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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: April 5, 2020

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

Addenda

BSR/ASHRAE Addendum c to BSR/ASHRAE Standard 15-202x, Safety Standard for Refrigeration Systems (addenda to ANSI/ASHRAE Standard 15-2019)

This addendum proposes changes to allow the use of equipment using small amounts of non-A1 refrigerants, only if they are listed to appropriate product safety standards. The proposal is consistent with research findings and the published requirements of product safety standards such as UL 484 and UL 60335-2-40.

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

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

NSF (NSF International)

Revision

BSR/NSF 6-202x (i16r1), Dispensing Freezers (revision of ANSI/NSF 6-2018)

This Standard contains requirements for the following equipment: dispensing freezers that process and freeze previously pasteurized product (e.g., soft ice cream, ice milk, yogurt, malts, custards) and dispense it directly into the consumer's container; dispensing freezers that dispense premanufactured frozen product (e.g., ice cream) directly into the consumer's container; and batch dispensing freezers. The materials, design, and construction requirements of this Standard may also apply to items that are manufactured as a component of a dispensing freezer.

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

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

BSR/NSF 40-202x (i35r2), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2018)

This wastewater standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities between 1514 L/day (400 gal/day) and 5678 L/day (1500 gal/day). Management methods for the treated effluent discharged from residential wastewater treatment systems are not addressed by this Standard.

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

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

BSR/NSF 173-202x (i62r1), Dietary Supplements (revision of ANSI/NSF 173-2019)

The purpose of NSF/ANSI 173 is to serve as an evaluation tool for analyzing dietary supplements. Certification to this Standard serves as a communication tool between manufacturers of ingredients and finished product, retailers, healthcare practitioners, and consumers. This Standard provides test methods and evaluation criteria to allow for the determination that a dietary supplement contains the ingredients claimed on the label, either qualitatively or quantitatively, and that it does not contain specific undeclared contaminants. In some instances, validated laboratory methods are not yet available for analyzing certain ingredients. In such cases, new methods will be added to this Standard as they become available.

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

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

BSR/NSF 245-202x (i17r2), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2018)

This wastewater standard contains minimum requirements for residential wastewater treatment systems having rated treatment capacities of 1514 L/d (400 gal/d) to 5678 L/d (1500 gal/d) that are designed to provide reduction of nitrogen in residential wastewater. Management methods for the treated effluent discharged from these systems are not addressed by this Standard. A system, in the same configuration, must either be demonstrated to have met the Class I requirements of NSF/ANSI 40 or must meet the Class I requirements of NSF/ANSI 40 during concurrent testing for nutrient removal.

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

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

BSR/NSF 350-202x (i48r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

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

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

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

BSR/NSF 455-2-202x (i2r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

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

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

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

BSR/NSF 455-2-202x (i3r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

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

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

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

BSR/NSF 455-2-202x (i4r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

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

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

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

BSR/NSF 455-2-202x (i6r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

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

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

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

BSR/NSF 455-2-202x (i7r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

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

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

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

BSR/NSF 455-3-202x (i21r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of cosmetic products to ISO 22716 Good Manufacturing Practices (GMPs) for cosmetics as well as incorporating additional retailer requirements. It refers to the requirements for GMPs applicable to all cosmetics. It will assist in the determination of adequate facilities and controls for cosmetic manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i13r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, as well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i14r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i15r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i17r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i19r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

BSR/NSF 455-4-202x (i22r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

This Standard is intended to define a standardized approach for auditing to determine the level of compliance of over-the-counter (OTC) drug products to 21 CFR Part 210 Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General and 21 CFR Part 211 Current Good Manufacturing Practice for Finished Pharmaceuticals, well as incorporating additional retailer requirements. It refers to the requirements for good manufacturing practices (GMPs) applicable to all OTC drugs. It will assist in the determination of adequate facilities and controls for OTC drug manufacture with sufficient quality to ensure suitability for intended use.

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

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 2808-202x, Standard for Safety for Energy Monitoring Equipment (new standard)

The proposed first edition of Standard for Safety for Energy Monitoring Equipment, ANSI/CAN/UL 2808, covers submetering equipment and open and enclosed type current sensors intended for factory or field installation within distribution and control equipment such as panelboards, switchboards, industrial control equipment, and energy monitoring/management equipment. Installation is in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code (CE Code), CSA C22.1. These requirements also cover "Service Entrance" enclosed-type current sensors intended for indoor and outdoor use.

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 109-202x, Standard for Safety for Tube Fittings for Flammable and Combustible Fluids, Refrigeration Service, and Marine Use (revision of ANSI/UL 109-2009 (R2018))

The following is being proposed: (1) Revisions to the Moist Ammonia Air Stress Cracking Test.

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

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

BSR/UL 385-202x, Standard for Play Pipes for Water Supply Testing in Fire Protection Service (revision of ANSI/UL 385-2006 (R2015))

(1) Suspected typographical error.

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

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

BSR/UL 1598B-202x, Standard for Safety for Supplemental Requirements for Luminaire Reflector Kits for Installation on Previously Installed Fluorescent Luminaires (revision of ANSI/UL 1598B-2014 (R2020))

This proposal for UL 1598B covers: Additional requirements for reflector kits for marine luminaires.

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

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

BSR/UL 2201-202x, Standard for Safety for Carbon Monoxide (CO) Emission Rate of Portable Generators (Proposal dated 3-6-20) (revision of ANSI/UL 2201-2018)

The following is being proposed: Clarification to the scope of UL 2201.

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

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

BSR/UL 8750-202x, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2019)

This proposal for UL 8750 covers: (1) Revision of requirements for Supplement SF - LED Equipment with Wired Control Circuits.

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

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

Comment Deadline: April 20, 2020

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB Std 130-202x, Standard for Training in Forensic DNA Amplification Methods using Capillary Electrophoresis Sequencing (new standard)

This standard provides the general requirements for a forensic DNA laboratory's training program in forensic DNA amplification methods for capillary electrophoresis (CE) sequencing. This standard applies to forensic human and wildlife mitochondrial DNA amplification, and wildlife nuclear DNA amplification.

Single copy price: Free

Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination//>

Order from: All ASB Documents are available on the Published Documents portion of the ASB website: www.asbstandardsboard.org

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

BSR/ASB Std 131-202x, Standard for Training in Forensic DNA Sequencing using Capillary Electrophoresis (new standard)

This standard provides the general requirements for a forensic DNA laboratory's training program in forensic DNA sequencing using capillary electrophoresis. This standard applies to forensic human and wildlife mitochondrial DNA amplification, and wildlife nuclear DNA amplification.

Single copy price: Free

Obtain an electronic copy from: Document and comments template can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination//>

Order from: All ASB Documents are available on the Published Documents portion of the ASB website: www.asbstandardsboard.org

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

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 15223-1/Ed.4-202x, Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements (identical national adoption of ISO 15223-1/Ed.4 and revision of ANSI/AAMI/ISO 15223-1:2016)

This part of ISO 15223 is applicable to symbols used in a broad spectrum of medical devices, which are marketed globally and therefore need to meet different regulatory requirements. These symbols may be used on the medical device itself, on its packaging or in the associated documentation.

Single copy price: Free

Obtain an electronic copy from: wvargas@aami.org

Order from: Wil Vargas, (703) 647-2779, wvargas@aami.org

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

ANS (American Nuclear Society)

Reaffirmation

BSR/ANS 8.20-1991 (R202x), Nuclear Criticality Safety Training (reaffirmation of ANSI/ANS 8.20-1991 (R2015))

This standard provides criteria for nuclear criticality safety training for operations with fissionable materials outside reactors.

Single copy price: \$47.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

Send comments (with optional copy to psa@ansi.org) to: P. Schroeder, pschroeder@ans.org

ASABE (American Society of Agricultural and Biological Engineers)

Revision

BSR/ASABE S613-2.2 MONYEAR-202x, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 2: Cab & HVAC design (revision and redesignation of ANSI/ASABE S613-2.1 JUN2013)

This part of the S613 standard series is concerned with the generally accepted design principles that define a robust cab and HVAC system used in contaminated environments as part of an Occupational Health and Safety Management System (OHSMS). This document is intended to be a guide for engineers who are responsible for designs used in agricultural applications. Information provided by this part of the standard series should help engineers provide cab and HVAC system designs that can be used as an engineering control within a program of risk management.

Single copy price: \$40.00 (ASABE Members); \$65.00 (Non-members)

Obtain an electronic copy from: vangilder@asabe.org

Order from: Carla VanGilder, (269) 932-7015, vangilder@asabe.org

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

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

Revision

BSR/ASHRAE Standard 182-202x, Method of Testing Absorption Water-Chilling and Water-Heating Packages (revision of ANSI/ASHRAE Standard 182-2008)

This revision of Standard 182-2008 prescribes a method of testing absorption water-chilling and water-heating packages to verify capacity and thermal energy input requirements at a specific set of operating conditions.

Single copy price: \$35.00

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

Order from: standards.section@ashrae.org

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1 2017)

This safety standard covers the design, construction, installation, operation, inspection, testing, maintenance, and repair of inclined stairway chairlifts and inclined and vertical platform lifts intended for transportation of a mobility impaired person only. The device shall have a limited vertical travel, operating speed, and platform

area. The operation shall be under continuous control of the user/attendant. The device shall not penetrate more than one floor. A full passenger enclosure on the platform shall be prohibited.

Single copy price: Free

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

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

Send comments (with optional copy to psa@ansi.org) to: Elijah Dominguez, (212) 591-8521, domingueze@asme.org

ASQ (American Society for Quality)

New Standard

BSR/ASQ E5-202x, Quality Program Guidelines for Nonnuclear Power Generation Facilities (new standard)

This standard will provide principles and practices that address the definition, attainment, verification and validation of the quality of a non-nuclear power facility's design, construction, operations, and maintenance. It will address a facility's Initial and modification structural and equipment design – equipment ranging from components to complete systems; construction, and manufacture, assembly and installation of equipment; operations and maintenance; public and employee safety and health; emergency preparedness and response; environmental protection; and security.

Single copy price: \$109.00

Obtain an electronic copy from: standards@asq.org

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

ASTM (ASTM International)

New Standard

BSR/ASTM WK56632-202x, Practice for Evaluating Natural Equine Footing Materials for Particle Size Analysis (Gradation) Sand Shape, and Soil Texture (new standard)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM WK56644-202x, Guide for Construction or Renovation of Native-Soil Athletic Fields (new standard)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM WK63309-202x, Specification for Polyethylene (PE) Electrofusion Fittings for Outside Diameter Controlled Crosslinked Polyethylene (PEX) Pipe (new standard)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F891-2016 (R202x), Specification for Coextruded Poly(Vinyl Chloride) (PVC) Plastic Pipe With a Cellular Core (reaffirmation of ANSI/ASTM F891-2016)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F918-2015 (R202x), Specification for Noncarbonated Mechanically Refrigerated Beverage Dispenser (Visible Product) (reaffirmation of ANSI/ASTM F918-2015)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F1604-2015 (R202x), Specification for Freezers, Ice Cream, Soft Serve, Shake (reaffirmation of ANSI/ASTM F1604-2015)

https://www.astm.org/ANSI_SA

Single copy price: Free

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

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

BSR/ASTM F1750-2011 (R202x), Specification for Paintball Marker Threaded-Propellant Source Interface (reaffirmation of ANSI/ASTM F1750-2016)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F1760-2017 (R202x), Specification for Coextruded Poly(Vinyl Chloride) (PVC) Non-Pressure Plastic Pipe Having Reprocessed-Recycled Content (reaffirmation of ANSI/ASTM F1760-2017)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F1974-2017 (R202x), Specification for Metal Insert Fittings for Polyethylene/Aluminum/Polyethylene and Crosslinked Polyethylene/Aluminum/Crosslinked Polyethylene Composite Pressure Pipe (reaffirmation of ANSI/ASTM F1974-2017)

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F2030-2011 (R202x), Specification for Paintball Cylinder Burst Disk Assemblies (reaffirmation of ANSI/ASTM F2030-2011 (R2016))

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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

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

BSR/ASTM F2107-2008 (R202x), Guide for Construction and Maintenance of Skinned Areas on Baseball and Softball Fields (reaffirmation of ANSI/ASTM F2107-2008 (R2015))

https://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

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BSR/ASTM F2225-2015 (R202x), Safety Specification for Consumer Trampoline Enclosures (reaffirmation of ANSI/ASTM F2225-2015)

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BSR/ASTM F2530-2013 (R202x), Specification for Protective Headgear with Faceguard Used in Bull Riding (reaffirmation of ANSI/ASTM F2530-2013)

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BSR/ASTM F2553-2016 (R202x), Specification for Warnings on Refillable CO2 Cylinders Used In the Sport of Paintball (reaffirmation of ANSI/ASTM F2553-2016)

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BSR/ASTM F2653-2011 (R202x), Specification for Paintball Valve Male Threaded Connection for Use with Approved Cylinders (reaffirmation of ANSI/ASTM F2653-2011 (R2015))

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BSR/ASTM F2654-2016 (R202x), Specification for Airsoft Gun Warnings (reaffirmation of ANSI/ASTM F2654-2016)

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BSR/ASTM F2727-2009 (R202x), Guide for Manufacturers for Labeling Headgear Products (reaffirmation of ANSI/ASTM F2727-2009 (R2014))

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BSR/ASTM F2774-2009 (R202x), Practice for Manufacturing Quality Control of Consumer Trampoline Bed Material (reaffirmation of ANSI/ASTM F2774-2009 (R2014))

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BSR/ASTM F2856-2012 (R202x), Practice for Transfilling and Safe Handling of Small CO2 Cylinders for Use in Paintball (reaffirmation of ANSI/ASTM F2856-2012 (R2016))

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BSR/ASTM F2891-2015 (R202x), Specification for Commercial Bulk Milk Dispensers, Mechanically Refrigerated (reaffirmation of ANSI/ASTM F2891-2015)

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ASTM (ASTM International)

Revision

BSR/ASTM E84-202x, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84-2019)

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BSR/ASTM E136-202x, Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750C (revision of ANSI/ASTM E136-2019)

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BSR/ASTM E1169-202x, Practice for Conducting Ruggedness Tests (revision of ANSI/ASTM E1169-2018)

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BSR/ASTM E1354-202x, Test Method for Heat and Visible Smoke Release Rates for Materials and Products Using an Oxygen Consumption Calorimeter (revision of ANSI/ASTM E1354-2017)

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BSR/ASTM E1591-202x, Guide for Obtaining Data for Fire Growth Models (revision of ANSI/ASTM E1591-2013)

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BSR/ASTM E2067-202x, Practice for Full-Scale Oxygen Consumption Calorimetry Fire Tests (revision of ANSI/ASTM E2067-2015)

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BSR/ASTM E2231-202x, Practice for Specimen Preparation and Mounting of Pipe and Duct Insulation Materials to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2231-2019)

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BSR/ASTM E2307-202x, Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-Story Test Apparatus (revision of ANSI/ASTM E2307-2019)

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BSR/ASTM E2579-202x, Practice for Specimen Preparation and Mounting of Wood Products to Assess Surface Burning Characteristics (revision of ANSI/ASTM E2579-2019)

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BSR/ASTM F628-202x, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core (revision of ANSI/ASTM F628-2018)

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BSR/ASTM F876-202x, Specification for Crosslinked Polyethylene (PEX) Tubing (revision of ANSI/ASTM F876-2019)

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BSR/ASTM F1970-202x, Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Systems (revision of ANSI/ASTM F1970-2019)

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BSR/ASTM F2223-202x, Guide for ASTM Standards on Playground Surfacing (revision of ANSI/ASTM F2223-2020)

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BSR/ASTM F2620-202x, Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings (revision of ANSI/ASTM F2620-2019)

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BSR/ASTM F2650-202x, Terminology Relating to Impact Testing of Sports Surfaces and Equipment (revision of ANSI/ASTM F2650-2017)

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BSR/ASTM F2842-202x, Specification for Reins Used in Thoroughbred and Quarter Horse Racing (revision of ANSI/ASTM F2842-2011 (R2017))

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BSR/ASTM F2968/F2968M-202x, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints For Gas Distribution Applications (revision and redesignation of ANSI/ASTM F2968/F2968M-2014)

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BSR/ASTM F3249-202x, Specification for Treestands, Climbing Sticks, and Tripod or Tower Stands (revision of ANSI/ASTM F3249-2017)

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CSA (CSA America Standards Inc.)

Reaffirmation

BSR Z21.22-2015 (R202x), Relief valves for hot water supply systems (same as CSA 4.4) (reaffirmation of ANSI Z21.22-2015)

Details test and examination criteria for: (1) Temperature relief valves and combination temperature and pressure relief valves for use on storage tanks of hot water supply systems without heater input limitation; (2) Valves having only pressure relief features for use on storage tanks of hot water supply systems with inputs up to and including 200,000 Btu per hour (58 614 W); and (3) Vacuum relief valves.

Single copy price: Free

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

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

BSR Z21.98-2015 (R202x), Non-metallic dip tubes for use in water heaters (same as CSA 4.10) (reaffirmation of ANSI Z21.98-2015)

Details test and examination criteria for non-metallic dip tubes for use in water heaters.

