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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: October 27, 2019

ASME (American Society of Mechanical Engineers)

New Standard

BSR/ASME B89.7.6-201X , Guidelines for the Evaluation of Uncertainty of Test Values Associated with the Verification of Dimensional Measuring Instruments to their Accuracy Specifications (new standard)

These guidelines address the evaluation of uncertainty of test values associated with the testing of dimensional measuring instruments to their accuracy specifications, particularly during acceptance testing.

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

Send comments (with optional copy to psa@ansi.org) to: Justin Cassamassino, (212) 591-8404, cassamassinoj@asme.org

NSF (NSF International)

Revision

BSR/NSF 3-201x (i15r4), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2018)

This Standard applies to commercial dishwashing; glasswashing; and pot, pan, and utensil washing machines that wash their contents by applying sprays of detergent solutions with or without blasting media granules, and sanitize their contents by applying sprays of hot water or chemical sanitizing solutions. Stationary rack and conveyor machines are covered under this Standard.

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

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

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 60320-1-201x, Standard for Safety for Appliance Couplers for Household and Similar General Purposes - Part 1: General Requirements (national adoption of IEC 60320-1 with modifications and revision of ANSI/UL 60320-1-2019)

(1) Correction of requirements for clauses 5.3 "Failures" and 5.4 "Routine tests".

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

Send comments (with optional copy to psa@ansi.org) to: <https://csds.ul.com>

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 248-19-201x, Standard for Safety for Low-Voltage Fuses - Part 19: Photovoltaic Fuses (revision of ANSI/UL 248-19-2015)

(1) Clarification to inductance requirement for operation at Rated Voltage 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 913-201X, Standard for Safety for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I,II, III, Division 1, Hazardous (Classified) Locations (revision of ANSI/UL 913-2018)

This proposal provides revisions addressing the use of the seventh edition of UL 60079-0, recently published in March 2019, and revisions permitting the Group III requirements in UL 60079-0 and UL 60079-11 as an alternative to the Class II and III requirements, based on responses to comments received on the Proposal dated August 9, 2019.

[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 2703-201x, Standard for Safety for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels (revision of ANSI/UL 2703-2019)

This proposal for UL 2703 covers: (1) Revisions to clarify and correct the definition for Yield Strength.

[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 62841-2-5-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 2-5: Particular Requirements for Hand-Held Circular Saws (revision of ANSI/UL 62841-2-5-2016)

This proposal for UL 62841-2-5 covers: (1) Proposed revisions to clause 17.102.3DV.2 to clarify the requirements.

[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: November 11, 2019

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB Std 031-201x, Guidelines for Report Writing in Bloodstain Pattern Analysis (new standard)

This document provides guidelines for report writing in bloodstain pattern analysis (BPA). In addition, guidance is provided regarding statements to be avoided in the report.

Single copy price: Free

Obtain an electronic copy from: Document will be provided electronically on ASB website:<http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>

Available on the Published Documents ASB website: www.asbstandardsboard.org

Send comments (with optional copy to psa@ansi.org) to: asb@aafs.org or sb@aafs.org. This is a public comment period for a recirculation.

BSR/ASB STD 117-201x, Standard for Examination of Stamp Impressions and Stamping Devices (new standard)

This standard provides procedures to be used by forensic document examiners for forensic examinations and comparisons involving stamp impressions (often referred to as rubber stamp impressions) and stamping devices.

Single copy price: Free

Obtain an electronic copy from: Document will be provided electronically on ASB website: www.asbstandardsboard.org/notice-of-standard-development-and-coordination

Available on the Published Documents 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)

Reaffirmation

BSR/AAMI/ISO 5841-2-2014 (R201x), Implants for surgery - Cardiac pacemakers - Part 2: Reporting of clinical performance of populations of pulse generators or leads (reaffirmation of ANSI/AAMI/ISO 5841-2-2014)

Specifies requirements for reports on the clinical performance in humans of population samples of pulse generators or leads, intended for long-term implantation as cardiac pacemakers. It includes general requirements for all reports and supplementary requirements for reports on cumulative experience with devices and estimates of future clinical performance for devices, when appropriate.

Single copy price: \$90.00 (AAMI members) / \$157.00 (list)

Obtain an electronic copy from: <https://my.aami.org/store/detail.aspx?id=584102-PDF>

Send comments (with optional copy to psa@ansi.org) to: Jennifer Moyer, (703) 253-8274, jmoyer@aami.org

AISI (American Iron and Steel Institute)

New Standard

BSR/AISI S921-201x, Test Standard for Determining the Strength and Serviceability of Cold-Formed Steel Truss Assemblies and Components (new standard)

This Standard establishes procedures for confirmatory and performance tests for the strength and serviceability of cold-formed steel trusses. It is applicable to roof and floor trusses, whether built as component assemblies or fabricated on site. It is applicable to laboratory or in situ testing.

Single copy price: Free

Obtain an electronic copy from: jlanson@steel.org

Send comments (with optional copy to psa@ansi.org) to: Jay Larson, (610) 691-6334, jlanson@steel.org

BSR/AISI S922-201x, Test Standard for Determining the Strength and Stiffness of Bearing-Friction Interference Connector Assemblies in Profiled Steel Panels (new standard)

This Standard applies to the determination of the strength and stiffness of bearing-friction interference connector assemblies in profiled steel panels, including steel deck and concrete-filled steel deck-slabs using an interference connector in a bearing connection, friction connection, or a combination thereof.

