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Project Initiation Notification System (PINS)

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

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

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

AARST (American Association of Radon Scientists and Technologists)

527 Justice Street | Hendersonville, NC 28739 www.aarst.org

Contact: Gary Hodgden; StandardsAssist@gmail.com

Revision

BSR/AARST RMS-MF-202x, Radon Mitigation Standards for Multifamily Buildings (revision of ANSI/AARST RMS-MF-2020)

Stakeholders: Stakeholders include: state health departments and radon programs; national proficiency programs; consumers of mitigation services; private measurement, inspection and mitigation companies; manufacturers and vendors of mitigation products; educators and universities; US agencies such as the USEPA and other national and international agencies concerned with soil gas entry into buildings.

Project Need: Harmonization of content in mitigation standards AARST SGM-SF (homes), RMS-MF (multifamily buildings) and RMS-LB (schools and large buildings) is underway. Work published in AARST SGM-SF relative to soil gas hazards other than radon needs to be harmonized into this standard for application to multifamily buildings.

Scope: This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors or other hazardous soil gases that are present within existing multifamily buildings.

AARST (American Association of Radon Scientists and Technologists)

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Revision

BSR/AARST RMS-LB-202x, Radon Mitigation Standards for Schools and Large Buildings (revision of ANSI/AARST RMS-LB-2020)

Stakeholders: Stakeholders include: state health departments and radon programs; national proficiency programs; consumers of mitigation services; private measurement, inspection and mitigation companies; manufacturers and vendors of mitigation products; educators and universities; US agencies such as the USEPA and other national and international agencies concerned with soil gas entry into buildings.

Project Need: Harmonization of content in mitigation standards AARST SGM-SF (homes), RMS-MF (multifamily buildings) and RMS-LB (schools and large buildings) is underway. Work published in AARST SGM-SF relative to soil gas hazards other than radon needs to be harmonized into this standard for application to schools and large buildings.

Scope: This standard of practice specifies minimum requirements for methods that mitigate risks to occupants posed by radon gas, chemical vapors or other hazardous soil gases that are present within existing schools and large buildings.

ACP (American Clean Power Association)

1501 M Street NW, Suite 900 | Washington, DC 20005 www.cleanpower.org

Contact: Michele Mihelic; standards@cleanpower.org

New Standard

BSR/ACP 111-1-202x, Wind Turbine Sound Modeling (new standard)

Stakeholders: Clean-power stakeholders, operators, owners, developers, OEMs, contractors, subcontractors, independent service providers, and all other impacted stakeholders.

Project Need: The purpose of this standard is to establish a uniform set of modeling parameters for the ISO 9613 propagation modeling procedures to ensure a uniform and comparable basis.

Scope: Modeling of wind turbine sound levels at far-field positions (e.g., residences) is conducted to support pre-construction, permitting analysis as well as various research efforts. The purpose of this standard is to establish a uniform set of modeling parameters for the ISO 9613 propagation modeling procedures to ensure a uniform and comparable basis. The establishment of these standard modeling parameters does not imply that work conducted prior to the establishment of this standard is incorrect. Rather, the intent of this standard is to avoid potential future confusion by providing consistency of predicted sound levels published in research or permitting documentation, given the potential for different modeling parameter settings to yield different results.

ASA (ASC S1) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300 | Melville, NY 11747 www.acousticalsociety.org

Contact: Raegan Ripley; standards@acousticalsociety.org

Revision

BSR/ASA S1.25-1991 (R202x), Standard Specification for Personal Noise Dosimeters (revision of ANSI/ASA S1.25-1991 (R2020))

Stakeholders: Instrument manufacturers; businesses offering personal noise measurement and OSHA compliance as a service; Regulatory agencies such as OSHA and NIOSH; Insurance companies; Rental companies offering personal noise dosimeters; Industries where workers are exposed to potentially harmful levels of noise such as Manufacturing, Mining, Chemical, Construction, and many others.

Project Need: ANSI S1.25 was last revised in 1991 and needs to be updated in order to address changes in technology.

A preliminary but not inclusive list of items to be considered is:

- Add reference standards;
- Update to address digital technology in current products;
- Address measurement uncertainty;
- Add requirements for RF susceptibility and emissions;
- Clearly define testing requirements for demonstration of compliance with the standard;
- Consider new technologies such as MIRE;
- Review marking requirements where devices are small; and
- Consider proposing kurtosis as an alternative or augmenting measure of noise exposure.

Scope: This standard contains requirements for a personal noise dosimeter used to measure individual exposure to noise. This measurement is typically performed over a complete work shift. After revision, the intention is to submit ANSI S1.25 to IEC TC 29 for inclusion in IEC 61252 as an alternative method for determining noise exposure.

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B | New York, NY 10016-5990 www.asme.org

Contact: Terrell Henry; ansibox@asme.org

New Standard

BSR/ASME FE.1-202x, Rules for Construction of Fusion Energy Devices (new standard)

Stakeholders: Designers, general interest, laboratory, producers/manufacturers, regulatory/government, consultants, and users.

Project Need: To provide industry with rules for the construction of Fusion Energy Devices.

Scope: There is an ongoing effort within The American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel (BPV) Committee on Construction of Nuclear Facility Components (Section III) to develop rules for the construction of fusion energy devices. The Standards Committee of Section III, Division 4 and its Subgroup on Fusion Energy Devices (FED) are developing these new fusion Code rules. These rules cover fusion-energy-related components such as vacuum vessels, cryostats, and superconducting magnet structures and the interactions of these components. Related support structures, including metallic and nonmetallic materials, containment or confinement structures, and in-vessel components such as fusion-system piping, vessels, valves, pumps, and supports, are also covered. The rules contain requirements for materials, design, fabrication, testing, examination, inspection, certification, and stamping.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Rakesh Gupta; gupta@aws.org

Revision

BSR/AWS A5.2/A5.2M-202X, Specification for Carbon and Low-Alloy Steel Rods for Oxyfuel Gas Welding (revision of ANSI/AWS A5.2/A5.2M-2018)

Stakeholders: Welding industry.

Project Need: Updating for new practices.

Scope: This specification prescribes the requirements for classification of carbon and low-alloy steel rods for oxyfuel gas welding. The classification requirements include the mechanical properties of the weld metal. Additional requirements are included for chemical composition of the rod and for manufacture, sizes, lengths, and packaging. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of the rods. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

AWS (American Welding Society)

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Revision

BSR/AWS A5.14/A5.14M-202x, Specification for Nickel and Nickel-Alloy Bare Welding Electrodes and Rods (revision of ANSI/AWS A5.14/A5.14M-2018)

Stakeholders: Welding industry.

Project Need: Updating based on new practices.

Scope: The chemical compositions of 57 nickel and nickel-alloy welding electrodes and rods are specified, including six compositions not previously classified. Major topics include general requirements, testing, packaging, and application guidelines. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

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Revision

BSR/AWS A5.20/A5.20M-202x, Specification for Carbon Steel Electrodes for Flux-Cored Arc Welding (revision of ANSI/AWS A5.20/A5.20M-2021)

Stakeholders: Welding industry.

Project Need: Updating based on new practices.

Scope: This specification prescribes the requirements for classification of carbon steel electrodes for flux-cored arc welding. The requirements include chemical composition and mechanical properties of the weld metal and certain usability characteristics. It also includes optional supplemental designators for lower temperature toughness requirements, diffusible hydrogen limits, and shielding gas range designators. Additional requirements are included for standard sizes, marking, manufacturing, and packaging. A guide is appended to the specification as a source of information concerning the classification system employed and the intended use of carbon steel flux-cored electrodes. This specification makes use of both U.S. Customary Units and the International System of Units (SI). Since these are not equivalent, each system must be used independently of the other.

AWS (American Welding Society)

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Revision

BSR/AWS B2.1-1-210-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, INMs-1, and ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1-210-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual gas tungsten arc welding with consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

AWS (American Welding Society)

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Revision

BSR/AWS B2.1-1-211-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, INMs-1, ER70S-2, and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1-211-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual gas tungsten arc welding with consumable insert root, followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-8-024-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/16 through 1-1/2 inch Thick, ER3XX, As-Welded Condition Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-8-024-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/16 inch through 1-1/2 inches, using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

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Revision

BSR/AWS B2.1-8-025-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-8-025-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

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Revision

BSR/AWS B2.1-8-212-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/16 through 1-1/2 inch Thick, ER3XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-212-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/16 inch through 1-1/2 inches, using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-8-213-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-213-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-8-214-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-214-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-8-215-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, IN3XX and ER3XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-215-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual gas tungsten arc welding with consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-8-216-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, IN3XX, ER3XX, and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-216-2012)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 11/8 inch through 1-1/2 inches, using manual gas tungsten arc welding with consumable insert root followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-1/8-227-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 through 1-1/2 inch Thick, ER309(L), As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-227-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for carbon steel to austenitic stainless steel in the thickness range of 1/16 inch through 1-1/2 inches, using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-1/8-228-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, E309(L)-15, -16, or -17, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-228-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-1/8-229-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 through 1-1/2 inch Thick, ER309(L) and E309(L)-15, -16, or -17, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-229-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 1/8 inch through 1-1/2 inches,, using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-1/8-230-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 through 1-1/2 inch Thick, IN309 and ER309(L), As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-230-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 1/16 inch through 1-1/2 inches, using manual gas tungsten arc welding with consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

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Revision

BSR/AWS B2.1-1/8-231-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN309, ER309(L), and E309(L)-XX, in the As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-231:2015)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inches [38 mm], using manual gas tungsten arc welding, with consumable insert root, followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This SWPS was developed primarily for pipe applications.

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Stabilized Maintenance

BSR/AWS B2.1-1-003-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Galvanized Steel (M-1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-003-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding galvanized steel in the thickness range of 18 through 10 gauge, using semiautomatic gas metal arc welding (short circuiting transfer mode). It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds and fillet welds.

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Stabilized Maintenance

BSR/AWS B2.1-1-004-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel, (M-1, Group 1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-004-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel in the thickness range of 18 through 10 gauge, using semiautomatic gas metal arc welding (short circuiting transfer mode). It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

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Stabilized Maintenance

BSR/AWS B2.1-1-007-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Galvanized Steel (M-1), 18 through 10 Gauge, in the As-Welded Condition with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-007-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding galvanized steel in the thickness range of 18 through 10 gauge using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

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Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-1-008-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1, P-1, or S-1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-008-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel in the thickness range of 18 through 10 gauge using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-1-011-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Galvanized Steel (M-1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-011-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding galvanized steel in the thickness range of 10 through 18 gauge, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-1-012-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel, 10 through 18 Gauge (M-1, P-1, or S-1 to M-1, P-1, or S-1), in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-012-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding galvanized steel in the thickness range of 10 through 18 gauge, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-8-005-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Austenitic Stainless Steel (M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-005-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding austenitic stainless steel in the thickness range of 18 through 10 gauge, using semiautomatic gas metal arc welding (short circuiting transfer mode). It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-8-009-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-009-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding austenitic stainless steel in the thickness range of 18 through 10 gauge using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-8-013-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-013-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding austenitic stainless steel in the thickness range of 18 through 10 gauge using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-1/8-006-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel to Austenitic Stainless Steel (M-1 to M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1/8-006-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 18 through 10 gauge, using semiautomatic gas metal arc welding (short circuiting transfer mode). It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Stabilized Maintenance

BSR/AWS B2.1-1/8-014-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel to Austenitic Stainless Steel (M-1 to M-8/P-8/S-8, Group 1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1/8-014-2002 (R2013))

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for welding carbon steel to austenitic stainless steel in the thickness range of 10 through 18 gauge using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet welds and groove welds.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Revision

BSR/AWS NAVSEA B2.1-1-302-202x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (revision of ANSI/AWS NAVSEA B2.1-1-302-2015)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inches [38 mm], using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

AWS (American Welding Society)

8669 NW 36th Street, Suite 130 | Miami, FL 33166-6672 www.aws.org

Contact: Jennifer Rosario; jrosario@aws.org

Revision

BSR/AWS NAVSEA B2.1-1-312-202x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (revision of ANSI/AWS NAVSEA B2.1-1-312 -2015)

Stakeholders: Manufacturers, welders, engineers, CWIs.

Project Need: Need for pretested welding procedures that satisfy the technical requirements for the commonly used construction codes and specifications.

Scope: This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and joint designs for groove and fillet welds. This SWPS-N was developed primarily for naval applications that require performance to NAVSEA Technical Publication S9074-AQ-GIB-010/248, Requirements for Welding and Brazing Procedure and Performance Qualification.

CSA (CSA America Standards Inc.)

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

Contact: Debbie Chesnik; ansi.contact@csagroup.org

Addenda

BSR/CSA NGV 3.1 Addenda-202x, Fuel system components for compressed natural gas powered vehicles (addenda to ANSI/CSA NGV 3.1-2020)

Stakeholders: Industry, manufacturers, consumers, certification agencies.

Project Need: Clarify requirements for rigid fuel lines.

Scope: This Standard establishes requirements for newly produced compressed natural gas fuel system components, intended for use on natural-gas-powered vehicles.

FM (FM Approvals)

1151 Boston-Providence Turnpike | Norwood, MA 02062 www.fmglobal.com

Contact: Josephine Mahnken; josephine.mahnken@fmaprovals.com

Revision

BSR/FM 1950-202x, Seismic Sway Braces for Pipe, Tubing, and Conduit (revision of ANSI/FM 1950-2016)

Stakeholders: Authorities Having Jurisdiction, general public, commercial building owners, insurance companies.

Project Need: This revision of the standard updates the safety factor and resistance factor to match other industry standards.

Scope: This standard includes design and performance requirements for seismic sway bracing used to restrain piping, tubing, and conduit. General and performance requirements apply to components that are attached to the structural element and to the piping, tubing, and conduit. Although used in testing, the "brace member" attached between the structural attached component and piping attached component is not included within the scope of this standard.

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

700 K Street NW, Suite 600 | Washington, DC 20001 www.incits.org

Contact: Deborah Spittle; comments@standards.incits.org

National Adoption

INCITS/ISO/IEC 21836:2020 [202x], Information technology - Data centres - Server energy effectiveness metric (identical national adoption of ISO/IEC 21836:2020)

Stakeholders: ICT industry.

Project Need: Adoption of this International Standard is beneficial to the ICT industry

Scope: Specifies a measurement method to assess and report the energy effectiveness of a computer server. This document does not set any pass/fail criteria for servers.

PHTA (Pool and Hot Tub Alliance)

2111 Eisenhower Avenue, Suite 500 | Alexandria, VA 22314 www.PHTA.org

Contact: Genevieve Lynn; standards@phta.org

Revision

BSR/APSP/ICC 16-202x, Standard for Suction Outlet Fitting Assemblies (SOFA) for Use in Pools, Spas and Hot Tubs (revision of ANSI/APSP/ICC 16-2017)

Stakeholders: Storable pool manufacturers and their retail users.

Project Need: A rule issued by the United States Consumer Product Safety Commission (CPSC) on August 18, 2020, states that drain covers manufactured on or after May 24, 2021, must comply with ANSI/APSP/ICC-16 2017 to provide minimum guidelines for testing, product-marking requirements, and installation and maintenance instructions.

Additional language on Storable Pool Integral Suction Outlet Fitting Assemblies (SOFA) is included in this revision of the ANS.

Scope: Unique circumstances involving the distribution of Storable Pool Integral Suction Outlet Fitting Assemblies (SOFA) not addressed in the ANSI/APSP/ICC-16 2017 standard for Suction Outlet Fitting Assemblies (SOFA) for Use in Pools, Spas and Hot Tubs safety standard were addressed in a Provisional Amendment approved by ANSI on March 19, 2021. A suction outlet fitting assemblies testing issue exists for packaged aboveground/onground storable pool sets relating to ANSI/APSP/ICC-16 2017.

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway South, Suite 115 | Peachtree Corners, GA 30092 www.tappi.org

Contact: William Millians; standards@tappi.org

New Standard

BSR/TAPPI T 525 om-202x, Diffuse brightness of paper, paperboard and pulp (d/0) - Ultraviolet level C (new standard)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products, consumers or converters of such products, and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI standard.

Scope: This method is for the determination of the brightness of white, near-white, and naturally colored pulp, paper, and paperboard. "Brightness" is a commonly used industry term for the numerical value of the reflectance factor of a sample with respect to blue light of specific spectral and geometric characteristics. This method requires an instrument employing diffuse illumination and 0° viewing geometry. This method is applicable to all naturally colored pulps, and papers and board made therefrom. The measurement is not suitable for paper or paperboard containing added coloring matter (such as yellow or green dyestuff) which appreciably absorbs light in that part of the spectrum extending from about 400 to 500 nm. This brightness method is not applicable to colored papers. Pulps to be tested shall be made into handsheets prepared according to TAPPI T 218 "Forming Handsheets for Reflectance Tests of Pulp (Büchner Funnel Procedure)" or T 272 "Forming Handsheets for Reflectance Tests of Pulp (Sheet Machine Procedure)." This method can also be used to measure the brightness of machine-dried sheets.

UL (Underwriters Laboratories)

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

Contact: Elizabeth Northcott; Elizabeth.Northcott@ul.org

New Standard

BSR/UL 4041-202x, Standard for Safety for Outdoor Furniture (new standard)

Stakeholders: Consumers, outdoor furniture manufacturers, outdoor furniture retailers.

Project Need: This proposed ANSI/CAN/UL Standard is a joint standard for the Canadian and the U.S market. This standard will support and strengthen the Canadian and U.S. economy and the standard of living of its citizens, who depend on the ability of Canadian and U.S. businesses to compete in domestic and global markets and support innovation in the face of increasing globalization and competition from foreign producers. From an environmental perspective, the implementation and maintenance of the requirements of this Standard will result in benefits of the STP continually improving the choices available to the end user. This activity leads to improved designs and innovative implementation opportunities that support sustainable development objectives to create safe communities in Canada. This ANSI/CAN/UL Standard is a joint standard for Canada and U.S. This ANSI/CAN/UL Standard will be used to support certification programs in Canada and the U.S.

Scope: Proposed adoption of the first edition of the Standard for Outdoor Furniture, UL 4041, as a UL standard for the U.S. and Canada.

Call for Comment on Standards Proposals

American National Standards

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: October 17, 2021

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum k to BSR/ASHRAE Standard 154-202x, Ventilation for Commercial Cooking Operations (addenda to ANSI/ASHRAE Standard 154-2016)

Addendum k makes changes to Section 5.5.3 to reflect the latest listing requirement for pollution control units (PCUs) for commercial cooking applications and harmonizes this requirement with IMC 2021, Section 506.5.2.

Also, UL 8782 is added to the reference section.

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

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

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum l to BSR/ASHRAE Standard 154-202x, Ventilation for Commercial Cooking Operations (addenda to ANSI/ASHRAE Standard 154-2016)

This addendum adds requirements in the standard for equipment installed inline commercial grease ducts and the stated requirements in agreement with IMC 2021 and NFPA 96-2021.

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

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

Comment Deadline: October 17, 2021

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

180 Technology Parkway, Peachtree Corners, GA 30092 | cking@ashrae.org, www.ashrae.org

Addenda

BSR/ASHRAE Addendum m to BSR/ASHRAE Standard 154-202x, Ventilation for Commercial Cooking Operations (addenda to ANSI/ASHRAE Standard 154-2016)

This addendum is in response to COVID and variant pandemic concerns. Standard 62.1 allows use of outdoor air supplied and used for adjacent spaces of the kitchen as replacement air for kitchen exhaust if it is deemed to be class 2 air. Standard 62.1 is a better medium to address virus spread and air classification as the standard is revised to minimize virus spread and herein reflected in this addendum.

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

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

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.4-202x, Gray Iron Threaded Fittings - Classes 125 and 250 (revision of ANSI/ASME B16.4-2016)

This Standard for gray iron threaded fittings, Classes 125 and 250, covers (a) pressure-temperature ratings; (b) sizes and method of designating openings of reducing fittings; (c) marking; (d) material; (e) dimensions and tolerances; (f) threading; and (g) coatings. Mandatory Appendix I provides table values in U.S. Customary units.