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ECIA (Electronic Components Industry Association)

Reaffirmation

BSR/EIA 364-61A (R202x), Mixed Flowing Gas Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-61A (R2019))

This standard establishes the test procedure for producing environmentally related corrosive atmospheres to determine the reaction of plated or unplated surfaces when exposed to different concentrations of flowing gas mixtures.

Single copy price: \$75.00

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

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FCI (Fluid Controls Institute)

Revision

BSR/FCI 99-2-202x, Standard for Pressure Reducing Regulator Capacity (revision of ANSI/FCI 99-2-2015)

This standard creates a guideline for establishing and reporting regular capacities for use by manufacturers, users, specifiers, and approval bodies in order to promote consistent presentation of regulator capacities.

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HL7 (Health Level Seven)

Reaffirmation

BSR/HL7 V3 COMT, R3-2010 (R202x), HL7 Version 3 Standard: Shared Messages, Release 3 (reaffirmation of ANSI/HL7 V3 COMT, R3-2010 (R2015))

The shared message domains contain Message Types and Interactions that are used by various clinical and administrative domains.

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BSR/HL7 V3 IDC, R2-2013 (R202x), HL7 Version 3 Standard: Implantable Device Cardiac - Follow-up Device Summary, Release 2 (reaffirmation of ANSI/HL7 V3 IDC, R2-2013)

This message is related to the follow-up of an Implantable Cardiac Device (pacemaker, defibrillator, etc.) that will contain a subset of device observations, current device therapy settings, and device diagnostic information. This is the 2nd release of this message. For the 2nd release, an attribute level narrative has been provided for the HMD/RMIM. Also recursive ACT Class relationships were added to support hierarchical observations.

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BSR/HL7 V3 PAPRSNREG, R1-2015 (R202x), HL7 Version 3 Standard: Patient Administration; Person Registry, Release 1 (reaffirmation of ANSI/HL7 V3 PAPRSNREG, R1-2015)

The Person Registry defines demographics and visit information about persons who are not patients.

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IES (Illuminating Engineering Society)

Addenda

BSR/IES RP-16-2017, Addendum 4-202x, Nomenclature and Definitions for Illuminating Engineering (addenda to ANSI/IES RP-16-2017)

Includes changes and deletions to lighting definitions in ANSI/IES RP-16-17.

Single copy price: \$25.00

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IES (Illuminating Engineering Society)

New Standard

BSR/IES LS-3-202x, Lighting Science: Physics and Optics of Radiant Power (new standard)

This document describes the physics of radiant energy for various light source types, as well as the physical optics used for manipulating light.

Single copy price: \$25.00

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BSR/IES LP-6-202x, Lighting Practice: Lighting Control Systems - Properties, Equipment and Specification (new standard)

This Lighting Practice document is intended to help designers, users, commissioning providers, and other interested parties understand fundamental characteristics and purposes of lighting control systems. These may include energy-saving strategies, design considerations, energy-saving strategies, equipment, and the variety of organizing protocols and methods in common usage.

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BSR/IES LS-6-202x, Lighting Science: Calculation of Light and Its Effects (new standard)

The purpose of this Lighting Science document is to provide the theoretical basis for lighting calculations, to describe how this theory is approximated and used, and to describe how it is embodied in most lighting analysis software. This can provide, from a user's perspective, an understanding of the power and limitations of calculations—however performed—and thus make clear their use in the lighting design process.

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BSR/IES LP-7-202x, Lighting Practice: The Lighting Design and Construction Process (new standard)

IES LP-7-20 covers the essential process that a lighting practitioner follows in concert with members of the building team to document a design for construction.

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BSR/IES LS-8-202x, Lighting Science: Vision - Perceptions and Performance (new standard)

This document provides an overview of visual perceptions and performance, covering topics such as brightness, glare, flicker, visibility, and illuminance criteria. It introduces scientific literature and past research results but does not serve as a complete literature review on any specific topic. The document provides basic descriptions and background of visual phenomena in order to guide lighting practitioners. For some topics, established formulas and processes are reviewed, but specific criteria or other recommendations are not provided. This document begins with a review of psychophysics, which is the primary method of study for perception and performance, in order to help readers understand the strength and limitations of the provided material.

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BSR/IES LP-11-202x, Lighting Practice: Environmental Considerations for Outdoor Lighting (new standard)

This Lighting Practice (LP) document outlines the environmental considerations of exterior lighting, especially as related to glare, sky glow, light trespass, and the impact of electric light at night on flora and fauna. In addition, this LP provides information on how to assign lighting zones, and how to use the Joint IDA-IES Model Lighting Ordinance (MLO) with User's Guide, as a basis for an exterior lighting ordinance. Finally, this LP discusses community-based design and makes specific recommendations for lighting outdoor areas

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BSR/IES LM-61-202x, Approved Method: Identifying Operating Factors for Installed High Intensity Discharge Luminaires (new standard)

This LM outlines factors that can cause differences between calculated and measured illuminance and luminance values of outdoor high-intensity discharge (HID) and low-pressure sodium (LPS) lamps and luminaires. It does not offer solutions, nor does it quantify all of the possible variables that might be encountered. The relevant ANSI/IES Recommended Practice document should be consulted for specific design recommendations.

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BSR/IES LM-72-202x, Approved Method: Directional Positioning of Photometric Data (new standard)

It is important to note that this document assigns specific, standard meaning to certain words; thus, some users might need to adjust their vocabulary. Most should find a positioning system compatible with their normal patterns and experience. This document does not show a preference for any system, but rather describes each of the three systems and then explains how to convert between them. In applying CN or CCE, four types of angular "rotation" are defined (Orient, Tilt, Roll, and Spin), and each shall be performed in the defined order. Any or all of the rotation angles may be zero. Each subsequent rotation is applied to the axis system as previously rotated (the local axes), not the original axis system (the global axes). Orientation, Tilt, Roll, and Spin can be described using X, Y, and Z axes, but the CN system and CCE system are described separately, and separate drawings of the coordinate system are needed.

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BSR/IES RP-2-202x, Recommended Practice: Lighting Retail Spaces (new standard)

This Recommended Practice was written for designers with varying levels of experience in retail lighting design. The study of this Recommended Practice, including the references and annexes found at the back, should serve as a foundation for good retail and merchandise lighting. For optimum success in lighting retail spaces (or where specialized merchandise lighting is required), the services of a professional specializing in retail merchandise lighting design is recommended. Ideally, this lighting professional should join the design team during the early stages of project development.

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BSR/IES RP-10-202x, Recommended Practice: Lighting Common Applications (new standard)

This Recommended Practice primarily addresses design considerations and illuminance criteria for common areas, which should influence luminaire optical selections, light source choices, and final layouts. It is important that deliberate thought be given to details beyond the recommended illuminances in this chapter. For example, in Section 3.6, Food Service, the vertical illuminance citation does not necessarily demand a uniform array of low-wattage wall washers. Such lighting can be achieved with uplight or downlight in each shelf, a perimeter slot-like detail along the back bar elevation, adjustable accents, the smallest of daylight-slots in the top of the back bar (for at least the daytime condition), or some combination of these. Each of these can achieve the target illuminance, but each has a distinctly different appearance and requires different architectural detailing. Such specific details are not enumerated for all tasks. The design team is responsible for determining and addressing indoor and outdoor lighting and energy criteria set forth by authorities having jurisdiction, which may be different from and supersede IES criteria.

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BSR/IES RP-31-202x, Recommended Practice: Economic Analysis of Lighting (new standard)

This Recommended Practice (RP) will help answer many types of lighting economic questions. It provides a framework for selecting from a group of competing lighting designs. It gives insight into the question of when a system under consideration will “pay off.” It can help the lighting professional make energy conservation decisions. Most importantly, it provides methods for gauging the profitability of a capital investment in a lighting system, which can be objectively compared to other competing capital investments. This RP begins with a discussion of the second-level methods, concentrating on LCCBA. This is followed by sections on sensitivity analysis and benefit analysis. Finally, because the lighting practitioner is likely to encounter the first-level methods in practice, these are also covered. In discussing the first-level methods, emphasis is placed on their shortcomings so that the lighting professional can understand why their use is not encouraged.

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BSR/IES RP-42-202x, Recommended Practice: Dimming and Control Method Designations (new standard)

This Recommended Practice provides simple standard designations for open non-proprietary dimming and control methods and protocols for luminaires (including standalone lamps) and controllers. This document does not address the internal control techniques within a luminaire, although the designations may be applicable. Inclusion of dimming methods and control protocol designations in design and construction documents—especially luminaire and control schedules—provides clarity in selection of compatible dimming and control equipment. Manufacturers of luminaires, drivers, controllers, and lamps are encouraged to use these same designations to clearly identify dimming methods that are compatible with their products in data sheets.

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BSR/IES TM-26-202x, Technical Memorandum: Projecting Catastrophic Failure Rate of LED Packages (new standard)

This document describes three methodologies for projecting the catastrophic failure rate of LED packages. This document applies to the LED packages that are defined in ANSI/IES RP-16-17, Nomenclature and Definitions for Illuminating Engineering (see Section 2.1). The three methodologies presented are for information only and do not represent a complete set of methodologies in existence; these represent the methodologies that are publicly available, and have been made available, for publication by the IES. The IES does not endorse any of these specific methods, and it is not the intent of this TM to use any of these methods for incorporation into any standards publication.

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BSR/IES TM-28-202x, Technical Memorandum: Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires (new standard)

This document recommends the methods for projecting long-term luminous flux maintenance of LED lamps and luminaires using data obtained when testing them per IES LM-84-14, Approved Method for Measuring Lumen and Color Maintenance of LED Lamps, Light Engines, and Luminaires, as well as data when testing LED sources per IES LM-80-08, Approved Method for Measuring Lumen and Color Maintenance of LED Light Sources.

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Obtain an electronic copy from: pmcgillicuddy@ies.org

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

IES (Illuminating Engineering Society)

Revision

BSR/IES RP-3-202x, Recommended Practice: Lighting Educational Facilities (revision of ANSI/IESNA RP-3-2013)

This Recommended Practice was developed to enable architects, engineers, lighting designers, and other lighting decision makers to ensure that their lighting criteria are consistent with good current practice; to assist school and university staff in understanding the importance of the role that lighting plays in educational environments; and to facilitate conversations about lighting between school and university staff, architects, engineers, lighting designers, and other designers. It addresses all levels of education, from preschool to university facilities.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Order from: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

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

BSR/IES RP-27-202x, Recommended Practice: Photobiological Safety for Lighting Systems (revision, redesignation and consolidation of ANSI/IESNA RP-27.1-2015, ANSI/IESNA RP-27.2-2000 (R2010), and ANSI/IES RP-27.3-2017)

This Recommended Practice covers the classification, labeling, and informational requirements for lamps that emit optical radiation in the wavelength range from 200 nm to 3000 nm, with exception for LEDs used in optical fiber communication systems and for lasers. Lamps included are incandescent filament lamps including tungsten-halogen types and incandescent heating sources, low-pressure discharge lamps, high-intensity discharge (HID) lamps, short-arc lamps, carbon arcs, electroluminescent lamps, LEDs, organic LEDs (OLEDs), and laser-driven broadband sources. For the purposes of this document, induction lighting is classified under fluorescent lamps and plasma lighting is classified under HID lamps. Federal mandatory requirements for lamps subject to specific Federal Regulations take precedence over requirements included in this consensus standard.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Order from: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

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

BSR/IES/ALA RP-11-202x, Lighting for Interior and Exterior Residential Environments (revision of ANSI/IES/ALA RP-11-2017)

This Recommended Practice is a guide for designing and for teaching lighting. It covers residential living spaces and other areas intended to impart a residential atmosphere. It describes design objectives, criteria for quantity and quality of illuminance, lighting methods, types and uses of equipment, energy use, and electrical code considerations. Various solutions that address residential lighting problems are also presented.

Single copy price: \$25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

Order from: Patricia McGillicuddy, (917) 913-0027, pmcgillicuddy@ies.org

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

IICRC (The Institute of Inspection, Cleaning and Restoration Certification)

New Standard

BSR/IICRC S220-202x, Standard for Professional Inspection of Hard Surface Floor Coverings (new standard)

This standard describes the procedures, methods, and systems for professional inspectors to follow when inspecting light commercial and residential hard surface floor coverings; including stone, laminate, pre-finished wood, ceramic, and resilient. This Standard does not specifically address the protocols and procedures for installing hard-surface floor coverings.

Single copy price: Free

Obtain an electronic copy from: <https://www.iicrc.org/page/SBSRIICRCS220>

Send comments (with optional copy to psa@ansi.org) to: <https://www.iicrc.org/page/SBSRIICRCS220>

NEMA (ASC C8) (National Electrical Manufacturers Association)

Revision

BSR C18.2M Part 2-202x, Portable Nickel Rechargeable Cells and Batteries - Safety Standard (revision of ANSI C18.2M, Part 2-2014)

This American National Standard specifies performance requirements for standardized portable nickel cadmium and nickel metal hydride rechargeable cells and batteries to ensure their safe operation under normal use and reasonably foreseeable misuse, and includes information relevant to hazard avoidance.

Single copy price: \$75.00

Obtain an electronic copy from: khaled.masri@nema.org

Order from: NEMA Communication Department; khaled.masri@nema.org

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

NFPA (National Fire Protection Association)

NFPA FIRE PROTECTION STANDARDS DOCUMENTATION

The National Fire Protection Association announces the availability of the NFPA First Draft Reports for concurrent review and comment by NFPA and ANSI. These First Draft Reports contains the disposition of public inputs that were received for documents in the Annual 2021 Revision Cycle.

The First Draft Report is located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/101next), can easily access the document's information page. All Comments on documents in the Annual 2021 Revision Cycle must be received by May 6, 2020. The disposition of all comments received from the review of the First Draft Report will be published in the Second Draft Report, and will also be available on the document's information page under the next edition tab.

For more information on the rules and for up-to-date information on schedules and deadlines for processing NFPA Documents, check the NFPA website (<http://www.nfpa.org>) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 241-202x, Standard for Safeguarding Construction, Alteration, and Demolition Operations (revision of ANSI/NFPA 241-2019)

This standard shall apply to structures in the course of construction, alteration, or demolition, including those in underground locations. General requirements applying to construction and demolition are contained in Chapter 1 and Chapters 3 through 7; specific requirements for construction and alteration activities are found in Chapter 8; those requirements specific to roofing operations are covered in Chapter 9; those requirements specific to demolition activities are covered in Chapter 10; and specific requirements for activities in underground locations are contained in Chapter 11.

Obtain an electronic copy from: www.nfpa.org/241Next

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

NFPA (National Fire Protection Association)

Revision

BSR/NFPA 484-202x, Standard for Combustible Metals (revision of ANSI/NFPA 484-2019)

This standard shall apply to the production, processing, finishing, handling, recycling, storage, and use of all metals and alloys that are in a form that is capable of combustion or explosion. Under proper conditions, most metals in the elemental form will react with oxygen to form an oxide. These reactions are exothermic. The conditions of the exposure are affected by the temperature of the metal (whether it is in large pieces or in the form of small particles), the ratio of its surface area to its total weight, the extent or presence of an oxide coating, the temperature of the surrounding atmosphere, the oxygen content of the atmosphere, the moisture content of the atmosphere, and the presence of flammable vapors. The procedures in Chapter 4 shall be used to determine whether a metal is in a noncombustible form. This standard also shall apply to operations where metal or metal alloys are subjected to processing or finishing operations that produce combustible powder or dust. Operations where metal or metal alloys are subjected to processing or finishing operations that produce combustible powder or dust shall include, but shall not be

Obtain an electronic copy from: www.nfpa.org/484Next

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

BSR/NFPA 652-202x, Standard on the Fundamentals of Combustible Dust (revision of ANSI/NFPA 652-2019)

This standard shall provide the basic principles of and requirements for identifying and managing the fire and explosion hazards of combustible dusts and particulate solids.

Obtain an electronic copy from: www.nfpa.org/652Next

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

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 250-202x, Real-time Event Signaling and Management API (revision of ANSI/SCTE 250-2019)

This document details the interfaces between a Signal Acquisition System (SAS) and a Signal Decision System (SDS) in order to support signal and manifest processing. The APIs support synchronous signal processing, asynchronous signal processing, and processing of both linear and file-based content.

Single copy price: \$50.00

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

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

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

TAPPI (Technical Association of the Pulp and Paper Industry)

New Standard

BSR/TAPPI T 843 om-202x, Fluted edge crush of corrugating medium (rigid support method) (new standard)

This test evaluates the ability of corrugating medium to contribute to the compression strength of a corrugated box. It is a procedure for measuring the edgewise compression strength of a laboratory-fluted strip of corrugating medium in a direction parallel to the fluted tips. Fluted edge crush is also measured in TAPPI T 824 "Fluted edge crush of corrugating medium (flexible beam method)", which uses a flexible beam compression machine instead of a rigid platen machine as used in this procedure.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

TAPPI (Technical Association of the Pulp and Paper Industry)

Reaffirmation

BSR/TAPPI T 441 om-2013 (R202x), Water absorptiveness of sized (non-bibulous) paper, paperboard, and corrugated fiberboard (Cobb test) (reaffirmation of ANSI/TAPPI T 441 om-2013)

This method describes a procedure for determining the quantity of water absorbed by nonbibulous paper, paperboard, and corrugated fiberboard in a specified time under standardized conditions. It is based on studies by Cobb and Lowe, Cobb, and other investigators. For testing unsized and absorbent paper or paperboard, see TAPPI T 432 "Water Absorbency of Bibulous Paper."