Single copy price: Free

Obtain an electronic copy from: jlanson@steel.org

Send comments (with optional copy to psa@ansi.org) to: Jay Larson, (610) 691-6334, jlanson@steel.org

ALI (Automotive Lift Institute)

Revision

BSR/ALI ALOIM-201x, Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance (revision of ANSI/ALI ALOIM-2008 (R2013))

This reconsideration ballot addresses revisions made to satisfy comments received during the initial ballot of the draft document dated November 3, 2017.

Single copy price: \$10.00

Obtain an electronic copy from: heather@autolift.org

Order from: Heather Almeida, (607) 756-7775, heather@autolift.org

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

ASABE (American Society of Agricultural and Biological Engineers)

Reaffirmation

BSR/ASABE EP585-2015 (R201x), Animal Mortality Composting (reaffirmation of ANSI/ASABE EP585-2015)

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

Single copy price: \$65.00 (non-members); \$44.00 (ASABE members)

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

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

BSR/ASABE/ISO 12188-2-2015 (R201x), Tractors and machinery for ag and forestry - Test procedures for positioning and guidance systems in ag - Part 2: Testing of satellite-based auto-guidance systems during straight and level travel (reaffirm a national adoption ANSI/ASABE/ISO 12188-2-2015)

This standard specifies the process for evaluating and reporting the performance of agricultural vehicles equipped with automated guidance systems (AGS) based on a global navigation satellite system (GNSS) when operating in an automatic steering mode.

Single copy price: \$65.00 (non-members); \$44.00 (ASABE members)

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

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

BSR/ASAE EP545 MAR1995 (R201x), Loads Exerted by Free-Flowing Grain on Shallow Storage Structures (reaffirmation of ANSI/ASAE EP545 MAR1995 (R2015))

This Engineering Practice presents methods of estimating the grain pressures within shallow storage structures used to store free-flowing, agricultural whole grains.

Single copy price: \$65.00 (non-members); \$44.00 (ASABE members)

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

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

BSR/ASAE S422.1-2015 (R201x), Mapping Symbols and Nomenclature for Erosion and Sediment Control Plans for Land Disturbing Activities (reaffirmation of ANSI/ASAE S422.1-2015)

The purpose of this Standard is to establish a list of standard descriptive elements for use in erosion- and sediment-control plan development. These elements consist of mapping symbols, keys, modifiers, and corresponding nomenclature. By improving consistency across plans, this Standard should facilitate the use and review of such plans by contractors and other professionals.

Single copy price: \$65.00 (non-members); \$44.00 (ASABE members)

Obtain an electronic copy from: walsh@asabe.org

Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org

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

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

New Standard

BSR/ASHRAE Standard 217-201x, Non-Emergency Ventilation in Enclosed Road, Rail and Mass Transit Facilities (new standard)

ASHRAE Standard 217-201x provides minimum ventilation requirements for ventilation systems within enclosed transportation facilities during non-emergency 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>

BSR/ASHRAE Standard 221-201x, Test Method to Field-Measure and Score the Cooling and Heating Performance of an Installed Unitary HVAC System (new standard)

The purpose of ASHRAE Standard 221-201x is to prescribe a field evaluation and test method to measure and score the performance, in terms of delivered cooling or heating capacity, or cooling efficiency, of an installed unitary HVAC system.

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>

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

Revision

BSR/ASHRAE Standard 118.1-201x, Method of Testing for Rating Commercial Gas, Electric and Oil Service Water Heating Equipment (revision of ANSI/ASHRAE Standard 118.1-2012)

This revision of Standard 118.1-2012 updates the scope to be consistent with the Department of Energy's July 15, 2015, final rule that establishes new definitions for "commercial" and "residential duty commercial" water heaters and revises the definitions of heat-pump water heaters. Test methods and calculations are revised for all heat-pump water heaters. The revision also updates Setting Outlet Water Temperature for Heating capacity for Type 1, Type II, Type III, Type IV, and Type V heaters, adds new Standby Loss test method and calculations for Type II and Type III Instantaneous Waters, and updates references.

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>

AWWA (American Water Works Association)

Revision

BSR/AWWA C701-201x, Cold-Water Meters - Turbine Type, for Customer Service (revision of ANSI/AWWA C701-2015)

This standard describes the various classes of cold-water turbine meters in sizes ¾ in. (20 mm) 12 through 20 in. (500 mm) for water supply customer service, mainline metering, and custody transfer of water among purveyors, and the materials and workmanship employed in their fabrication.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C702-201x, Cold-Water Meters - Compound Type (revision of ANSI/AWWA C702-2015)

This standard describes the various types and classes of cold-water compound-type meters in sizes 2 in. (50 mm) through 8 in. (200 mm), and the materials and workmanship used in their fabrication. Compound meters shall consist of a combination of a turbine-type mainline meter for measuring high rates of flow and a bypass meter of an appropriate size for measuring low rates of flow.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C703-201x, Cold-Water Meters - Fire-Service Type (revision of ANSI/AWWA C703-2015)