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.18-202x, Cast Copper Alloy Solder Joint Pressure Fittings (revision of ANSI/ASME B16.18-2018)

This Standard establishes requirements for cast copper alloy solder joint pressure fittings designed for use by soldering or brazing with a seamless copper water tube conforming to ASTM B88. Fittings made in accordance with this standard are intended to be assembled with soldering materials conforming to ASTM B32, brazing materials conforming to AWS A5.8, or tapered pipe thread conforming to ASME B1.20.1. This Standard is allied to ASME B16.22 for wrought copper alloy pressure fittings and ASME B16.50 which covers wrought pressure fittings for brazing only.

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

Comment Deadline: October 17, 2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.22-202x, Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings (revision of ANSI/ASME B16.22-2018)

This Standard establishes specifications for wrought copper and copper alloy, seamless pressure fittings designed for use by soldering or brazing with seamless copper tube conforming to ASTM B88 (water and general plumbing systems), ASTM B280 (air-conditioning and refrigeration service), and ASTM B819 (medical gas systems). Fittings made in accordance with this standard are intended to be assembled with soldering materials conforming to ASTM B32, brazing materials conforming to AWS A5.8, or tapered pipe thread conforming to ASME B1.20.1. This Standard is allied with ASME B16.18, which covers cast copper alloy pressure fittings and ASME B16.50 which covers wrought pressure fittings for brazing only.

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.23-202x, Cast Copper Alloy Solder Joint Drainage Fittings: DWV (revision of ANSI/ASME B16.23-2016)

This Standard establishes specifications for cast copper alloy solder joint drainage fittings, designed for use in drain, waste, and vent (DWV) systems. These fittings are designed for use with seamless copper tube conforming to ASTM B306, Copper Drainage Tube (DWV), as well as fittings intended to be assembled with soldering materials conforming to ASTM B32, or tapered pipe thread conforming to ASME B1.20.1. This Standard is allied with ASME B16.29, Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings — DWV.

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.51-202x, Copper and Copper Alloy Press-Connect Pressure Fittings (revision of ANSI/ASME B16.51-2018)

This Standard establishes requirements for cast copper alloy, wrought copper, and wrought copper alloy press-connect pressure fittings for use with hard-drawn seamless copper water tube conforming to ASTM B88 for piping systems conveying water. The press-connect system (tube, fitting, and joint) conforming to this Standard is for use at a maximum pressure of 1 380 kPa (200 psi) over the temperature range from 0°C to 93°C (32°F to 200°F).

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

Comment Deadline: October 17, 2021

NSF (NSF International)

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

Revision

BSR/NSF 14-202x (i114r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020)

This Standard establishes minimum physical, performance, and health effects requirements for plastic piping system components and related materials. These criteria were established for the protection of public health and the environment.

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

Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

NSF (NSF International)

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

Revision

BSR/NSF 358-4-202x (i2r1), Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems (revision of ANSI/NSF 358-4-2018)

The physical and performance requirements in this Standard apply to plastic piping system components as well as non-plastic components of the ground loop heat exchanger including but not limited to polyethylene of raised temperature (PE-RT) tubing and fittings used in water-based ground-source heat pump systems. This standard does not cover refrigerant-based ground-loop heat exchangers such as direct expansion (DX) systems. This Standard does not cover hydronic heating or cooling systems within buildings.

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

Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

NSF (NSF International)

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

Revision

BSR/NSF 385-202x (i3r3), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

This Standard is intended for use with devices intended to disinfect wastewater after secondary treatment and prior to discharge from residential wastewater treatment systems having rated treatment capacities between 757 L/day (200 gal/day) and 5678 L/day (1500 gal/day). This Standard also applies to devices intended to be used in water reclamation and reuse. Specific requirements exist for construction and testing of individual disinfection devices based on the technology used by the device. All Devices are required to be tested against the influent challenge water as specified in section 1.4 and to meet the minimum effluent quality requirements in accordance with 1.5. Devices shall be tested against the effluent requirements of this Standard unless the manufacturer requests certification under an effluent standard in NSF/ANSI 350 which is more stringent than this Standard.

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

Send comments (copy psa@ansi.org) to: Jason Snider; jsnider@nsf.org

Comment Deadline: October 17, 2021

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 | mitchell.gold@ul.org, <https://ul.org/>

Revision

BSR/UL 347A-202x, Standard for Safety for Medium Voltage Power Conversion Equipment (revision of ANSI/UL 347A-2020)

Proposed revisions to UL 347A including (1) Color Coding of Grounding and Bonding Conductors in UL 347A; (2) Revisions to Section 21.7 – Spacings for Printed Wiring Boards; (3) Addition of New Section 21.8 – Alternate Approach for Spacings; (4) Revisions to Section 26 - Spacings within Gate Driver Circuit; (5) Revision to Breakdown of Components Requirements.

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

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

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 | Linda.L.Phinney@ul.org, <https://ul.org/>

Revision

BSR/UL 758-202x, Standard for Appliance Wiring Material (September 17, 2021) (revision of ANSI/UL 758-2021)

This proposal covers: 1. Addition of Halogen Free (HF) or Low-Smoke Halogen Free (LSHF) Wire to 51.2 2.

Insulation Resistance Test Time, Revised 50.1

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

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

Comment Deadline: November 1, 2021

AGMA (American Gear Manufacturers Association)

1001 N Fairfax Street, 5th Floor, Alexandria, VA 22314-1587 | tech@agma.org, www.agma.org

Withdrawal

ANSI/AGMA ISO 6336-6-A-2008 (R2014), Calculation of Load Capacity of Spur and Helical Gears - Part 6:

Calculation of Service Life Under Variable Load (withdrawal of ANSI/AGMA ISO 6336-6-A-2008 (R2014))

This part of ISO 6336 specifies the information and \$111.00standardized conditions necessary for the calculation of the service life (or safety factors for a required life) of gears subject to variable loading.

Single copy price: \$111.00 (Non-member)

Obtain an electronic copy from: tech@agma.org

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Comment Deadline: November 1, 2021

AISC (American Institute of Steel Construction)

130 E. Randolph Street, Suite 2000, Chicago, IL 60601-6204 | tavarez@aisc.org, www.aisc.org

Revision

BSR/AISC 303-202x, Code of Standard Practice for Steel Buildings and Bridges (revision of ANSI/AISC 303-2016)
The Code of Standard Practice for Structural Steel Buildings and Bridges sets forth provisions that are the commonly accepted standards of custom and usage for the fabrication and erection of structural steel buildings, bridges, or other structures, which generally represent the most efficient approach. Other structures are defined as those structures designed, fabricated, and erected in a manner similar to buildings with building-like vertical and lateral load resisting elements.

Single copy price: \$35.00 for paper copy; electronic version is free of charge

Obtain an electronic copy from: www.aisc.org/publicreview

Order from: Martin Downs; downs@aisc.org

Send comments (copy psa@ansi.org) to: Jonathan Tavarez; tavarez@aisc.org

ANS (American Nuclear Society)

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

Reaffirmation

BSR/ANS 8.22-1997 (R202x), Nuclear Criticality Safety Based on Limiting and Controlling Moderators
(reaffirmation of ANSI/ANS 8.22-1997 (R2016))

This standard provides criteria for limiting and controlling moderators in operations with fissile materials. This standard applies to those operations that depend on moderator control for maintaining subcritical conditions. This standard does not apply to concentration control of fissile materials.

Single copy price: \$62.00

Obtain an electronic copy from: orders@ans.org

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APTech (ASC CGATS) (Association for Print Technologies)

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

New Standard

BSR CGATS.22-202x, Graphic technology - Spectral reflection metrology - Certified reference materials - Documentation and procedures for use, including determination of combined standard uncertainty (new standard)

This document specifies the documentation requirements for certified reference materials (CRMs), the procedures for the use of CRMs, and the procedures for the computation and reporting of combined standard uncertainty, as applicable to the calibration, standardization, performance characterization and verification, and routine use of instruments for the measurements of spectral reflectance, transmittance and radiance as used in the graphic arts, photographic, and other image reproduction processes. Applicable measurement systems include, but are not restricted to, spectrodensitometers, spectrocolorimeters, spectrophotometers and spectroradiometers.

Single copy price: \$40.00

Obtain an electronic copy from: dorf@aptech.org

Order from: Debra Orf; dorf@aptech.org

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Comment Deadline: November 1, 2021

APTech (ASC CGATS) (Association for Print Technologies)

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

Revision

BSR CGATS.4-202x, Graphic technology - Graphic arts reflection densitometry measurements - Terminology, equations, image elements and procedures (revision of ANSI/CGATS.4-2011 (R2016))

This standard defines terms, equations and procedures for measurement, use, and communication of data obtained using reflection densitometry in the graphic arts. Graphic arts includes, but is not limited to, the preparation of material for, and volume production by, production printing processes, which include offset lithography, letterpress, flexography, gravure, and screen printing. This standard also applies to measurement of materials produced by systems such as photographic, ink jet, thermal transfer, electrophotographic, and toner technology (including off-press proofs), etc., when used for graphic arts applications.

Single copy price: \$16.00

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ASABE (American Society of Agricultural and Biological Engineers)

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

Revision

BSR/ASAE S354.8 MONYEAR-202x, Safety for Farmstead Equipment (revision and redesignation of ANSI/ASAE S354.7-SEP2018)

This standard is a guide to provide a reasonable degree of personal safety for operators and other persons during normal operation and servicing of farmstead equipment. It applies to powered farmstead equipment, other than agricultural field equipment, used in agricultural operations for the production of food and fiber. Farmstead equipment is intended for use within a farmstead (yard) or within a commercial site. Equipment may be stationary or portable. Farmstead equipment includes, for example: potato and root crop cleaners, grain cleaners, cleaning and washing equipment, potato and vegetable conveying equipment, grain and forage dryers, drying and aeration fans, feed grinders and mixers, electrical generators, potato and root crop grading equipment, irrigation equipment, livestock feeding systems, livestock watering and waste handling systems, livestock scales, grain augers, grain belt conveyors, grain vacs, bucket elevators, chain conveyors, pneumatic conveyors, screw conveyors, and other material handling equipment, water and sewage pumps, grain storage systems and milling systems. as defined in paragraph 3.1. This standard does not apply to agricultural field equipment nor to self-propelled mobile equipment such as motor vehicles, all-terrain vehicles, and skid-steer loaders.

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

Obtain an electronic copy from: vangilder@asabe.org

Order from: Carla VanGilder; vangilder@asabe.org

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Comment Deadline: November 1, 2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.3-202x, Malleable Iron Threaded Fittings - Classes 150 and 300 (revision of ANSI/ASME B16.3-2016)

"This Standard covers malleable iron threaded fittings, Classes 150 and 300. It also contains provisions for using steel for caps and couplings in Class 150 for NPS 3/8 and smaller."

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.50-202x, Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings (revision of ANSI/ASME B16.50-2018)

This Standard establishes requirements for wrought copper and wrought copper alloy seamless pressure fittings designed for use by brazing with seamless copper tube conforming to ASTM B88 (for water and general plumbing systems), ASTM B280 (for air conditioning and refrigeration service), and ASTM B819 (for medical gas systems). Fittings made in accordance with This Standard are intended to be assembled with brazing materials conforming to AWS A5.8M/A5.8. This Standard is allied to ASME B16.18 for cast copper alloy pressure fittings and ASME B16.22 for wrought fittings that can be used with soldering or brazing.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASTM (ASTM International)

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

New Standard

BSR/ASTM E0620-202x, Practice for Reporting Opinions of Scientific or Technical Experts (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E0678-202x, Standard Practice for Evaluation of Scientific or Technical Data (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E0860-202x, Standard Practice for Examining and Preparing Items that Are or May Become Involved in Criminal or Civil Litigation (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1020-202x, Standard Practice for Reporting Incidents that May Involve Criminal or Civil Litigation (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1188-202x, Standard Practice for Collection and Preservation of Information and Physical Items by a Technical Investigator (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1386-202x, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Solvent Extraction (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1388-202x, Standard Practice for Static Headspace Sampling of Vapors from Fire Debris Samples (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1412-202x, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Activated Charcoal (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1413-202x, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Dynamic Headspace Concentration onto an Adsorbent Tube (new standard)

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New Standard

BSR/ASTM E1459-202x, Standard Guide for Physical Evidence Labeling and Related Documentation (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1492-202x, Standard Practice for Receiving, Documenting, Storing, and Retrieving Evidence in a Forensic Science Laboratory (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1588-202x, Standard Practice for Gunshot Residue Analysis by Scanning Electron Microscopy/Energy Dispersive X-Ray Spectrometry (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1610-202x, Standard Guide for Forensic Paint Analysis and Comparison (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1618-202x, Standard Test Method for Ignitable Liquid Residues in Extracts from Fire Debris Samples by Gas Chromatography-Mass Spectrometry (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1732-202x, Standard Terminology Relating to Forensic Science (new standard)

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New Standard

BSR/ASTM E1843-202x, Standard Guide for Sexual Violence Investigation, Examination, and Evidence Collection Protocol (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1967-202x, Standard Test Method for the Automated Determination of Refractive Index of Glass Samples Using the Oil Immersion Method and a Phase Contrast Microscope (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E1968-202x, Standard Practice for Microcrystal Testing in Forensic Analysis for Cocaine (new standard)

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New Standard

BSR/ASTM E1969-202x, Standard Practice for Microcrystal Testing in Forensic Analysis for Methamphetamine and Amphetamine (new standard)

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New Standard

BSR/ASTM E2057-202x, Standard Specifications for Preparation of Laboratory Analysis Requests in Sexual Assault Investigations (new standard)

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New Standard

BSR/ASTM E2123-202x, Standard Practice for Preservation of Evidence in Sexual Violence Investigation (new standard)

https://www.astm.org/ANSI_SA

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BSR/ASTM E2124-202x, Standard Specification for Equipment and Supplies in Sexual Violence Investigations (new standard)

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New Standard

BSR/ASTM E2125-202x, Standard Practice for Microcrystal Testing in Forensic Analysis for Phencyclidine and Its Analogues (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2154-202x, Standard Practice for Separation and Concentration of Ignitable Liquid Residues from Fire Debris Samples by Passive Headspace Concentration with Solid Phase Microextraction (SPME) (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2224-202x, Standard Guide for Forensic Analysis of Fibers by Infrared Spectroscopy (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2225-202x, Standard Guide for Forensic Examination of Fabrics and Cordage (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2227-202x, Standard Guide for Forensic Examination of Non-Reactive Dyes in Textile Fibers by Thin-Layer Chromatography (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2228-202x, Standard Guide for Microscopical Examination of Textile Fibers (new standard)

https://www.astm.org/ANSI_SA

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ASTM (ASTM International)

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New Standard

BSR/ASTM E2326-202x, Standard Practice for Education and Training of Seized-Drug Analysts (new standard)

https://www.astm.org/ANSI_SA

Single copy price: Free

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New Standard

BSR/ASTM E2327-202x, Standard Practice for Quality Assurance of Laboratories Performing Seized-Drug Analysis (new standard)

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New Standard

BSR/ASTM E2329-202x, Standard Practice for Identification of Seized Drugs (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2330-202x, Standard Test Method for Determination of Concentrations of Elements in Glass Samples Using Inductively Coupled Plasma Mass Spectrometry (ICP-MS) for Forensic Comparisons (new standard)

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New Standard

BSR/ASTM E2451-202x, Standard Practice for Preserving Ignitable Liquids and Ignitable Liquid Residue Extracts from Fire Debris Samples (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2548-202x, Standard Guide for Sampling Seized Drugs for Qualitative and Quantitative Analysis (new standard)

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New Standard

BSR/ASTM E2549-202x, Standard Practice for Validation of Seized-Drug Analytical Methods (new standard)

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New Standard

BSR/ASTM E2678-202x, Standard Guide for Education and Training in Computer Forensics (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM E2808-202x, Standard Guide for Microspectrophotometry in Forensic Paint Analysis (new standard)

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New Standard

BSR/ASTM E2809-202x, Standard Guide for Using Scanning Electron Microscopy/X-Ray Spectrometry in Forensic Paint Examinations (new standard)

https://www.astm.org/ANSI_SA

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ASTM (ASTM International)

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New Standard

BSR/ASTM E2825-202x, Standard Guide for Forensic Digital Image Processing (new standard)

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ASTM (ASTM International)

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New Standard

BSR/ASTM E2881-202x, Standard Test Method for Extraction and Derivatization of Vegetable Oils and Fats from Fire Debris and Liquid Samples with Analysis by Gas Chromatography-Mass Spectrometry (new standard)

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New Standard

BSR/ASTM E2882-202x, Standard Guide for Analysis of Clandestine Drug Laboratory Evidence (new standard)

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New Standard

BSR/ASTM E2916-202x, Standard Terminology for Digital and Multimedia Evidence Examination (new standard)

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New Standard

BSR/ASTM E2917-202x, Standard Practice for Forensic Science Practitioner Training, Continuing Education, and Professional Development Programs (new standard)

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New Standard

BSR/ASTM E2926-202x, Standard Test Method for Forensic Comparison of Glass Using Micro X-ray Fluorescence (-XRF) Spectrometry (new standard)

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New Standard

BSR/ASTM E2927-202x, Standard Test Method for Determination of Trace Elements in Soda-Lime Glass Samples Using Laser Ablation Inductively Coupled Plasma Mass Spectrometry for Forensic Comparisons (new standard)

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New Standard

BSR/ASTM E2937-202x, Standard Guide for Using Infrared Spectroscopy in Forensic Paint Examinations (new standard)

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New Standard

BSR/ASTM E2997-202x, Standard Test Method for Analysis of Biodiesel Products by Gas Chromatography-Mass Spectrometry (new standard)

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New Standard

BSR/ASTM E2998-202x, Standard Practice for Characterization and Classification of Smokeless Powder (new standard)

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New Standard

BSR/ASTM E2999-202x, Standard Test Method for Analysis of Organic Compounds in Smokeless Powder by Gas Chromatography-Mass Spectrometry and Fourier Transform Infrared Spectroscopy (new standard)

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New Standard

BSR/ASTM E3016-202x, Standard Guide for Establishing Confidence in Digital and Multimedia Evidence Forensic Results by Error Mitigation Analysis (new standard)

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New Standard

BSR/ASTM E3017-202x, Standard Practice for Examining Magnetic Card Readers (new standard)

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BSR/ASTM E3046-202x, Standard Guide for Core Competencies for Mobile Phone Forensics (new standard)

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New Standard

BSR/ASTM E3085-202x, Standard Guide for Fourier Transform Infrared Spectroscopy in Forensic Tape Examinations (new standard)

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New Standard

BSR/ASTM E3115-202x, Standard Guide for Capturing Facial Images for Use with Facial Recognition Systems (new standard)

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New Standard

BSR/ASTM E3148-202x, Standard Guide for Postmortem Facial Image Capture (new standard)

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New Standard

BSR/ASTM E3149-202x, Standard Guide for Facial Image Comparison Feature List for Morphological Analysis (new standard)

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New Standard

BSR/ASTM E3150-202x, Standard Guide for Forensic Audio Laboratory Setup and Maintenance (new standard)

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New Standard

BSR/ASTM E3189-202x, Standard Practice for Separation of Ignitable Liquid Residues from Fire Debris Samples by Static Headspace Concentration onto an Adsorbent Tube (new standard)

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New Standard

BSR/ASTM E3197-202x, Standard Terminology Relating to Examination of Fire Debris (new standard)

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New Standard

BSR/ASTM E3233-202x, Standard Practice for Forensic Tape Analysis Training Program (new standard)

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New Standard

BSR/ASTM E3234-202x, Standard Practice for Forensic Paint Analysis Training Program (new standard)

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New Standard

BSR/ASTM E3245-202x, Standard Guide for Systematic Approach to the Extraction, Analysis, and Classification of Ignitable Liquids and Ignitable Liquid Residues in Fire Debris Samples (new standard)

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New Standard

BSR/ASTM E3255-202x, Standard Practice for Quality Assurance of Forensic Science Service Providers Performing Forensic Chemical Analysis (new standard)

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New Standard

BSR/ASTM E3260-202x, Standard Guide for Forensic Examination and Comparison of Pressure Sensitive Tapes (new standard)

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New Standard

BSR/ASTM E3272-202x, Standard Guide for Collection of Soils and Other Geological Evidence for Criminal Forensic Applications (new standard)

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New Standard

BSR/ASTM WK56743-202x, Practice for Training in the Forensic Examination of Hair by Microscopy (new standard)

https://www.astm.org/ANSI_SA

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New Standard

BSR/ASTM WK56998-202x, Terminology Relating to the Examination of Explosives (new standard)

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New Standard

BSR/ASTM WK72597-202x, Guide for the Forensic Examination of Hair by Microscopy (new standard)

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ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

Reaffirmation

BSR/ATIS 0600015.02-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement & Reporting - Transport & Optical Access Requirements (reaffirmation of ANSI/ATIS 0600015.02-2016)

This document specifies the definition of transport and optical access products and systems as well as a methodology to calculate the Telecommunication Energy Efficiency Ratio (TEER) of a transport or optical access system or network configuration. The standard will also provide requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.