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

BSR/TAPPI T 455 sp-2014 (R202x), Identification of wire side of paper (reaffirmation of ANSI/TAPPI T 455 sp-2014)

This method describes procedures for identifying the wire side of paper made on a fourdrinier paper machine with a single wire or forming fabric. The term "wire side" will be used throughout this method and relates to the side of the sheet made in contact to either the machine wire or forming fabric. It is not always possible to identify the difference between sides, particularly with coated and other surface-treated papers, corrugating medium, papers made with certain multiply forming fabrics, certain high-grade papers made from well-beaten rag stock, and specialties made with some variation from usual papermaking practices. Nevertheless, if any one of the following procedures gives a clear result, identification is established. These procedures are not applicable to paper made on cylinder, twin-wire, or other special machines.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

BSR/TAPPI T 515 om-2014 (R202x), Visual grading and color matching of paper (reaffirmation of ANSI/TAPPI T 515 om-2014)

This method describes the spectral, photometric, and geometric characteristics of a light source, the illuminating and viewing conditions, and the procedures to be used for the visual evaluation of color differences of paper, including those containing fluorescent whitening agents. This method specifies light sources which are selected to accomplish three objectives: (a) simulation of the actual and illuminating conditions of ultimate use, (b) employment of two light sources which are spectrally very different in order to exaggerate observable differences between sample and standard if any difference exists, and (c) employment of a UV radiator to detect the presence of fluorescent whitening agents (FWA) and assess their impact on final appearance. This method is applicable when the testers have normal color vision.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

BSR/TAPPI T 845 om-2014 (R202x), Wet pin adhesion of corrugated board by selective separation (reaffirmation of ANSI/TAPPI T 845 om-2014)

This method measures the force required to separate the linerboard facings from the medium in corrugated board after the board has been immersed in water for a period of time. It may be used to evaluate the water-resistance properties or levels in water-resistant adhesive. This procedure mirrors the process in T 821 "Pin Adhesion of corrugated board by selective separation" with differences in how samples are prepared for testing and how results are interpreted.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

BSR/TAPPI T 1205 sp-2014 (R202x), Dealing with suspect (outlying) test determinations (reaffirmation of ANSI/TAPPI T 1205 sp-2014)

This TAPPI Standard Practice provides a procedure for judging whether suspect test determinations should be investigated further for possible rejection. A suspect determination (apparent outlier) is one that appears to deviate markedly from other determinations on the same sample of material. An outlying determination (outlier) is a suspect determination for which the deviation has, in fact, been found to be significant using an appropriate statistical test.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, standards@tappi.org

TAPPI (Technical Association of the Pulp and Paper Industry)

Revision

BSR/TAPPI T 804 om-202x, Compression test of fiberboard shipping containers (revision of ANSI/TAPPI T 804 om-20102)

This method is used for measuring the ability of corrugated or solid fiber shipping containers to resist external compressive forces. The method may be applied in several ways. For quality studies, it is usually desirable to test the empty container. For the study of compression resistance where inner packing (corner posts, etc.) is involved, tests may be made with the interior packing in place. If overall performance of the entire pack is to be studied, the test may be conducted with the container loaded with its contents and all inner packing. In many packs, the contents and inner packing share in carrying a portion of the load. The container may be positioned in the machine to test the compressive resistance in a direction that is relevant to the container's use including top-to-bottom, end-to-end, or side-to-side.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: standards@tappi.org

Send comments (with optional copy to psa@ansi.org) to: Deborah Dodson, Standards@tappi.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 3741-202x, Standard for Safety for Standard for Safety for Photovoltaic Hazard Control (new standard)

This proposal for UL 3741 covers: (1) The First Edition of the Standard for Safety for Photovoltaic Hazard Control, UL 3741, including applicable requirements for Canada, which covers a means for evaluation of PV Hazard Control components, equipment, and systems that provide a reduced level of shock hazard from energized PV system equipment and circuits located within the PV array after the operation of hazard control initiation function(s) where required, such as, but not limited to, any PV Rapid Shutdown Equipment (PVRSE) or PV Rapid Shutdown Systems (PVRSS) that comply with UL 1741.

Single copy price: Free

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

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

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

BSR/UL 121303-202x, Standard for Safety for the Guide for Use of Combustible Gas Detection Equipment (new standard)

This proposal for UL 121303 covers the adoption of ISA TR12.13.03, Guide for Use of Combustible Gas Detection Equipment, as a new UL standard, UL 121303.

Single copy price: Free

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

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1425-2010 (R202x), Standard for Cables for Non-Power-Limited Fire-Alarm Circuits (reaffirmation of ANSI/UL 1425-2010 (R2015))

Reaffirmation and continuance of the third edition of the Standard for Cables for Non-Power-Limited Fire-Alarm Circuits, UL 1425, as an American National Standard.

Single copy price: \$free

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1449-202x, Standard for Safety for Surge Protective Devices (revision of ANSI/UL 1449-2018)

(1) Expansion of Scope Paragraph 1.1; (2) Addition of Clause 1.19 to Specify Ambient Temperature; (3) Add new Definition Clause 3.46.1 - Type 2A SPD; (4) Revision to 7.2.1.2 - Openings in an Enclosure for Type 3 SPDs; (5) Addition of new Table 12.3 to replace Clauses 12.3 - 12.11; (6) Revision to allow terminal blocks tested to UL 1059; (7) Addition of Clauses 19.5 - 19.7 for PWBs; (8) Status indicator switch performance cycling clarification; (9) Clarification that the same external OCP be included in series with the SPD for all testing; (10) Clarification to Table 36.1 to align with Table 44.4; (11) Clarification of Table 36.2 to indicate test sequences; (12) Modification of 40.1.1 regarding surge testing; (13) Clarification of 40.5.2 regarding when external protection is relied upon to yield compliant performance test results; (14) Clarification of 40.5.2 for VPR measurement for Type 1, 2, 3 and 4 Component Assemblies; (15) Modification of 40.7 regarding nominal discharge current; (16) Revision of 40.7.1 to Include 15KA and increments from 3-10KA; (17) Modification of 40.7.2 regarding nominal discharge currents; (18) Modification of 40.9.1 regarding VPR requirements; (19) Clarify testing for integral thermal protection operation following nominal discharge current testing with addition of Clause 42.2; (20) Clarification of Table 44.1 to include delta systems up to 1000V; (21) Clarification of 44.1.12 pertaining to leakage and ground continuity tests after current tests; (22) Revision to 44.2.5 and 44.3.4 related to thermal responsive devices; (23) Clarification of titles for Sections 46 and 47; (24) Revision to 51.11 to include polymeric enclosures; (25) Editorial Correction in 58.1; (26) Revision to Clause 73D.1 to correct a reference; (27) Revision to markings Section 80; and (28) Revision to SA8.3 to simplify the test method.

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

BSR/UL 60730-2-9-202X, Standard for automatic electrical controls - Part 2-9: Particular requirements for temperature sensing controls (revision of ANSI/UL 60730-2-9-2017)

The IEC adopted amendment 4.1 in January 2018. UL now proposes to add this amendment to IEC 60730-2-9 to the 4th edition of UL 60730-2-9. UL is also proposing to delete three national differences from Annex H since the IEC has added these three to the Part 2-9.

Single copy price: Free

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

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

VITA (VMEbus International Trade Association (VITA))

New Standard

BSR/VITA 46.30-202x, Higher Data Rate VPX (new standard)

VITA 46.30 defines a standard for a VPX connector that supports higher data rates, to at least 25 Gbaud - for protocols such as 100GBASE-KR4 Ethernet and PCIe Gen 4. The higher-data-rate connectors compliant to VITA 46.30 are intermateable to legacy VITA 46.0 connectors and follow the same form factor.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

BSR/VITA 62.2-202x, Modular Power Supply Standard for 270v Applications (new standard)

This standard provides requirements for building a 270v class power supply module that can be used to power a VPX chassis in the VITA 62 family of standards. The module will fit within the standard envelope defined for VPX modules in the VITA 48.0 standards.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

VITA (VMEbus International Trade Association (VITA))

Revision

BSR/VITA 42.3-202x, XMC PCI Express Protocol Layer Standard (revision of ANSI/VITA 42.3-2014)

This standard describes a method for implementing PCI Express on the VITA 42.0, XMC mezzanine form factor. This revision extends FRU support for PCIe Gen 2 and above.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

BSR/VITA 67.3-202x, Coaxial Interconnect on VPX, Spring-Loaded Contact on Backplane (revision of ANSI/VITA 67.3-2017)

This document describes an open standard for configuration and interconnect within the structure of VITA 67.0 enabling an interface compatible with VITA 46 containing multi-position blind-mate analog connectors with SMPM-style contacts having fixed contacts on the Plug-In Module and spring action on the backplane. This revision adds higher density and alternate interfaces while maintaining the VITA 67.3 standard backplane cutouts and positions.

Single copy price: \$25.00

Obtain an electronic copy from: admin@vita.com

Send comments (with optional copy to psa@ansi.org) to: admin@vita.com

Comment Deadline: May 5, 2020

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

ANS (American Nuclear Society)

Revision

BSR/ANS 51.10-202x, Auxiliary Feedwater System For Pressurized Water Reactors (revision of ANSI/ANS 51.10-1991 (R2018))

This standard specifies updated design requirements for the Auxiliary Feedwater System including system functions, performance requirements, and system description.

Single copy price: \$110.00

Obtain an electronic copy from: orders@ans.org

Order from: orders@ans.org

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

Call for Members (ANS Consensus Bodies)

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

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: Wil Vargas
Phone (703) 647-2779
E-mail: wvargas@aami.org
Office: 901 N. Glebe Road
 Suite 300
 Arlington, VA 22203

BSR/AAMI/ISO 15223-1/Ed.4-202x, Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements (identical national adoption of ISO 15223-1/Ed.4 and revision of ANSI/AAMI/ISO 15223-1:2016)

AHAM (Association of Home Appliance Manufacturers)

Contact: Djed Mouada
Phone (202) 872-5313
E-mail: dmouada@aham.org
Office: 1111 19th Street NW
 Suite 402
 Washington, DC 20036

BSR/AHAM AC-1-202x, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (revision of ANSI/AHAM AC-1-2015)

ASABE (American Society of Agricultural and Biological Engineers)

Contact: Carla VanGilder
Phone (269) 932-7015
E-mail: vangilder@asabe.org
Office: 2950 Niles Road
 Saint Joseph, MI 49085

BSR/ASABE S613-2.2 MONYEAR-202x, Tractors and self-propelled machinery for agriculture - Air quality systems for cabs - Part 2: Cab & HVAC design (revision and redesignation of ANSI/ASABE S613-2.1 JUN2013)

ASME (American Society of Mechanical Engineers)

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

BSR/ASME A18.1-202x, Safety Standard for Platform Lifts and Stairway Chairlifts (revision of ANSI/ASME A18.1 2017)

ASQ (American Society for Quality)

Contact: Julie Sharp
Phone (800) 248-1946
E-mail: standards@asq.org
Office: 600 N Plankinton Ave
 Milwaukee, WI 53203

BSR/ASQ E5-202x, Quality Program Guidelines for Nonnuclear Power Generation Facilities (new standard)

ECIA (Electronic Components Industry Association)

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

BSR/EIA 364-61A (R202x), Mixed Flowing Gas Test Procedure for Electrical Connectors and Sockets (reaffirmation of ANSI/EIA 364-61A (R2019))

FCI (Fluid Controls Institute)

Contact: Leslie Schraff
Phone (216) 241-7333
E-mail: fci@fluidcontrolsinstitute.org
Office: 1300 Sumner Avenue
 Cleveland, OH 44115

BSR/FCI 99-2-202x, Standard for Pressure Reducing Regulator Capacity (revision of ANSI/FCI 99-2-2015)

IES (Illuminating Engineering Society)

Contact: Patricia McGillicuddy
Phone (917) 913-0027
E-mail: pmcgillicuddy@ies.org
Office: 120 Wall Street, Floor 17
 New York, NY 10005

BSR/IES LS-3-202x, Lighting Science: Physics and Optics of Radiant Power (new standard)

BSR/IES LS-6-202x, Lighting Science: Calculation of Light and Its Effects (new standard)

BSR/IES LP-6-202x, Lighting Practice: Lighting Control Systems - Properties, Equipment and Specification (new standard)

BSR/IES LP-7-202x, Lighting Practice: The Lighting Design and Construction Process (new standard)

BSR/IES LS-8-202x, Lighting Science: Vision - Perceptions and Performance (new standard)

BSR/IES LP-11-202x, Lighting Practice: Environmental Considerations for Outdoor Lighting (new standard)

BSR/IES LM-61-202x, Approved Method: Identifying Operating Factors for Installed High Intensity Discharge Luminaires (new standard)

BSR/IES LM-72-202x, Approved Method: Directional Positioning of Photometric Data (new standard)

BSR/IES RP-2-202x, Recommended Practice: Lighting Retail Spaces (new standard)

BSR/IES RP-3-202x, Recommended Practice: Lighting Educational Facilities (revision of ANSI/IESNA RP-3-2013)

BSR/IES RP-10-202x, Recommended Practice: Lighting Common Applications (new standard)

BSR/IES RP-27-202x, Recommended Practice: Photobiological Safety for Lighting Systems (revision, redesignation and consolidation of ANSI/IESNA RP-27.1-2015, ANSI/IESNA RP-27.2-2000 (R2010), and ANSI/IES RP-27.3-2017)

BSR/IES RP-31-202x, Recommended Practice: Economic Analysis of Lighting (new standard)

BSR/IES RP-42-202x, Recommended Practice: Dimming and Control Method Designations (new standard)

BSR/IES RP-16-2017, Addendum 4-202x, Nomenclature and Definitions for Illuminating Engineering (addenda to ANSI/IES RP-16-2017)

BSR/IES TM-26-202x, Technical Memorandum: Projecting Catastrophic Failure Rate of LED Packages (new standard)

BSR/IES TM-28-202x, Technical Memorandum: Projecting Long-Term Luminous Flux Maintenance of LED Lamps and Luminaires (new standard)

BSR/IES/ALA RP-11-202x, Lighting for Interior and Exterior Residential Environments (revision of ANSI/IES/ALA RP-11-2017)

NSF (NSF International)

Contact: Allan Rose
Phone (734) 827-3817
E-mail: arose@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF 6-202x (i16r1), Dispensing Freezers (revision of ANSI/NSF 6-2018)

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

BSR/NSF 40-202x (i35r2), Residential Wastewater Treatment Systems (revision of ANSI/NSF 40-2018)

BSR/NSF 245-202x (i17r2), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2018)

BSR/NSF 350-202x (i48r2), Onsite Residential and Commercial Water Reuse Treatment Systems (revision of ANSI/NSF 350-2019)

Contact: Rachel Brooker
Phone (734) 827-6866
E-mail: rbrooker@nsf.org
Office: 789 N. Dixboro Road
 Ann Arbor, MI 48105-9723

BSR/NSF 173-202x (i62r1), Dietary Supplements (revision of ANSI/NSF 173-2019)

BSR/NSF 455-2-202x (i2r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i3r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i4r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i6r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-2-202x (i7r1), Good Manufacturing Practices for Dietary Supplements (revision of ANSI/NSF 455-2-2018)

BSR/NSF 455-3-202x (i21r1), Good Manufacturing Practices for Cosmetics (revision of ANSI/NSF 455-3-2018)

BSR/NSF 455-4-202x (i13r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i14r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i15r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i17r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i19r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

BSR/NSF 455-4-202x (i22r1), Good Manufacturing Practices for Over-the-Counter Drugs (revision of ANSI/NSF 455-4-2018)

VITA (VMEbus International Trade Association (VITA))

Contact: Jing Kwok

Phone (602) 281-4497

E-mail: jing.kwok@vita.com

Office: 929 W. Portobello Avenue
Mesa, AZ 85210

BSR/VITA 42.3-202x, XMC PCI Express Protocol Layer Standard (revision of ANSI/VITA 42.3-2014)

BSR/VITA 46.30-202x, Higher Data Rate VPX (new standard)

BSR/VITA 62.2-202x, Modular Power Supply Standard for 270v Applications (new standard)

BSR/VITA 67.3-202x, Coaxial Interconnect on VPX, Spring-Loaded Contact on Backplane (revision of ANSI/VITA 67.3-2017)

TAPPI (Technical Association of the Pulp and Paper Industry)

Contact: Deborah Dodson

Phone (770) 209-7278

E-mail: standards@tappi.org

Office: 15 Technology Parkway South
Suite 115
Peachtree Corners, GA 30092

BSR/TAPPI T 844 om-202x, Determining construction (nominal basis weight) of corrugated board (new standard)

UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)

Contact: Donna Haders

Phone (440) 899-0010

E-mail: djh@wherryassoc.com

Office: 30200 Detroit Road
Cleveland, OH 44145-1967

BSR B74.11-202x, Specifications for Random Shaped Tumbling Chip Abrasives (revision of ANSI B74.11-2014)

Call for Members (ANS Consensus Bodies)

Call for Members

GTESS

GTESS is forming a new Consensus Board for the standards development organization (SDO). The scope of the GTESS SDO is “Standards and related documents relative to energy management systems”.

