300 A is to be maintained in the cable for 60 min. Any cable from which a specimen flames or the jacket ruptures during the 60 min does not comply with the overload test.

BSR/UL 1598A, Standard for Safety for Supplemental Requirements for Luminaires for Installation on Marine Vessels

1. Revision to expand the scope of the Standard to include low voltage marine luminaires and emergency lighting marine luminaires

   1.1 These requirements are supplementary to other applicable requirements in the Standard for Luminaires, UL1598 and other luminaire standards, to qualify the luminaire for installation on marine vessels. ~~References to requirements in UL 1598 are in *italics* for easy identification.~~

   [Informational note: Most fixed installation luminaires are evaluated for compliance with the Standard for Luminaires, UL 1598. References to requirements in UL 1598 are in *italics* for easy identification. Luminaires evaluated to UL 2108, Standard for Low Voltage Lighting Systems, and UL 924, Standard for Emergency Lighting Equipment, are also eligible to apply the supplementary UL 1598A requirements.]

   1.3 These requirements do not apply to marine lighting luminaires for use in hazardous locations, as defined in the National Electrical Code, ANSI/NFPA 70~~, emergency lighting marine luminaires, or low voltage marine luminaires (less than 50 volts) supplied solely by a battery, transformer, converter, or similar power supply source~~.

2. Revision to the requirements for wiring and conductors

   12.1 ~~All~~ Luminaire ~~wiring and~~ conductors longer than 18 inches, or a conductor terminated at a movable or flexible part, shall be stranded.

   ~~12.2 Solid conductors meet the intent of the 12.1 requirement when ballast leads do not exceed 127 mm (5 inches) in length~~.

3. Revision to the requirements for the use of fuses

   10.3 A renewable fuse shall not be provided in a luminaire, except as protection internal to a ballast.

BSR/UL 1651, *Standard for Safety for Optical Fiber Cable*

For your convenience in review, proposed additions to the previously proposed requirements dated 2020-02-03 are shown underlined and proposed deletions are shown ~~lined-out~~.

1. *Temperature Ratings*

PROPOSAL

1 Scope

1.1 These requirements cover single and multiple optical-fiber cables for control, signaling, and communications, rated a minimum of 60°C, as described in Article 770 and other applicable parts of the National Electrical Code (NEC). Cables complying with these requirements are:

Remainder deleted for brevity

11.1 Ink printing of the responsible organization and factory identifications required in 15.1(b) and in 15.4 is acceptable on the outer surface of a cable if the printing on each of 2 specimens of the ink-printed jacket remains legible after being rubbed repeatedly with a felt-faced weight as described in Durability of Ink Printing Test, UL 2556 ~~(room temperature aging only).~~ (The aging temperature shall be the same as for the Flexibility Test. For cables rated 60°C, room temperature only)

12A Flexibility Test

12A.1 For cables rated higher than 60°C, aged specimens of optical fiber cable shall not show any cracks on either the inside or outside surface after specimens are wound onto a cylindrical mandrel of the diameter indicated in 12A.2.

12A.2 The specimens that are to be aged in accordance with the test “Conditioning of Specimens,” described in UL 2556 for the length of time and at the temperature indicated for the jacket material in the applicable table of physical properties in UL 1581. The conditioning shall be followed by 16 to 96 h of rest in still air at room temperature before the specimens are wound onto a mandrel. The aged specimens shall be wound at room temperature for six complete turns (adjacent turns touching) onto a circular mandrel having a diameter twice that of the diameter over the overall jacket.

Each specimen shall be unwound before being examined.

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

1. Suitable for Current Interruption under Load Conditions

PROPOSAL

INTRODUCTION

1 Scope

1.1 These requirements cover devices intended for inter-connection of equipment, sensors, and actuators in remote-control, signaling, and power-limited circuits. Included are cable assemblies and fittings, feeder-tap cable systems, feed-through connectors, multi-outlet fittings, panel-mount fittings, and splitters. ~~These devices are not intended for disconnect means~~. These devices are rated not more than 60 A and not more than 600 V.