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ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

Reaffirmation

BSR/ATIS 0600015.03-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for Router and Ethernet Switch Products (reaffirmation of ANSI/ATIS 0600015.03-2016)

This document specifies the definition of router and Ethernet switch products based on their position in a network, as well as a methodology to calculate the Telecommunication Energy Efficiency Ratio (TEER). The standard will also provide requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.

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Reaffirmation

BSR/ATIS 0600015.11-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting DC/DC Converter Requirements (reaffirmation of ANSI/ATIS 0600015.11-2016)

This document defines how to measure the Telecommunication Energy Efficiency Ratio (TEER) of DC/DC Converters. The standard also provides requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.

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1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

Reaffirmation

BSR/ATIS 0600015.12-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting Power Systems - Uninterruptible Power Supply Requirements (reaffirmation of ANSI/ATIS 0600015.12-2016)

This document provides the methodology to be used by vendors and third party independent laboratories in the formation of telecommunications energy efficiency ratios (TEER) for various typical operating modes of Uninterruptible Power Supply/System (UPS) systems. The standard will also provide requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.

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Revision

BSR/ATIS 0600015.01-202x, Energy Efficiency for Telecommunications Equipment: Methodology for Measurement and Reporting - Server Requirements (revision of ANSI/ATIS 0600015.01-2014)

This document defines how to measure the Telecommunication Energy Efficiency Ratio (TEER) of a server. The standard will also provide requirements for how equipment vendors shall respond to a TEER request based on a specific application description by making use of relevant data from internal and independent test reports.

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AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

New Standard

BSR/AWS B2.1-5A-222-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), ER90S-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 3/4 inch [19 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 3/4 inch [19 mm] in the postweld heat treated (PWHT) condition, using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

Single copy price: \$136.00

Obtain an electronic copy from: jrosario@aws.org

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

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

New Standard

BSR/AWS B2.1-5A-223-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [13 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 1-1/2 inch [38 mm] in the postweld heat treated (PWHT) condition, using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

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AWS (American Welding Society)

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New Standard

BSR/AWS B2.1-5A-224-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), ER90S-B3 and E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 1-1/2 inch [38 mm] in the postweld heat treated (PWHT) condition, using manual gas tungsten arc welding followed by manual shielded arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

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New Standard

BSR/AWS B2.1-5A-225-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) of Chromium-Molybdenum Steel (M-5A/P-5A), IN521 and ER90S-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 3/4 inch [19 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 3/4 inch [19 mm] in the postweld heat treated (PWHT) condition, using manual gas tungsten arc welding with a consumable insert root. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

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AWS (American Welding Society)

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New Standard

BSR/AWS B2.1-5A-226-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), IN521, ER90S-B3, and E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for chromium-molybdenum steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm] in the as-welded condition; or 1/8 inch [3 mm] through 1-1/2 inch [38 mm] in the postweld heat treated (PWHT) condition, using manual gas tungsten arc welding with a consumable insert root, followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This standard welding procedure specification (SWPS) was developed primarily for pipe applications.

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AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | polson@awwa.org, www.awwa.org

Revision

BSR/AWWA C503-202x, Wet-Barrel Fire Hydrants (revision of ANSI/AWWA C503-2018)

This standard pertains to the various types and classes of wet-barrel fire hydrants for use in fireprotection service in areas where the climate is mild and freezing temperatures do not occur.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Order from: Vicki David; vdavid@awwa.org

Send comments (copy psa@ansi.org) to: Paul Olson; polson@awwa.org

AWWA (American Water Works Association)

6666 W. Quincy Avenue, Denver, CO 80235 | polson@awwa.org, www.awwa.org

Revision

BSR/AWWA G510-202x, Wastewater Treatment Plant Operation and Management (revision of ANSI/AWWA G510-2013)

This standard describes the essential or critical requirements for the effective operation and management of a wastewater treatment plant.

Single copy price: Free

Obtain an electronic copy from: ETSupport@awwa.org

Order from: Vicki David; vdavid@awwa.org

Send comments (copy psa@ansi.org) to: Paul Olson; polson@awwa.org

Comment Deadline: November 1, 2021

CSA (CSA America Standards Inc.)

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

New Standard

BSR/CSA 13.1-202x, Combined heat and power appliances (new standard)

This Standard specifies requirements and test methods for the following devices within the field of cogeneration technologies that produce both electricity and thermal energy, including but not limited to, a) combined heat and power (CHP) appliances, which generate electricity and thermal energy in a single integrated system: i) internal combustion CHP; ii) thermoelectric generators (TEG); iii) vapour expansion cycle CHP; iv) fuel cell CHP; v) exhaust heat reclaimers; and vi) Stirling engine CHP; and b) thermoelectric generators (TEG), which convert heat into electrical energy.

Single copy price: Free

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

Order from: Debbie Chesnik; ansi.contact@csagroup.org

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

NGWA (National Ground Water Association)

601 Dempsey Road, Westerville, OH 43081 | industrypractices@ngwa.org, www.ngwa.org

New Standard

BSR/NGWA 1-202x, Water Well Construction Standard (new standard)

The NGWA 01-2X Water Well Construction Standard encompasses municipal, residential, agricultural, monitoring, and industrial water production wells. Topics covered include well site selection; casing and casing installation; well screens, filter pack, and formation stabilizer; grouting; plumbness and alignment; well development; testing for performance; data recording; disinfection with chlorine; water sampling and analysis; and permanent well and test-hole decommissioning.

Single copy price: Free

Obtain an electronic copy from: <https://www.ngwa.org/publications-and-news/NGWA-standards-development/Water-Well-Construction-Standard-in-revision>

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

NSF (NSF International)

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

Revision

BSR/NSF 505-202x (i2r1), Conformity Assessment Requirements for Certification Bodies that Certify Products Pursuant to NSF/ANSI/CAN 50: Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water (revision of ANSI/NSF 505-2021)

This Standard establishes minimum requirements for certification bodies to be used when certifying recreational water treatment chemicals products to NSF/ANSI/CAN 50. These requirements are supplemental to those contained in ISO/IEC 17065 or ISO/IEC 17020 and do not replace the requirements of either ISO Standard. By specifying this Standard, users of product certifications can communicate their expectation that certification activities addressed herein are performed in the particular manner described.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/60551/505i2r1%20-%20JC%20Memo%20&%20Ballot.pdf

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

Comment Deadline: November 1, 2021

RESNET (Residential Energy Services Network, Inc.)

4867 Patina Court, Oceanside, CA 92057 | rick.dixon@resnet.us, www.resnet.us.com

Addenda

BSR/RESNET/ICC 301-2018 Addendum C-202x, Default Values for Duct Leakage to Outside (addenda to ANSI/RESNET/ICC 301-2018)

The addendum will establish default values to be used for Duct Leakage to Outside when values are not determined by testing specified by the Standard.

Single copy price: \$55.00

Obtain an electronic copy from: Download from RESNET's website by following the "STANDARDS AND AMENDMENTS CURRENTLY OUT FOR PUBLIC COMMENT" link on webpage <https://www.resnet.us/about/standards/resnet-ansi/>

Order from: Rick Dixon, Standards Manager, RESNET, P.O. Box 4561, Oceanside, CA 92052

Send comments (copy psa@ansi.org) to: RESNET using the online comment form which is accessed by following the "STANDARDS AND AMENDMENTS CURRENTLY OUT FOR PUBLIC COMMENT" link on webpage: <https://www.resnet.us/about/standards/resnet-ansi/>

SCTE (Society of Cable Telecommunications Engineers)

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

New Standard

BSR/SCTE 273-1-202x, Generic Access Platform Enclosure Specification (new standard)

The scope of the Generic Access Platform is to define a mechanical housing that provides physical support for electrical and mechanical components and protection from the outside world for those internal components. The GAP Enclosure specification is intended to define sufficient mechanical and electrical details such that it can be similarly constructed by housing manufacturers. The specification covers external details sufficient for mechanical mountings, ports, environmental details, materials, thermal capabilities. The specification is also intended to cover sufficient internal details such that internal modules can be constructed to fit inside the housing. The specification is intended to facilitate various existing and future technologies. The specification is not intended to define new technologies use-cases or to re-define existing technologies, but rather to enable the physical enclosure and protection of those technologies.

Single copy price: \$50.00

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

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

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

Comment Deadline: November 1, 2021

SCTE (Society of Cable Telecommunications Engineers)

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

New Standard

BSR/SCTE 273-2-202x, Generic Access Platform (GAP) Modules Specification (new standard)

The scope of the Generic Access Platform is to define a mechanical housing that provides physical support for electrical and mechanical components and protection from the outside world for those internal components. The specification is also intended to cover sufficient internal details such that internal modules can be constructed to fit inside the housing. The specification is intended to facilitate various existing and future technologies. The specification is not intended to define new technologies use-cases or to re-define existing technologies, but rather to enable the physical enclosure and protection of those technologies.

Single copy price: \$50.00

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

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

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

TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd., Anderson, SC 29625 | KSimpson@tileusa.com, www.tcnatile.com

New Standard

BSR A108.21-202x, Interior Installation of Flowable Hydraulic Cement Underlayment/Self-Leveling Underlayment (new standard)

This standard covers ordinary portland cement (OPC)-based and calcium aluminate-based Flowable Hydraulic Cement Underlayment / Self-Leveling Underlayment when used as a substrate for the installation of ceramic tile, manufactured stone and natural stone in interior applications.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd., Anderson, SC 29625 | KSimpson@tileusa.com, www.tcnatile.com

New Standard

BSR A118.16-202x, Standard Specifications for Flowable Hydraulic Cement Underlayment/Self-Leveling Underlayment (new standard)

This specification covers ordinary Portland cement (OPC)-based and calcium aluminate-based Flowable Hydraulic Cement Underlayment / Self-Leveling Underlayment when used as a substrate for the installation of ceramic tile, manufactured stone and natural stone in interior applications.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

Comment Deadline: November 1, 2021

TCNA (ASC A108) (Tile Council of North America)

100 Clemson Research Blvd., Anderson, SC 29625 | KSimpson@tileusa.com, www.tcnatile.com

Revision

BSR A108.5-202x, Setting of Ceramic Tile with Dry-Set Cement Mortar, Modified Dry-Set Cement Mortar, EGP (Exterior Glue Plywood) Modified Dry-Set Cement Mortar, or Improved Modified Dry-Set Cement Mortar (revision of ANSI A108.5-2020)

This standard outlines the guidelines for installation of ceramic tile with dry-set cement mortar, modified dry-set cement mortar, EGP (Exterior Glue Plywood) modified dry-set cement mortar, and improved modified dry-set cement mortar.

Single copy price: \$15.00

Obtain an electronic copy from: ksimpson@tileusa.com

Send comments (copy psa@ansi.org) to: Katelyn Simpson, ksimpson@tileusa.com

UL (Underwriters Laboratories)

47173 Benicia Street, Fremont, CA 94538 | Marcia.M.Kawate@ul.org, https://ul.org/

Reaffirmation

BSR/UL 731-2004 (R202x), Standard for Safety for Oil-Fired Unit Heaters (reaffirmation of ANSI/UL 731-2004 (R2016))

These requirements apply to oil-fired unit heaters as defined herein. Unit heaters designed to supply heated air through ducts are covered in the Standard for Oil-Fired Central Furnaces, UL 727. The oil-burning equipment covered by these requirements are intended for installation in accordance with the National Fire Protection Association Standard for the Installation of Oil Burning Equipment, NFPA 31, the International Mechanical Code and the Uniform Mechanical Code.

Single copy price: Free

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

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

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

Comment Deadline: November 16, 2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.11-202x, Forged Fittings, Socket-Welding and Threaded (revision of ANSI/ASME B16.11-2016)

"This Standard covers ratings, dimensions, tolerances, marking, and material requirements for forged fittings, both socket-welding and threaded, as illustrated in Tables 1 through 6 and Tables I-1 through I-6, inclusive."

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

Comment Deadline: November 16, 2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.24-202x, Cast Copper Alloy Pipe Flanges, Flanged Fittings, and Valves - Classes 150, 300, 600, 900, 1500, and 2500 (revision of ANSI/ASME B16.24-2016)

"This Standard covers the following cast copper alloy: (a) threaded pipe flanges and blind flanges having class designations 150, 300, 600, 900, 1500, and 2500 (b) flanged fittings having rating class designations 150 and 300 (c) threaded and flanged valves having rating class designations 150, 300, 600, 1500, and 2500"

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

BSR/ASME B16.42-202x, Ductile Iron Pipe Flanges and Flanged Fittings - Classes 150 and 300 (revision of ANSI/ASME B16.42-2016)

This Standard covers minimum requirements for Classes 150 and 300 cast ductile iron pipe flanges and flanged fittings.

Single copy price: Free

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

Send comments (copy psa@ansi.org) to: Ray Rahaman; rahamanr@asme.org

Project Withdrawn

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

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 198-3-6-F-200x, Ceramic Dielectric Capacitors Classes I, II, III and IV - Part III, Section 6, Axial-Leaded, Conformally Coated and Molded Types (new standard)

Inquiries may be directed to Laura Donohoe; ldonohoe@ecianow.org

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 296-G-202x, Lead Taping of Components in Axial Lead Configuration for Automatic Handling (revision and redesignation of ANSI/EIA 296-F-2015)

Inquiries may be directed to Laura Donohoe; ldonohoe@ecianow.org

Project Withdrawn

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | emikoski@ecianow.org; ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 968-202x, Film Dielectric Capacitors with Metallized Film Electrodes for Direct Current Medium Power Applications (new standard)

Inquiries may be directed to Edward Mikoski; emikoski@ecianow.org; ldonohoe@ecianow.org

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | emikoski@ecianow.org; ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA 969-202x, Electrochemical Double Layer Capacitors (EDLC's), Cylindrical Single-Cell (new standard)

Inquiries may be directed to Edward Mikoski; emikoski@ecianow.org; ldonohoe@ecianow.org

ECIA (Electronic Components Industry Association)

13873 Park Center Road, Suite 315, Herndon, VA 20171 | emikoski@ecianow.org; ldonohoe@ecianow.org, www.ecianow.org

BSR/EIA PN-5182-200x, Fixed Film Dielectric Capacitors, Stacked Metallized Chip Capacitors (new standard)

Inquiries may be directed to Edward Mikoski; emikoski@ecianow.org; ldonohoe@ecianow.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.

APTech (ASC CGATS) (Association for Print Technologies)

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

Reaffirmation

ANSI/CGATS/ISO 12640-3-2007 (R2021), Graphic technology Prepress digital data exchange - Part 3: CIELAB standard colour image data (CIELAB/SCID) (reaffirm a national adoption ANSI/CGATS/ISO 12640-3-2007 (R2016)) Final Action Date: 9/7/2021

Reaffirmation

ANSI/CGATS/ISO 15930-7-2010 (R2021), Graphic technology - Prepress digital data exchange using PDF - Part 7: Complete exchange of printing data (PDF/X4) and partial exchange of printing data with external profile reference (PDF/X4p) using PDF 1.6 (reaffirm a national adoption ANSI/CGATS/ISO 15930-7-2010 (R2016)) Final Action Date: 9/7/2021

Reaffirmation

ANSI/CGATS/ISO 15930-8-2010 (R2021), Graphic technology - Prepress digital data exchange using PDF - Part 8: Partial exchange of printing data using PDF 1.6 (PDF/X5) (reaffirm a national adoption ANSI/CGATS/ISO 15930-8-2010 (R2016)) Final Action Date: 9/7/2021

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Revision

ANSI/ASME B30.9-2021, Slings (revision of ANSI/ASME B30.9-2018) Final Action Date: 9/9/2021

Revision

ANSI/ASME B89.4.19-2021, Performance Evaluation of Laser-Based Spherical Coordinate Measurement Systems (revision of ANSI/ASME B89.4.19-2006 (R2015)) Final Action Date: 9/13/2021

ASTM (ASTM International)

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

Reaffirmation

ANSI/ASTM F2929-2017 (R2021), Specification for Crosslinked Polyethylene (PEX) Tubing of 0.070 in. Wall and Fittings for Radiant Heating Systems up to 75 psig (reaffirmation of ANSI/ASTM F2929-2017) Final Action Date: 8/24/2021

Revision

ANSI/ASTM D1785-2021a, Specification for Poly(Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80, and 120 (revision of ANSI/ASTM D1785-2021) Final Action Date: 8/24/2021

Revision

ANSI/ASTM F2390-2021, Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent (DWV) Pipe and Fittings Having Post-Industrial Recycle Content (revision of ANSI/ASTM F2390-2017 (R2017)) Final Action Date: 8/24/2021

Revision

ANSI/ASTM F3347-2021, Specification for Metal Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3347-2020A) Final Action Date: 8/24/2021

ASTM (ASTM International)

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

Revision

ANSI/ASTM F3348-2021a, Specification for Plastic Press Insert Fittings with Factory Assembled Stainless Steel Press Sleeve for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F3348-2021) Final Action Date: 8/24/2021

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

Reaffirmation

ANSI/AWS B2.1-1/8-010-2015 (R2021), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1) to Austenitic Stainless Steel (M-8/ P-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (reaffirmation of ANSI/AWS B2.1-1/8-010-2015) Final Action Date: 9/3/2021

ESTA (Entertainment Services and Technology Association)

271 Cadman Plaza, P.O. Box 23200, Brooklyn, NY 11202-3200 | standards@esta.org, www.esta.org

Reaffirmation

ANSI E1.40-2016 (R2021), Recommendations for the Planning of Theatrical Dust Effects (reaffirmation of ANSI E1.40-2016) Final Action Date: 9/9/2021

GBI (Green Building Initiative)

PO Box 80010, Portland, 97280 | emarx@thegbi.org, www.thegbi.org

Revision

ANSI/GBI 01-2021, Green Globes Assessment Protocol for Design, New Construction, and Major Renovations (revision of ANSI/GBI 01-2019) Final Action Date: 9/3/2021

HFES (Human Factors & Ergonomics Society)

2025 M Street NW, Suite 800, Washington, DC 20036 | skemp@hfes.org, www.hfes.org

New Standard

ANSI/HFES 400-2021, Human Readiness Level Scale in the System Development Process (new standard) Final Action Date: 9/7/2021

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

18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448 | terry.burger@asse-plumbing.org, www.asse-plumbing.org

Reaffirmation

ANSI/ASSE 1063-2016 (R2021), Performance Requirements for Air Valve and Vent Inflow Preventer (reaffirmation of ANSI/ASSE 1063-2016) Final Action Date: 9/9/2021

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

National Adoption

INCITS/ISO/IEC 14496-15:2019 [2021], Information technology - Coding of audio-visual objects - Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format (identical national adoption of ISO/IEC 14496-15:2019 and revision of INCITS/ISO/IEC 14496-15:2017 [2019]) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 14496-32:2021 [2021], Information technology - Coding of audio-visual objects - Part 32: File format reference software and conformance (identical national adoption of ISO/IEC 14496-32:2021) Final Action Date: 9/7/2021

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

National Adoption

INCITS/ISO/IEC 15938-15:2019 [2021], Information technology - Multimedia content description interface - Part 15: Compact descriptors for video analysis (identical national adoption of ISO/IEC 15938-15:2019) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 19944-1:2020 [2021], Cloud computing and distributed platforms - Data flow, data categories and data use - Part 1: Fundamentals (identical national adoption of ISO/IEC 19944-1:2020) Final Action Date: 9/9/2021

National Adoption

INCITS/ISO/IEC 21823-1:2019 [2021], Internet of things (IoT) - Interoperability for IoT systems - Part 1: Framework (identical national adoption of ISO/IEC 21823-1:2019) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 21823-2:2020 [2021], Internet of things (IoT) - Interoperability for IoT systems - Part 2: Transport interoperability (identical national adoption of ISO/IEC 21823-2:2020) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 22123-1:2021 [2021], Information Technology - Cloud Computing - Part 1: Vocabulary (identical national adoption of ISO/IEC 22123-1:2021) Final Action Date: 9/9/2021