This standard describes the various types and classes of cold-water fire-service-type meters in sizes 3 in. (80 mm) through 10 in. (250 mm), and the materials and workmanship used in their fabrication.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C704-201x, Propeller-Type Meters for Waterworks Applications (revision of ANSI/AWWA C704-2015)

This standard describes the various types and classes of propeller meters in sizes 2 in. (50 mm) through 72 in. (1800 mm) for waterworks applications. These meters register by recording the revolutions of a propeller set in motion by the force of flowing water striking the blades.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C708-201x, Cold-Water Meters - Multijet Type (revision of ANSI/AWWA C708-2015)

This standard describes cold-water multijet meters in sizes 5/8 in. (15 mm) through 2 in. (50 mm) for water utilities' customer service and the materials and workmanship employed in their fabrication. These meters register by recording the revolutions of a rotor set in motion by the force of flowing water striking the blades.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C712-201x, Cold-Water Meters - Singlejet Type (revision of ANSI/AWWA C712-2015)

This standard describes the various types and classes of cold-water singlejet meters in sizes 5/8 in. (15 mm) through 6 in. (150 mm) for water utilities' customer service and the materials and workmanship employed in their fabrication. These meters register by recording the revolutions of a rotor powered by the force of flowing water striking its blades.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

BSR/AWWA C713-201x, Cold-Water Meters - Fluidic-Oscillator Type (revision of ANSI/AWWA C713-2015)

This standard describes cold-water fluidic-oscillator meters with brass main cases in sizes ½ in. (13 mm) through 2 in. (50 mm), and the materials and workmanship employed in their fabrication. The basis for volume measurement is a transducer element that senses and utilizes fluidic oscillation rather than a moving measurement element, as required in traditional cold-water volumetric meters.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

Order from: Vicki David, (303) 347-3431, vdavid@awwa.org

Send comments (with optional copy to psa@ansi.org) to: Paul Olson, (303) 347-6178, polson@awwa.org

CRRC (Cool Roof Rating Council)**Revision**

BSR/CRRC S100-201x, Standard Test Methods for Determining Radiative Properties of Materials (revision of ANSI/CRRC S100-2016)

This standard covers specimen preparation and test methods for determining the initial and aged radiative properties of roofing products.

Single copy price: Free

Obtain an electronic copy from: <https://coolroofs.org/product-rating/ansi-crrc-s100>

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

CTA (Consumer Technology Association)**Revision**

BSR/CTA 2043-A-201x, Set-Top Box (STB) Power Measurement (revision and redesignation of ANSI/CTA 2043-2013)

This standard defines procedures for measuring Set-Top Box power consumption. CTA 2043 includes procedures for measuring power consumption for a broad variety of STB types and features, and therefore not all test procedures are applicable to all STBs. The entity specifying the use of CTA 2043 for STB power measurement is expected to select which procedures are required for the STB being tested and is expected to define predetermined testing parameters required by the test procedures chosen. Informative annexes are included to provide specific mapping to other industry standards in use, as well as information for various equipment and testing scenarios.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech

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

GBI (Green Building Initiative)**Stabilized Maintenance**

BSR/GBI 01-2019 (S201x), Green Globes Assessment Protocol for Commercial Buildings (stabilized maintenance of ANSI/GBI 01-2019)

The Standard includes criteria and practices for resource-efficient, healthy, resilient, and environmentally preferable construction of commercial buildings. Six areas of green building design will be included: environmental/project management, site, energy, water, materials, and indoor environment.

Single copy price: \$25.00 USD

Obtain an electronic copy from: <https://www.thegbi.org/ansi>

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

IEEE (ASC N42) (Institute of Electrical and Electronics Engineers)**Revision**

BSR N42.42-201x, Standard Data Format for Radiation Detectors Used for Homeland Security (revision of ANSI N42.42-2012)

The data format that shall be used for both required and optional data to be made available by radiation measurement instruments for homeland security applications is specified. The performance for these types of instruments is described in other standards; such as ANSI N42.32, ANSI N42.33, ANSI N42.34, ANSI N42.35, ANSI N42.38, ANSI N42.43, ANSI N42.48, ANSI N42.49A, and ANSI N42.53.

Single copy price: \$283.00

Obtain an electronic copy from: s.h.kim@ieee.org

Send comments (with optional copy to psa@ansi.org) to: Soo Kim, (732) 465-6640, s.h.kim@ieee.org

IES (Illuminating Engineering Society)

New Standard

BSR/IES LP-4-201x, Lighting Practice: Electric Light Sources - Properties, Selection and Specification (new standard)

The sections of this document describe light-source technologies commonly used for general lighting applications. Information is categorized according to the way visible light is produced. Details are provided regarding operating principles, characteristics of the technology, and configuration of systems. Guidelines are presented to assist in selecting and specifying each type of light source, highlighting application concerns that should be considered.

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 LP-9-201x, Lighting Practice: Upgrading Lighting Systems in Commercial and Institutional Facilities (new standard)

This document is intended for commercial and institutional building owners, lighting practitioners, facility managers and engineers, energy service companies, retrofitters, and utility representatives considering a lighting upgrade. This document is written in general terms; every lighting project is different because of a wide variety of factors (e.g., architectural and luminaire styles, age of the building and its lighting systems, tasks performed, age of occupants).