1.1.1 These devices are not intended for disconnect means and are marked as described in 40.1.6.

1.1.2 Devices may be investigated for use as a disconnecting means under load conditions, if so requested and the device complies with the overload, temperature, resistance to arcing and dielectric voltage withstand testing as described in Table 18.1.

Table 18.1
Summary of tests

Section	Test	Number of Devices	Details
19	Mold Stress-Relief Distortion Test	3	–
20	Moisture Absorption Test	3	Only applies to devices employing vulcanized fiber
21	Dielectric Voltage-Withstand Test	3	–
22	Insulation Resistance Test	1	Conducted on devices employing rubber or similar materials that contain enough free carbon to render the material grey or black in color
23	Conductor Secureness Test	3	Crimped connections only
24	Strain-Relief – A. Cord to Fitting Test B. Feeder-Tap Cable Systems Test	6	
24A	Overload test	3	Devices intended for current interruption under load conditions.
25	Temperature Test	3	Mated pairs. For devices intended for current interruption under load conditions same 3 previous subjected to Overload testing as used.
25A	Resistance to Arcing	Same 3	For devices intended for current interruption under load conditions are used.
26	Current- Cycling and Vibration Test	6	Mated pairs
27	Jacket Retention Test	3	Molded-on devices
28	Polarization Test	1	–
29	Adhesion Test	1	
30	Environmental Enclosure	–	See the Standard for Enclosures for Electrical Equipment, Environmental Considerations, UL 50E for that type rating.

Section	Test	Number of Devices	Details
31	Grounding Impedance Test	1	Mated pair
32	Fault Current Test	2	Mated pairs
33	Cable Pullout Test (For Pin Type or Insulation Displacement Type Terminals)	6	Assembled-on devices Additional samples may be necessary based upon maximum AWG size conductor
33	Creep Test (For Pin Type or Insulation Displacement Type Terminals)	3	Assembled-on devices Additional samples may be necessary based upon size and type of cable
35	Comparative Tracking Index Test	3	Material to be evaluated in accordance with Exception No. 2 of 7.3.2.1
36	Glow Wire Test	3	Material to be evaluated in accordance with Exception No. 2 of 7.3.3.1
37	High-Current Arc Resistance to Ignition Test	3	Material to be evaluated in accordance with Exception No. 2 of 7.3.4.1
37.2	Strength of Insulation Base Test	6	Device employing pressure-wire terminals for field connection.
37.3	Grounding (Bonding) Path Current Test	1	Mated pair
37.4	Assembly Test	6	Assembled-on devices Additional samples may be necessary based upon size and type of cable
37.5.1	Accelerated Aging (Rubber, EPDM, or TEE compound) Test	6	–
37.6	Accelerated Aging (PVC compounds and copolymers) Test	6	–
37.7	Crushing Test (Valve connectors only)	6	Valve connectors only
37.8	Impact Test (Valve Connectors Only)	6	Valve connectors only
37.9	Low Temperature Test (Valve Connectors Only)	6	–
37.10	Permanence of Flag Type cord or cable tag Test	6	Samples with flag or cord tag label
37.11	Permanence of Wrap Around Cord or Cable Label Test	6	Samples with label

PERFORMANCE

24A Overload Test

24A.1 A female device shall perform acceptably when subjected to an overload test as described in 24A.3 – 24A.11. There shall not be any electrical or mechanical failure of the device nor pitting or burning of the contacts that would affect the intended function. The grounding fuse shall not open during the test.

24A.2 A device that is intended not for current interruption and is marked in accordance with 40.1.6 need not be subjected to this test.

24A.3 A mating device is to be inserted and withdrawn either manually or by machine while connected to a suitable load. The equipment grounding contact is to be connected to ground through a fuse.

24A.4 For ac applications, the test current shall be 6 times device full-load current with a power factor of 0.4 – 0.5.

24A.5 For dc applications the test current shall be 10 times device full-load current with a non-inductive resistive load.