National Adoption

INCITS/ISO/IEC 23002-7:2021 [2021], Information technology - MPEG video technologies - Part 7: Versatile supplemental enhancement information messages for coded video bitstreams (identical national adoption of ISO/IEC 23002-7:2021) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 23264-1:2021 [2021], Information Security - Redaction Of Authentic Data - Part 1: General (identical national adoption of ISO/IEC 23264-1:2021) Final Action Date: 9/9/2021

National Adoption

INCITS/ISO/IEC 29182-7:2015 [2021], Information technology - Sensor networks: Sensor Network Reference Architecture (SNRA) - Part 7: Interoperability guidelines (identical national adoption of ISO/IEC 29182-7:2015) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30140-1:2018 [2021], Information technology - Underwater acoustic sensor network (UWASN) - Part 1: Overview and requirements (identical national adoption of ISO/IEC 30140-1:2018) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30140-3:2018 [2021], Information technology - Underwater acoustic sensor network (UWASN) - Part 3: Entities and interface (identical national adoption of ISO/IEC 30140-3:2018) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30140-4:2018 [2021], Information technology - Underwater acoustic sensor network (UWASN) - Part 4: Interoperability (identical national adoption of ISO/IEC 30140-4:2018) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 20924:2021 [2021], Information technology - Internet of Things (IoT) - Vocabulary (identical national adoption of ISO/IEC 20924:2021) Final Action Date: 9/7/2021

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org

National Adoption

INCITS/ISO/IEC 22624:2020 [2021], Information Technology - Cloud Computing - Taxonomy Based Data Handling For Cloud Services (identical national adoption of ISO/IEC 22624:2020) Final Action Date: 9/9/2021

National Adoption

INCITS/ISO/IEC 30101:2014 [2021], Information technology - Sensor networks: Sensor network and its interfaces for smart grid system (identical national adoption of ISO/IEC 30101:2014) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30128:2014 [2021], Information technology - Sensor networks - Generic Sensor Network Application Interface (identical national adoption of ISO/IEC 30128:2014) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30141:2018 [2021], Internet of Things (IoT) - Reference Architecture (identical national adoption of ISO/IEC 30141:2018) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30142:2020 [2021], Information technology - Underwater acoustic sensor network (UWASN) - Network management system overview and requirements (identical national adoption of ISO/IEC 30142:2020) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30143:2020 [2021], Information technology - Underwater acoustic sensor network (UWASN) - Application profiles (identical national adoption of ISO/IEC 30143:2020) Final Action Date: 9/7/2021

National Adoption

INCITS/ISO/IEC 30141:2018/COR1:2018 [2021], Internet of Things (IoT) - Reference Architecture - Technical Corrigendum 1 (identical national adoption of ISO/IEC 30141:2018/COR1:2018) Final Action Date: 9/7/2021

NSF (NSF International)

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

New Standard

ANSI/NSF 437-2021 (i1r2), Glossary of Wastewater Technology Terminology (new standard) Final Action Date: 9/6/2021

Revision

ANSI/NSF 455-3-2021 (i23r2), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2019) Final Action Date: 9/7/2021

Revision

ANSI/NSF 455-4-2021 (i28r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2020) Final Action Date: 9/5/2021

Revision

ANSI/NSF/CAN 61-2021 (i159r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2020) Final Action Date: 9/8/2021

SCTE (Society of Cable Telecommunications Engineers)

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

Reaffirmation

ANSI/SCTE 79-1-2016 (R2021), DOCSIS 2.0 Part 1: Radio Frequency Interface (reaffirmation of ANSI/SCTE 79-1-2016)
Final Action Date: 9/9/2021

Reaffirmation

ANSI/SCTE 79-2-2016 (R2021), DOCSIS 2.0 Part 2: Operations Support System Interface (reaffirmation of ANSI/SCTE 79-2-2016) Final Action Date: 9/9/2021

Reaffirmation

ANSI/SCTE 79-3-2017 (R2021), DOCSIS 2.0 + IPv6 Cable Modem Standard (reaffirmation of ANSI/SCTE 79-3-2017) Final Action Date: 9/9/2021

Revision

ANSI/SCTE 107-2021, Embedded Cable Modem Devices (revision of ANSI/SCTE 107-2017) Final Action Date: 9/2/2021

UL (Underwriters Laboratories)

333 Pfingsten Road, Northbrook, IL 60062-2096 | Susan.P.Malohn@ul.org, https://ul.org/

Reaffirmation

ANSI/UL 62108-2017 (R2021), Standard for Concentrator Photovoltaic (CPV) Modules and Assemblies - Design Qualification and Type Approval (reaffirmation of ANSI/UL 62108-2017) Final Action Date: 9/9/2021

Revision

ANSI/UL 73-2021, Standard for Safety for Motor-Operated Appliances (revision of ANSI/UL 73-2020) Final Action Date: 9/10/2021

Revision

ANSI/UL 9595-2021, Standard for Factory Follow-Up Services for Personal Flotation Devices (revision of ANSI/UL 9595-2020) Final Action Date: 9/9/2021

VC (ASC Z80) (The Vision Council)

225 Reinekers Lane, Suite 700, Alexandria, VA 22314 | ascz80@thevisioncouncil.org, www.z80asc.com

Reaffirmation

ANSI Z80.18-2016 (R2021), Ophthalmics - Contact Lens Care Products - Vocabulary, Performance Specifications, and Test Methodology (reaffirmation of ANSI Z80.18-2016) Final Action Date: 9/9/2021

Reaffirmation

ANSI Z80.20-2016 (R2021), Ophthalmics - Contact Lenses - Standard Terminology, Tolerances, Measurements and Physicochemical Properties (reaffirmation of ANSI Z80.20-2016) Final Action Date: 9/9/2021

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

ANSI/VITA 49.0-2015 (R2021), VITA Radio Transport (VRT) Standard (reaffirmation of ANSI/VITA 49.0-2015) Final Action Date: 9/2/2021

Reaffirmation

ANSI/VITA 49.1-2015 (R2021), VITA Radio Link Layer Standard (reaffirmation of ANSI/VITA 49.1-2015) Final Action Date: 9/2/2021

VITA (VMEbus International Trade Association (VITA))

929 W. Portobello Avenue, Mesa, AZ 85210 | jing.kwok@vita.com, www.vita.com

Reaffirmation

ANSI/VITA 49A-2015 (R2021), Spectrum Survey Interoperability Specification (reaffirmation of ANSI/VITA 49A-2015)

Final Action Date: 9/2/2021

Reaffirmation

ANSI/VITA 76-2016 (R2021), High Performance Cable Standard - Ruggedized 10 Gbaud Bulkhead Connector for Cu and

AOC Cables (reaffirmation of ANSI/VITA 76-2016) Final Action Date: 9/2/2021

Call for Members (ANS Consensus Bodies)

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

AARST (American Association of Radon Scientists and Technologists)

527 Justice Street, Hendersonville, NC 28739 | StandardsAssist@gmail.com, www.aarst.org
Gary Hodgden; StandardsAssist@gmail.com

BSR/AARST RMS-MF-202x, Radon Mitigation Standards for Multifamily Buildings (revision of ANSI/AARST RMS-MF-2020)

BSR/AARST RMS-LB-202x, Radon Mitigation Standards for Schools and Large Buildings (revision of ANSI/AARST RMS-LB-2020)

ACP (American Clean Power Association)

1501 M Street NW, Suite 900, Washington, DC 20005 | standards@cleanpower.org, www.cleanpower.org
Michele Mihelic; standards@cleanpower.org

BSR/ACP 111-1-202x, Wind Turbine Sound Modeling (new standard)

AGMA (American Gear Manufacturers Association)

1001 N Fairfax Street, 5th Floor, Alexandria, VA 22314-1587 | tech@agma.org, www.agma.org
Amir Aboutaleb; tech@agma.org

ANSI/AGMA ISO 6336-6-A-2008 (R2014), Calculation of Load Capacity of Spur and Helical Gears - Part 6: Calculation of Service Life Under Variable Load (withdrawal of ANSI/AGMA ISO 6336-6-A-2008 (R2014))

AISC (American Institute of Steel Construction)

130 E. Randolph Street, Suite 2000, Chicago, IL 60601-6204 | tavarez@aisc.org, www.aisc.org
Jonathan Tavarez; tavarez@aisc.org

BSR/AISC 303-202x, Code of Standard Practice for Steel Buildings and Bridges (revision of ANSI/AISC 303-2016)

APTech (ASC CGATS) (Association for Print Technologies)

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

BSR CGATS.22-202x, Graphic technology - Spectral reflection metrology - Certified reference materials - Documentation and procedures for use, including determination of combined standard uncertainty (new standard)

ASA (ASC S1) (Acoustical Society of America)

1305 Walt Whitman Road, Suite 300, Melville, NY 11747 | standards@acousticalsociety.org, www.acousticalsociety.org
Raegan Ripley; standards@acousticalsociety.org

BSR/ASA S1.25-1991 (R202x), Standard Specification for Personal Noise Dosimeters (revision of ANSI/ASA S1.25-1991 (R2020))

ASABE (American Society of Agricultural and Biological Engineers)

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

Carla VanGilder; vangilder@asabe.org

BSR/ASAE S354.8 MONYEAR-202x, Safety for Farmstead Equipment (revision and redesignation of ANSI/ASAE S354.7-SEP2018)

ASME (American Society of Mechanical Engineers)

Two Park Avenue, M/S 6-2B, New York, NY 10016-5990 | ansibox@asme.org, www.asme.org

Terrell Henry; ansibox@asme.org

BSR/ASME B16.3-202x, Malleable Iron Threaded Fittings - Classes 150 and 300 (revision of ANSI/ASME B16.3-2016)

BSR/ASME B16.4-202x, Gray Iron Threaded Fittings - Classes 125 and 250 (revision of ANSI/ASME B16.4-2016)

BSR/ASME B16.11-202x, Forged Fittings, Socket-Welding and Threaded (revision of ANSI/ASME B16.11-2016)

BSR/ASME B16.18-202x, Cast Copper Alloy Solder Joint Pressure Fittings (revision of ANSI/ASME B16.18-2018)

BSR/ASME B16.22-202x, Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings (revision of ANSI/ASME B16.22-2018)

BSR/ASME B16.23-202x, Cast Copper Alloy Solder Joint Drainage Fittings: DWV (revision of ANSI/ASME B16.23-2016)

BSR/ASME B16.24-202x, Cast Copper Alloy Pipe Flanges, Flanged Fittings, and Valves - Classes 150, 300, 600, 900, 1500, and 2500 (revision of ANSI/ASME B16.24-2016)

BSR/ASME B16.42-202x, Ductile Iron Pipe Flanges and Flanged Fittings - Classes 150 and 300 (revision of ANSI/ASME B16.42-2016)

BSR/ASME B16.50-202x, Wrought Copper and Copper Alloy Braze-Joint Pressure Fittings (revision of ANSI/ASME B16.50-2018)

BSR/ASME B16.51-202x, Copper and Copper Alloy Press-Connect Pressure Fittings (revision of ANSI/ASME B16.51-2018)

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

Drew Greco; dgreco@atis.org

BSR/ATIS 0600015.01-202x, Energy Efficiency for Telecommunications Equipment: Methodology for Measurement and Reporting - Server Requirements (revision of ANSI/ATIS 0600015.01-2014)

BSR/ATIS 0600015.02-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement & Reporting - Transport & Optical Access Requirements (reaffirmation of ANSI/ATIS 0600015.02-2016)

ATIS (Alliance for Telecommunications Industry Solutions)

1200 G Street NW, Suite 500, Washington, DC 20005 | dgreco@atis.org, www.atis.org

BSR/ATIS 0600015.03-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for Router and Ethernet Switch Products (reaffirmation of ANSI/ATIS 0600015.03-2016)

BSR/ATIS 0600015.11-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting DC/DC Converter Requirements (reaffirmation of ANSI/ATIS 0600015.11-2016)

BSR/ATIS 0600015.12-2016 (R202x), Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting Power Systems - Uninterruptible Power Supply Requirements (reaffirmation of ANSI/ATIS 0600015.12-2016)

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org
Jennifer Rosario; jrosario@aws.org

BSR/AWS B2.1-1-210-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, INMs-1, and ER70S-2, As-Welded or PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1-210-2012)

BSR/AWS B2.1-1-211-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, INMs-1, ER70S-2, and E7018, As-Welded or PWHT Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1-211-2012)

BSR/AWS B2.1-5A-222-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), ER90S-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 3/4 inch [19 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

BSR/AWS B2.1-5A-223-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [13 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

BSR/AWS B2.1-5A-224-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), ER90S-B3 and E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

BSR/AWS B2.1-5A-225-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) of Chromium-Molybdenum Steel (M-5A/P-5A), IN521 and ER90S-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 3/4 inch [19 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

BSR/AWS B2.1-5A-226-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding (Consumable Insert Root) followed by Shielded Metal Arc Welding of Chromium-Molybdenum Steel (M-5A/P-5A), IN521, ER90S-B3, and E9018-B3, 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, As-Welded Condition; 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, PWHT Condition, Primarily Pipe Applications (new standard)

BSR/AWS B2.1-8-024-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/16 through 1-1/2 inch Thick, ER3XX, As-Welded Condition Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-8-024-2012)

BSR/AWS B2.1-8-025-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-8-025-2012)

BSR/AWS B2.1-8-212-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/16 through 1-1/2 inch Thick, ER3XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-212-2012)

BSR/AWS B2.1-8-213-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-213-2012)

BSR/AWS B2.1-8-214-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, ER3XX and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-214-2012)

BSR/AWS B2.1-8-215-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, IN3XX and ER3XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-215-2012)

BSR/AWS B2.1-8-216-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, IN3XX, ER3XX, and E3XX-XX, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-8-216-2012)

BSR/AWS B2.1-1/8-227-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 through 1-1/2 inch Thick, ER309(L), As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-227-2002 (R2013))

BSR/AWS B2.1-1/8-228-202x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, E309(L)-15, -16, or -17, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-228-2002 (R2013))

AWS (American Welding Society)

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BSR/AWS B2.1-1/8-229-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 through 1-1/2 inch Thick, ER309(L) and E309(L)-15, -16, or -17, As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-229-2002 (R2013))

BSR/AWS B2.1-1/8-230-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/16 through 1-1/2 inch Thick, IN309 and ER309(L), As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-230-2002 (R2013))

BSR/AWS B2.1-1/8-231-202x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding with Consumable Insert Root followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Groups 1 or 2) to Austenitic Stainless Steel (M-8/P-8, Group 1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, IN309, ER309(L), and E309(L)-XX, in the As-Welded Condition, Primarily Pipe Applications (revision of ANSI/AWS B2.1-1/8-231:2015)

BSR/AWS B2.1-1-003-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Galvanized Steel (M-1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-003-2002 (R2013))

BSR/AWS B2.1-1-004-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel, (M-1, Group 1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-004-2002 (R2013))

BSR/AWS B2.1-1-007-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Galvanized Steel (M-1), 18 through 10 Gauge, in the As-Welded Condition with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-007-2002 (R2013))

BSR/AWS B2.1-1-008-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1, P-1, or S-1), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-008-2002 (R2013))

BSR/AWS B2.1-1-011-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Galvanized Steel (M-1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-011-2002 (R2013))

BSR/AWS B2.1-1-012-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel, 10 through 18 Gauge (M-1, P-1, or S-1 to M-1, P-1, or S-1), in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1-012-2002 (R2013))

BSR/AWS B2.1-8-005-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Austenitic Stainless Steel (M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-005-2002 (R2013))

AWS (American Welding Society)

8669 NW 36th Street, Suite 130, Miami, FL 33166-6672 | jrosario@aws.org, www.aws.org

BSR/AWS B2.1-8-009-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Austenitic Stainless Steel (M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-009-2002 (R2013))

BSR/AWS B2.1-8-013-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-8-013-2002 (R2013))

BSR/AWS B2.1-1/8-006-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel to Austenitic Stainless Steel (M-1 to M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1/8-006-2002 (R2013))

BSR/AWS B2.1-1/8-014-2002 (S202x), Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel to Austenitic Stainless Steel (M-1 to M-8/P-8/S-8, Group 1), 10 through 18 Gauge, in the As-Welded Condition, with or without Backing (stabilized maintenance of ANSI/AWS B2.1-1/8-014-2002 (R2013))

BSR/AWS NAVSEA B2.1-1-302-202x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Plate and Structural Naval Applications (revision of ANSI/AWS-NAVSEA B2.1-1-302-2015)

BSR/AWS NAVSEA B2.1-1-312-202x, Standard Welding Procedure Specification for Naval Applications (SWPS-N) for Shielded Metal Arc Welding of Carbon Steel (S-1), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, MIL-7018-M, in the As-Welded or PWHT Condition, Primarily Pipe for Naval Applications (revision of ANSI/AWS-NAVSEA B2.1-1-312-2015)

FM (FM Approvals)

1151 Boston-Providence Turnpike, Norwood, MA 02062 | josephine.mahnken@fmaprovals.com, www.fmglobal.com
Josephine Mahnken; josephine.mahnken@fmaprovals.com

BSR/FM 1950-202x, Seismic Sway Braces for Pipe, Tubing, and Conduit (revision of ANSI/FM 1950-2016)

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

700 K Street NW, Suite 600, Washington, DC 20001 | comments@standards.incits.org, www.incits.org
Deborah Spittle; comments@standards.incits.org

INCITS/ISO/IEC 21836:2020 [202x], Information technology - Data centres - Server energy effectiveness metric (identical national adoption of ISO/IEC 21836:2020)

NSF (NSF International)

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

BSR/NSF 14-202x (i114r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2020)

NSF (NSF International)

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

BSR/NSF 358-4-202x (i2r1), Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems (revision of ANSI/NSF 358-4-2018)

BSR/NSF 385-202x (i3r3), Disinfection Mechanics (revision of ANSI/NSF 385-2019)

BSR/NSF 505-202x (i2r1), Conformity Assessment Requirements for Certification Bodies that Certify Products Pursuant to NSF/ANSI/CAN 50: Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water (revision of ANSI/NSF 505-2021)

TAPPI (Technical Association of the Pulp and Paper Industry)

15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092 | standards@tappi.org, www.tappi.org
William Millians; standards@tappi.org

BSR/TAPPI T 525 om-202x, Diffuse brightness of paper, paperboard and pulp (d/0) -- ultraviolet level C (new standard)

Call for Members (ANS Consensus Bodies)

ANSI Accredited Standards Developer

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

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

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

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

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

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

ANSI Accredited Standards Developer

SCTE (Society of Cable Telecommunications Engineers)

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

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

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

Accreditation Announcements (Standards Developers)

Approval of Reaccreditation – ASD

CGA - Compressed Gas Association

Effective September 13, 2021

The reaccreditation of **CGA - Compressed Gas Association** has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on CGA-sponsored American National Standards, effective **September 13, 2021**. For additional information, please contact: Kristy Mastromichalis, Compressed Gas Association (CGA) | 8484 Westpark Drive, Suite 220, McLean, VA 22102 | (703) 788-2728, kmastromichalis@cganet.com

Approval of Reaccreditation – ASD

IAPMO - International Association of Plumbing & Mechanical Officials

Effective September 7, 2021

ANSI's Executive Standards Council has approved the reaccreditation of the **International Association of Plumbing and Mechanical Officials (IAPMO)** under its recently revised operating procedures (*Regulations Governing Committee Projects; Regulations Governing Consensus Development of the Uniform Solar, Hydronics & Geothermal and Swimming Pool, Spa and Hot Tub Codes; and Policies and Procedures for Consensus Development of American National Standards (IAPMO Z and ASSE Standards)*) for documenting consensus on IAPMO-sponsored-American National Standards, effective **September 7, 2021**. For additional information, please contact: Hugo Aguilar, P.E., Senior Vice President of Codes and Standards, IAPMO, 4755 E. Philadelphia Street, Ontario, CA 91761; phone: 909.472.4111, M: (909) 615-2349; email: hugo.aguilar@iapmo.org

Meeting Notices (Standards Developers)

ANSI Accredited Standards Developer

ASSP (Safety) - American Society of Safety Professionals

Meeting Date: October 26, 2021

American Society of Safety Professionals (ASSP) – ANSI Z15 Committee. The American Society of Safety Professionals (ASSP) is the secretariat for ANSI Z15 Committee for Safety Requirements for Motor Vehicle Operations. The next Z15 meeting will take place virtually on October 26, 2021. Those interested in participating can contact ASSP for additional information at rblanchette@assp.org.