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 LM-10-201x, Approved Method: Photometric Testing of Roadway and Area Lighting Fluorescent Luminaires (new standard)

Fluorescent Luminaires (new standard) Photometric testing (distribution photometry) of roadway and area lighting luminaires using fluorescent lamps.

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 LP-10-201x, Lighting Practice: Sustainable Lighting - An Introduction to the Environmental Impacts of Lighting (new standard)

The IES and the International Association of Lighting Designers (IALD) define sustainable lighting design as "meeting the qualitative needs of the visual environment with the least impact on the natural environment." Visually effective and appealing, high-quality lighting provides the greatest environmental and economic value. The intent of this Design Guide is to introduce the topic of sustainability, present its elements, and explain how it affects the design of lighting in process and product.

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 LM-11-201x, Approved Method: Guide for Photometric Testing of Searchlights (new standard)

This guide applies to lighting equipment having a total field angle of less than ten degrees. This includes equipment in which light is controlled by reflectors, lenses, or their combinations. The guide applies to projectors with a variety of light sources, including tungsten filament, tungsten-halogen, and high-intensity discharge lamps. It does not apply to projector systems comprised of arrays of light-emitting diodes

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 LM-28-201x, Approved Method: Guide for the Selection, Care and Use of Electrical Instruments in the Photometric Laboratory (new standard)

The units of electrical measurement used in this test method are the volt, the ampere, and the watt. The term "instrument" will be used throughout the guide instead of the term "meter", which was incorrectly applied in previous publications of this document. The instruments required for the photometric laboratory can be divided into two groups: (1) instruments for the measurement of electrical quantities in the testing of lamps and auxiliaries, and (2) special instruments and devices for such measurements as detector output, temperature, source color, total luminous flux, and luminaire and photometer angular position. Indicating and recording instruments may be used in either type of application.

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 LM-31-201x, Approved Method: Photometric Testing of Roadway and Area Lighting Luminaires Using Incandescent Filament or High Intensity Discharge Lamps (new standard)

Photometric testing (distribution photometry) of roadway and area lighting luminaires using HID and incandescent lamps.

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 LM-35-201x, Approved Method: Photometric Testing of Floodlights Using High Intensity Discharge or Incandescent Filament Lamps (new standard)

Testing of floodlight luminaires using HPS, MH, and incandescent filament lamps, including tungsten-halogen lamps. Floodlights are limited to luminaires with a total field angle greater than or equal to ten degrees.

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 LM-46-201x, Approved Method: Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps. (new standard)

This approved method is intended to promote uniform test results as obtained under controlled laboratory conditions in measuring the luminous flux and intensity of high-intensity discharge and incandescent indoor-type luminaires. All mercury, high-pressure sodium (HPS), and metal halide lamps are classified as High Intensity Discharge (HID) lamps, and their photometry when installed in indoor-type luminaires is covered by this method. Also covered are similar luminaire types employing incandescent lamps, including tungsten-halogen lamps. For the unique testing requirements of entertainment lighting luminaires (stage, TV, film) using HID and incandescent lamps, consult LM-73. Because of their special characteristics, low-pressure sodium lamps and fluorescent lamps are not discussed in these procedures.

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 LM-47-201x, Approved Method: Life Testing of High Intensity Discharge (HID) Lamps (new standard)

This approved method describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements during life testing of high-intensity discharge lamps under standard conditions. This approved method includes other technologies within the Metal Halide family including Ceramic Metal Halide and Pulse Start Metal Halide lamps. It addresses life testing of high-intensity discharge lamps operated on auxiliary devices, either external or integrated, designed and certified to meet lamp industry standards and tolerance. Xenon arc lamps, low-pressure sodium lamps, and automotive lamps are not addressed in this IES Approved Method.

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 LM-49-201x, Approved Method: Life Testing of Incandescent Filament Lamps (new standard)

This approved method describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements during life testing of incandescent filament lamps under standard conditions.

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 LM-51-201x, Approved Method: Electrical and Photometric Measurement of High Intensity Discharge Lamps (new standard)

This approved method describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements of the electrical and photometric characteristics of High Intensity Discharge (HID) lamps under standard conditions in 60Hz, alternating current circuits. This approved method includes other technologies within the high-intensity discharge family including High Pressure Sodium, Mercury Discharge, Ceramic Metal Halide, and Pulse Start Metal Halide lamps. It addresses electrical and photometric characteristics of high-intensity discharge lamps operated on auxiliary devices, either external or integrated, designed and certified to meet lamp industry standards and tolerance. Xenon arc lamps, low-pressure sodium lamps (IES LM-50-00 IES Approved Method for the Electrical and Photometric Measurements of Low Pressure Sodium Lamps (withdrawn from publication)), and automotive lamps are not addressed in this IES Approved Method. Additional information on these lamp types may be found in the IES Lighting Handbook and the other references listed at the end of the 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 LM-58-201x, Approved Method: Spectroradiometric Measurement Methods for Light Sources (new standard)

This document describes the requirements and recommendations of the instruments and the procedures for spectroradiometric measurements including those of color performance, spectral irradiance, spectral radiance, and spectral total radiant flux, either in relative or in absolute units. The spectral range is from approximately 200 nm to 1700 nm where the characterization of light from lighting sources, visual displays, and light-emitting diodes, is most commonly done. This document does not provide in depth detail on every subject, but directs the user to references that completely describe the concepts. The light source or device under test shall be operated in accordance with the appropriate IES LM (Lighting Measurement) or ANSI (American National Standards Institute) document pertaining to the device and is not described in this document.