GTESS actively works with scheme owners and interested parties in the development of energy management related standards to promote energy efficiency, energy security, and sustainability practices such as management of greenhouse gas emissions. The Consensus Board serves as oversight for the standards developed to support U.S. standards such as ANSI/MSE 50028-1 on the Superior Energy Performance Program. It also works with the GTESS accredited Technical Advisory Group (TAG) to ISO TC 301 Energy management and energy savings in matters related to the adoption of National Standards from ISO TC 301. We invite those directly and materially interested in any interest category to enquire. Please contact deann.desai@gatech.edu to find out more about participating

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

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

Addenda

ANSI/ASHRAE Addendum 62.2x-2019, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2016): 3/2/2020

ANSI/ASHRAE/ASHE Addendum 170b-2017, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2013): 3/2/2020

ANSI/ASHRAE/ASHE Addendum 170c-2017, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2013): 3/2/2020

ANSI/ASHRAE/ASHE Addendum 170i-2017, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 170-2013): 3/2/2020

ANSI/ASHRAE/ASHE Addendum 170p-2017, Ventilation of Health Care Facilities (addenda to ANSI/ASHRAE Standard 170-2013): 3/2/2020

ANSI/ASHRAE/ICC/USGBC/IES Addendum an to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 3/2/2020

ANSI/ASHRAE/ICC/USGBC/IES Addendum j to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 3/2/2020

ANSI/ASHRAE/ICC/USGBC/IES Addendum u to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2017): 3/2/2020

AWS (American Welding Society)

New National Adoption

ANSI/AWS A4.2M-2020 (ISO 8249-2018 MOD), Standard Procedures for Calibrating Magnetic Instruments to Measure the Delta Ferrite Content of Austenitic and Duplex Ferritic-Austenitic Stainless Steel Weld Metal (national adoption of ISO 8249:2018 with modifications and revision of ANSI/AWS A4.2M/ISO 8249:2006 (R2014)): 2/27/2020

CSA (CSA America Standards Inc.)

Revision

ANSI/CSA HGV 4.1-2020, Hydrogen dispensing systems (revision of ANSI/CSA HGV 4.1-2013 (R2019)): 3/2/2020

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

New Standard

INCITS 548-2020, Information technology - Fibre Channel - Generic Services - 8 (FC-GS-8) (new standard): 3/2/2020

NSF (NSF International)

Revision

ANSI/NSF 173-2020 (i88r2), Dietary Supplements (revision of ANSI/NSF 173-2019): 3/1/2020

SCTE (Society of Cable Telecommunications Engineers)

Revision

ANSI/SCTE 187-2-2019, Stereoscopic 3D PSI Signaling (revision of ANSI/SCTE 187-2-2012): 3/2/2020

TCIA (ASC A300) (Tree Care Industry Association)

Revision

ANSI A300 Part 8-2019, Tree, Shrub, and Other Woody Plant Management - Standard Practices (Root Management) (revision of ANSI A300 Part 8-2013): 3/2/2020

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 62133-1-2020, Standard for Safety for Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from Them, for Use in Portable Applications - Part 1: Nickel Systems (national adoption with modifications of IEC 62133-1): 1/10/2020

ANSI/UL 62133-2-2020, Standard for Safety for Secondary Cells and Batteries Containing Alkaline or Other Non-Acid Electrolytes - Safety Requirements for Portable Sealed Secondary Cells, and for Batteries Made from Them, for Use in Portable Applications - Part 2: Lithium Systems (national adoption with modifications of IEC 62133-2): 1/10/2020

New Standard

ANSI/UL 2683-2020, Standard for Safety for Electric Heating Systems for Floor and Ceiling Installation (new standard): 2/25/2020

Revision

ANSI/UL 248-19-2020, Standard for Safety for Low-Voltage Fuses - Part 19: Photovoltaic Fuses (revision of ANSI/UL 248-19-2015): 2/28/2020

ANSI/UL 325-2020, Standard for Safety for Door, Drapery, Gate, Louver, and Window Operators and Systems (revision of ANSI/UL 325-2019): 2/28/2020

ANSI/UL 514C-2020, Standard for Nonmetallic Outlet Boxes, Flush-Device Boxes, and Covers (revision of ANSI/UL 514C-2018): 2/6/2020

ANSI/UL 1323-2020, Standard for Scaffold Hoists (revision of ANSI/UL 1323-2014 (R2019)): 2/26/2020

ANSI/UL 9540-2020, Standard for Safety for Energy Storage Systems and Equipment (revision of ANSI/UL 9540-2016): 2/27/2020

ANSI/UL 60079-28-2020, Standard for Safety for Explosive Atmospheres - Part 28: Protection of Equipment and Transmission Systems Using Optical Radiation (revision of ANSI/UL 60079-28-2017): 2/27/2020

Project Initiation Notification System (PINS)

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

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

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

AHAM (Association of Home Appliance Manufacturers)

Contact: *Djed Mouada, (202) 872-5313, dmouada@aham.org*
 1111 19th Street NW, Suite 402, Washington, DC 20036

Revision

BSR/AHAM AC-1-202x, Method for Measuring Performance of Portable Household Electric Room Air Cleaners (revision of ANSI/AHAM AC-1-2015)

Stakeholders: Manufacturers of household air cleaners, testing laboratories, consumers.

Project Need: General update to standard. Inclusion of PM (Particulate Matter) 2.5 reduction CADR based on existing smoke and dust data.

This standard method establishes uniform, repeatable procedures and standard methods for measuring specified product characteristics of portable household electric room air cleaners. The standard methods provide a means to compare and evaluate different brands of portable household electric room air cleaners regarding characteristics significant to product use.

APCO (Association of Public-Safety Communications Officials-International)

Contact: *Stacy Banker, (920) 579-1153, apcostandards@apcointl.org*
 351 N. Williamson Boulevard, Daytona Beach, FL 32114

Revision

BSR/APCO 1.113.2-202x, Public Safety Communications Incident Handling Process (revision and redesignation of ANSI/APCO 1.113.1-2019)

Stakeholders: Telecommunicators, supervisors, managers/directors, and public safety agencies.

Project Need: The current standard does not include specific call-handling metrics. There is a need to evaluate and incorporate empirical data derived from the George Mason University Call Handling and Incident Processing in Emergency Communications Centers: A Research Report.

The Incident Handling Process standard identifies the steps and decision-making points that should be taken while processing public safety requests for service. This modified standard will also address call-handling metrics based on empirical data to further refine and improve the overall process.

ASME (American Society of Mechanical Engineers)

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

New Standard

BSR/ASME BP-1-202x, Extrusion Bioprinters Hardware (new standard)

Stakeholders: Manufacturers of bioprinters, regulators of tissue engineered medical products (TEMPs), industry developers of TEMPs, developers of bioinks, hospitals, pharmaceutical companies who may use TEMPs for testing of new drugs, patients who require TEMPs.

Project Need: With many different manufacturers and academic researchers developing bioink products, there is a lack of standardization for bioink printers such as nozzle temperature, printing time, dispensing pressure, printing speed, and nozzle diameter, all of which directly influence the precision and accuracy of bioink deposition.

ASME will focus on producing a standard covering bioprinting equipment.

BSR/ASME MUS-2-202x, Use of Crawler/Ground Robotics for Inspection (new standard)

Stakeholders: Robotic manufacturers, regulators, owners/operators of critical infrastructure, research groups.

Project Need: There are currently no guidelines and requirements for the utilization of Crawlers/Ground Robotics to safely and reliably perform inspections and examinations.

This document provides guidelines and requirements for the utilization of Crawlers/Ground Robotics to safely and reliably perform inspections and examinations of fixed equipment including pressure vessels, tanks, piping systems, and other components considered part of Critical Infrastructure.

BSR/ASME TM-1-202x, Thermal Medicine Terms and Definitions (new standard)

Stakeholders: Clinicians, researchers, and engineers.

Project Need: The Thermal Medicine space lacks consistent terminology within interdisciplinary teams to improve communication between the clinicians and engineers.

This standard will identify Thermal Medicine terms and provide definitions to be used by clinicians and engineers. Standard aims to explain the confusion between how clinicians and engineers use the term.

BSR/ASME TM-2-202x, Measurement Methodologies of Tissue Material Properties (new standard)

Stakeholders: Society of Thermal Medicine European Society of Hyperthermia Oncology, Focused Ultrasound Foundation, American Society for Laser Medicine & Surgery, IT'IS Foundation, MyWave, Cost Action Society of Cyrobiology, National Institute of Standards and Technology (NIST) Standards Coordinating Body (SCB), Advanced Regenerative Manufacturing Institute (ARMI), medical modeling and simulation hospitals research groups FDA.

Project Need: Current database lacks additional material properties and expansion of temperature dependent values for industry use. There is no consistent method/industry standard to test/measure for tissue properties.

This standard will provide a consistent method to test/measure for tissue properties.

SCTE (Society of Cable Telecommunications Engineers)

Contact: Kim Cooney, (800) 542-5040, kcooney@scte.org
140 Phillips Rd, Exton, PA 19341

Revision**BSR/SCTE 129-202x, Drop Passives: Bonding Blocks (Without Surge Protection) (revision of ANSI/SCTE 129-2017)**

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

The purpose of this document is to recommend mechanical and electrical standards for broadband radio frequency (RF) devices whose primary purpose is to provide a transition point between the network operator's service cable (the "drop") and the distribution wiring within premises. An important function of the device is to provide a connection point for a bonding conductor in accordance with requirements of the National Electrical Code or local building requirements. The scope of this specification is limited to 75-ohm devices whose ports are provided with female type F ports.

BSR/SCTE 146-202x, Outdoor F Female to F Female Inline Splice (revision of ANSI/SCTE 146-2017)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

The purpose of this document is to recommend mechanical and electrical standards for 75-ohm broadband radio frequency (RF) devices whose purpose is to provide an outdoor inline connection between two type "F" male connectors that conform to ANSI/SCTE 123, Specification for "F" Connector, Male, Feed-Through; or ANSI/SCTE 124, Specification for "F" Connector, Male, Pin Type; and ANSI SCTE 160, Specification for Mini "F" Connector, Male, Pin Type. The mechanical configuration is designed to accommodate sealing rings for external applications.

BSR/SCTE 155-202x, Indoor F Female to F Female Inline Splice (revision of ANSI/SCTE 155-2017)

Stakeholders: Cable Telecommunication industry.

Project Need: Update current technology.

The purpose of this document is to recommend the mechanical and electrical standards for 75-ohm broadband radio frequency (RF) devices that provide an indoor inline connection between two type "F" male connectors that conform to ANSI/SCTE 123 2011, Specification for "F" Connector, Male, Feed-Through; or ANSI/SCTE 124 2011, Specification for "F" Connector, Male, Pin Type. The mechanical configuration is designed to accommodate wall-plate and bulkhead applications.

TAPPI (Technical Association of the Pulp and Paper Industry)

Contact: Deborah Dodson, (770) 209-7278, standards@tappi.org
15 Technology Parkway South, Suite 115, Peachtree Corners, GA 30092

New Standard

BSR/TAPPI T 844 om-202x, Determining construction (nominal basis weight) of corrugated board (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.

This method describes a procedure to determine the nominal basis weight (grade) of the components of corrugated board. Test specimens of corrugated fiberboard are treated with water so that the component layers can be separated, dried, and weighed. The goal of the method is not to determine the exact basis weights of the papers comprising a corrugated specimen, but rather to identify the probable marketing grade under which the papers were likely sold. This method is applicable to all types of corrugated fiberboard.

UAMA (ASC B74) (Unified Abrasives Manufacturers' Association)

Contact: Donna Haders, (440) 899-0010, djh@wherryassoc.com
30200 Detroit Road, Cleveland, OH 44145-1967

Revision

BSR B74.11-202x, Specifications for Random Shaped Tumbling Chip Abrasives (revision of ANSI B74.11-2014)

Stakeholders: Producers, consumers, and general interest.

Project Need: The standard was previously balloted as a reaffirmation, but it was determined that a section referenced an old standard so it now needs to be revised, for that only. No PINS was previously submitted because it was reaffirmation, but a BSR 8 was submitted. A new BSR 8 will be submitted to indicate that change from reaffirmation to revision.

This standard applies to random-shaped tumbling chips commonly used in tumbling or vibratory barrels for the finishing of parts.

American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

ANSI-Accredited Standards Developers Contact Information

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

AAFS

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

AAMI

Association for the Advancement of
Medical Instrumentation
901 N. Glebe Road
Suite 300
Arlington, VA 22203
Phone: (703) 647-2779
Web: www.aami.org

AHAM

Association of Home Appliance
Manufacturers
1111 19th Street NW
Suite 402
Washington, DC 20036
Phone: (202) 872-5313
Web: www.aham.org

ANS

American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526
Phone: (708) 579-8268
Web: www.ans.org

APCO

Association of Public-Safety
Communications Officials-
International
351 N. Williamson Boulevard
Daytona Beach, FL 32114
Phone: (920) 579-1153
Web: www.apcoIntl.org

ASABE

American Society of Agricultural and
Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7015
Web: www.asabe.org

ASHRAE

American Society of Heating,
Refrigerating and Air-Conditioning
Engineers, Inc.
1791 Tullie Circle NE
Atlanta, GA 30329
Phone: (678) 539-2114
Web: www.ashrae.org

ASME

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

ASQ

American Society for Quality
600 N Plankinton Ave
Milwaukee, WI 53203
Phone: (800) 248-1946
Web: www.asq.org

ASTM

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

AWS

American Welding Society
8669 NW 36th Street
130
Miami, FL 33166
Phone: (305) 443-9353
Web: www.aws.org

CSA

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

ECIA

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

FCI

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

HL7

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

IES

Illuminating Engineering Society
120 Wall Street, Floor 17
New York, NY 10005
Phone: (917) 913-0027
Web: www.ies.org

IICRC

The Institute of Inspection, Cleaning and
Restoration Certification
4043 South Eastern Avenue
Las Vegas, NV 89119
Phone: (702) 430-9829
Web: www.thecleantrust.org

ITI (INCITS)

InterNational Committee for
Information Technology Standards
700 K Street NW
Suite 600
Washington, DC 20001
Phone: (202) 737-8888
Web: www.incits.org

NEMA (ASC C8)

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

NFPA

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

NSF

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

SCTE

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

TAPPI

Technical Association of the Pulp and
Paper Industry
15 Technology Parkway South
Suite 115
Peachtree Corners, GA 30092
Phone: (770) 209-7278
Web: www.tappi.org

TCIA (ASC A300)

Tree Care Industry Association
136 Harvey Rd # 101
Londonderry, NH 03053
Phone: (603) 314-5380
Web: www.treecareindustry.org

UAMA (ASC B74)

Unified Abrasives Manufacturers'
Association
30200 Detroit Road
Cleveland, OH 44145-1967
Phone: (440) 899-0010
Web: www.uama.org

UL

Underwriters Laboratories, Inc.
12 Laboratory Drive
Research Triangle Park, NC 27709-3995
Phone: (919) 549-1851
Web: www.ul.com

VITA

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



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 IEC 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

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 7689, Aerospace - Bolts, with MJ threads, made of alloy steel, strength class 1 100 MPa - Procurement specification - 5/17/2020, \$77.00

BANKING AND RELATED FINANCIAL SERVICES (TC 68)

ISO/DIS 23195, Security objectives of information systems of third-party payment services - 5/22/2020, \$112.00

COSMETICS (TC 217)

ISO/DIS 21392, Cosmetics - Analytical methods - Measurement of traces of heavy metals in cosmetic finished products using ICP/MS technique - 5/23/2020, \$82.00

DENTISTRY (TC 106)

ISO 21606/DAMd1, Dentistry - Elastomeric auxiliaries for use in orthodontics - Amendment 1 - 5/12/2020, \$33.00

ISO/DIS 4823, Dentistry - Elastomeric impression and bite registration materials - 5/17/2020, \$102.00

ISO/DIS 15854, Dentistry - Casting and baseplate waxes - 5/18/2020, \$77.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO/DIS 14097, Framework including principles and requirements for assessing and reporting investments and financing activities related to climate change - 5/22/2020, \$112.00

FISHERIES AND AQUACULTURE (TC 234)

ISO/DIS 22948, Carbon footprint for seafood - Product category rules (CFP-PCR) for finfish - 5/18/2020, \$93.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 8000-110, Data quality - Part 110: Master data: Exchange of characteristic data: Syntax, semantic encoding, and conformance to data specification - 5/23/2020, \$71.00

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

ISO/DIS 24200, Petroleum, petrochemical and natural gas industries - Bulk material for offshore projects - Pipe support - 5/21/2020, \$125.00

MECHANICAL TESTING OF METALS (TC 164)