ANSI Accredited Standards Developer

CSA - CSA America Standards Inc.

Teleconference Time: November 17, 2021 from 12 p.m. to 3 p.m. EST

CSA Group will hold the *Fuel Cell Technical Committee* meeting by teleconference on **November 17, 2021 from 12 p.m. to 3 p.m. EST**. For more information on the meeting and the agenda, contact Mark Duda at mark.duda@csagroup.org.

Guests planning to attend the meeting are required to notify the project manager listed below in advance of the meeting, and provide a brief explanation of interest. If you wish to present specific comments on an item of business, you are required to notify the project manager in writing no later than **October 6, 2021**. Notification shall include any material proposed for presentation to the Technical Committee. For information, please contact Project Manager, Mark Duda at mark.duda@csagroup.org.

American National Standards (ANS) Process

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

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

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

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

If you have a question about the ANS process and cannot find the answer, please email us at: psa@ansi.org . Please also visit Standards Boost Business at www.standardsboostbusiness.org for resources about why standards matter, testimonials, case studies, FAQs and more.

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

American National Standards Under Continuous Maintenance

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

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

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

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

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

ANSI-Accredited Standards Developers (ASD) Contacts

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

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ISO & IEC Draft International Standards

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

COMMENTS

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

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

ORDERING INSTRUCTIONS

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

ISO Standards

Additive manufacturing (TC 261)

ISO/ASTM DIS 52931, Additive manufacturing of metals - Environment, health and safety - General principles for use of metallic materials - 11/25/2021, \$107.00

Agricultural food products (TC 34)

ISO/DIS 20716, Oolong tea - Definition and basic requirements - 11/28/2021, \$46.00

Aircraft and space vehicles (TC 20)

ISO/FDIS 21384-2, Unmanned aircraft systems - Part 2: UAS components - 11/25/2021, \$107.00

Biotechnology (TC 276)

ISO/DIS 24603, Biotechnology - Biobanking - Requirements for human and mouse pluripotent stem cells - 11/25/2021, \$93.00

ISO/DIS 24651, Biotechnology - Biobanking - Requirements for human mesenchymal stromal cells derived from bone marrow - 11/25/2021, \$88.00

Building environment design (TC 205)

ISO/FDIS 52120-1, Energy performance of buildings - Contribution of building automation and controls and building management - Part 1: General framework and procedures - 11/25/2021, \$155.00

Cranes (TC 96)

ISO/FDIS 12210, Cranes - Anchoring devices for in-service and out-of-service conditions - 11/25/2021, \$29.00

Cycles (TC 149)

ISO/DIS 8098, Cycles - Safety requirements for bicycles for young children - 12/2/2021, \$119.00

Environmental management (TC 207)

ISO/DIS 14015, Environmental management - Guidelines for Environmental Due Diligence Assessment - 11/25/2021, \$93.00

Ergonomics (TC 159)

ISO/FDIS 8996, Ergonomics of the thermal environment - Determination of metabolic rate - 11/25/2021, \$93.00

Fasteners (TC 2)

ISO/FDIS 3506-5, Fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 5: Special fasteners (also including fasteners from nickel alloys) for high temperature applications - 11/25/2021, \$112.00

Fluid power systems (TC 131)

ISO/DIS 12238, Pneumatic fluid power - Directional control valves - Measurement of shifting time - 11/27/2021, \$67.00

Geographic information/Geomatics (TC 211)

ISO/DIS 19168-2, Geographic information - Geospatial API for features - Part 2: Coordinate Reference Systems by Reference - 11/27/2021, \$67.00

Industrial trucks (TC 110)

ISO/FDIS 23434-1, Industrial trucks - Sustainability - Part 1: Vocabulary - 11/25/2021, \$46.00

ISO/FDIS 23434-2, Industrial trucks - Sustainability - Part 2: Factors and reporting - 11/25/2021, \$46.00

Information and documentation (TC 46)

ISO/DIS 2789, Information and documentation - International library statistics - 11/25/2021, \$165.00

Iron ores (TC 102)

ISO/DIS 7992, Iron ores for blast furnace feedstocks - Determination of reduction under load - 11/25/2021, \$58.00

Mining (TC 82)

ISO/FDIS 23872, Mining structures - Underground structures -
11/25/2021, \$112.00

Paints and varnishes (TC 35)

ISO/DIS 8504-4, Preparation of steel substrates before application of
paints and related products - Surface preparation methods - Part
4: Acid pickling - 11/25/2021, \$46.00

Paper, board and pulps (TC 6)

ISO/DIS 5263-3, Pulps - Laboratory wet disintegration - Part 3:
Disintegration of mechanical pulps at >85°C - 11/25/2021, \$53.00

Personal safety - Protective clothing and equipment (TC 94)

ISO/DIS 16976-4, Respiratory protective devices - Human factors -
Part 4: Work of breathing and breathing resistance:
Physiologically based limits - 11/28/2021, \$67.00

Plastics (TC 61)

ISO/DIS 5412, Biodegradable plastic shopping bags for industrial
composting - 11/25/2021, \$62.00

ISO/DIS 5424, Industrial compostable drinking straws - 11/25/2021,
\$53.00

Rubber and rubber products (TC 45)

ISO/FDIS 6801, Rubber and plastics hoses - Determination of
volumetric expansion - 11/25/2021, \$33.00

ISO/DIS 24329, Low-protein natural rubber latex concentrate -
Specification - 11/25/2021, \$40.00

Security (TC 292)

ISO/DIS 22361, Security and resilience - Crisis management -
Guidelines for a strategic capability - 11/25/2021, \$107.00

Service activities relating to drinking water supply systems and wastewater systems - Quality criteria of the service and performance indicators (TC 224)

ISO/DIS 24525, Activities relating to drinking water and wastewater
services - Guidelines for the management of basic on-site
domestic wastewater services - Operation and maintenance
activities - 11/25/2021, \$146.00

Soil quality (TC 190)

ISO/FDIS 24032, Soil quality - In situ caging of snails to assess
bioaccumulation of contaminants - 11/25/2021, \$125.00

Solid mineral fuels (TC 27)

ISO/DIS 23380, Coal - Selection of methods for the determination of
trace elements - 11/25/2021, \$46.00

Steel wire ropes (TC 105)

ISO/DIS 2232, Round non-alloy steel wires for general purpose wire
ropes, large diameter wire ropes and mine hoisting wire ropes -
Specifications - 11/25/2021, \$77.00

Traditional Chinese medicine (TC 249)

ISO/FDIS 23419, Traditional Chinese medicine - General
requirements for manufacturing procedures and quality
assurance of granules - 11/25/2021, \$71.00

Welding and allied processes (TC 44)

ISO/FDIS 10675-1, Non-destructive testing of welds - Acceptance
levels for radiographic testing - Part 1: Steel, nickel, titanium and
their alloys - 11/25/2021, \$62.00

ISO/FDIS 10675-2, Non-destructive testing of welds - Acceptance
levels for radiographic testing - Part 2: Aluminium and its alloys -
11/25/2021, \$62.00

ISO/DIS 15614-4, Specification and qualification of welding
procedures for metallic materials - Welding procedure test - Part
4: Finishing welding of aluminium castings - 11/25/2021, \$71.00

ISO/DIS 15614-6, Specification and qualification of welding
procedures for metallic materials - Welding procedure test - Part
6: Arc and gas welding of copper and its alloys - 11/25/2021,
\$88.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 27005, Information security, cybersecurity and privacy
protection - Guidance on managing information security risks -
12/2/2021, \$134.00

ISO/IEC FDIS 15961-1, Information technology - Data protocol for
radio frequency identification (RFID) for item management - Part
1: Application interface - 11/25/2021, \$175.00

ISO/IEC DIS 27036-2, Cybersecurity - Supplier relationships - Part 2:
Requirements - 11/25/2021, \$107.00

ISO/IEC/IEEE FDIS 14764, Software engineering - Software life cycle
processes - Maintenance - 11/25/2021, \$107.00

IEC Standards

46/827(F)/CDV, IEC 62037-7 ED1: Passive RF and microwave devices,
intermodulation level measurement - Part 7: Field measurements
of passive intermodulation, 11/26/2021

46F/575(F)/CDV, IEC 61169-69 ED1: Radio Frequency Connectors -
Part 69: Sectional specification for series SMP3 RF coaxial
connectors, 11/26/2021

59L/207/CDV, IEC 61855 ED2: Household and similar use electrical
hair care appliances - Methods for measuring the performance,
12/03/2021

62A/1458/FDIS, IEC 81001-5-1 ED1: Health software and health IT
systems safety, effectiveness and security - Part 5-1: Security -
Activities in the product life cycle, 10/22/2021

65B/1204/CDV, IEC 63206 ED1: Industrial-process control systems - Recorders, 12/03/2021

82/1948/DTS, IEC TS 63349-2 ED1: Photovoltaic direct-driven appliance controllers - Part 2: Operation modes and an example of display, 12/03/2021

87/777/DTS, IEC TS 62736 ED2: Ultrasonics - Pulse-echo scanners - Simple methods for periodic testing to verify stability of an imaging system's elementary performance, 12/03/2021

94/539/NP, PNW 94-539 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-10: Heating, 11/05/2021

94/540/NP, PNW 94-540 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-11: Enclosure and Degree of Protection (IP code), 11/05/2021

94/541/NP, PNW 94-541 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-18: Thermal resistance of the coil, 11/05/2021

94/542/NP, PNW 94-542 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-22: Limiting continuous current, 11/05/2021

94/543/NP, PNW 94-543 ED1: All-or-nothing electrical relays - Testing and measurement - Part 7-24: Load transfer, 11/05/2021

94/544/NP, PNW 94-544 ED1: All-or-nothing electrical relays - Tests and measurements - Part 7-37: Temperature rise at rated load, 11/05/2021

94/545/NP, PNW 94-545 ED1: All-or-nothing electrical relays - Tests and measurements - Part 7-21: Thermal Endurance, 11/05/2021

94/546/NP, PNW 94-546 ED1: All-or-nothing electrical relays - Tests and measurements - Part 7-6: Contact-circuit resistance (or voltage drop), 11/05/2021

94/547/NP, PNW 94-547 ED1: All-or-nothing electrical relays - Tests and measurements - Part 7-3: Relay coil properties, 11/05/2021

CIS/B/783/CD, CISPR 37 ED1: Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods for measurements in situ and at defined sites, 12/03/2021

All-or-nothing electrical relays (TC 94)

94/537/NP, PNW 94-537 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-13: Corrosive Atmospheres, 11/05/2021

94/538/NP, PNW 94-538 ED1: All-or-nothing electrical relays - Tests and Measurements - Part 7-30: Contact sticking (delayed release), 11/05/2021

Cables, wires, waveguides, r.f. connectors, and accessories for communication and signalling (TC 46)

46/828(F)/CDV, IEC 62037-8 ED1: Measurement of passive intermodulation generated by objects exposed to RF radiation, 11/26/2021

46/834/FDIS, IEC 62037-1 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods, 10/22/2021

46/835/FDIS, IEC 62037-2 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 2: Measurement of passive intermodulation in coaxial cable assemblies, 10/22/2021

46/836/FDIS, IEC 62037-3 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors, 10/22/2021

46/837/FDIS, IEC 62037-5 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 5: Measurement of passive intermodulation in filters, 10/22/2021

46/838/FDIS, IEC 62037-6 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 6: Measurement of passive intermodulation in antennas, 10/22/2021

46A/1523/CD, IEC 61196-5 ED4: Coaxial communication cables - Part 5: Sectional specification for CATV trunk and distribution cables, 12/03/2021

Electric cables (TC 20)

20/1976/CD, IEC 61442 ED3: Test methods for accessories for power cables with rated voltages from 6 kV ($U_m = 7,2$ kV) up to 30 kV ($U_m = 36$ kV), 12/03/2021

Electrical accessories (TC 23)

23A/977/CDV, IEC 61537 ED3: Cable management - Cable tray systems and cable ladder systems, 12/03/2021

Electrical equipment in medical practice (TC 62)

62B/1251/CDV, IEC 60601-2-54 ED2: Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy, 12/03/2021

62D/1892/CDV, IEC 80601-2-59/AMD1 ED2: Amendment 1 - Medical electrical equipment - Part 2-59: Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening, 12/03/2021

62D/1897/CDV, IEC 80601-2-26/AMD1 ED1: Amendment 1 - Medical electrical equipment - Part 2-26: Particular requirements for the basic safety and essential performance of electroencephalograph, 12/03/2021

Electromagnetic compatibility (TC 77)

77C/318/FDIS, IEC 61000-2-10 ED2: Electromagnetic compatibility (EMC) - Part 2-10: Environment - Description of HEMP environment - Conducted disturbance, 10/22/2021

Fibre optics (TC 86)

86B/4495(F)/CDV, IEC 61300-2-43 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-43: Tests - Screen testing of return loss of single-mode PC optical fibre connectors, 11/19/2021

86B/4496(F)/CDV, IEC 61300-3-4 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-4: Examinations and measurements - Attenuation, 11/19/2021

86B/4503/CDV, IEC 61300-2-5 ED4: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-5: Tests - Torsion, 12/03/2021

86B/4504/CDV, IEC 61300-3-35 ED3: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-35: Examinations and measurements - Visual inspection of fibre optic connectors and fibre-stub transceivers, 12/03/2021

Flat Panel Display Devices (TC 110)

110/1338/CDV, IEC 62629-62-11 ED1: 3D display devices - Part 62-11: Measurement methods for virtual-image type - Optical, 12/03/2021

High Voltage Direct Current (HVDC) transmission for DC voltages above 100 kV (TC 115)

115/276/DTS, IEC TS 62344 ED2: Design of earth electrode stations for high-voltage direct current (HVDC) links - General guidelines, 12/03/2021

Industrial-process measurement and control (TC 65)

65E/803/CD, IEC 62453-1 ED3: Field device tool (FDT) interface specification - Part 1: Overview and guidance, 11/05/2021

Power electronics (TC 22)

22H/278/CD, IEC 62040-1/AMD2 ED2: Amendment 2 - Uninterruptible power systems (UPS) - Part 1: Safety requirements, 11/05/2021

Ultrasonics (TC 87)

87/776/DTS, IEC TS 62791 ED2: Ultrasonics - Pulse-echo scanners - Low-echo sphere phantoms and method for performance testing of gray-scale medical ultrasound scanners applicable to a broad range of transducer types, 12/03/2021



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

Acoustics (TC 43)

[ISO 3381:2021](#), Railway applications - Acoustics - Noise measurement inside railbound vehicles, \$200.00

Agricultural food products (TC 34)

[ISO 11132:2021](#), Sensory analysis - Methodology - Guidelines for the measurement of the performance of a quantitative descriptive sensory panel, \$149.00

[ISO 23781:2021](#), Operating procedures of pig slaughtering, \$73.00

[ISO 23854:2021](#), Fermented meat products - Specification, \$73.00

[ISO 23855:2021](#), Frozen surimi - Specification, \$73.00

[ISO 23970:2021](#), Milk, milk products and infant formula - Determination of melamine and cyanuric acid by liquid chromatography and tandem mass spectrometry (LC-MS/MS), \$111.00

Air quality (TC 146)

[ISO 24095:2021](#), Workplace air - Guidance for the measurement of respirable crystalline silica, \$200.00

Aircraft and space vehicles (TC 20)

[ISO 23020:2021](#), Space systems - Determination of test methods to characterize material or component properties required for break-up models used for Earth re-entry, \$111.00

[ISO 23670:2021](#), Space systems - Vibration testing, \$175.00

Building environment design (TC 205)

[ISO 11855-2:2021](#), Building environment design - Embedded radiant heating and cooling systems - Part 2: Determination of the design heating and cooling capacity, \$225.00

Cleaning equipment for air and other gases (TC 142)

[ISO 29461-1:2021](#), Air intake filter systems for rotary machinery - Test methods - Part 1: Static filter elements, FREE

Dentistry (TC 106)

[ISO 6877:2021](#), Dentistry - Endodontic obturating materials, \$111.00

Dimensional and Geometrical Product Specifications and Verification (TC 213)

[ISO 10360-13:2021](#), Geometrical product specifications (GPS) - Acceptance and reverification tests for coordinate measuring systems (CMS) - Part 13: Optical 3D CMS, \$225.00

Energy management and energy savings (TC 301)

[ISO 50005:2021](#), Energy management systems - Guidelines for a phased implementation, \$200.00

Environmental management (TC 207)

[ISO 14030-1:2021](#), Environmental performance evaluation - Green debt instruments - Part 1: Process for green bonds, \$111.00

[ISO 14030-2:2021](#), Environmental performance evaluation - Green debt instruments - Part 2: Process for green loans, \$111.00

[ISO 14030-4:2021](#), Environmental performance evaluation - Green debt instruments - Part 4: Verification programme requirements, \$73.00

Ergonomics (TC 159)

[ISO 14505-4:2021](#), Ergonomics of the thermal environment - Evaluation of thermal environments in vehicles - Part 4: Determination of the equivalent temperature by means of a numerical manikin, \$200.00

[ISO 23456-1:2021](#), Dynamic signs in physical environments - Part 1: General requirements, \$73.00

Footwear (TC 216)

[ISO 19957:2021](#), Footwear - Test methods for heels - Heel pin holding strength, \$73.00

Governance of organizations (TC 309)

[ISO 37000:2021](#), Governance of organizations - Guidance, \$200.00

Industrial automation systems and integration (TC 184)

[ISO 10303-59:2021](#), Industrial automation systems and integration - Product data representation and exchange - Part 59: Integrated generic resource: Quality of product shape data, \$250.00

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

[ISO 18797-2:2021](#), Petroleum, petrochemical and natural gas industries - External corrosion protection of risers by coatings and linings - Part 2: Maintenance and field repair coatings for riser pipes, \$225.00

Mechanical vibration and shock (TC 108)

[ISO 18436-6:2021](#), Condition monitoring and diagnostics of machines - Requirements for certification of personnel - Part 6: Acoustic emission, \$73.00

Optics and optical instruments (TC 172)

[ISO 9211-7:2021](#), Optics and photonics - Optical coatings - Part 7: Minimum requirements for neutral beam splitter coatings, \$48.00

Refractories (TC 33)

[ISO 8840:2021](#), Refractory materials - Determination of bulk density of granular materials (grain density), \$111.00

Risk management (TC 262)

[ISO 31030:2021](#), Travel risk management - Guidance for organizations, \$200.00

Road vehicles (TC 22)

[ISO 2575:2021](#), Road vehicles - Symbols for controls, indicators and tell-tales, \$225.00

[ISO 23274-2:2021](#), Hybrid-electric road vehicles - Exhaust emissions and fuel consumption measurements - Part 2: Externally chargeable vehicles, \$111.00

Rubber and rubber products (TC 45)

[ISO 6450:2021](#), Rubber- or plastics-coated fabrics - Determination of resistance to liquids, \$73.00

[ISO 22941:2021](#), Rubber sheets for livestock - Dairy cattle - Specification, \$73.00

Ships and marine technology (TC 8)

[ISO 24136:2021](#), Ships and marine technology - Pilot ladder winch reels, \$73.00

Timber (TC 218)

[ISO 24294:2021](#), Timber - Round and sawn timber - Vocabulary, \$48.00

Welding and allied processes (TC 44)

[ISO 3834-1:2021](#), Quality requirements for fusion welding of metallic materials - Part 1: Criteria for the selection of the appropriate level of quality requirements, \$48.00

ISO Technical Reports**Transport information and control systems (TC 204)**

[ISO/TR 4445:2021](#), Intelligent transport systems - Mobility integration - Role model of ITS service application in smart cities, \$200.00

ISO Technical Specifications**Essential oils (TC 54)**

[ISO/TS 24106:2021](#), Essential oils - Name harmonization of components, \$73.00

Fluid power systems (TC 131)