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-40-201x, Recommended Practice: Lighting Port Terminals (new standard)

Establish guidelines for design of LED area lighting for Port Container 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 TM-27-201x, Technical Memorandum: IES Standard Format for the Electronic Transfer of Spectral Data (new standard)

This document specifies an electronic (XML-based) data format for the transfer of spectral data. This document may be used for the transfer of spectral data of optical radiation including light sources, lamps, and luminaires, as well as reflectance and transmittance spectra of materials. The document is limited to containing a single spectral dataset. Details about the XML document format, XML schema, XSLT transforms, and more can be found at the W3C's website, the authority for the XML document format. This document is intended as a description of a specific implementation of an XML document and not as a tutorial on the XML document format itself.

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 TM-31-201x, Approved Method: Measurement Uncertainty for Lighting Equipment Calibration Using Integrating Spheres (new standard)

This document provides templates for the analysis of measurement uncertainty for the photometric calibration of integrating sphere systems using standard incandescent lamps, as well as the creation of working standard lamps using integrating sphere systems that are effectively identical to the primary standard lamps. It does not provide templates for the analysis of measurement uncertainty for colorimetric calibration of working standard lamps or for the testing of general lighting products.

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 TM-35-201x, Technical Memorandum: Projecting Long-Term Chromaticity Coordinate Shift of LED Packages, Arrays, and Modules (new standard)

The Illuminating Engineering Society (IES) has defined standard test methods to be used by the manufacturers of LED products to ensure that the products meet the expectations of the lighting community. One of the most important of these is ANSI/IES LM-80-15, Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays, and Modules. LM-80 provides a test and measurement protocol for how these LED light sources in order to document changes in their light and chromaticity characteristics with respect to time. By applying the methodology of BSR/IES TM-21-xx, Technical Memorandum: Projecting Long-Term Lumen Maintenance of LED Light Sources, to a minimum of 6,000 hours of LM-80-compliant test results, it is possible to project the lumen maintenance life (e.g., L70, L80, or L90) of LED packages, arrays, and modules.

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

NFPA (National Fire Protection Association)

The National Fire Protection Association announces the availability of NFPA 1582 First Draft Report for concurrent review and comment by NFPA and ANSI. The First Draft Report contains the disposition of public inputs that were received for NFPA 1582. The First Draft Reports for NFPA 1582 can be found on www.nfpa.org/1582next. All comments on NFPA 1582 must be received by November 27, 2019. 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 at <http://www.nfpa.org> or contact NFPA's Codes and Standards Administration, at NFPA, One Batterymarch Park, Quincy, MA, 02269-7471. Those who submit comments to NFPA's online submission system on NFPA 1582 are invited to copy ANSI's Board of Standards Review.

Revision

BSR/NFPA 1582-201x, Standard on Comprehensive Occupational Medical Program for Fire Departments (revision of ANSI/NFPA 1582-2018)

This standard contains descriptive requirements for a comprehensive occupational medical program for fire departments. The medical requirements in this standard are applicable to fire department candidates and members whose job descriptions as defined by the authority having jurisdiction (AHJ) are outlined in NFPA 1001, NFPA 1002, NFPA 1003, NFPA 1006, NFPA 1021, and NFPA 1051. This standard provides information and guidance for physicians and other health care providers responsible for fire-department occupational medical programs. These requirements are applicable to public, governmental, military, private, and industrial fire department organizations providing rescue, fire suppression, hazardous materials mitigation, special operations, and other emergency services.

Obtain an electronic copy from: www.nfpa.org/1582next

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

SAWE (Society of Allied Weights Engineers)

New Standard

BSR/SAWE STD PD M-4-201x, Supplier Weight Control for the Marine Industry (new standard)

This document focuses on the role that third-party suppliers play in the marine industry practices which best satisfy the requirements for a comprehensive weight control program. It is advisory in nature; however, it may be invoked as specified in a contractual agreement such as a design and construction contract or a purchase order. It is intended to be applicable both to the suppliers of Builder-furnished equipment and Owner- or Government-furnished equipment for the marine industry. The primary focus of this document is on the acquisition stage of a ship's life rather than its in-service stage although many of the elements presented may be applied throughout the life of the vessel.

Single copy price: Free

Obtain an electronic copy from: <https://www.sawe.org/technical/rp/publicreview> for link "RP M-4:2019-01"

Send comments (with optional copy to psa@ansi.org) to: <https://www.sawe.org/technical/rp/publicreview> for link "RP M-4:2019-01"

TIA (Telecommunications Industry Association)

Reaffirmation

BSR/TIA 1005-A-2012 (R201x), Telecommunications Infrastructure Standard for Industrial Premises (reaffirmation of ANSI/TIA 1005-A-2012)

This Standard specifies telecommunications cabling to support industrial premises applications (e.g., voice, data, text, video, industrial and building controls, security, fire alarm, imaging) while allowing for exposure to the wide range of environmental conditions expected in industrial premises (e.g., temperature, humidity, electrical noise, shock, vibration, corrosive gases, dust, liquids)

Single copy price: \$112.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA, standards@tiaonline.org

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 296-201x, Standard for Safety for Oil Burners (revision of ANSI/UL 296-2017)

The following topic is being proposed: (1) Addition of requirements for burners utilizing biodiesel blends.