ISO/DIS 1143, Metallic materials - Rotating bar bending fatigue testing - 11/13/2021, \$93.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 11146-1, Lasers and laser-related equipment - Test methods for laser beam widths, divergence angles and beam propagation ratios - Part 1: Stigmatic and simple astigmatic beams - 5/22/2020, \$71.00

ISO/DIS 11146-2, Lasers and laser-related equipment - Test methods for laser beam widths, divergence angles and beam propagation ratios - Part 2: General astigmatic beams - 5/15/2020, \$67.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO/DIS 22608, Protective clothing - Protection against liquid chemicals - Measurement of repellency, retention, and penetration of liquid pesticide formulations through protective clothing materials - 5/24/2020, \$67.00

PLASTICS (TC 61)

ISO/DIS 11443, Plastics - Determination of the fluidity of plastics using capillary and slit-die rheometers - 5/17/2020, \$102.00

ISO/DIS 20965, Plastics - Determination of the transient extensional viscosity of polymer melts - 5/17/2020, \$77.00

ROAD VEHICLES (TC 22)

ISO 17536-1/DAMd1, Road vehicles - Aerosol separator performance test for internal combustion engines - Part 1: General - Amendment 1 - 5/22/2020, \$29.00

ISO/DIS 12345, Diesel engines - Cleanliness assessment of fuel injection equipment - 11/9/2012, \$98.00

ISO/DIS 12614-1, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 1: General requirements and definitions - 5/21/2020, \$40.00

ISO/DIS 12614-2, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 2: Performance and general test methods - 5/21/2020, \$40.00

ISO/DIS 12614-3, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 3: Check valve - 5/21/2020, \$33.00

ISO/DIS 12614-4, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 4: Manual valve - 5/21/2020, \$33.00

ISO/DIS 12614-5, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 5: Tank pressure gauge - 5/21/2020, \$33.00

ISO/DIS 12614-7, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 7: Pressure relief valve (PRV) - 5/21/2020, \$33.00

ISO/DIS 12614-9, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 9: Gas-tight housing and ventilation hose - 5/21/2020, \$33.00

ISO/DIS 12614-10, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 10: Rigid fuel line in stainless steel - 5/21/2020, \$33.00

ISO/DIS 12614-11, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 11: Fittings - 5/21/2020, \$33.00

ISO/DIS 12614-12, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 12: Rigid fuel line in copper and its alloys - 5/22/2020, \$33.00

ISO/DIS 12614-13, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 13: Tank pressure control regulator - 5/21/2020, \$33.00

ISO/DIS 12614-14, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 14: Differential pressure fuel content gauge - 5/21/2020, \$33.00

ISO/DIS 12614-15, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 15: Capacitance fuel content gauge - 5/21/2020, \$33.00

ISO/DIS 12614-16, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 16: Heat exchanger-vaporizer - 5/21/2020, \$33.00

ISO/DIS 12614-17, Road vehicles - Liquefied natural gas (LNG) fuel system components - Part 17: Natural gas detector - 5/21/2020, \$33.00

ISO/DIS 20766-13, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 13: Multivalve - 5/23/2020, \$33.00

ISO/DIS 20766-14, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 14: Vaporizer/Pressure regulator - 5/23/2020, \$40.00

ISO/DIS 20766-16, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 16: Injectors and gas mixing device/fuel rail - 5/23/2020, \$33.00

ISO/DIS 20766-24, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 24: Gas tubes - 5/23/2020, \$33.00

ISO/DIS 20766-25, Road vehicles - Liquefied petroleum gas (LPG) fuel system components - Part 25: Gas connections - 5/23/2020, \$33.00

STEEL (TC 17)

ISO/DIS 6306, Chemical analysis of steel - Order of listing elements in steel standards - 5/18/2020, \$33.00

TEXTILES (TC 38)

ISO/DIS 16549, Textiles - Unevenness of textile strands - Capacitance method - 5/17/2020, \$53.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 17779, Brazing - Specification and qualification of brazing procedures for metallic materials - 5/23/2020, \$77.00

ISO/DIS 15614-12, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 12: Spot, seam and projection welding - 5/18/2020, \$46.00

ISO/DIS 15614-13, Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 13: Resistance butt and flash welding - 11/7/2016, \$67.00

IEC Standards

5/229/CD, IEC 60953-0 ED1: Rules for steam turbine thermal acceptance tests - Part 0: Wide range of accuracy for various types and sizes of turbines, 2020/5/22

5/230/CD, IEC 60953-3 ED2: Rules for steam turbine thermal acceptance tests - Part 3: Thermal performance verification tests of retrofitted steam turbines, 2020/5/22

8B/57/CD, IEC TS 62898-3-3 ED1: Microgrids - Part 3-3: Technical requirements - Self-regulation of dispatchable loads, 2020/4/24

20/1909/FDIS, IEC 60840 ED5: Power cables with extruded insulation and their accessories for rated voltages above 30 kV ($U_m = 36$ kV) up to 150 kV ($U_m = 170$ kV) - Test methods and requirements, 2020/4/10

20/1908/FDIS, IEC 62893-4-1 ED1: Charging cables for electric vehicles of rated voltages up to and including 0,6/1 kV - Part 4-1: Cables for DC charging according to mode 4 of IEC 61851-1 - DC charging without use of a thermal management system, 2020/4/10

21A/722/CDV, IEC 62619 ED2: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications, 2020/5/22

21A/724/CDV, IEC 63218 ED1: Secondary cells and batteries containing alkaline and other non-acid electrolyte - Secondary Lithium ion, Nickel Cadmium, and Nickel Metal Hydride cells and batteries for portable applications - Guidance on environmental aspects, 2020/5/22

23E/1177/CDV, IEC 62873-3-1/AMD1 ED1: Amendment 1 - Residual current operated circuit-breakers for household and similar use - Part 3-1: Particular requirements for RCDs with screwless-type terminals for external copper conductors, 2020/5/22

34D/1534/CD, IEC 60598-1 ED10: Luminaires - Part 1: General requirements and tests, 2020/5/22

34D/1536/CD, IEC 62722-2-1/AMD1/FRAG1 ED1: Fragment 1 - Amendment 1 - Luminaire performance - Part 2-1: Particular requirements for LED luminaires, 2020/5/22

37B/218/FDIS, IEC 61643-341 ED2: Components for low-voltage surge protection - Part 341: Performance requirements and test circuits for thyristor surge suppressors (TSS), 2020/4/10

45B/958/FDIS, IEC 62963 ED1: Radiation protection instrumentation - X-ray computed tomography (CT) inspection systems of bottled/canned liquids, 2020/4/10

46/767/CDV, IEC 62037-6 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 6: Measurement of passive intermodulation in antennas, 2020/5/22

46/765/CDV, IEC 62037-3 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 3: Measurement of passive intermodulation in coaxial connectors, 2020/5/22

46/766/CDV, IEC 62037-5 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 5: Measurement of passive intermodulation in filters, 2020/5/22

46/768/CDV, IEC 62037-1 ED2: Passive RF and microwave devices, intermodulation level measurement - Part 1: General requirements and measuring methods, 2020/5/22

46A/1405/NP, PNW 46A-1405: Coaxial communication cables - Part 1 -212: Environmental test methods - UV stability, 2020/5/22

- 46C/1150/CD, IEC 62807-3-10 ED1: Hybrid Telecommunication Cables - Part 3-10: Family specification for FTTH hybrid communication cables, 2020/5/22
- 46C/1149/CD, IEC 62807-3 ED1: Hybrid telecommunication cables - Part 3: Outdoor hybrid cables - Sectional specification, 2020/5/22
- 47E/704/NP, PNW 47E-704: Future IEC 60747-5-15: Semiconductor devices - Part 5-15: Optoelectronic devices - Light emitting diodes - Test method of the internal electric field based on the electroreflectance spectroscopy, 2020/5/22
- 47E/698/CD, IEC 60747-16-7 ED1: Semiconductor devices - Part 16-7: Microwave integrated circuits - Attenuators, 2020/5/22
- 47E/699/CD, IEC 60747-16-8 ED1: Semiconductor devices - Part 16-8: Microwave integrated circuits - Limiters, 2020/5/22
- 47E/703/NP, PNW 47E-703: Future IEC 60747-5-14: Semiconductor devices - Part 5-14: Optoelectronic devices - Light emitting diodes - Test method of the junction temperature based on the thermoreflectance method, 2020/5/22
- 48B/2796/DPAS, Connectors for electrical and electronic equipment - Product requirements - Part 2-010: Circular connectors - Detail specification for push pull connectors with locking mechanism, based on mating interfaces according to IEC 61076-2-101, IEC 61076-2-109, IEC 61076-2-111 and IEC 61076-2-113, 2020/4/24
- 48B/2786/CDV, IEC 63171-2/ED.1: Connectors for electrical and electronic equipment - Part 2: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for type 2, 2020/5/22
- 49/1339/FDIS, IEC 63155 ED1: Guidelines for the measurement method of power durability for surface acoustic wave (SAW) and bulk acoustic wave (BAW) devices in radio frequency (RF) applications, 2020/4/10
- 51/1328/CDV, IEC 63182-2 ED1: Magnetic powder cores - Guidelines on dimensions and the limits of surface irregularities - Part 2: Ring-cores, 2020/5/22
- 55/1835A/FDIS, IEC 60317-0-4 ED4: Specifications for particular types of winding wires - Part 0-4: General requirements - Glass-fibre wound, resin or varnish impregnated, bare or enamelled rectangular copper wire, 020/4/3/
- 57/2190/DC, Draft IEC TR 61850-90-16: Communication networks and systems for power utility automation - Part 90-16: Requirements for System management for IEC 61850, 2020/4/24
- 59/722(F)/FDIS, IEC 63086-1 ED1: Household and similar electrical air cleaning appliances - Methods for measuring the performance - Part 1: General requirements, 2020/3/20
- 59F/391/CDV, IEC 62885-2 ED2: Surface cleaning appliances - Part 2: Dry vacuum cleaners for household or similar use - Methods for measuring the performance, 2020/5/22
- 62A/1386/FDIS, IEC 62366-1/AMD1 ED1: Amendment 1 - Medical devices - Part 1: Application of usability engineering to medical devices, 2020/4/10
- 65B/1169/DC, Document for comment about keeping or withdrawing the IEC 61298 Series (Process measurement and control devices - General methods and procedures for evaluating performance), 2020/3/27
- 85/717/CD, IEC 61557-12/AMD1 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 12: Power metering and monitoring devices (PMD), 2020/4/24
- 86B/4276/FDIS, IEC 61300-3-55 ED1: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-55: Examinations and measurements - Polarisation extinction ratio and keying accuracy of polarisation maintaining, passive, optical components, 2020/4/10
- 91/1637/CDV, IEC 61188-6-2 ED1: Circuit boards and circuit board assemblies - Design and use - Part 6-2: Land pattern design - Description of land pattern for the most common surface mounted components (SMD), 2020/5/22
- 91/1636/CDV, IEC 61188-6-1 ED1: Circuit boards and circuit board assemblies - Design and use - Part 6-1: Land pattern design - Generic requirements for land pattern on circuit boards, 2020/5/22
- 100/3405/CD, IEC 60728-115 ED1: In-Building Optical systems for broadcast signal transmissions (TA 5), 2020/4/24
- 104/864/FDIS, IEC 60721-3-0 ED2: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Introduction, 2020/4/10
- 109/183/FDIS, IEC 60664-1 ED3: Insulation coordination for equipment within low-voltage supply systems - Part 1: Principles, requirements and tests, 2020/4/10
- 110/1189/CD, IEC 62906-5-1 ED1: Laser displays - Part 5-1: Measurement of optical performance for laser front projection, 2020/4/24
- 111/573/FDIS, IEC 62321-3-2 ED2: Determination of certain substances in electrotechnical products - Part 3-2: Screening - Fluorine, bromine and chlorine in polymer and electronics by combustion-ion chromatography (C-IC), 2020/4/10
- 112/478/NP, PNW 112-478: Test method for compatibility of construction materials with electrical insulating liquids, 2020/5/22
- 119/301/CD, IEC 62899-503-2 ED1: Printed electronics - Part 503-2: Quality assessment - Test method for Electrical characterization of roll-to-roll printed TFT active matrix, 2020/5/22
- 120/176/CD, IEC 62933-1 ED2: Electrical energy storage (EES) systems - Part 1: Vocabulary, 2020/5/22
- 120/177/NP, PNW 120-177: Electric Energy Storage System - Part 4-2: Environment impact assessment requirement for electrochemical based systems failure, 2020/3/27
- 121A/338/CDV, IEC 60947-9-2 ED1: Low-voltage switchgear and controlgear - Active arc-fault mitigation systems - Part 9-2: Optical-based internal arc-detection and mitigation devices, 2020/5/22
- JTC1-SC25/2944/DTR, ISO/IEC TR 15067-3-8 ED1: Information technology - Home Electronic System (HES) application model - GridWise Transactive Energy Framework, 2020/4/24



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

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 21785:2020](#), Air cargo unit load devices - Load distribution model, \$68.00

[ISO 21894:2020](#), Air cargo - Cargo stopper devices - Design and testing, \$68.00

[ISO 22137:2020](#), Space systems - Program management - Test reviews, \$138.00

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 80601-2-12:2020](#), Medical electrical equipment - Part 2-12: Particular requirements for basic safety and essential performance of critical care ventilators, \$232.00

CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)

[ISO 15190:2020](#), Medical laboratories - Requirements for safety, \$209.00

[ISO 22367:2020](#), Medical laboratories - Application of risk management to medical laboratories, \$232.00

CRANES (TC 96)

[ISO 9942-3:2020](#), Cranes - Information labels - Part 3: Tower cranes, \$68.00

DENTISTRY (TC 106)

[ISO 15098:2020](#), Dentistry - Dental tweezers, \$68.00

DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

[ISO 21204:2020](#), Geometrical product specifications (GPS) - Transition specification, \$209.00

EARTH-MOVING MACHINERY (TC 127)

[ISO 7096:2020](#), Earth-moving machinery - Laboratory evaluation of operator seat vibration, \$138.00

GAS CYLINDERS (TC 58)

[ISO 23088:2020](#), Gas cylinders - Periodic inspection and testing of welded steel pressure drums - Capacities up to 1 000 l, \$138.00

GEARS (TC 60)

[ISO 1328-2:2020](#), Cylindrical gears - ISO system of flank tolerance classification - Part 2: Definitions and allowable values of double flank radial composite deviations, \$138.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

[ISO 19160-3:2020](#), Addressing - Part 3: Address data quality, \$162.00

GLASS IN BUILDING (TC 160)

[ISO 16932:2020](#), Glass in building - Destructive-windstorm-resistant security glazing - Test and classification, \$103.00

[ISO 16936-1:2020](#), Glass in building - Forced-entry security glazing - Part 1: Test and classification by repetitive ball drop, \$68.00

INDUSTRIAL TRUCKS (TC 110)

[ISO 3691-1/Amd1:2020](#), Industrial trucks - Safety requirements and verification - Part 1: Self-propelled industrial trucks, other than driverless trucks, variable-reach trucks and burden-carrier trucks - Amendment 1, \$19.00

INTERNAL COMBUSTION ENGINES (TC 70)

[ISO 3046-6:2020](#), Reciprocating internal combustion engines - Performance - Part 6: Overspeed protection, \$45.00

[ISO 6798-1:2020](#), Reciprocating internal combustion engines - Measurement of sound power level using sound pressure - Part 1: Engineering method, \$138.00

[ISO 6798-2:2020](#), Reciprocating internal combustion engines - Measurement of sound power level using sound pressure - Part 2: Survey method, \$138.00

NUCLEAR ENERGY (TC 85)

[ISO 20031:2020](#), Radiological protection - Monitoring and dosimetry for internal exposures due to wound contamination with radionuclides, \$162.00

[ISO/ASTM 51631:2020](#), Practice for use of calorimetric dosimetry systems for dose measurements and dosimetry system calibration in electron beams, \$68.00

PAPER, BOARD AND PULPS (TC 6)

[ISO 6588-1:2020](#), Paper, board and pulps - Determination of pH of aqueous extracts - Part 1: Cold extraction, \$68.00

PLASTICS (TC 61)

[ISO 75-1:2020](#), Plastics - Determination of temperature of deflection under load - Part 1: General test method, \$68.00

[ISO 22636:2020](#), Adhesives - Adhesives for floor coverings - Requirements for mechanical and electrical performance, \$45.00

ROAD VEHICLES (TC 22)

[ISO 17409:2020](#), Electrically propelled road vehicles - Conductive power transfer - Safety requirements, \$185.00

[ISO 14229-8:2020](#), Road vehicles - Unified diagnostic services (UDS) - Part 8: UDS on Clock eXtension Peripheral Interface (UDSonCXPI), \$185.00

[ISO 21755-2:2020](#), Motorcycles - Measurement method for evaporative emissions - Part 2: Permeation test procedure, \$68.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 3862:2020](#), Rubber hoses and hose assemblies - Rubber-covered spiral-wire-reinforced hydraulic types for oil-based or water-based fluids - Specification, \$103.00

SECURITY (TC 292)

[ISO 22392:2020](#), Security and resilience - Community resilience - Guidelines for conducting peer reviews, \$162.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 5480:2020](#), Ships and marine technology - Guardrails for cargo ships, \$103.00