[ISO/TS 13725:2021](#), Hydraulic fluid power - Method for evaluating the buckling load of a hydraulic cylinder, \$149.00

Implants for surgery (TC 150)

[ISO/TS 17137:2021](#), Cardiovascular implants and extracorporeal systems - Cardiovascular absorbable implants, \$200.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 27551:2021](#), Information security, cybersecurity and privacy protection - Requirements for attribute-based unlinkable entity authentication, \$175.00

[ISO/IEC 10918-7:2021](#), Information technology - Digital compression and coding of continuous-tone still images - Part 7: Reference software, \$111.00

[ISO/IEC 18014-2:2021](#), Information security - Time-stamping services - Part 2: Mechanisms producing independent tokens, \$149.00

[ISO/IEC 18033-1:2021](#), Information security - Encryption algorithms - Part 1: General, \$111.00

[ISO/IEC 18745-2:2021](#), Test methods for machine readable travel documents (MRTD) and associated devices - Part 2: Test methods for the contactless interface, \$175.00

[ISO/IEC 27036-1:2021](#), Cybersecurity - Supplier relationships - Part 1: Overview and concepts, \$73.00

[ISO/IEC 15444-16:2021](#), Information technology - JPEG 2000 image coding system - Part 16: Encapsulation of JPEG 2000 images into ISO/IEC 23008-12, \$73.00

[ISO/IEC 19763-16:2021](#), Information technology - Metamodel framework for interoperability (MFI) - Part 16: Metamodel for document model registration, \$225.00

[ISO/IEC/IEEE 8802-1Q:2020/Amd 2:2021](#), Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 1Q: Bridges and bridged networks - Amendment 2: YANG data model, \$73.00

[ISO/IEC/IEEE 8802-1AX:2021](#), Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 1AX: Link aggregation, \$250.00

[ISO/IEC/IEEE 8802-1Q:2020/Amd 3:2021](#), Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 1Q: Bridges and bridged networks - Amendment 3: Virtual station interface (VSI) discovery and configuration protocol (VDP) extension to support network virtualization overlays over layer 3 (NVO3), \$73.00

Other

[ISO/IEC 17030:2021](#), Conformity assessment - General requirements for third-party marks of conformity, \$73.00

IEC Standards

Audio, video and multimedia systems and equipment (TC 100)

[IEC 61606-1 Ed. 2.0 b:2009](#), Audio and audiovisual equipment - Digital audio parts - Basic measurement methods of audio characteristics - Part 1: General, \$221.00

[IEC 61606-2 Ed. 2.0 b:2009](#), Audio and audiovisual equipment - Digital audio parts - Basic measurement methods of audio characteristics - Part 2: Consumer use, \$259.00

Environmental standardization for electrical and electronic products and systems (TC 111)

[IEC 62321-3-3 Ed. 1.0 b:2021](#), Determination of certain substances in electrotechnical products - Part 3-3: Screening - Polybrominated biphenyls, polybrominated diphenyl ethers and phthalates in polymers by gas chromatography-mass spectrometry using a pyrolyser/thermal desorption accessory (Py/TD GC MS), \$310.00

Fibre optics (TC 86)

[IEC 61753-111-09 Ed. 1.0 b:2021](#), Fibre optic interconnecting devices and passive components - Performance standard - Part 111-09: Sealed closures - Category S - Subterranean, \$221.00

Measuring equipment for electromagnetic quantities (TC 85)

[IEC 62586-2 Amd.1 Ed. 2.0 b:2021](#), Amendment 1 - Power quality measurement in power supply systems - Part 2: Functional tests and uncertainty requirements, \$221.00

[IEC 62586-2 Ed. 2.1 b:2021](#), Power quality measurement in power supply systems - Part 2: Functional tests and uncertainty requirements, \$822.00

Other

[IEC 63152 Ed. 1.0 b:2020](#), Smart cities - City service continuity against disasters - The role of the electrical supply, \$183.00

Power electronics (TC 22)

[IEC 60700-1 Amd.1 Ed. 2.0 b:2021](#), Amendment 1 - Thyristor valves for high voltage direct current (HVDC) power transmission - Part 1: Electrical testing, \$25.00

[IEC 60700-1 Ed. 2.1 b:2021](#), Thyristor valves for high voltage direct current (HVDC) power transmission - Part 1: Electrical testing, \$380.00

[IEC 62040-3 Ed. 3.0 b:2021](#), Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements, \$417.00

Safety of machinery - Electrotechnical aspects (TC 44)

[IEC 60204-SER Ed. 1.0 b:2021](#), Safety of machinery - Electrical equipment of machines - ALL PARTS, \$1975.00

[IEC 60204-1 Amd.1 Ed. 6.0 b:2021](#), Amendment 1 - Safety of machinery - Electrical equipment of machines - Part 1: General requirements, \$51.00

[IEC 60204-1 Ed. 6.1 b:2021](#), Safety of machinery - Electrical equipment of machines - Part 1: General requirements, \$633.00

Semiconductor devices (TC 47)

[IEC 63244-1 Ed. 1.0 b:2021](#), Semiconductor devices - Semiconductor devices for wireless power transfer and charging - Part 1: General requirements and specifications, \$259.00

IEC Technical Specifications

Solar photovoltaic energy systems (TC 82)

[IEC/TS 63163 Ed. 1.0 en:2021](#), Terrestrial photovoltaic (PV) modules for consumer products - Design qualification and type approval, \$183.00

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.

When organization names are submitted to ANSI for registration, they will be listed here alphanumerically.

Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

Public Review

FiRa

Public Review: June 25 through September 27, 2021

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

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

Proposed Foreign Government Regulations

Call for Comment

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

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

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

For further information about the USA TBT Inquiry Point, please visit: <https://www.nist.gov/standardsgov/what-we-do/trade-regulatory-programs/usa-wto-tbt-inquiry-point> Contact the USA TBT Inquiry Point at (301) 975-2918; F: (301) 926-1559; E: usatbtep@nist.gov or notifyus@nist.gov.



**BSR/ASHRAE Addendum *k* to
ANSI/ASHRAE Standard 154-2016**

Public Review Draft

Proposed Addendum *k* to Standard 154-2016, Ventilation for Commercial Cooking Operations

**First Public Review (September 2021)
(Draft shows Proposed Changes to Current Standard)**

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

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

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FOREWORD

Addendum K makes changes to Section 5.5.3 to reflect the latest listing requirement for pollution control units (PCUs) for commercial cooking applications and harmonizes this requirement with IMC 2021, Section 506.5.2. Also, UL 8782 is added to the reference section.

5.5.3 Pollution control units equipped or not equipped with electrostatic precipitators shall be listed in accordance with UL8782, ~~the applicable requirements of UL710⁵ and UL1978⁸. Pollution control units equipped with electrostatic precipitators shall be listed in accordance with UL867¹⁷ and the applicable requirements of UL710⁵ and UL1978⁸.~~

Add to Section 9 References

19. UL. 2017 Issue Number 1, UL 8782, *Outline of Investigation for Pollution Control Units for Commercial Cooking Operations*, Northbrook, IL: Underwriters Laboratories, Inc.



**BSR/ASHRAE Addendum / to
ANSI/ASHRAE Standard 154-2016**

Public Review Draft

Proposed Addendum / to Standard 154-2016, Ventilation for Commercial Cooking Operations

**First Public Review (September 2021)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum adds requirements in the standard for equipment installed inline commercial grease ducts and the stated requirements in agreement with IMC 2021 and NFPA 96 2021.

5.5 Other Equipment

5.5.1 Thermal recovery units, air pollution control devices, or other devices can be used in the exhaust systems when specifically approved for such use ~~except where prohibited. Refer to Section 514.2 of the International Mechanical Code,¹⁰ for prohibited applications.~~

5.5.1.1. Thermal recovery units and air pollution control devices shall be listed to UL 8782.

1. Devices requiring an hourly fire-rated enclosure, if not installed within a traditional site-built shaft enclosure, shall have an approval to UL 2221 or ASTM E2336.
2. Access door(s) for routine maintenance and cleaning shall be integral or installed adjacent to the device as required by the manufacturer and their listing.
3. Thermal transfer method shall be limited to sensible heat coil or plate type design only.
4. For solid fuel cooking, grease/creosote removal devices must be installed upstream of thermal recovery units.



**BSR/ASHRAE Addendum *m* to
ANSI/ASHRAE Standard 154-2016**

Public Review Draft

Proposed Addendum *m* to Standard 154-2016, Ventilation for Commercial Cooking Operations

**First Public Review (September 2021)
(Draft shows Proposed Changes to Current Standard)**

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FOREWORD

This addendum is in response to COVID and variant pandemic concerns. Standard 62.1 allows use of outdoor air supplied and used for adjacent spaces of the kitchen as replacement air for kitchen exhaust if it is deemed to be class 2 air. Standard 62.1 is a better medium to address virus spread and air classification as the standard is revised to minimize virus spread and herein reflected in this addendum.

Section 6.2.1 Design plans for a facility with a commercial kitchen ventilation system shall include a table or diagram indicating the design outdoor air balance (see Informative Annex A, Section A1). The design outdoor air balance shall indicate all exhaust and replacement air for the facility, plus the net exfiltration if applicable. The total replacement air airflow rate shall equal the total exhaust airflow rate plus the net exfiltration. It is permissible to supply replacement air to the kitchen space by using transfer air from areas other than the kitchen that meets air classification requirements per ASHRAE Standard 62.1.”

ASME B16.4-2016 20XX
(Revision of ASME B16.4-2011) 2016

Proposed Revision of:

Gray Iron Threaded Fittings

Classes 125 and 250

Draft Date 06/2021

TENTATIVE
SUBJECT TO REVISION OR WITHDRAWAL
Specific Authorization Required for Reproduction or Quotation
ASME Codes and Standards

Updates are shown in
underlined red text

ASME B16.4-~~20XX~~

MANDATORY APPENDIX II

REFERENCES

The following is a list of publications referenced in this Standard. Unless otherwise stated, the latest edition of ASME publications shall apply. Materials manufactured to other editions of the referenced ASTM standards may be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies the material meets the requirements of the referenced edition.

ASME B1.20.1, Pipe Threads, General Purpose (Inch)
ASME B16.14, Ferrous Pipe Plugs, Bushings, and Locknuts With Pipe Threads
Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM A126-04(~~2014~~ 2019), Specification for Gray Iron Castings for Valves, Flanges, and Pipe Fittings
ASTM A153/A153M-~~4616a~~, Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware
ASTM B633-~~15~~ 19, Specification for Electrodeposited Coatings of Zinc on Iron and Steel

ASTM E29-13(2019), Standard Practice for Using Significant Digits in Test Data to Determine Conformance With Specifications
Publisher: American Society for Testing and Materials (ASTM International), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

ISO 9000:~~2005~~ 2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:~~2008~~ 2015, Quality management systems — Requirements¹

ISO 9004:~~2009~~ 2018, Managing for the sustained success of an organization — A quality management approach¹
Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

¹May also be obtained from the American National Standards

ASME B16.18-2018 **20XX**
(Revision of ASME B16.18-2012) **2018**

Proposed Revision of:

Cast Copper Alloy Solder Joint Pressure Fittings

Draft Date 06/2021

TENTATIVE
SUBJECT TO REVISION OR WITHDRAWAL
Specific Authorization Required for Reproduction or Quotation
ASME Codes and Standards

CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS

1 SCOPE

UPDATE PER
FOLLOWING
PAGE

This Standard for cast copper alloy solder joint pressure fittings designed for use with copper water tube establishes requirements for

- (a) pressure-temperature ratings
- (b) abbreviations for end connections
- (c) sizes and method of designating openings of fittings
- (d) marking
- (e) material
- (f) dimensions and tolerances
- (g) tests

2 GENERAL

2.1 Relevant Units

This Standard states values in both SI (Metric) and U.S. Customary units. These systems of units are to be regarded separately as standard. Within the text, the SI units are shown in parentheses. The values stated in each system are not exact equivalents; therefore, it is required that each system of units be used independently of the other. Combining values from the two systems constitutes nonconformance with the Standard.

2.2 References

Standards and specifications adopted by reference in this Standard are shown in [Mandatory Appendix I](#), which is part of this Standard. It is not considered practical to identify the specific edition of each standard and specification in the individual references. Instead, the specific edition reference is identified in [Mandatory Appendix I](#).

2.3 Quality System

Requirements relating to the product manufacturer's quality system programs are described in [Nonmandatory Appendix C](#).

3 PRESSURE-TEMPERATURE RATINGS

3.1 Rating of Fitting and of Joint

The internal pressure-temperature ratings of the fittings are shown in [Table 3.1-1](#).

The internal pressure-temperature rating for a solder joint fitting is dependent not only on fitting and tube strength, but also on the composition of the solder used for the joint and selection of valves and appurtenances.

The internal pressure-temperature rating of the system shall be the lowest of the values shown in [Table 3.1-1](#), the solder joint, and those of the tube, valves, or appurtenances.

The maximum recommended pressure-temperature ratings for solder joints using the dimensions of [Table 8.2-2](#), made with typical commercial solders, are given in [Nonmandatory Appendix A](#).

3.2 Bursting Strength

Burst strength at 73°F ± 5°F (23°C ± 2°C) shall be not less than 4 times the 100°F (38°C) internal working-pressure rating shown in [Table 3.1-1](#). For reducing fittings, the applicable internal working pressure shall be that of the largest size of end connection.

4 FITTING SIZE AND ENDS

The size of the fittings shown in [Table 8.2-2](#) and [Table A-1](#) corresponds to standard water tube size as shown in ASTM B88, Standard Specification for Seamless Copper Water Tube. The size of the threaded ends corresponds to nominal pipe size as shown in ANSI/ASME B1.20.1.

Fittings are designated by the size of the openings in the sequence illustrated in [Figure 4-1](#).

The following symbols are used to designate the type of fitting end:

- C = solder-joint fitting end made to receive copper tube diameter (female)
- F = internal ANSI standard taper pipe thread (female) NPT
- FTG = solder-joint fitting end made to copper tube diameter (male)
- M = external ANSI standard taper pipe thread (male) NPT

5 MARKING

Each fitting shall be permanently marked with the manufacturer's name or trademark and other applicable markings as required by MSS SP-25. Marking of fittings less than Standard Water Tube Size 1/2 or on any fitting where it damages soldering surfaces is not required.

Fittings manufactured from cast copper alloys containing silicon shall be permanently marked with the designation Si.

Fittings manufactured from cast copper alloys containing bismuth shall be permanently marked with the designation B or Bi.

ASME B16.18-2018**CAST COPPER ALLOY SOLDER JOINT PRESSURE FITTINGS****1 SCOPE**

This Standard establishes requirements for cast copper alloy solder joint pressure fittings designed for use by soldering or brazing with seamless copper water tube conforming to ASTM B88. Fittings made in accordance with this standard are intended to be assembled with soldering materials conforming to ASTM B32, brazing materials conforming to AWS A5.8, or tapered pipe thread conforming to ASME B1.20.1.

This Standard is allied to ASME B16.22 for wrought copper alloy pressure fittings and ASME B16.50 which covers wrought pressure fittings for brazing only.

This Standard provides requirements for fitting ends of suitable depth to achieve required pressure ratings when joined by either soldering or brazing. It establishes requirements for:

- (a) pressure-temperature ratings
- (b) abbreviations for end connections
- (c) size and method of designating openings of fittings
- (d) marking
- (e) material
- (f) dimensions and tolerances
- (g) tests

(18)

MANDATORY APPENDIX I REFERENCES

The following is a list of publications referenced in this Standard. Unless otherwise specified, the latest edition of ASME publications shall apply. Materials manufactured to other editions of the referenced ASTM standard shall be permitted to be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies the material meets the requirements of the referenced edition.

ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch)

ASME B16.3, Malleable Iron Threaded Fittings, Classes 150 and 300

ASME B16.15, Cast Copper Alloy Threaded Fittings, Classes 125 and 250

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM B32-08 (R2014), Standard Specification for Solder Metal

ASTM B62-17, Standard Specification for Composition Bronze or Ounce Metal Castings

ASTM B88-16, Standard Specification for Seamless Copper Water Tube

ASTM B584-14, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM B828-16, Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

ASTM E29-13, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

Publisher: ASTM International (ASTM), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:2015, Quality management systems — Requirements¹

ISO 9004:2009, Managing for the sustained success of an organization — A quality management approach¹

Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

MSS SP-25-2013, Standard Practice Marking System for Valves, Fittings, Flanges and Unions

Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180 (www.msshq.org)

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¹ May also be obtained from the American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036.

ASME B16.18-~~2018~~20xx

MANDATORY APPENDIX I

REFERENCES

The following is a list of publications referenced in this Standard. Unless otherwise specified, the latest edition of ASME publications shall apply. Materials manufactured to other editions of the referenced ASTM standard shall be permitted to be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies the material meets the requirements of the referenced edition.

ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch)

ASME B16.3, Malleable Iron Threaded Fittings, Classes 150 and 300

ASME B16.15, Cast Copper Alloy Threaded Fittings, Classes 125 and 250

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM B32-~~08 (R2014)~~20, Standard Specification for Solder Metal

ASTM B62-17, Standard Specification for Composition Bronze or Ounce Metal Castings

ASTM B88-~~16~~20, Standard Specification for Seamless Copper Water Tube

ASTM B584-14, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM B828-16, Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings

ASTM E29-13(2019), Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

Publisher: ASTM International (ASTM), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428- 2959 (www.astm.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:2015, Quality management systems — Requirements¹

ISO 9004:~~2009~~2018, Managing for the sustained success of an organization — A quality management approach¹

Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

MSS SP-25-~~2013~~2018, Standard Practice Marking System for Valves, Fittings, Flanges and Unions

Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180 (www.msshq.org)

ASME B16.22-2019 **20XX**
(Revision of ASME B16.22-2013) **2018**

Proposed Revision of:

Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings

Draft Date 06/2021

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WROUGHT COPPER AND COPPER ALLOY SOLDER-JOINT PRESSURE FITTINGS

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(18) 1 SCOPE

This Standard establishes specifications for wrought copper and wrought copper alloy, solder-joint, seamless fittings designed for use with seamless copper tube conforming to ASTM B88 (water and general plumbing systems), ASTM B280 (air conditioning and refrigeration service), and ASTM B819 (medical gas systems), as well as fittings intended to be assembled with soldering materials conforming to ASTM B32, brazing materials conforming to AWS A5.8, or tapered pipe thread conforming to ASME B1.20.1.

This Standard is allied with ASME B16.18, which covers cast copper alloy pressure fittings. It provides requirements for fitting ends suitable for soldering. This Standard covers the following:

- (a) pressure-temperature ratings
- (b) abbreviations for end connections
- (c) size and method of designating openings of fittings
- (d) marking
- (e) material
- (f) dimensions and tolerances
- (g) tests

2 GENERAL

2.1 Relevant Units

This Standard states values in both SI (metric) and U.S. Customary units. These systems of units are to be regarded separately as standard. Within the text, the U.S. Customary units are shown in parentheses. The values stated in each system are not exact equivalents; therefore, it is required that each system of units be used independently of the other. Combining values from the two systems constitutes nonconformance with the Standard.

2.2 References

Standards and specifications adopted by reference in this Standard are shown in [Mandatory Appendix II](#). It is not considered practical to identify the specific edition of each standard and specification in the individual references. Instead, the specific edition reference is identified in [Mandatory Appendix II](#).

2.3 Quality Systems

Requirements relating to the product manufacturer's quality system program are described in [Nonmandatory Appendix B](#).

3 PRESSURE-TEMPERATURE RATINGS

3.1 Rating of Fittings and Joints

(18)

The internal pressure-temperature rating for a solder-joint system is dependent on not only fitting and tube strength, but also composition of the solder used for the joint and selection of valves and appurtenances.

3.1.1 Solder Joints. Pressure-temperature ratings for solder joints to the dimensions of [Table 3.1.1-1](#), made with typical commercial solders, are given in [Table I-1](#).

The internal pressure-temperature rating of the system with solder joints shall be the lowest of the values shown in [Table 3.1.1-2](#) and [Table I-1](#) and those of the tube, valves, and appurtenances.

3.1.2 Braze Joints. Pressure-temperature ratings for (18) braze joints to the dimensions of [Table 3.1.1-1](#), made with typical commercial brazing materials, shall be considered equal to the values given in [Table 3.1.1-2](#).