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 1441-201X, Standard for Coated Electrical Sleeving (revision of ANSI/UL 1441-2005 (R2018))

(1) Publish an updated new edition which includes references.

Single copy price: Free

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

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

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

Comment Deadline: November 26, 2019

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

ANS (American Nuclear Society)

Revision

BSR/ANS 19.6.1-201x, Reload Startup Physics Tests for Pressurized Water Reactors (revision of ANSI/ANS 19.6.1-2011 (R2016))

This standard specifies the minimum acceptable startup reactor physics tests that are performed following a refueling or other core alteration of a PWR for which nuclear design calculations are required. This standard does not address the physics test program for the initial core of a commercial PWR.

Single copy price: \$121.00

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 1091-201x, Standard for Butterfly Valves for Fire-Protection Service (new standard)

SCC and ANSI approval of Standard for Butterfly Valves for Fire-Protection Service.

Single copy price: Free

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

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

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 312-201x, Standard for Check Valves for Fire-Protection Service (revision of ANSI/UL 312-2018)

SCC approval of Standard for Check Valves for Fire-Protection Service.

Single copy price: Free

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

Send comments (with optional copy to psa@ansi.org) to: Griff Edwards, (919) 549-0956, griff.edwards@ul.org

Project Withdrawn

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

ASTM (ASTM International)

BSR/ASTM WK44266-201x, New Practice for Laboratory Management of Precision and Bias of Test Methods (new standard)

Inquiries may be directed to Corice Leonard, (610) 832-9744, accreditation@astm.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)

Office: 901 N. Glebe Road, Suite 300
Arlington, VA 22203

Contact: Jennifer Moyer

Phone: (703) 253-8274

E-mail: jmoyer@aami.org

BSR/AAMI/ISO 5841-2-2014 (R201x), Implants for surgery - Cardiac pacemakers - Part 2: Reporting of clinical performance of populations of pulse generators or leads (reaffirmation of ANSI/AAMI/ISO 5841-2-2014)

ALI (Automotive Lift Institute)

Office: PO Box 85
3699 Luker Road
Cortland, NY 13045

Contact: Bob O'Gorman

Phone: (607) 756-7775

E-mail: info@autolift.org

BSR/ALI ALOIM-201x, Standard for Automotive Lifts - Safety Requirements for Operation, Inspection and Maintenance (revision of ANSI/ALI ALOIM-2008 (R2013))

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: Veronica Lancaster

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

BSR/CTA 2043-A-201x, Set-Top Box (STB) Power Measurement (revision and redesignation of ANSI/CTA 2043-2013)

HI (Hydraulic Institute)

Office: 6 Campus Drive, 1st Floor North
Parsippany, NJ 07054

Contact: Peter Gaydon

Phone: (862) 242-5679

E-mail: pgaydon@pumps.org

BSR/HI 9.6.5-201x, Rotodynamic Pumps - Guideline for Condition Monitoring (revision of ANSI/HI 9.6.5-2016)

IES (Illuminating Engineering Society)

Office: 120 Wall Street, Floor 17
New York, NY 10005

Contact: Patricia McGillicuddy

Phone: (917) 913-0027

E-mail: pmcgillicuddy@ies.org

BSR/IES LP-4-201x, Lighting Practice: Electric Light Sources - Properties, Selection and Specification (new standard)

BSR/IES LP-6-201x, Lighting Practice: Lighting Control Systems - Properties, Selection and Specification (new standard)

BSR/IES LS-8-201x, Lighting Science: Vision - Perceptions and Performance (new standard)

BSR/IES LP-9-201x, Lighting Practice: Upgrading Lighting Systems in Commercial and Institutional Facilities (new standard)

BSR/IES LM-10-201x, Approved Method: Photometric Testing of Roadway and Area Lighting Fluorescent Luminaires (new standard)

BSR/IES LP-10-201x, Lighting Practice: Sustainable Lighting - An Introduction to the Environmental Impacts of Lighting (new standard)

BSR/IES LM-11-201x, Approved Method: Guide for Photometric Testing of Searchlights (new standard)

BSR/IES LP-11-201x, Lighting Practice: Environmental Considerations for Outdoor Lighting (new standard)

BSR/IES LM-28-201x, Approved Method: Guide for the Selection, Care and Use of Electrical Instruments in the Photometric Laboratory (new standard)

BSR/IES LM-31-201x, Approved Method: Photometric Testing of Roadway and Area Lighting Luminaires Using Incandescent Filament or High Intensity Discharge Lamps (new standard)

BSR/IES LM-35-201x, Approved Method: Photometric Testing of Floodlights Using High Intensity Discharge or Incandescent Filament Lamps (new standard)