SOLID BIOFUELS (TC 238)

[ISO 20024:2020](#), Solid biofuels - Safe handling and storage of solid biofuel pellets in commercial and industrial applications, \$232.00

SOLID MINERAL FUELS (TC 27)

[ISO 20904:2020](#), Hard coal - Sampling of slurries, \$162.00

SURFACE ACTIVE AGENTS (TC 91)

[ISO 685:2020](#), Analysis of soaps - Determination of total alkali content and total fatty matter content, \$45.00

SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)

[ISO 37161:2020](#), Smart community infrastructures - Guidance on smart transportation for energy saving in transportation services, \$103.00

TRANSFUSION, INFUSION AND INJECTION EQUIPMENT FOR MEDICAL USE (TC 76)

[ISO 11040-4/Amd1:2020](#), Prefilled syringes - Part 4: Glass barrels for injectables and sterilized subassembled syringes ready for filling - Amendment 1, \$19.00

VACUUM TECHNOLOGY (TC 112)

[ISO 3529-2:2020](#), Vacuum technology - Vocabulary - Part 2: Vacuum pumps and related terms, \$45.00

ISO Technical Reports

ERGONOMICS (TC 159)

[ISO/TR 9241-312:2020](#), Ergonomics of human-system interaction - Part 312: Readability of electrophoretic displays, \$185.00

MACHINE TOOLS (TC 39)

[ISO/TR 17243-3:2020](#), Machine tool spindles - Evaluation of machine tool spindle vibrations by measurements on spindle housing - Part 3: Gear-driven spindles with rolling bearings operating at speeds between 600 r/min and 12 000 r/min, \$103.00

ROAD VEHICLES (TC 22)

[ISO/TR 21959-2:2020](#), Road vehicles - Human performance and state in the context of automated driving - Part 2: Considerations in designing experiments to investigate transition processes, \$185.00

ROBOTS AND ROBOTIC DEVICES (TC 299)

[ISO/TR 23482-1:2020](#), Robotics - Application of ISO 13482 - Part 1: Safety-related test methods, \$209.00

ISO Technical Specifications

BANKING AND RELATED FINANCIAL SERVICES (TC 68)

[ISO/TS 23029:2020](#), Web-service-based application programming interface (WAPI) in financial services, \$209.00

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

[ISO/TS 23818-1:2020](#), Assessment of conformity of plastics piping systems for the rehabilitation of existing pipelines - Part 1: Polyethylene (PE) material, \$185.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 23009-5/Amd1:2020](#), Information technology - Dynamic adaptive streaming over HTTP (DASH) - Part 5: Server and network assisted DASH (SAND) - Amendment 1: Improvements on SAND messages, \$19.00

IEC Standards

OVERHEAD LINES (TC 11)

[IEC 61897 Ed. 2.0 b:2020](#), Overhead lines - Requirements and tests for Aeolian vibration dampers, \$199.00

[S+ IEC 61897 Ed. 2.0 en:2020 \(Redline version\)](#), Overhead lines - Requirements and tests for Aeolian vibration dampers, \$259.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 62351-3 Amd.2 Ed. 1.0 b:2020](#), Amendment 2 - Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP, \$47.00

[IEC 62351-3 Ed. 1.2 b:2020](#), Power systems management and associated information exchange - Data and communications security - Part 3: Communication network and system security - Profiles including TCP/IP, \$176.00

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

Proposed Tentative Interim Amendment

National Electrical Safety Code (C2-2017)

Stakeholders: Utilities

Need: The proposed Tentative Interim Amendment to C2-2017 amends the previous TIA announced in ANSI Standards Action on 6 December 2019 and approved on 5 February 2020.

The use of large-scale batteries is starting to grow as a means of electric grid support as related to renewable energy sources. These are no longer lead acid batteries that have been in use for 100+ years in which the hazards are well known. These are new battery chemistries with new hazards and first responders are unaware of the associated hazards.

This TIA would require that utilities notify first responders of the hazards associated with a grid storage battery facility. It does not require that the utility train all first responders or be responsible for record keeping and testing.

NESC (C2) (National Electric Safety Code)

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ANSI Accredited Standard Developers

Approval of Accreditation as an ANSI ASD

Dental Standards Institute, Inc.

ANSI's Executive Standards Council has approved the Dental Standards Institute, Inc., a new ANSI member in 2019, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on DSI-sponsored American National Standards, effective February 28, 2020. For additional information, please contact: Bryan Laskin, DDS, Chair of the Board, President, Treasurer and CEO, Dental Standards Institute, Inc., 109 Bushaway Road, Suite 100, Wayzata, MN 55391; phone: 763.290.0004; e-mail: bryan@operadds.com.

International Code Council

Approval of Reaccreditation

ASC A117 – Architectural Features and Site Design of Public Buildings and Residential Structures for Persons with Disabilities

The reaccreditation of the International Code Council-sponsored ASC A117, Architectural Features and Site Design of Public Buildings and Residential Structures for Persons with Disabilities, has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on ASC A117-sponsored American National Standards, effective February 26, 2020. For additional information, please contact: Mr. Karl Aittaniemi, Director of Standards, Codes and Standards Development, International Code Council, Central Regional Office, 4051 Flossmoor Road, Country Club Hills, IL 60478; phone: 888.422.7233, ext. 4205; e-mail: kaittaniemi@ICCSafe.ORG.

International Organization for Standardization (ISO)

Call for Members

New US TAG for ISO/TC 44/SC 15 on Underwater Welding

Scope of the TAG is standardization of all aspects of underwater welding including: procedure and performance qualification in wet and dry hyperbaric environments and classification of welding electrodes for underwater welding. The proposed TAG administrator is the American Welding Society (AWS).

Reply to the US TAG Secretary, Andrew Davis at adavis@aws.org.

Call for U.S. TAG Administrator

ISO/TC 17/SC 12 – Continuous mill flat rolled products

ANSI has been informed that ASTM International, the ANSI-accredited U.S. TAG Administrator for ISO/TC 17/SC 12, wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 17/SC 12 operate under the following scope:

Development and maintenance of specifications for hot-rolled and cold-reduced steel sheet and strip in coils and cut lengths and metallic coated steel sheet in coils and cut lengths. excluding:

- Tinplate and blackplate but including tin-coated sheets
- Stainless and heat resisting steels 3
- Plates.

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

ISO New Work Item Proposal

Consumer Incident Investigation Guideline

Comment Deadline: March 27, 2020

JISC, the ISO member body for Japan, has submitted to ISO a new work item proposal for the development of an ISO standard on Consumer incident investigation guideline, with the following scope statement:

An international standard (guideline) to provide a general guide for investigations of consumer incidents.

Consumer incidents are incidents where consumers suffer physical injury or death in the process of using products, services, facilities or the things related to them. Consumer incident investigation means an investigation aiming to prevent incident recurrence, and to contribute to the safety of consumers.

This document is intended to be beneficial to persons, groups, committees or organizations of all types, such as private, public, and non-profit bodies, regardless of the size of the organization which is investigating consumer incidents.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, March 27, 2020.

ISO Proposal for a New Field of ISO Technical Activity

Lithium

Comment Deadline: April 3, 2020

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

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

Excluded: Batteries

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

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, April 3, 2020.

Biodiversity

Comment Deadline: April 17, 2020

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

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

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

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

Security Equipment for Financial Institutions and Commercial Organizations

Comment Deadline: April 17, 2020

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

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

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

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

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

U.S. Technical Advisory Groups

Approval of TAG Accreditation

U.S. TAG to ISO TC 180/SC 1 – Climate – Measurement and Data

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO TC 180/SC 1, Climate – Measurement and data and the appointment of ASTM as TAG Administrator, effective March 3, 2020. The TAG will operate under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures. For additional information, please contact: Ms. Nora Nimmerichter, Manager, Technical Committee Operations, ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19248; phone: 610.832.9815; e-mail: nnimmerichter@astm.org.

Meeting Notices

American Society of Safety Professionals (ASSP)

Z10 Committee for Occupational Health and Safety Management Systems and Technical Advisory Group for the ISO TC-283 Committee

The American Society of Safety Professionals (ASSP) serves as the secretariat of the Z10 Committee for Occupational Health and Safety Management Systems and as the Technical Advisory Group Administrator to ANSI for the ISO TC-283 Committee also addressing management systems. There will be a joint TAG and Z10 Meeting during the week of April 20th in Fremont, California. If you should have interesting in attending, please contact Tim Fisher, (847) 768-3411, TFisher@ASSP.org.

Z359 Committee for Fall Arrest/Protection

The American Society of Safety Professionals (ASSP) serves as the secretariat of the ANSI Z359 Committee for Fall Arrest/Protection. The next meeting of the Z359 Committee will take place on April 28, 29, and 30, 2020 in Schaumburg, IL. Meeting space is limited and is available on a first-come, first-serve basis. Those interested in participating can contact ASSP for additional information at OMunteanu@assp.org.

Information Concerning

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator ISO/TC 295 – *Audit data services*

ANSI directly administers the U.S. TAG Administrator for ISO/TC 295 with the support of the Organization for the Advancement of Structured Information Standards (OASIS). OASIS has advised ANSI to relinquish its role as U.S. TAG Administrator for this committee.

ISO/TC 295 operates under the following scope:

Standardization in the field of audit data services covers the content specification as well as the collection, pre-processing, management and analysis techniques for the identification, communication, receipt, preparation and use of audit data.

Note:

- 1. *Audit: an official examination of an entity's financial and financial related records in order to check that they are correct. (Source: Longman Dictionary of Contemporary English 4th Edition, modified company has been replaced by entity to cover government auditees and financial related records has been added.)*
- 2. *The audit data includes data of different areas including public sector budget, financial report, nonfinancial enterprises, tax and social insurance, for the purpose of government audit, external independent audit, internal audit and other regulators.*

Excluded:

- 1. *Information system security audit covered by ISO/IEC/JTC 1.*
- 2. *Security evaluation criteria and methodology, techniques and guidelines to address both security and privacy aspects covered by ISO/IEC/JTC 1/SC 27.*
- 3. *Meta-data standards, E-business standards, database language standards covered by ISO/IEC/JTC 1/SC 32.*

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

Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 17/SC 12 – Continuous mill flat rolled products

Comment Deadline: March 19, 2020

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 17/SC 12 – *Continuous mill flat rolled products*. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 17/SC 12 to ASTM International. ASTM International has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 17/SC 12 operates under the following scope:

Development and maintenance of specifications for hot-rolled and cold-reduced steel sheet and strip in coils and cut lengths and metallic coated steel sheet in coils and cut lengths. excluding:

- *Tinplate and blackplate but including tin-coated sheets*
- *Stainless and heat resisting steels 3*
- *Plates.*

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 17/SC 12. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

1. The affected interests have made a financial commitment for not less than three years covering all defined costs incurred by ANSI associated with holding the Secretariat;
2. the affected technical sector, organizations or companies desiring that the U.S. hold the Secretariat request that ANSI perform this function;
3. the relevant U.S. TAG has been consulted with regard to ANSI's potential role as Secretariat; and
4. ANSI is able to fulfill the requirements of a Secretariat.

If no U.S. organization steps forward to assume the ISO/TC 17/SC 12 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by March 19, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

Information concerning the United States retaining the role of international Secretariat may be obtained by contacting ANSI's ISO Team (isot@ansi.org).



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

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

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

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

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

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



**BSR/ASHRAE Addendum c
to ANSI/ASHRAE Standard 15-2019**

Public Review Draft

**Proposed Addendum c to
Standard 15-2019, Safety Standard
for Refrigeration Systems**

**First Public Review (March 2020)
(Draft shows Proposed Changes to Current Standard)**

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

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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

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

FOREWORD

This addendum proposes changes to allow the use of equipment using small amounts of non-A1 refrigerants, only if they are listed to appropriate product safety standards. The proposal is consistent with research findings, and the published requirements of product safety standards such as UL 484 and UL 60335-2-40.

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

Addendum c to Standard 15-2019

Modify Section 7 as follows. The remainder of Section 7 remains unchanged.

7. RESTRICTIONS ON REFRIGERANT USE

[...]

7.5 Additional Restrictions

[...]

7.5.1.2 *Corridors and Lobbies.* ~~Refrigerating~~ Refrigeration systems installed in a public corridor or lobby shall comply with the following:

1. Refrigeration systems shall be limited to unit systems.
2. The refrigerant charge shall be limited based on the RCL, as specified in Section 7.2. Section 7.2, Exception 1 for 6.6 lb (3 kg) of refrigerant in listed equipment shall not apply to refrigeration systems in a public corridor or lobby.
3. Refrigeration systems containing Class 2L, 2, or 3 refrigerants shall be listed, and the refrigerant charge shall be limited for each unit system, calculated in accordance with the following equation:

$$m_{\max} = 0.106 \times LFL \quad (\text{I-P})$$

$$m_{\max} = 3 \times LFL \quad (\text{SI})$$

where

m_{\max} \equiv maximum charge quantity, lb (kg)

LFL \equiv lower flammability limit per ASHRAE Standard 34, pounds per 1000 ft³ (kg per m³)

0.106 \equiv a constant with units of "1000 ft³"

3 \equiv a constant with units of "m³"

~~containing not more than the quantities of Group A1 or B1 refrigerant indicated in ASHRAE Standard 34², Table 4-1 or 4-2.~~

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NSF/ANSI Standard
for Dispensing Freezers –

Manual food and beverage dispensing equipment

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6 Performance

6.1 Cleaning and sanitization procedures

6.1.1 Performance requirement

The cleaning and sanitization procedures recommended by the manufacturer shall effectively clean and sanitize the food contact surfaces of the dispensing freezer.

NOTE – This requirement applies to manual cleaning and sanitization procedures used in conjunction with mechanical sanitization and to IPC procedures recommended by the manufacturer.

6.1.2 Test method

Microbiological methods for stock culture preparation, and enumeration / analysis *Escherichia coli* (American Type Culture Collection¹ #11229), shall be performed as specified in Normative Annex 1.

6.1.2.1 The equipment shall be filled with *the E. coli* and product mix suspension.

If a remote product supply system is being tested, the product supply lines shall be configured to the manufacturer's recommended installation restrictions (see Section 7.3) indicated in the manual prior to testing.

6.1.2.2 The equipment shall be operated so that food contact surfaces are exposed to the *E. coli* and product mix suspension. If a remote product supply system is being tested, the remote line set shall be filled with *E. coli* and product mix suspension so all food contact surfaces are exposed (i.e., no air in remote line set). The equipment shall then be cleaned in-place according to the manufacturer's instructions and refilled with sterile buffered dilution water (SBDW). The SBDW shall be dispensed and five 100 mL samples shall be collected at intervals from the start of the dispensing until the unit is empty. When adequate sample volumes cannot be realized, more SBDW shall be added accordingly. The equipment shall then be operated so that food contact surfaces intended for IPC are exposed to the SBDW. Sufficient SBDW shall then be dispensed. The challenge organisms present in each sample shall be collected and enumerated using the Standard Total Coliform Membrane Filter Procedure in accordance with APHA's *Standard Methods for the Examination of Water and Wastewater*.

¹ATCC. PO Box 1549, Manassas, VA 20108 <www.atcc.com>.

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6.1.3 Acceptance criteria

For each sample, the total counts on the initial inoculum density (N_i) of at least 1,000,000 (1×10^6) and the total counts on the CFUs recovered (N_f) shall demonstrate a reduction equal to or greater than 99.9999% (6 log). The log reduction, R , is calculated from the equation:

$$R = \log_{10} (N_i/N_f)$$

where

N_i = Initial inoculum density (CFU/mL)
 N_f = The number of CFU recovered in each sample (CFU/mL)

If $N_f \leq 0$ If $N_f < 1$, the samples shall be considered acceptable.

Rationale: It is impossible for there to exist less than zero Colony Forming Units, as zero is a finite number in this case. This typo occurred sometime in the past and the correct statement, and that which is proposed here for revision, is located in the other dispensing related standard, NSF/ANSI 18.

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Revisions for 40i35r2, 245i17r2, and 350i48r2

Revision to NSF/ANSI 40-2019
Issue 35 Revision 2 (February 2020)

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NSF/ANSI Standard
For Wastewater Technology –

Residential Wastewater –
Treatment Systems

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3 Definitions

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3.XX security fastener: A specifically designed fastener that requires a tool other than a slotted or Philips driver for installation or removal.

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3 Definitions

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5.7 Access ports

5.7.1 The system shall be demonstrated to have ground-level access ports that are sized and located to facilitate the installation, removal, sampling, examination, maintenance, and servicing of components and compartments that require routine maintenance and inspection.

The ground-level access ports shall be of sufficient size and located so as to allow for the following:

- visual inspection and removal of all mechanical or electrical components;
- periodic cleaning or replacement of components and removal of residuals as required by the manufacturer in the operations and maintenance manual;

NOTE — Periodic refers to all procedures specified in the manufacturer’s operation and maintenance manual that must be performed within intervals of two years.