The internal pressure-temperature rating of the system with braze joints shall be the lowest of the values shown in [Table 3.1.1-2](#) and those of the tube, valves, and appurtenances.

3.2 Bursting Strength

Fittings manufactured to the Standard shall have an ambient-temperature bursting strength of at least 4 times the 38°C (100°F) internal pressure rating as shown in [Table 3.1.1-2](#).

4 TERMINOLOGY

4.1 Size

The size of the fittings shown in [Table 3.1.1-1](#) corresponds to standard water tube size as shown in ASTM B88. The size of the threaded ends corresponds to nominal pipe size as shown in ASME B1.20.1.

Fittings are designated by the size of the openings in the sequence illustrated in [Figure 4.1-1](#).

4.2 Abbreviations

The following symbols are used to designate the type of fitting end:

- C = solder-joint fitting end made to receive copper tube diameter (female)
- F = internal ANSI standard taper pipe-thread end (female) NPTI

ASME B16.22-2018

WROUGHT COPPER AND COPPER ALLOY SOLDER-JOINT PRESSURE FITTINGS

1 SCOPE

This Standard establishes specifications for wrought copper and copper alloy ~~solder-joint~~, seamless pressure fittings designed for use by soldering or brazing with seamless copper tube conforming to ASTM B88 (water and general plumbing systems), ASTM B280 (air-conditioning and refrigeration service), and ASTM B819 (medical gas systems). Fittings made in accordance with this standard are, as well as fittings intended to be assembled with soldering materials conforming to ASTM B32, brazing materials conforming to AWS A5.8, or tapered pipe thread conforming to ASME B1.20.1.

This Standard is allied with ASME B16.18, which covers cast copper alloy pressure fittings and ASME B16.50 which covers wrought pressure fittings for brazing only.

This Standard ~~it~~ provides requirements for fitting ends of suitable depth to achieve required pressure ratings when joined by either soldering or brazing ~~of suitable depth to achieve required pressure ratings when joined by either soldering or brazing~~ ~~suitable for soldering~~. This Standard covers the following:

- (a) pressure-temperature ratings
- (b) abbreviations for end connections
- (c) size and method of designating openings of fittings
- (d) marking
- (e) material
- (f) dimensions and tolerances
- (g) tests

(18)

MANDATORY APPENDIX II REFERENCES

The following is a list of publications referenced in this Standard. Unless otherwise specified, the latest edition of ASME publications shall apply. Materials manufactured to other editions of the referenced ASTM standards shall be permitted to be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies the material meets the requirements of the referenced edition.

ANSI B4.4M, Inspection of Workpieces
Publisher: American National Standards Institute (ANSI),
25 West 43rd Street, New York, NY 10036
(www.ansi.org)

ASME Boiler and Pressure Vessel Code, Section II,
Materials, Part D — Properties
ASME B1.20.1, Pipe Threads, General Purpose (Inch)
ASME B4.4M, Inspection of Workpieces
ASME B16.18, Cast Copper Alloy Solder Joint Pressure
Fittings
ASME B31.1, Power Piping
ASME B31.9, Building Services Piping
Publisher: The American Society of Mechanical Engineers
(ASME), Two Park Avenue, New York, NY 10016-5990
(www.asme.org)

ASTM B32-08 (2014), Standard Specification for Solder
Metal
ASTM B88-16, Standard Specification for Seamless Copper
Water Tube
ASTM B280-16, Standard Specification for Seamless
Copper Tube for Air Conditioning and Refrigeration
Field Service

ASTM B819-00 (2011), Standard Specification for
Seamless Copper Tube for Medical Gas Systems
ASTM B828-16, Standard Practice for Making Capillary
Joints by Soldering of Copper and Copper Alloy Tube
and Fittings
ASTM E29-13, Standard Practice for Using Significant
Digits in Test Data to Determine Conformance with
Specification
Publisher: American Society for Testing and Materials
(ASTM International), 100 Barr Harbor Drive, P.O.
Box C700, West Conshohocken, PA 19428-2959
(www.astm.org)

AWS A5.8M-2011, Specification for Filler Metals for
Brazing and Braze Welding¹
Publisher: American Welding Society (AWS), 8669 NW 36
Street, No. 130, Miami, FL 33166 (www.aws.org)

ISO 9000:2015, Quality management systems —
Fundamentals and vocabulary¹
ISO 9001:2015, Quality management systems —
Requirements¹
ISO 9004:2009, Managing for the sustained success of an
organization — A quality management approach¹
Publisher: International Organization for Standardization
(ISO), Central Secretariat, Chemin de Blandonnet 8, Case
Postale 401, 1214 Vernier, Geneva, Switzerland
(www.iso.org)

MSS SP-25-2013, Standard Marking System for Valves,
Fittings, Flanges, and Unions
Publisher: Manufacturers Standardization Society of the
Valve and Fittings Industry, Inc. (MSS), 127 Park Street,
NE, Vienna, VA 22180-4602 (www.msshq.org)

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MANDATORY APPENDIX II

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ANSI B4.4M, Inspection of Workpieces
 Publisher: American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036 (www.ansi.org)

ASME Boiler and Pressure Vessel Code, Section II, Materials, Part D — Properties
 ASME B1.20.1, Pipe Threads, General Purpose (Inch)
 ASME B4.4M, Inspection of Workpieces
 ASME B16.18, Cast Copper Alloy Solder Joint Pressure Fittings
 ASME B31.1, Power Piping
 ASME B31.9, Building Services Piping
 Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM B32-08 (2014), Standard Specification for Solder Metal
 ASTM B88-~~1620~~, Standard Specification for Seamless Copper Water Tube
 ASTM B280-~~1620~~, Standard Specification for Seamless Copper Tube for Air Conditioning and Refrigeration Field Service

ASTM B819-~~00-(2011)~~19, Standard Specification for Seamless Copper Tube for Medical Gas Systems
 ASTM B828-16, Standard Practice for Making Capillary Joints by Soldering of Copper and Copper Alloy Tube and Fittings
 ASTM E29-13(2019), Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specification
 Publisher: American Society for Testing and Materials (ASTM International), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

AWS A5.8M/A5.8-2011-AMD 1, Specification for Filler Metals for Brazing and Braze Welding¹
 Publisher: American Welding Society (AWS), 8669 NW 36 Street, No. 130, Miami, FL 33166 (www.aws.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹
 ISO 9001:2015, Quality management systems — Requirements¹
 ISO 9004:~~2009~~2018, Managing for the sustained success of an organization — A quality management approach¹
 Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

MSS SP-25-~~2013~~2018, Standard Marking System for Valves, Fittings, Flanges, and Unions
 Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180-4602 (www.msshq.org)

¹ May also be obtained from the American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036.

ASME B16.23-2016 20XX
(Revision of ASME B16.23-2011) 2016

Proposed Revision of:

Cast Copper Alloy Solder Joint Drainage Fittings: DWV

Draft Date 06/2021

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(16)

MANDATORY APPENDIX II REFERENCES

The following is a list of standards and specifications referenced in this Standard. Products covered by each ASTM specification are listed for convenience. For ASME Codes and Standards referenced hereunder, up to and including the latest published edition in effect at the time this edition of this Standard is specified, may be used. (See specifications for exact titles and detailed contents.) Materials manufactured to other editions of the referenced ASTM specifications may be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies that the material meets the requirements of the referenced edition of the ASTM specification.

ASME B1.20.1, Pipe Threads, General Purpose (Inch)
ASME B16.12, Iron Threaded Drainage Fittings
ASME B16.18, Cast Copper Alloy Solder Joint Pressure Fittings

ASME B16.29, Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings — DWV

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM A74-2016, Standard Specification for Cast Iron Soil Pipe and Fittings

ASTM B32-08 (R2014), Standard Specification for Solder Metal

ASTM B62-2015, Standard Specification for Composition Bronze or Ounce Metal Castings

ASTM B306-2013, Standard Specification for Copper Drainage Tube (DWV)

ASTM B584-2014, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM E29-2013, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

Publisher: American Society for Testing and Materials (ASTM International), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:2015, Quality management systems — Requirements¹

Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

MSS SP-25-2013, Standard Marking System for Valves, Fittings, Flanges and Unions

Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180 (www.msshq.org)

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Publications appearing above, which have been approved as American National Standards, may also be obtained from ANSI.

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MANDATORY APPENDIX II

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~~The following is a list of standards and specifications referenced in this Standard. Products covered by each ASTM specification are listed for convenience. For ASME Codes and Standards referenced hereunder, up to and including the latest published edition in effect at the time this edition of this Standard is specified, may be used. (See specifications for exact titles and detailed contents.) Materials manufactured to other editions of the referenced ASTM specifications may be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies that the material meets the requirements of the referenced edition of the ASTM specification.~~

ASME B1.20.1, Pipe Threads, General Purpose (Inch)
ASME B16.12, Iron Threaded Drainage Fittings

ASME B16.18, Cast Copper Alloy Solder Joint Pressure Fittings

ASME B16.29, Wrought Copper and Wrought Copper Alloy Solder Joint Drainage Fittings — DWV

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ASTM A74-~~2016~~2020, Standard Specification for Cast Iron Soil Pipe and Fittings

ASTM B32-~~08 (R2014)~~ 2020 Standard Specification for Solder Metal

ASTM B62-~~2015~~2017, Standard Specification for Composition Bronze or Ounce Metal Castings

ASTM B306-~~2013~~2020, Standard Specification for Copper Drainage Tube (DWV)

ASTM B584-2014, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM E29-~~2013~~(2019), Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

Publisher: American Society for Testing and Materials (ASTM International), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:2015, Quality management systems — Requirements¹

ISO 9004:2018, Managing for the sustained success of an organization — A quality management approach¹

Publisher: International Organization for Standardization (ISO), Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

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Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street, NE, Vienna, VA 22180 (www.msshq.org)

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~~Publications appearing above, which have been approved as American National Standards, may also be obtained from ANSI. May also be obtained from the American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY, 10036~~

ASME B16.51-2018 **20XX**
(Revision of ASME B16.51-2013) **2018**

Proposed Revision of:

Copper and Copper Alloy Press-Connect Pressure Fittings

Draft Date 06/2021

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Specific Authorization Required for Reproduction or Quotation
ASME Codes and Standards

Copper and Copper Alloy Press-Connect Pressure Fittings

(18) 1 SCOPE

This Standard establishes requirements for cast copper alloy, wrought copper, and wrought copper alloy press-connect pressure fittings for use with hard-drawn seamless copper water tube conforming to ASTM B88 for piping systems conveying water. The press-connect system (tube, fitting, and joint) conforming to this Standard is for use at a maximum pressure of 1 380 kPa (200 psi) over the temperature range from 0°C to 93°C (32°F to 200°F).

This Standard provides requirements for fittings suitable for press-connect joining and covers the following:

- (a) terminology
- (b) size designations
- (c) marking
- (d) material
- (e) dimensions and tolerances
- (f) required installation instructions
- (g) pressure-temperature ratings
- (h) design qualification

2 GENERAL

2.1 Convention

For determining conformance with this Standard, the convention for fixing significant digits where limits (maximum and minimum values) are specified shall be as defined in ASTM E29. This requires that an observed or calculated value be rounded off to the nearest unit in the last right-hand digit used for expressing the limit. Decimal values and tolerances do not imply a particular method of measurement.

2.2 Relevant Units

This Standard states values in both SI (metric) and U.S. Customary units. These systems of units are to be regarded separately as standard. Within the text, the U.S. Customary units are shown in parentheses. The values stated in each system are not exact equivalents; therefore, it is required that each system of units be used independently of the other. Combining values from the two systems constitutes nonconformance with the Standard.

2.3 References

Codes, standards, and specifications containing provisions to the extent referenced herein constitute requirements of this Standard. These referenced documents are listed in [Mandatory Appendix I](#).

2.4 Quality Systems

Requirements relating to the product manufacturer's Quality System Program are described in [Nonmandatory Appendix A](#).

3 TERMINOLOGY

3.1 Abbreviations

The following abbreviations are used to designate the type of fitting end as shown in [Figure 3.1-1](#):

- F = internal ASME B1.20.1 taper pipe-thread end (NPTI)
- FTG = solder-joint fitting end made to copper tube outside diameter
- M = external ASME B1.20.1 taper pipe-thread end (NPTE)
- P = internal press-connect joint end made to receive copper tube diameter

3.2 Definitions

This paragraph defines the terms used in this Standard.

joining, press-connect: the act of joining a fitting or piping component to a tube by use of a tool that mechanically compresses the wall of the fitting end over the tubing, encasing an elastomeric seal between the mating surfaces.

out-of-roundness: the maximum measured diameter minus the minimum measured diameter.

press-connect fitting: a type of piping component (e.g., coupling, tee, elbow) used to connect tubing or other accessories by mechanically compressing the wall of the fitting end over the tube, using an elastomeric material to provide a seal between the inside surface of the fitting and the outside surface of the tube.

4 SIZE

The size designations of the fittings shown in the tables of this Standard correspond to standard water tube sizes as shown in ASTM B88. The size designations of the threaded ends correspond to nominal pipe sizes as shown in ASME B1.20.1.

Fittings shall be designated by the size of the openings in the sequence illustrated in [Figure 3.1-1](#).

5 MARKING

Each fitting shall be permanently marked with the manufacturer's name or trademark in accordance with MSS SP-25. Marking on fittings less than nominal size

Add definition: *wrought*: the process of working the metal to form shapes or individual parts including, but not limited to tubular shapes, bars, and forgings.

Revise (b): 84% to 80%

ASME B16.51-2018

$\frac{1}{2}$ or on any fitting where it damages joining surfaces is not required.

6 MATERIAL

(18) 6.1 Wrought Copper Alloys

(a) Fittings shall be made from copper alloy UNS No. C10200, C12000, C12200, or C23000.

(b) Other coppers and copper alloys shall be permitted, provided their chemical composition contains a minimum of 84% copper and a maximum of 16% zinc, and provided the fittings produced from the copper alloy meet all the mechanical and corrosion-resistant properties for the end purposes of the fittings. For potable water applications, fittings shall be produced from low-lead (0.25% or less) copper alloys and shall meet all the mechanical and corrosion-resistant properties for the end purposes of the fittings. The composition of the copper alloy shall not inhibit joining to the tube or to other fittings.

6.2 Cast Copper Alloys

(a) Castings intended for use in applications up to 204°C (400°F) shall be of a copper alloy produced to meet

(1) the requirements of ASTM B62 UNS No. C83600, or

(2) the chemical and tensile requirements of ASTM B584 UNS No. C83800 or C84400 and in all other respects the requirements of ASTM B62

(b) Castings intended for use in potable water applications up to 93°C (200°F) shall be low lead (0.25% or less) and shall be

(1) of a copper alloy produced to meet the requirements of ASTM B584 UNS No. C87850 or C89833, or

(2) of other cast copper alloys, provided the fittings produced meet mechanical and corrosion-resistant properties needed for potable water application

(18) 6.3 Elastomers (Seals)

Elastomeric components shall be resistant to microbiological attack and ozone attack and shall contain inhibitors to prevent copper degradation. The elastomer shall be an ethylene propylene diene monomer (EPDM) and shall meet the minimum property and test requirements as defined by ASTM D2000, shown in the following table:

Material	EPDM
Minimum durometer hardness, Shore A	55 points
Minimum tensile strength, MPa (psi)	10 (1,450)
Heat resistance	A25
Compression set	B35
Water resistance	EA14
Low-temperature resistance	F17
Tear resistance	G21
Special requirements	Z1, Z2, Z3, Z4

The special requirements shall be as follows:

(a) Z1 designates compliance with NSF/ANSI 61.

(b) Z2 designates the compression set. ~~The maximum compression set shall be 45% when compressed 2.62 mm (0.103 in.), 40% when compressed 3.53 mm (0.139 in.), and 35% when compressed 5.33 mm (0.210 in.).~~

(c) Z3 designates chloramine resistance, which is determined by testing for 1 008 h at 70°C (158°F) in a solution containing 50 ppm total chlorine, per ASTM D6284; this shall be checked and refreshed daily. Upon completion of the test, the change in volume shall be less than 30%, and the change in durometer hardness shall be a maximum of 6. There shall be no visual degradation of the elastomeric material.

(d) Z4 designates resistance of the elastomer to copper degradation. The test shall be conducted in accordance with para. 14.9.1. Upon completion of the test, the change in volume shall be less than 30%, and the change in durometer hardness shall be a maximum of 6. There shall be no visual degradation of the elastomeric material.

6.4 Seal Lubricant

The only seal lubricant that shall be used is that specified by the manufacturer.

7 LAYING LENGTHS

Due to widely varying manufacturing processes, meaningful laying length requirements of fittings cannot be established. Consult the manufacturer for these dimensions.

8 TUBE STOPS

Except for repair couplings, fittings shall be manufactured with a tube stop (abutment) to limit tube insertion. Repair couplings shall not require a tube stop. The tube stop shall control joint length, even with an external (FTG) end having the minimum outside diameter shown in Table 9.1-1. Examples of various tube stop configurations are shown in Figure 8-1.

9 DESIGN

9.1 General

As a minimum, the fitting shall be designed to withstand the tests specified in section 14 without leakage. The press-connect ends shall be assembled in accordance with the fitting manufacturer's installation instructions. The dimensions and tolerances of the press-connect ends shall be as shown in Table 9.1-1.

Revise: (b) Z2 designates the compression set. Elastomeric material shall be tested for compression set as per the ASTM D2000 suffix requirements of B35 in accordance with ASTM D395, Method B, plied, for 22 hours at 125°C. The maximum allowed compression set shall be 30%.

MANDATORY APPENDIX I REFERENCES

(18)

The following is a list of publications referenced in this Standard. Unless otherwise specified, the latest edition of ASME publications shall apply. Materials manufactured to other editions of the referenced ASTM standards shall be permitted to be used to manufacture fittings meeting the requirements of this Standard as long as the fitting manufacturer verifies the material meets the requirements of the referenced edition.

ASME B1.20.1, Pipe Threads, General Purpose (Inch)
Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

ANSI B4.4M-1981 (R1994), Inspection of Workpieces
Publisher: The American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036 (www.ansi.org)

ASTM B32-08(2014), Standard Specification for Solder Metal

ASTM B62-17, Standard Specification for Composition Bronze or Ounce Metal Castings

ASTM B88-16, Standard Specification for Seamless Copper Water Tube

ASTM B584-14, Standard Specification for Copper Alloy Sand Castings for General Applications

ASTM D2000-12(2017), Standard Classification System for Rubber Products in Automotive Applications

ASTM D6284-17, Standard Test Method for Rubber Property—Effect of Aqueous Solutions with Available Chlorine and Chloramine

ASTM E29-13 (2019)

ASTM E29-13, Standard Practice for Using Significant Digits in Test Data to Determine Conformance with Specifications

Publisher: American Society for Testing and Materials (ASTM International), 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959 (www.astm.org)

ISO 9000:2015, Quality management systems — Fundamentals and vocabulary¹

ISO 9001:2015, Quality management systems — Requirements¹

ISO 9004:2009, Managing for the sustained success of an organization — A quality management approach¹

Publisher: International Organization for Standardization (ISO) Central Secretariat, Chemin de Blandonnet 8, Case Postale 401, 1214 Vernier, Geneva, Switzerland (www.iso.org)

2018

MSS SP-25-2013, Standard Marking System for Valves, Fittings, Flanges, and Unions

Publisher: Manufacturers Standardization Society of the Valve and Fittings Industry, Inc. (MSS), 127 Park Street NE, Vienna, VA 22180-4602 (www.mss-hq.org)

NSF/ANSI 61-2017, Drinking Water System Components — Health Effects

Publisher: NSF International (NSF), P.O. Box 130140, 789 North Dixboro Road, Ann Arbor, MI 48105 (www.nsf.org)

Add: "ANSI" to
MSS SP-25-2018

¹ May also be obtained from American National Standards Institute (ANSI), 25 West 43rd Street, New York, NY 10036.