BSR/IES LM-41-201x, Approved Method: Photometric Testing of Indoor Fluorescent Luminaires (new standard)

BSR/IES LM-45-201x, Approved Method: Electrical and Photometric Measurement of General Service Incandescent Filament Lamps (new standard)

BSR/IES LM-46-201x, Approved Method: Photometric Testing of Indoor Luminaires Using High Intensity Discharge or Incandescent Filament Lamps. (new standard)

BSR/IES LM-47-201x, Approved Method: Life Testing of High Intensity Discharge (HID) Lamps (new standard)

BSR/IES LM-49-201x, Approved Method: Life Testing of Incandescent Filament Lamps (new standard)

BSR/IES LM-51-201x, Approved Method: Electrical and Photometric Measurement of High Intensity Discharge Lamps (new standard)

BSR/IES LM-58-201x, Approved Method: Spectroradiometric Measurement Methods for Light Sources (new standard)

BSR/IES LM-62-201x, Approved Method: Guide for Laboratory or Field Thermal Measurements of Fluorescent Lamps and Ballasts in Luminaires (new standard)

BSR/IES LM-65-201x, Approved Method: Life Testing of Single-Based Fluorescent Lamps (new standard)

BSR/IES LM-81-201x, Approved Method: Photometric Testing of Skylights and Tubular Daylighting Devices under Hemispherical Sky Conditions (new standard)

BSR/IES LM-86-201x, Approved Method: Measuring Luminous Flux and Color Maintenance of Remote Phosphor Components (new standard)

BSR/IES RP-36-201x, IES/NALMCO Recommended Practice: Lighting Maintenance (new standard)

BSR/IES RP-40-201x, Recommended Practice: Lighting Port Terminals (new standard)

BSR/IES TM-27-201x, Technical Memorandum: IES Standard Format for the Electronic Transfer of Spectral Data (new standard)

BSR/IES TM-31-201x, Approved Method: Measurement Uncertainty for Lighting Equipment Calibration Using Integrating Spheres (new standard)

BSR/IES TM-35-201x, Technical Memorandum: Projecting Long-Term Chromaticity Coordinate Shift of LED Packages, Arrays, and Modules (new standard)

NEMA (ASC C8) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Rosslyn, VA 22209

Contact: Khaled Masri

Phone: (703) 841-3278

E-mail: Khaled.Masri@nema.org

BSR/ICEA P-127-737-201x, Code Words for Overhead Aluminum Covered Conductors and 600 Volt Overhead Cables (new standard)

BSR/ICEA P-124-736-201x, Code Words for 600V Underground Distribution Cable (new standard)

NSF (NSF International)

Office: 789 N. Dixboro Road
Ann Arbor, MI 48105-9723

Contact: Allan Rose

Phone: (734) 827-3817

E-mail: arose@nsf.org

BSR/NSF 3-201x (i15r4), Commercial Warewashing Equipment (revision of ANSI/NSF 3-2018)

TIA (Telecommunications Industry Association)

Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201

Contact: Teesha Jenkins

Phone: (703) 907-7706

E-mail: standards@tiaonline.org

BSR/TIA 1005-A-2012 (R201x), Telecommunications Infrastructure Standard For Industrial Premises (reaffirmation of ANSI/TIA 1005-A-2012)

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.

ASA (ASC S2) (Acoustical Society of America)

New National Adoption

ANSI ASA S2.80-2019/Part 1/ISO 20816-1-2016, Mechanical vibration - Measurement and evaluation of machine vibration - Part 1: General guidelines (a nationally adopted international standard) (identical national adoption of ISO 20816-1:2016): 9/24/2019

ANSI ASA S2.80-2019/Part 2/ISO 20816-2-2017, Mechanical vibration - Measurement and evaluation of machine vibration - Part 2: Land-based gas turbines, steam turbines and generators in excess of 40 MW, with fluid-film bearings and rated speeds of 1 500 r/min, 1 800 r/min and 3 600 r/min (a nationally adopted international standard) (identical national adoption of ISO 20816-2:2017): 9/24/2019

ANSI ASA S2.81-2019/Part 2/ISO 21940-2-2017, Mechanical vibration - Rotor balancing - Part 2: Vocabulary (a nationally adopted international standard) (identical national adoption of ISO 21940-2:2017): 9/24/2019

ANSI/ASA S2.81-2019/Part 11/ISO 21940-11-2016, Mechanical vibration - Rotor balancing - Part 11: Procedures and tolerances for rotors with rigid behaviour (identical national adoption of ISO 21940-11:2016): 9/24/2019

ANSI/ASA S2.81-2019/Part 12/ISO 21940-12-2016, Mechanical vibration - Rotor balancing - Part 12: Procedures and tolerances for rotors with flexible behaviour (identical national adoption of ISO 21940-12:2016): 9/24/2019

ANSI/ASA S2.81-2019/Part 14/ISO 21940-14-2012, Mechanical vibration - Rotor balancing - Part 14: Procedures for assessing balance errors (a nationally adopted international standard) (identical national adoption of ISO 21940-14:2012): 9/24/2019

ASTM (ASTM International)

Revision

ANSI/ASTM F1387-2019, Specification for Performance of Piping and Tubing Mechanically Attached Fittings (revision of ANSI/ASTM F1387-1999 (R2012)): 9/15/2019

AWS (American Welding Society)

New Standard

ANSI/AWS J1.3M/J1.3-2020, Specification for Materials Used in Resistance Welding Applications (new standard): 9/18/2019

BHMA (Builders Hardware Manufacturers Association)

Reaffirmation

ANSI/BHMA A156.17-2014 (R2019), Standard for Self Closing Hinges and Pivots (reaffirmation of ANSI/BHMA A156.17-2014): 9/23/2019

Revision

ANSI/BHMA A156.14-2019, Standard for Sliding and Folding Door Hardware (revision of ANSI/BHMA A156.14-2013): 9/23/2019

CSA (CSA America Standards Inc.)