24A.6 The full load current (FLA) shall be based upon the device voltage rating and Hp rating assigned by the manufacturer. See the Standard for Industrial Control Equipment, UL 508, the Full-load Motor-running Currents in Amperes Corresponding to Various a-c Horsepower Ratings Table and the Full-load Motor-running Currents in Amperes Corresponding to Various d-c Horsepower Ratings Table for details.

24A.7 The potential of the test circuit closed voltage is to be from 100 – 110% of the rating of the device in volts.

24A.8 Each device shall be subjected to 50 cycles of operation at a rate not higher than 10 cycles/min. The device is to be rigidly supported. For devices that employ multiple circuits, all circuits at their given ampacity are to be tested simultaneously. Exposed metal parts and any pole that is not part of the test circuit are to be connected through a fuse to ground of the test circuit.

24A.9 The fuses in the test circuit shall be non-time-delay, general use, cartridge type fuses. The fuse in the grounding (bonding) conductor circuit shall have a 15-A rating if the device under test is rated at 30 A or less. If the device under test is rated at more than 30 A the grounding fuse shall have a rating of 30 A. For the line fuse, the next higher commercial fuse rating than the value of the test current in the test circuit shall be used.

24A.10 A previously untested male contact device is to be used for each overload test.

Exception: One device may be used for all of the overload tests if agreeable to all concerned.

24A.11 Contacts of the device are not to be adjusted, lubricated, or otherwise conditioned before or during the test.

24A.12 After this test, the device shall be subjected to the Dielectric Voltage-Withstand Test in Section 21.

25 Temperature Test

25.1 A device tested as described in 25.2 – 25.5 shall not attain a temperature at any point sufficiently high:

a) To constitute a risk of fire,

b) To adversely affect any material employed in the device,

c) To exceed a temperature rise more than 30°C (54°F), or

Exception: A temperature rise on an insulating material greater than 30°C (54°F) is acceptable if the temperature does not exceed the Relative Thermal Index (mechanical with impact) of the insulating material when the device is carrying maximum rated current.

d) To exceed the thermal rating of a flexible cord.

e) For devices intended for current interruption, to exceed a temperature rise more than 30°C when the device is carrying its maximum rated current. This temperature rise is based on devices

intended to be wired with conductors rated 60°C. A temperature rise of 45°C shall be permitted when the device is intended to be wired with conductors rated 75°C or higher, and so marked. See 40.1.16.

25.2 The temperature test shall be performed following the overload test, if applicable, on the same test samples.

25.7 After this test, devices intended for current interruption under load conditions shall be subjected to the Dielectric Voltage Withstand Test in Section 21.

25A Resistance to Arcing Test

25A.1 The same samples previously subjected to overload, temperature, dielectric voltage withstand testing shall be subjected to an additional 200 cycles of operation under the overload test conditions.

25A.2 The mating device (plug portion) used for this test may be changed after every 50 operations. There shall not be any sustained flaming of the material in excess of five seconds duration. There shall not be any electrical tracking or the formation of a permanent carbon conductive path which results in a dielectric breakdown, as determined by the Dielectric Voltage-Withstand Test, Section 21, applied for one minute between live parts of opposite polarity and between live parts and dead metal parts.

MARKINGS

40 Details

40.1.6 A device shall be marked with the following or with an equivalent statement, "Not for current interrupting" or "For disconnecting use only."
Exception: A device that has been investigated and complies with the overload, temperature, and resistance to arcing testing, as described in Table 18.1 are not marked as described in 40.1.6.

41.2 Wiring information – field wiring terminals

41.2.4 Devices intended for use with conductors rated 167°F (75°C) or higher and so marked shall not intermate with similar devices not so marked. If the device is rated 100 A or less and is intended for use with conductors having 167°F (75°C) insulation, the device shall be marked with the temperature rating of the insulation. If a device is intended for use with conductors having a temperature rating higher than 140°F (60°C) but is intended to be used based on 140°F (60°C) ampacities, the minimum conductor size shall be indicated on the device, as well as on the smallest unit shipping carton, or on an instruction sheet provided in the carton.