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[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 Plastics —

Plastics Piping System Components and Related Materials

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9 Quality Assurance

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Table 9.11B
PE-gas pipe and fitting test frequency

Test	PE pipe	PE fitting
dimensions ¹	—	—
burst pressure ¹	—	—
chemical resistance ³	annually	annually
sustained pressure test	annually	annually
elevated temperature service	annually	annually
apparent tensile at yield or quick burst	annually	—
melt index ³	annually	annually
squeeze off ³	annually	—
thermal stability ³	annually	—
inside surface ductility ³	annually	—
density ³	annually	—
product standard(s)	ASTM D2513 ASTM F2619 CSA B137.4 ²	ASTM D2513 CSA B137.4 ²
¹ Pipe and fitting compliant to ASTM D2513 shall meet the QC requirements of ASTM D2513 Annex A.1.		
² Pipe and fitting compliant to CSA B137.4 shall meet the QC requirements of CSA B137.4 Table 4.		
³ Applies only to products listed under ASTM D2513 and CSA B137.4.		

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NSF/ANSI Standard
for Plastics —

Polyethylene of Raised Temperature (PE-RT) Tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems

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2 Normative references

The following documents contain provisions that, through reference, constitute provisions of this NSF Standard. At the time this Standard was balloted, the editions listed below were valid. All documents are subject to revision, and parties are encouraged to investigate the possibility of applying the recent editions of the documents indicated below. For undated references, the most recent version shall be referenced. These are normative references for Polyethylene of Raised Temperature (PE-RT) tubing and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems.

*ASTM D543 Standard Practices for Evaluating the Resistance of Plastics to Chemical Reagents*¹

*ASTM D2290 Standard Test Method for Apparent Hoop Tensile Strength of Plastic or Reinforced Plastic Pipe*³

*ASTM D2837 Standard Test Method for Obtaining Hydrostatic Design Basis for Thermoplastic Pipe Materials or Pressure Design Basis for Thermoplastics Pipe Products*³

*ASTM F412. Terminology Relating to Plastic Piping Systems*³

*ASTM F1055, Standard Specification for Electrofusion Type Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and tubing*³

*ASTM F1588 Standard Test Method for Constant Tensile Load Joint Test (CTLJT)*³

*ASTM F1807. Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*³

*ASTM F2080. Standard Specification for Cold-Expansion Fittings with Metal Compression Sleeves for Cross-linked Polyethylene (PEX) Pipe and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*³

¹ American Society for Testing Materials (ASTM), 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959 <www.astm.org>.

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ASTM F2159. *Standard Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-Linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing*³

ASTM F2434. *Standard Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Cross-linked Polyethylene/ Aluminum/Cross-linked Polyethylene (PEX-AL-PEX) Tubing*³

ASTM F2623. *Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR9 Tubing*³

ASTM F2769. *Standard Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot and Cold-Water Tubing and Distribution Systems*³

CAN/CSA B137.18. *Polyethylene of Raised Temperature (PE-RT) Tubing Systems for Pressure Applications*²

PPI TR-3 *Policies and Procedures for Developing Hydrostatic Design Basis (HDB), Hydrostatic Design Stresses (HDS), Pressure Design Basis (PDB), Strength Design Basis (SDB), and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe*³

PPI TR-4 *PPI Listing of Hydrostatic Design Basis (HDB), Hydrostatic Design Stress (HDS), Strength Design Basis (SDB), Pressure Design Basis (PDB) and Minimum Required Strength (MRS) Ratings for Thermoplastic Piping Materials or Pipe*⁵

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4 Material requirements

4.1 Plastic materials

Materials for polyethylene of raised temperature pipe shall meet the material requirements of ASTM F2623 or ASTM F2769.

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5 General requirements

5.1 Polyethylene of raised temperature tubing

Polyethylene of Raised Temperature tubing shall conform to ASTM F2623, ASTM F2769 or CSA B137.18.

5.2 Fittings for polyethylene of raised temperature tubing

Fittings shall meet ASTM F1055, ASTM F1807, ASTM F2080, ASTM F2159, ASTM F2434, or CSA B137.18.

² Canadian Standards Association (CSA), 5060 Spectrum Way, Suite 100, Mississauga Ontario, Canada L4W 5N6 <www.csa.ca>.

³ Plastics Pipe Institute (PPI), 105 Decker Court, Suite 825, Irving, TX 75062 <plasticpipe.org>.

Tracking #358-4i2r1
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Issue 2, Revision 1 (September 2021)

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U-bends containing assembled joints or formed from polyethylene of raised temperature tubing shall comply with the sustained pressure requirements of ~~Section 7.5 of~~ ASTM F2623 or ASTM F 2769. Each test specimen shall contain assembled joints of formed U-bends consistent with how the product is sold.

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NSF/ANSI Standard For Wastewater Technology –

Disinfection Mechanics

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1 General

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1.4 Influent water characteristics

Test data collected on days when the influent water pH and temperature are out of compliance with this Section shall be excluded from the results. Any results from days where CBOD₅, TSS, fecal coliform, *Escherichia coli*, or ammonia influent concentration is less than shown in the table below, shall be excluded. Any results from days where UV transmittance is greater than ~~75~~ **55**% shall be excluded. The certifier shall report results obtained when other influent concentrations exceed the maximum values in the table below for the influent water. Influent water for the biological deactivation testing shall be secondary treated residential wastewater meeting the criteria as shown in Table 1.1

At the manufacturer's discretion, any data collected on days when the influent CBOD₅, TSS, fecal coliform, *E. coli*, or ammonia concentrations exceed the maximum limits set in Table 1.4, may be replaced with data collected from additional sample days for the purpose of determining pass or fail. At the manufacturer's discretion, any data collected on days when the influent UV transmittance is less than ~~50~~ **40**%, may be replaced with data collected from additional sample days for the purpose of determining pass or fail.

Table 1.1
Influent characteristics

CBOD ₅	≥ 10 and ≤ 25 mg/L
TSS	≥ 10 and ≤ 30 mg/L
<i>E. coli</i>	10 ² to 10 ⁶ cfu/100 mL
fecal coliform	10 ⁴ to 10 ⁸ organisms per 100 mL
pH	6.0 to 9.0
temperature	6 °C to 30 °C (42 °F to 86 °F)
ammonia	≥ 2.0 and ≤ 4.0 mg/L
UV transmittance of influent	50 to 75 40 to 55 % per cm

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UV transmittance values in Table 1.1 are for traditional aerobic treatment units. If UV transmittance requires adjustment, SuperHume (or equivalent) shall be added to the influent to reach required levels. The UV absorbant shall be comprised of vanillin (CAS# 121-33-5) and SuperHume®¹⁴. The vanillin and SuperHume® shall be combined while maintaining a ratio of 1.0 mg vanillin to 0.02 mL SuperHume®. These compounds shall be diluted as needed prior to addition to the test water with deionized water.

Influent parameters in Table 1.1 shall be measured every time an effluent sample is collected, and corresponding values reported. Ammonia need not be tested for UV technologies and UV transmittance of influent need not be tested for any technology except UV. If the manufacturer is testing for only *E. coli* or fecal coliform as allowed in Section 1.5, then the influent *E. coli* or fecal coliform not required in the effluent monitoring need not be collected.

Temperature, pH, influent fecal coliform, and *E. coli* shall be based on grab samples collected. Influent water characteristics for all other parameters shall be based on 24-h composite samples collected. During maximum and, if required, minimum flow testing, the influent samples shall be collected during the time while dosing is active.

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Informative Annex 3

Organic or natural media and ultraviolet light

The information contained in this Annex is not part of this American National Standard (ANS) and has not been processed in accordance with ANSI's requirements for an ANS. Therefore, this Annex may contain material that has not been subjected to public review or a consensus process. In addition, it does not contain requirements necessary for conformance to the Standard.

Certain organic or natural media (peat, coconut etc.), demonstrate microbial antagonism toward enteric microorganisms. This simply means that the stressed microorganisms within the wastewater are outcompeted by the indigenous microflora. The low pH and production of certain microbial toxins within the media adversely affects the enteric organisms and as such they are largely ineffective in assimilating nutrients along with other factors which are necessary for their survival. The result is increased log reductions of enteric microorganisms as compared to other treatment processes. This is significant when ultraviolet (UV) disinfection is post natural media treatment. The natural media filter effluent may sometimes have a slight brown-yellow color due to varying concentrations of naturally occurring organic compounds (humic and fulvic acids; tannins) which are occasionally leached out of the media. This may impact the UV transmittance; however, the overall efficacy of UV disinfection is maintained when coupled with the low log values of enteric microorganisms exiting the natural media filter.

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¹⁴ Available from UAS of America, 534 CR 529 A, Lake Panasoffkee, Florida 33538 as Cropmaster® SuperHume® or AquaHume®.

UL 347A, Standard for Safety for Medium Voltage Power Conversion Equipment

1. Color Coding of Grounding and Bonding Conductors in UL 347A

PROPOSAL

18.4 Insulated grounding and bonding conductors shall be identified by the color green with or without one or more yellow stripes throughout the entire product, or shall be identified at each termination point by a green or green/yellow marking, such as green tape wrapped around the conductor. No other leads shall be so identified. This requirement does not apply to a green or green/yellow insulated conductor provided in a wiring harness, ribbon cable, or similar prefabricated wiring assembly, which is not likely to be mistaken for a grounding conductor.

18.5 Insulated conductors that are connected to the grounded side of a transformer secondary (neutral conductors) may be identified by the color white or grey or by three continuous white stripes on other than green insulation. No other conductor shall be so identified other than as described below:

- a) The insulation of type SIS wire used for control circuit wiring may be grey;
- b) When color coding of phases in a multi-phase circuit is provided at the end(s) of phase conductors, using tape or similar methods, any color other than green may be used; and
- c) Insulated conductors provided in a wiring harness, ribbon cable, or similar prefabricated wiring assembly, which are not likely to be mistaken for neutral conductors may have grey or white insulation.

2. Revisions to Section 21.7 – Spacings for Printed Wiring Boards

PROPOSAL

21.7 Spacings for printed wiring boards used in accordance with the Standard for Insulation Coordination Including Clearances and Creepage Distances for Electrical Equipment, UL 840

21.7.1 This section applies only to circuits on printed wiring boards with connection to grounded parts, and does not apply to spacings at field wiring terminals.

21.7.2 Other than as noted in 21.7.3, clearances and creepage distances in circuits of printed wiring boards may be evaluated in accordance with the requirements in the Standard for Insulation Coordination Including Clearance and Creepage Distances for Electrical Equipment, UL 840, as modified by 21.7.4 and 21.7.5. For circuits with working voltages above 1000 V, Table 8.1 and 9.2 of UL 840 are to be replaced by Table 21.5 and Table 21.6. In circuits having serial connected components, the clearances and creepage distances are based on the potential involved across the individual component.

21.7.3 Clearances between an uninsulated live part and the walls of a metal enclosure, including fittings for conduit or armored cable, shall be in accordance with Table 21.3. For potentials above 600V, Table 21.1. shall be used. The clearances shall be determined by physical measurement.

21.7.4 In conducting evaluations in accordance with the requirements in the Standard for Insulation Coordination Including Clearance and Creepage Distances for Electrical Equipment, UL 840, the following guidelines shall be used:

- a) The macro-environment in which a controller is installed is considered pollution degree 3;
- b) While the macro-environment in which a controller is installed is considered pollution degree 3, a pollution degree 1 or 2 micro-environment can be created within the controller by incorporating one of the constructions defined in 21.3.3.2 or 21.3.3.3;

~~c) While equipment covered under this document is considered to be Overvoltage Category IV, assemblies that are isolated from the medium-voltage input and output circuits, either galvanically or by a voltage divider complying with Section 19, may be considered to be Overvoltage Category III. For assemblies that include isolating transformer(s) that isolate all circuits in the assembly from the medium-voltage line, all circuits (including the output circuits) that are located in the secondary of the transformer(s) may be considered to be Overvoltage Category III;~~

c) Overvoltage Category IV shall apply to equipment permanently connected at the origin of an installation that is upstream of the main distribution board, or to equipment installed at the service entrance. Overvoltage Category III shall apply to equipment permanently connected in fixed installations that are downstream of, and including, the main distribution board.

d) Any printed wiring board that complies with the requirements in the Standard for Printed Wiring Boards, UL 796, shall be considered to provide a minimum Comparative Tracking Index (CTI) of 100;

e) Evaluation of clearances, only, to determine equivalence with current through air spacings requirements may be conducted in accordance with Clearance A (Equivalency) of UL 840. An impulse test potential having a value as determined in UL 840 is to be applied across the same points of the device as required for the Dielectric Voltage-Withstand Test, Section 33;

f) Evaluation of clearances and creepage distances shall be conducted in accordance with the requirements for Clearance B (Controlled Overvoltage), and for Creepage Distances of UL 840;

g) Determination of the dimensions of clearance and creepage distances shall be conducted in accordance with the requirements for Measurement of Clearance and Creepage Distances of UL 840;

h) On printed wiring boards, the use of a solder resist coating is considered to create a pollution degree 2 environment between any printed wiring board traces that are completely covered by the solder resist coating, and any trace or solder pad, that is not covered by the coating. Solder resist coatings do not provide any reduction in pollution degree when considering spacings between solder pads or between solder pads and traces that are not covered by the coating.

3. Addition of New Section 21.8 – Alternate Approach for Spacings

PROPOSAL

21.8 Alternate approach for spacings

21.8.1 Other than at field-wiring terminals, the electrical spacings within power conversion equipment rated up to 35kV shall meet the requirements for insulation specified in UL 61800-5-1.

21.8.2 Compliance requires that the power conversion equipment be investigated in accordance with all portions that are part of UL 61800-5-1, regarding the insulation coordination.

4. Revisions to Section 26 - Spacings within Gate Driver Circuit

PROPOSAL

26 Gate Drive Circuits

26.1 Gate drive circuits, which may consist of multiple sub-circuits at medium voltage potential including the connection to the switching devices, shall provide isolation between the gates of medium voltage solid state switching devices and low voltage control circuits. This isolation shall comply with the Dielectric Voltage Withstand Test, Section 33, and the Impulse Withstand Test, Section 36 with the potentials applied between the gate drive

circuits and the low voltage control circuit. This insulation may be provided by a dedicated gate drive circuit power supply.

26.2 Other than as noted in 26.3 – 26.10, clearance and creepage distances between the gate of the switching device and the low voltage control circuit shall comply with Table 21.1.

26.4 Spacings within the gate drive circuits, including the connection to the solid state switching devices at medium voltage potential, shall be evaluated to the requirements in 26.5 – 26.10.

26.5 Clearances may be evaluated in accordance with the requirements for Functional insulation of the Standard for Adjustable Speed Electrical Power Drive Systems, UL 61800-5-1.

26.6 For circuits having a serial connected component the clearances and creepage distances are based on the potential involved across the individual component .

26.7 Minimum clearances shall comply with columns 1 and 2 of Table 26.2.

26.8 Clearances above an altitude of 2000 m must be multiplied by the factor provided in Table D.1. of UL 61800-5-1

26.9 Creepage distances may be evaluated in accordance with the requirements in Section 9 of UL 840. When the creepage distance determined is less than the clearance required, then it shall be increased to that clearance.

26.10 The spacings between the gate drive circuits and the low voltage control circuit shall comply with Table 21.1.

Table 26.2
Minimum clearance – within gate drive circuit

<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
<u>Working voltage</u>		<u>Impulse</u>	<u>Minimum clearance</u>		
			<u>Pollution Degree</u>		
<u>Volts</u> <u>(rms or direct current)</u>	<u>Volts</u> <u>(recurring peak)</u>	<u>Volts</u>	<u>1</u> <u>mm</u>	<u>2</u> <u>mm</u>	<u>3</u> <u>mm</u>
<u>50</u>	<u>340</u>	<u>330</u>	<u>0.01</u>	<u>0.2</u>	<u>0.8</u>
<u>100</u>	<u>530</u>	<u>500</u>	<u>0.01</u>	<u>0.2</u>	<u>0.8</u>
<u>150</u>	<u>700</u>	<u>800</u>	<u>0.1</u>	<u>0.5</u>	<u>0.8</u>
<u>300</u>	<u>960</u>	<u>1500</u>	<u>0.5</u>	<u>0.5</u>	<u>0.8</u>
<u>600</u>	<u>1600</u>	<u>2500</u>	<u>1.5</u>		
<u>1000</u>	<u>2600</u>	<u>4000</u>	<u>3</u>		
<u>2040</u>	<u>3700</u>	<u>6000</u>	<u>5.5</u>		
<u>3080</u>	<u>4800</u>	<u>8000</u>	<u>8</u>		
<u>4870</u>	<u>7400</u>	<u>12000</u>	<u>14</u>		
<u>8240</u>	<u>12000</u>	<u>20000</u>	<u>25</u>		
<u>17500</u>	<u>26000</u>	<u>40000</u>	<u>60</u>		
<u>Interpolation is permitted.</u>					
<u>Derived from UL 61800-5-1 Table 7, 8 and 9. OVC I applied</u>					

5. Revision to Breakdown of Components Requirements

PROPOSAL

39.1.2 To assess the risk of electric shock, ~~a 30-ampere nontime delay ground fuse shall be connected, by means of a 4–6 foot (1.22–1.83 m) long 10-AWG (5.3 mm²) minimum copper wire, the enclosure under test shall be~~ in accordance with one of the following:

a) ~~The ground fuse shall be connected between the enclosure and earth ground, with the main input ground connection removed. The enclosure shall be grounded to the building following the guidelines of Table 250.122 of the National Electrical Code, NFPA 70, or the manufacturer. The source feeding the enclosure under test shall be solidly grounded; or~~

b) The ~~ground fuse~~ grounding conductor shall be connected between the enclosure and the main input power terminal judged least at risk of arcing to earth ground, with the main input ground connection removed. For 3-phase controllers, the main input power terminal judged least at risk of arcing to earth ground is the L2 terminal.

~~39.1.3 The ground fuse required by 39.1.2 shall have an Amperes Interrupting Current (A.I.C.) rating equal to or greater than the short circuit rating of the equipment, and a voltage rating no less than the voltage rating of the equipment. At the option of the manufacturer, the ground fuse required by 39.1.2 may be replaced by a solid 10 AWG minimum copper wire, and the current through this wire shall be monitored during the test.~~

39.8.1 At the conclusion of the tests in 39.2 – 39.7 the equipment shall comply with all of the following:

a) ~~If a fuse is used as specified in 39.1.2, the fuse shall not have opened~~ The ground conductor shall not have opened;

b) ~~If a fuse as specified in 39.1.2 is not used, the ground current measured in accordance with 39.1.3 shall not have exceeded 30 A.~~

c) If cotton is used as specified in 39.1.4, the cotton shall not glow or flame. If cotton is not used, the controller shall comply with 39.1.4 (a), (b) and (c);

d) The door or cover shall not have blown open;

e) The door or cover shall be able to be opened; and

f) The enclosure may become deformed, however, live parts shall not be accessible.

BSR/UL 758, Standard for Safety for Appliance Wiring Material**PROPOSAL(S)****1. Addition of Halogen Free (HF) or Low-Smoke Halogen Free (LSHF) Wire to 51.2.**

For brevity, items (a) – (n) are not shown.

51.2 Markings on the tag, reel, or carton shall contain the following elements:

o) The “HF” suffix to designate cable where all of the combustible materials used in the construction (e.g., insulation, fillers, jackets) are halogen-free in accordance with the "Outline of Investigation for Acid Gas, Acidity and Conductivity of Combusted Materials and Assessment of Halogens," UL 2885.

p) The “LSHF” suffix to designate the cable that meets the “-HF” requirements and also complies with the requirements for low smoke when tested in accordance with IEC 61034-2, "Measurement of Smoke Density of Cables Burning Under Defined Conditions – Part 2: Test Procedure and Requirements".

In addition to the markings noted above, a cable that contains other markings complies with the intent of this requirement as long as they are not confusing or misleading.

2. Insulation Resistance Test Time, Revised 35.1**35 Short Term Insulation-Resistance Test in Water at Room Temperature (Wet Rated AWM)**

35.1 The finished insulated conductor (any jacket, shield, and covering removed) shall have an insulation resistance value of greater than or equal to 2.5 megohms based on 1000 feet (0.75 megohm based on one kilometer) of conductor. The PTFE and ETFE insulation shall result in the full range of sizes of finished wire having an insulation resistance not less than 1000 megohms based on 1000 conductor feet or 304 megohms based on a conductor kilometer. The test is to be conducted in accordance with ~~Insulation-Resistance Test in Water, Section 920, of UL 1581~~ the test Short-term insulation resistance, Method 1 in the Standard for Wire and Cable Test Methods, UL 2556. The immersion time shall be 6 hours or longer.