- visual inspection and sampling as required by the manufacturer in the operations and maintenance manual, including a means for collecting a representative effluent sample and determining the need for residuals removal; and
- removal (manually or by pumping) of collected residuals as required by the manufacturer in the operations and maintenance manual. If the operations and maintenance manual describes a means to

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Revision to NSF/ANSI 40-2019
Issue 35 Revision 2 (February 2020)

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determine the need to remove residuals from a chamber without ground-level access, then only the ability to install ground-level access shall be required. Systems without ground-level access to a chamber shall be equipped with a means to locate the opening to the chambers. This information shall be provided on or in a ground-level access opening.

5.7.2 Access ports shall be protected against unauthorized intrusions. Acceptable protective measures include, but are not limited to:

- a padlock;
- a cover that can be removed only with specialized tools installed using security fasteners; or
- a cover having a minimum net weight of 29.5 kg (65 lb).

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Rationale: incorporate language clarifying the term “specialized tools”.

NSF/ANSI Standard for Residential Wastewater Treatment Systems –

Residential Wastewater Treatment Systems – Nitrogen Reduction

3 Definitions

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3.XX security fastener: A specifically designed fastener that requires a tool other than a slotted or Philips driver for installation or removal.

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5 Design and construction

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5.7 Access ports

1.1.1 5.7.1 The system shall be demonstrated to have ground-level access ports that are sized and located to facilitate the installation, removal, sampling, examination, maintenance, and servicing of components and compartments that require routine maintenance and inspection.

The ground-level access ports shall be of sufficient size and located so as to allow for the following:

- visual inspection and removal of all mechanical or electrical components;
- periodic cleaning or replacement of components and removal of residuals as required by the manufacturer in the operations and maintenance manual;

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Revision to NSF/ANSI 40-2019
Issue 35 Revision 2 (February 2020)

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NOTE — “Periodic” refers to all procedures specified in the manufacturer’s operation and maintenance manual that must be performed within intervals of 2 y.

— visual inspection and sampling as required by the manufacturer in the operations and maintenance manual, including a means for collecting a representative effluent sample, determining the need for residuals removal and determining the need for replenishing treatment chemicals (if required); and

— removal (manually or by pumping) of collected residuals as required by the manufacturer in the operations and maintenance manual. If the operation and maintenance manual describes a means to determine the need to remove residuals from a chamber without ground-level access, then only the ability to install ground-level access shall be required. Systems without ground-level access to a chamber shall be equipped with a means to locate the opening to the chambers. This information shall be provided on or in a ground-level access opening.

5.7.2 Access ports shall be protected against unauthorized intrusions. Acceptable protective measures include, but are not limited to:

- a padlock;
- a cover that can be removed only with specialized tools installed using security fasteners; or
- a cover having a minimum net weight of 29.5 kg (65 lb).

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Rationale: incorporate language clarifying the term “specialized tools”.

NSF/ANSI Standard
For Wastewater Technology –

Onsite Residential and Commercial Water Reuse Treatment Systems

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3 Definitions

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3.XX security fastener: A specifically designed fastener that requires a tool other than a slotted or Philips driver for installation or removal.

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5 Design and construction

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5.7 Access ports

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Revision to NSF/ANSI 40-2019
 Issue 35 Revision 2 (February 2020)

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5.7.1 The system shall be demonstrated to have access ports that are sized and located to facilitate the installation, removal, sampling, examination, maintenance, and servicing of components and compartments that require routine maintenance and inspection. Systems installed below grade shall include ground level access ports.

The access ports shall be of sufficient size and located so as to allow for the following:

- visual inspection and removal of all mechanical or electrical components;
- periodic cleaning or replacement of components and removal of residuals as required by the manufacturer in the operation and maintenance manual;

NOTE — Periodic refers to all procedures specified in the manufacturer's operation and maintenance manual that must be performed within intervals of two years.

- visual inspection and sampling as required by the manufacturer in the operation and maintenance manual, including a means for collecting a representative effluent sample and determining the need for residuals removal;
- removal (manually or by pumping) of collected residuals as required by the manufacturer in the operation and maintenance manual; and
- removal of stored treated or untreated reuse water.

5.7.2 Access ports shall be protected against unauthorized intrusions by methods compatible with the size of the access port. Acceptable protective measures for access ports that allow personal entry include, but are not limited to:

- a padlock;
- a cover that can be removed only with specialized tools installed using security fasteners; or
- a cover having a minimum net weight of 29.5 kg (65 lb).

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Rationale: incorporate language clarifying the term "specialized tools".

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NSF/ANSI Standard
for Dietary Supplements –

Dietary Supplements

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4 Labeling and literature requirements

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4.3 Extended release

If the supplement is manufactured using an extended release technology not intended to follow the USP criteria, then intended release characteristics must be disclosed on the product label.

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5 Product requirements

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5.4.3 ~~Timed or slow~~ Extended release

Extended release ~~S~~supplements such as those which claim “timed release” or “slow release” shall be tested for disintegration using the equipment described in the currently promulgated version of the USP. If the product is intended to conform to the USP then it must be tested as per the USP. If the product is not intended to conform to the USP, then the testing method shall employ simulated gastric fluid for one hour, followed by simulated intestinal fluid for up to an additional 11 hr ~~Testing shall be performed using 0.1 M hydrochloric acid as the immersion fluid for a time period no greater than 8 h~~ or for the time period indicated on the product label. The dosages shall not disintegrate within the first hour of immersion and the disintegration shall conform to any statements made in labeling regarding the product’s release characteristics; if the labeling claims no specific release timeframe, then the dosages shall disintegrate by the end of the test. In addition, the firm seeking certification shall submit to the certifying body appropriate, scientifically valid performance data and a scientifically valid narrative justification to explain why and how

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the product is formulated for extended release and to verify that the product performs reproducibly from batch to batch; the certifying body shall have the sole discretion to determine whether the data and justification are adequate, except that any data and/or justification published in a peer-reviewed study shall be deemed adequate.

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NSF/ANSI Standard
 for Joint Committee on GMP for Dietary Supplements –

Good Manufacturing Practices for Dietary Supplements

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5 Audit Process

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Table 5.2 – Summary of grading model

Grade	Critical	Major	Minor
A	0	0	≤7
B	0	1	≤7
B	0	0	8 to 15
C	0	2	≤7
C	0	1	≤15 8 to 15
C	0	0	16 to 22 23
D	0	0	≥27 ≥24
D	0	1	≥18 ≥16
D	0	2	≥8
D	0	≥3	- Any
D	≥1	- Any	- Any

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NSF/ANSI Standard
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4 Audit requirements

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4.6 Performance evaluation

4.6.1 Procedures shall be established for the collection of representative samples, including collection controls and the number of units to assure compliance with specification. [21 CFR § 111.80,-§ 111.415(g)]

~~4.6.2 Samples shall be collected in a controlled area so as to not cause contamination.~~

4.6.3 Packaging and labeling materials shall be examined before usage to determine that they conform to the master manufacturing record. [21 CFR § 111.410(c)]

~~4.6.4 Procedures shall be established to sample a representative number of units to assure compliance with specifications. [21 CFR § 111.415(g)]~~

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4.5 Performance evaluation

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~~4.5.47 Manufacturing operations shall include controls in manufacturing steps to prevent contamination, including metal detection.~~ Manufacturing operations shall include controls to prevent contamination from foreign matter some examples of this include, but are not limited to magnets, sieves, metal detectors, x-ray or other devices as appropriate. [21 CFR § 111.365(h), (i)]

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4.6 Performance evaluation

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4.6.26 Procedures shall be established to define traceability and mock recall exercises at a minimum of once a year to include trace forward and trace backward of finished products. All traceability exercises performed shall meet acceptable criteria of 99.5% to 101.5% recovery and shall be conducted within four (4) hours. Any additional mock recall exercises shall be completed within 24 hours.

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Good Manufacturing Practices for Dietary Supplements

NSF/ANSI Standard
for GMP for Cosmetics –

Good Manufacturing Practices for Cosmetics

NSF/ANSI Standard
for GMP for Over the Counter Drugs –

Good Manufacturing Practices for Over-the-Counter Drugs

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5.7.3 CB determines next steps

CB determines next steps based on the grade as described below:

- a site with a grade of A and zero nonconformances is eligible for certification;
- a site with a grade of A with only minor nonconformances shall submit a corrective action plan for all nonconformances. Once the plan is approved by the CB, the site is eligible for certification. The site shall correct the minor nonconformances prior to the next certification audit. The effectiveness of the corrective actions is reviewed at the next certification audit. ~~If at the next certification audit, the company has not closed their minor nonconformance(s) the company has three months to submit objective evidence that said nonconformance(s) are closed or those minor(s) shall be elevated to major nonconformance(s). The CB shall require a monitoring audit to verify that the nonconformance(s) have been closed;~~
- a site with a grade of B shall submit a corrective action plan for all nonconformances. Corrective action against major nonconformances shall be closed with objective evidence to demonstrate the corrective action is in place and effective, before consideration for certification. A site with only minor nonconformances shall be considered for certification upon acceptance of the corrective action plan by the CB. ~~The site shall close the minor conformances prior to the next certification audit. The~~

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~~effectiveness of the corrective actions against minor nonconformances shall be reviewed at the next certification audit. If at the next certification audit, the company has not closed their minor nonconformance(s) the company has three months to submit objective evidence that said nonconformances are closed or those minor(s) elevate to major nonconformance(s). The CB shall require a monitoring audit to verify that the nonconformance(s) have been closed; and~~

— a site with a grade of C shall submit a corrective action plan for all nonconformances. A monitoring audit is required for grade of C. For a company who ~~receives~~ receives a grade of C in their initial certification audit, corrective action against major nonconformances shall be closed at the monitoring audit with objective evidence to demonstrate the corrective action is in place and effective, before consideration for certification. A company who has already received certification from a previous certification audit who receives a grade of C, does not lose their certification but shall have a monitoring audit prior to their next certification audit to verify that they have closed their major nonconformances. In both cases, the site is to close the minor conformances prior to the next certification audit. The effectiveness of the corrective actions against minor nonconformances is reviewed at the monitoring audit or the next certification audit. ~~If at the next certification, the company has not closed their minor nonconformance(s) the company has three months to submit objective evidence that said nonconformances are closed or those minor(s) shall be elevated to major nonconformance(s). The CB shall require an additional monitoring audit to verify that the nonconformance(s) have been closed.~~

The CB shall determine and communicate any additional fees associated with a monitoring audit and related activities.

— a site with a grade of D is not eligible for certification. A new certification audit is required but before that can take place, the site shall submit a corrective action plan and show completion of the corrective actions.

Repeat nonconformances identified from the previous audit will be reviewed, evaluated, reported, and may be escalated based on the risk and severity. Technical reviewer shall review client's submitted objective evidence to ensure the classification recommended will remain as initially issued during the audit or elevate the nonconformance. The CB shall require a monitoring audit for a grade of a C and may require a monitoring audit for a grade of an A or B.

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Rationale: This revision will correct contradictions with other sections of the standard.

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NSF/ANSI Standard
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Good Manufacturing Practices for Over-the-Counter Drugs

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4 Audit requirements

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4.2 Leadership and commitment

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4.3 ~~Organization roles, responsibilities, and authorities~~

~~4.3.1~~ **4.2.6** A quality unit is defined – including quality assurance (QA) and quality control (QC) – that is independent of production. [21 CFR § 211.22]

~~4.3.2~~ **4.2.7** Quality unit personnel have established roles and responsibilities covering requirements defined in 21 CFR Part 211, and procedures have been established to carry out these responsibilities. [21 CFR § 211.22 & 21 CFR § 211.184]

~~4.3.3~~ **4.2.8** QA operations and authority have been established for manufacturing records. [21 CFR § 211.22 & 21 CFR § 211.184]

~~4.3.4~~ **4.2.9** QA operations determine if all specifications have been met (raw material, components, in-process, final product specifications) and assign batch disposition (approve / release or reject) on each finished batch for distribution. [21 CFR § 211.22 & 21 CFR § 211.192]

~~4.3.5~~ **4.2.10** Procedures exist for notifying responsible management in a timely manner of regulatory inspections, serious GMP deficiencies, product defects, and related actions. [21 CFR § 211.180 & ICH Q10]

~~4.3.6~~ **4.2.11** Procedures have been established that define work requirements for personnel to ensure hygienic practices have been implemented to prevent microbial contamination. [21 CFR § 211.28]

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~~4.3.7~~ **4.2.12** Procedures have been established to include appropriate protective garments, personal hygiene, hand washing and sanitization, etc., prior to starting work and at any time where personnel can become soiled / contaminated. [21 CFR § 211.28]

~~4.3.8~~ **4.2.13** Personnel shall be qualified and have adequate training, experience and / or education necessary to perform job functions. [21 CFR § 211.25]

~~4.3.9~~ **4.2.14** Personnel who are designated as supervisors have the education, training and experience or any combination thereof to perform assigned functions. [21 CFR § 211.25]

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4 Audit requirements

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4.2 Leadership and commitment

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~~4.2.2 Management conducts reviews of process performance and product quality. [ICH Q10]~~
Management reviews shall include; but not limited to quality system, process performance and product quality; which are to be conducted periodically. [ICH 10]

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4.8 Improvement

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~~4.8.2 Periodic management reviews of the quality system, process performance and product quality are conducted, with documented completion of any identified follow-up actions.~~ Management shall document identified management review follow-up action items for quality systems, process, performance and product quality. [ICH Q10]

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4 Audit requirements

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4.5 Support

4.5.1 Resources

~~4.5.1.1~~ **4.5.1** Adequate resources (human, financial, materials, facilities, and equipment) are provided to implement, maintain, and improve the quality system. [ICH Q10]

~~4.5.1.2~~ **4.5.2** There shall be written procedures assigning responsibilities for cleaning and sanitization of buildings and facilities. [21 CFR § 211.25 & 21 CFR § 211.56]

~~4.5.1.3~~ **4.5.3** Consultants used to advise on the manufacture, processing, testing and holding of drug substance and drug product shall have the qualifications for the type of service they provide. [21 CFR § 211.34]

4.5.2 Infrastructure

~~4.5.2.1~~ **4.5.4** Building and grounds have been properly maintained through removal of litter and waste, cutting of grass and weeds adjacent to the plant, maintenance of roads and parking lots, providing adequate drainage, etc. [21 CFR § 211.42, 21 CFR § 211.56, & 21 CFR § 211.58]

~~4.5.2.2~~ **4.5.5** Waste disposal is adequate and does not provide a source of potential contamination. [21 CFR § 211.50]

~~4.5.2.3~~ **4.5.6** Production facility is maintained in a clean and sanitary condition and in a proper state of repair. [21 CFR § 211.58]

~~4.5.2.4~~ **4.5.7** Entrances to the facilities are properly controlled and maintained to prevent contamination. [21 CFR § 211.42]

~~4.5.2.5~~ **4.5.8** Cleaning and sanitizing compounds have been established for cleaning the facility. These agents are safe and adequate under the conditions of use. [21 CFR § 211.56]

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~~4.5.2.6~~ **4.5.9** Cleaning and sanitizing agents, pesticide chemicals, and fungicides have been identified, used, held and stored in a manner that protects against adulteration of raw materials and in-process or finished products, and protects against contamination of processing equipment, utensils, and packaging materials. [21 CFR § 211.56]

~~4.5.2.7~~ **4.5.10** Physical barriers have been installed to prevent pest, rodent, bird and insect intrusion, including screens and rodent barriers, rodent traps, insect traps or lights, etc. [21 CFR § 211.56]

~~4.5.2.8~~ **4.5.11** Pest control procedures have been established for the appropriate use of any insecticides, fungicides, fumigants, rodenticides, etc. [21 CFR § 211.56]

~~4.5.2.9~~ **4.5.12** The water supply is safe and sanitary and under suitable temperature and pressure. At a minimum, water used in processing areas shall meet WHO Guidelines for Drinking Water. Water used as a component of a non-parenteral drug product shall meet USP purified water Standards, and the water purification system shall be validated. [21 CFR § 211.48]

~~4.5.2.10~~ **4.5.13** Water sources do not act as a potential source of contamination of the drug products, either due to water purity or due to the configuration and construction of the water delivery system. [21 CFR § 211.42 & 21 CFR § 211.48]

~~4.5.2.11~~ **4.5.14** Plumbing is of adequate size and design for intended usage. [21 CFR § 211.42 & 21 CFR § 211.48]

~~4.5.2.12~~ **4.5.15** Sewage and waste disposal piping is properly designed and installed to prevent contamination. [21 CFR § 211.50]

~~4.5.2.13~~ **4.5.16** Floor drainage allows immediate and continuous drainage, no pooling, proper drain covers. [21 CFR § 211.48]

~~4.5.2.14~~ **4.5.17** Air breaks, backflow and cross-connection prevention is in place. [21 CFR § 211.48]

~~4.5.2.15~~ **4.5.18** Bathrooms are provided and are of adequate number and location. [21 CFR § 211.52]

~~4.5.2.16~~ **4.5.19** Bathrooms and wash facilities are kept clean and are not a potential source of contamination to components, products, contact surfaces, etc. [21 CFR § 211.52]

~~4.5.2.17~~ **4.5.20** Solid waste and trash are disposed of appropriately and not allowed to accumulate. [21 CFR § 211.50]

~~4.5.2.18~~ **4.5.21** Solid waste and trash does not provide a potential source of contamination to components, products, contact surfaces, etc. [21 CFR § 211.50]

~~4.5.2.19~~ **4.5.22** Hazardous waste is properly controlled to prevent contamination of components, products, contact surfaces, etc. [21 CFR § 211.50]

~~4.5.2.20~~ **4.5.23** Procedures have been established for cleaning of the facility. [21 CFR § 211.56]

~~4.5.2.21~~ **4.5.24** All facilities are of adequate size, construction, and design for their intended use.

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[21 CFR § 211.42]

~~4.5.2.22~~ **4.5.25** There is adequate space for performing all operations and to prevent mix-ups, contamination, and cross-contamination during manufacturing, packaging, labeling, or holding. [21 CFR § 211.42]

~~4.5.2.23~~ **4.5.26** Areas have been clearly defined or separated for receiving, inspecting and identifying, holding and withholding from use components, drug products, packaging, and labels designated for production and packaging use. [21 CFR § 211.42]

~~4.5.2.24~~ **4.5.27** Areas have been provided for quarantine and release of materials to be used in the manufacture, packaging, or labeling of drug products. [21 CFR § 211.42]

~~4.5.2.25~~ **4.5.28** Areas have been provided to separate the manufacturing, packaging, labeling, and holding of different product types (i.e., foods, cosmetics, dietary supplements) from drug products. [21 CFR § 211.42]

~~4.5.2.26~~ **4.5.29** Separate or defined areas exist for laboratory analysis and holding of laboratory supplies, reference samples, in process, product and stability samples associated with the manufacture, packaging and labeling, of drug products. [21 CFR § 211.42]

~~4.5.2.27~~ **4.5.30** Walls, floors, ceilings can be adequately cleaned and kept in good repair. [21 CFR § 211.42]

~~4.5.2.28~~ **4.5.31** Fixtures, ducts, piping, etc. are kept clean, do not drip or leak or provide a source of condensation that could contaminate components, products, or contact surfaces. [21 CFR § 211.42]

~~4.5.2.29~~ **4.5.32** Adequate ventilation and airflow is provided in all areas of the facility. [21 CFR § 211.42]

~~4.5.2.30~~ **4.5.33** Provisions are in place for power backup or uninterruptable power supply (UPS) for critical equipment, or written procedures, or both, for recovery from power failure.

4.5.3 Environmental control

~~4.5.3.1~~ **4.5.34** Temperature and humidity control equipment (HVAC) is of adequate design for its intended function and is functioning properly. [21 CFR § 211.42]

~~4.5.3.2~~ **4.5.35** Adequate lighting is provided in all production and laboratory areas, inspection and sampling rooms, and in those areas where equipment is cleaned and examined. [21 CFR § 211.44]

~~4.5.3.3~~ **4.5.36** Lighting that is suspended or located above areas where materials or equipment are exposed is of adequate construction or lighting type to prevent contamination with the use of safe-lights, fixtures, etc. [21 CFR § 211.42 & 21 CFR § 211.44]

~~4.5.3.4~~ **4.5.37** Closed processing is preferred. In areas where tanks are required to be open for charging or mixing, there is adequate protection against contamination, i.e., vertical or horizontal HEPA airflow across the vessel opening or use of protective coverings. [21 CFR § 211.42]

4.5.4 Documentation

~~4.5.4.1~~ **4.5.38** All documents related to drug manufacture are prepared, reviewed, approved, and distributed according to written procedures. [21 CFR § 211.180 & 21 CFR § 211.22]

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4.5.4.2 4.5.39 Drug product production and control records shall be reviewed and approved by the quality unit before a batch is released and distributed. [21 CFR § 211.180]

4.5.4.3 4.5.40 The issuance, revision, superseding, and withdrawal of all documents is controlled, and records of these activities are maintained in revision histories or equivalent. [21 CFR § 211.180 & 21 CFR § 211.22]

4.5.4.4 4.5.41 Procedures exist describing GMP recordkeeping practices, i.e., permanent ink, identification of "who" and "when" for all entries, and procedures for correcting entries by signing, dating, explaining, and not obscuring the original entry. [21 CFR § 211.180]

4.5.4.5 4.5.42 Procedures have been established that describe the requirements for record retention. [21 CFR § 211.180]

4.5.4.6 4.5.43 Batch records shall be maintained for one year after the expiration date or three years beyond the date of distribution of the last batch associated with those records. [21 CFR § 211.180]

4.5.4.7 4.5.44 All records are maintained as original record, as verified true copies or as electronic records. [21 CFR § 211.180]

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4.7 Performance evaluation

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4.7.15 Procedures have been established to define ~~the recall of a product~~ define traceability and mock recall exercises at a minimum of once a year to include trace forward and trace backward of finished products. All traceability exercises performed shall meet acceptable criteria of 99.5% to 101.5% recovery and shall be conducted within four (4) hours. Any additional mock recall exercises shall be completed within 24 hours. [21 CFR Part 7 Subpart C]

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NSF/ANSI Standard
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5 Audit process

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5.2 Audit and certification process outline

a) Educate / inform

- audit preparation shall include, but not be limited to:

- a review and understanding of 21 CFR Part 210 *Current Good Manufacturing Practice in Manufacturing, Processing, Packing, or Holding of Drugs; General*, 21 CFR Part 211 *Current - Good Manufacturing Practice for Finished Pharmaceuticals*, and applicable FDA Guidance for Industry, and ICH, *Harmonised Tripartite Guideline, Q10: Pharmaceutical Quality System, and the ARG.*

- audit types (certification audit, monitoring audit);
- self-assessment of compliance with the Standard;
- selection of a CB; and
- determine the scope of the audit.

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BSR/UL 2808, Standard for Safety for Energy Monitoring Equipment

1. The proposed first edition of Standard for Safety for Energy Monitoring Equipment, ANSI/CAN/UL 2808, covers submetering equipment and open and enclosed type current sensors intended for factory or field installation within distribution and control equipment such as panelboards, switchboards, industrial control equipment, and energy monitoring/management equipment. Installation is in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code (CE Code), CSA C22.1. These requirements also cover "Service Entrance" enclosed-type current sensors intended for indoor and outdoor use.

PROPOSAL

1.1 These requirements cover submetering equipment and open and enclosed type current sensors intended for factory or field installation within the wiring space of enclosures for switches or overcurrent devices. ~~distribution and control equipment such as panelboards, switchboards, industrial control equipment, and energy monitoring/management equipment.~~ Installation is in accordance with the National Electrical Code, ANSI/NFPA 70 and the Canadian Electrical Code (CE Code), CSA C22.1. These requirements also cover "Service Entrance" enclosed-type current sensors intended for indoor and outdoor use.

20.2 Three representative specimens of each current sensor series rated for cold ambient use shall be cooled to the manufacturer's defined low ambient rating, $\pm 2.0^{\circ}\text{C}$ (35.6 $\pm 3.6^{\circ}\text{F}$). Enclosed-type current sensors shall be cooled to the above, or minus $35.0 \pm 2.0^{\circ}\text{C}$ (95.0 ± 35.6 $\pm 3.6^{\circ}\text{F}$), whichever is colder. Sensors shall be maintained at this temperature for at least 3 hours.

22.1 Current Sensors and Submetering Equipment Installation Instructions

22.1.1 Installation instructions must be provided, and shall include the following:

h) Instructions for the installation and removal of the current sensor shall include the following statements:

2) The current sensors may not be field installed in the wiring space of enclosures for switches or overcurrent devices if the area of all current sensors, conductors, splices, taps and equipment at any cross section of the wiring space does not exceed 75 percent of the cross-sectional area of that space ~~equipment where they exceed 75 percent of the wiring space of any cross-sectional area within the equipment;~~

BSR/UL 109, Standard for Safety for Tube Fittings for Flammable and Combustible Fluids, Refrigeration Service, and Marine Use

1. Revisions to the Moist Ammonia Air Stress Cracking Test

PROPOSAL

DESIGN AND CONSTRUCTION

5 Materials

5.4 With reference to 5.2 and 5.3, the fitting shall be capable of withstanding, without cracking, the ~~10-Day~~ Moist Ammonia Air Stress Cracking Test, Section 11, for copper and copper alloys.

PERFORMANCE

11 ~~10-Day~~ Moist Ammonia Air Stress Cracking Test

11.1 After being subjected to the conditions described in 11.2 - 11.4, a pressure confining brass part containing more than 15 percent zinc shall show no evidence of cracking ~~when examined using 25X magnification, delamination, or degradation.~~

11.2 ~~Each One~~ sample of each size is to be subjected to the physical stresses normally imposed on or within a part as the result of assembly with other components. ~~Such stresses are to be applied to the sample prior to and maintained during the test.~~ Samples with female threads, intended to be used for installing the product in the field, are to have the threads engaged and tightened to the torque specified in Table 7.2. Samples with female threads other than tapered pipe threads shall be torqued as specified by the manufacturer. Samples with male threads are evaluated in "as-received" condition. Teflon tape or pipe compound is not to be used on the threads.

11.3 ~~The Three~~ samples ~~are to be degreased and then continuously exposed in a set position for ten days to a moist ammonia-air mixture maintained in a glass chamber of 12 by 12 by 12 inches (305 by 305 by 305 mm) having a glass cover then to be tested in accordance with Apparatus, Section 6, Reagents and Materials, Section 7, Test Media, Section 8, Test Sample Preparation (9.3 - 9.4), Test Procedure (10.1 - 10.4) of the Standard Test Method for Ammonia Vapor Test for Determining Susceptibility to Stress Corrosion Cracking in Copper Alloys, ASTM B858-06, except the pH level of the test solution shall be High 10.5 ±0.1 and the exposure temperature shall be 25 ±1°C.~~

11.4 ~~After the exposure period, the samples are to be examined for cracks or other signs of stress corrosion using a microscope having a magnification of 25X. Six hundred milliliters of aqueous ammonia having a specific gravity of 0.94 is to be maintained at the bottom of the glass chamber below the samples. The samples are to be positioned 1-1/2 inches (38.1 mm) above the aqueous ammonia solution and supported by an inert tray. The moist ammonia-air mixture in the chamber is to be maintained at atmospheric pressure and at a temperature of 34 ±2°C (93 ±3.5°F).~~

BSR/UL 385-202x, Standard for Play Pipes for Water Supply Testing in Fire Protection Service

1. Suspected typographical error

9 Nozzle Adapters

9.1 The brass mounting to which the nozzle is threaded shall be provided with an outside recess for retaining a rubber washer. It and the nozzle shall be threaded with $2\frac{3}{16}$ inch - 12 threads having dimensions conforming with those designated in Table 9.1.

Table 9.1

Dimensions of ~~2-1/16~~ 2-3/16 inch - 12 series threads

Location	Major diameter		Pitch diameter		Minor diameter	
	Minimum inches (mm)	Maximum inches (mm)	Minimum inches (mm)	Maximum inches (mm)	Minimum inches (mm)	Maximum inches (mm)
External	2.166	2.186	2.110	2.120	-	2.054
	(55.02)	(55.52)	(53.59)	(53.85)	-	(52.17)
Internal	2.203	-	2.137	2.147	2.071	2.091
	(55.96)	-	(54.28)	(54.53)	(52.60)	(53.11)

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BSR/UL 1598B, Standard for Safety for Supplemental Requirements for Luminaire Reflector Kits for Installation on Previously Installed Fluorescent Luminaires

1. Additional Requirements For Reflector Kits For Marine Luminaires

1.4 Additional requirements for reflector kits intended for marine luminaires (marine-type fixtures) are in Supplement SA.

SUPPLEMENT SA - ADDITIONAL REQUIREMENTS FOR REFLECTOR KITS FOR MARINE LUMINAIRES

SA1 Scope

SA1.1 These requirements apply to reflector kits intended for luminaires covered by the scope of the Standard for Supplemental Requirements for Luminaires for Installation on Marine Vessels, UL 1598A

SA1.2 Applications excluded from the scope of the Standard for Supplemental Requirements for Luminaires for Installation on Marine Vessels, UL 1598A, are also excluded from the scope of this supplement.

SA1.3 All requirements in the main body of this standard also apply to these reflector kits unless specifically superseded by a requirement in this supplement.

SA2 Glossary

SA2.1 INSIDE DRIPPROOF-TYPE LUMINAIRE - A luminaire intended for use on a marine vessel in an inside damp or wet location and subject to oil or water drippage.

SA2.2 INSIDE-TYPE LUMINAIRE - A luminaire intended for use on a marine vessel in an inside dry or damp location.

SA2.3 OUTSIDE-TYPE LUMINAIRES - A luminaire intended for use outside or in other severely wet locations on a marine vessel.

SA3 General Requirements

SA3.1 A reflector kit shall be constructed such that, after installation, the converted marine luminaire continues to comply with all construction, temperature and environmental requirements in UL 1598A applicable to the marine luminaire type for which it is marked and intended (See Table SA4.1), including:

a) Corrosion protection;

- b) Openings;
- c) Joints and gaskets;
- d) Mounting means;
- e) Glass and lamp support;
- f) General electrical construction;
- g) Convenience receptacles, switches and fuses;
- h) Lampholders;
- i) Wiring and conductors; and
- j) Power supply connections.

SA3.2 If a reflector kit requires modifying the luminaire in a way that could affect its corrosion protection or water resistance (i.e.: adding openings, modifying gaskets, new ferrous parts, etc.) then the appropriate environmental and corrosion resistance tests from UL 1598A shall be conducted on the converted luminaire.

SA4 Additional Markings and Instructions

SA4.1 Reflector kits intended for specific luminaire models shall be provided with instructions identifying the manufacturer and model designation(s) of the marine luminaires for which they are intended.

SA4.2 Reflector kits intended for one or more generic type luminaires shall be marked with the marine luminaire type for which it is intended, as follows:

Table SA4.1

Marine Luminaire Type Marking

<u>Item</u>	<u>Marking</u>	<u>Text</u>	<u>Format</u>
<u>1.1</u>	<u>FOR INSIDE TYPE LUMINAIRES</u>	<u>VERBATIM</u>	<u>S16-L2</u>
<u>1.2</u>	<u>FOR INSIDE DRIPPROOF TYPE LUMINAIRES</u>	<u>VERBATIM</u>	<u>S16-L2</u>
<u>1.3</u>	<u>FOR OUTSIDE TYPE (FRESH WATER) LUMINAIRES</u>	<u>VERBATIM</u>	<u>S16-L2</u>

<u>1.4</u>	<u>FOR OUTSIDE TYPE LUMINAIRES or FOR OUTSIDE TYPE (SALT WATER) LUMINAIRES</u>	<u>VERBATIM</u>	<u>S16-L2</u>
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BSR/UL 2201, Standard for Carbon Monoxide (CO) Emission Rate of Portable Generators

1. Clarification to Scope of UL 2201

PROPOSAL

1.3 These requirements do not cover generator assemblies as part of welding and plasma cutting machines. That equipment is covered by one or more of the following: UL 551, Transformer-Type Arc-Welding Machines, or NEMA/IEC 60974-1, Arc Welding Equipment – Part 1: Welding Power Sources, or NEMA/IEC 60974-6, Arc Welding Equipment – Part 6: Limited Duty Equipment.

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BSR/UL 8750, Standard for Light Emitting Diode (LED) Equipment For Use In Lighting Products

1. Revision of requirements for SUPPLEMENT SF - LED EQUIPMENT WITH WIRED CONTROL CIRCUITS

PROPOSAL

SF3.1 The control circuit shall be spaced or isolated from other circuits of the LED equipment as follows:

- a) Control circuit lead wires, terminals, and wire connectors shall comply with the requirements for Separation of Circuits, Section 7.5,
- b) PWB spacings between the control circuit and other circuits of the LED equipment shall comply with 7.8.2,
- c) Components that bridge between the control circuit and other circuits of the LED equipment shall comply with 7.9.2, and
- d) Isolation transformers located between the control circuit and other circuits of the LED equipment shall comply with the requirements for Coil Insulation, Section 7.11.

Exception 1: The requirements in SF3.1 do not apply when:

- a) *The control circuit does not exit the lighting equipment (i.e. the control circuit is internal to a fire/electrical enclosure),*
- b) *Risks of fire and shock concerns due to interposed circuits between different components of the lighting equipment are addressed by circuit analysis, component abnormal tests, or both,*
- c) *The required isolation for Isolated, Class 2, or LVLE power circuits is not compromised,*
- d) *The control circuit is marked per SF8.4, and*
- e) *The installation instructions include related information described in SF8.5.*

Exception 2: The requirements in SF3.1 do not apply between the control circuit and output power circuit when:

- a) *The output power circuit is Class 2,*
- b) *The control circuit has been evaluated as a Class 2 circuit, or it is intended for connection to an external Class 2 supply,*
- c) *Circuit analysis and/or component abnormal testing is conducted to ensure that interconnection of these two circuits will not result in output levels (voltage, current, power) that exceed Class 2 limits in either circuit.*
- d) *Other required isolation for Isolated, Class 2, or LVLE power circuits is not compromised, and*
- e) *The installation instructions include related information described in SF8.5.*

Where the control circuit is intended for connection to an external Class 2 supply, the analysis and testing in item c, is to be conducted using a supply with electrical characteristics (voltage, current, power) as specified in SF8.5.a.

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