New National Adoption

ANSI/CSA C22.2 No. 19085-1-2019, Woodworking machines - Safety - Part 1: Common requirements (national adoption with modifications of ISO 19085-1): 9/24/2019

Revision

ANSI Z21.10.1-2019, Gas Water Heaters, Volume I, Storage Water Heaters with Input ratings of 75,000 Btu per Hour or Less (same as CSA 4.1) (revision and redesignation of ANSI Z21.10.1-2017): 9/23/2019

ANSI/CSA Z21.10.3-2019, Gas Water Heaters, Volume III, Storage Water Heaters with Input Ratings Above 75,000 Btu per Hour, Circulating or Instantaneous (same as CSA 4.3) (revision and redesignation of ANSI Z21.10.3-2017): 9/23/2019

ANSI/CSA Z21.56-2019, Gas-fired Pool Heaters (same as CSA 4.7) (revision and redesignation of ANSI Z21.56-2017): 9/23/2019

ECIA (Electronic Components Industry Association)

Revision

ANSI/EIA 364-90A-2019, Crosstalk Ratio Test Procedures for Electrical Connectors, Sockets, Cable Assemblies or Interconnect Systems (revision and redesignation of ANSI/EIA 364-90-2000 (R2013)): 9/23/2019

ANSI/EIA 364-107A-2019, Eye Pattern and Jitter Test Procedure for Electrical Connectors, Sockets, Cable Assemblies or Interconnection Systems (revision and redesignation of ANSI/EIA 364-107-2000 (R2013)): 9/18/2019

IES (Illuminating Engineering Society)

Addenda

ANSI/IES TM-30-18 Addendum 1-2019, IES Method for Evaluating Light Sources Color Rendition (addenda to ANSI/IES TM-30-2018): 9/23/2019

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

Addenda

INCITS 537-2016/AM 1-2019, Information technology - Zoned-device ATA Commands Amendment 1 (ZAC-AM 1) (addenda to INCITS 537-2016): 9/23/2019

NEMA (ASC C12) (National Electrical Manufacturers Association)

Reaffirmation

ANSI C12.11-2006 (R2019), Instrument Transformers for Revenue Metering 10kV BIL through 350 kV BIL (0.6 kV NSV through 69 kV NSV) (reaffirmation of ANSI C12.11-2006 (R2014)): 9/23/2019

NEMA (ASC C8) (National Electrical Manufacturers Association)

Reaffirmation

ANSI/ICEA P-54-440-2009/NEMA WC-51-2009 (R2019), Ampacities of Cables Installed in Trays (reaffirmation of ANSI/ICEA P-54-440-2009/NEMA WC-51-2009 (R2014)): 9/23/2019

NSF (NSF International)

Revision

ANSI/NSF 62-2019 (i37r1), Drinking Water Distillation Systems (revision of ANSI/NSF 62-2018): 9/19/2019

ANSI/NSF/IPEC 363-2019 (i14r1), Good Manufacturing Practices (GMP) for Pharmaceutical Excipients (revision of ANSI/NSF/IPEC 363-2014): 9/20/2019

PLATO (Portable Lights American Trade Organization)

Revision

ANSI/PLATO FL 1-2019, Flashlight Basic Performance Standard (revision of ANSI/PLATO FL 1-2016): 9/23/2019

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

New Standard

ANSI A108.4-2019, Installation of Ceramic Tile with Organic Adhesives or Water Cleanable Tile-Setting Epoxy Adhesive (new standard): 9/18/2019

Reaffirmation

ANSI A108.5-1999 (R2019), Installation of Ceramic Tile with Dry-Set Portland Cement Mortar or Latex-Portland Cement Mortar (reaffirmation of ANSI A108.5-1999 (R2010)): 9/18/2019

ANSI A108.6-1999 (R2019), Installation of Ceramic Tile with Chemical Resistant, Water Cleanable Tile-Setting and -Grouting Epoxy (reaffirmation of ANSI A108.6-1999 (R2010)): 9/18/2019

ANSI A108.8-1999 (R2019), Installation of Ceramic Tile with Chemical Resistant Furan Resin Mortar and Grout (reaffirmation of ANSI A108.8-1999 (R2010)): 9/18/2019

ANSI A108.9-1999 (R2019), Installation of Ceramic Tile with Modified Epoxy Emulsion Mortar/Grout (reaffirmation of ANSI A108.9-1999 (R2010)): 9/18/2019

ANSI A108.12-1999 (R2019), Installation of Ceramic Tile with EGP (Exterior Glue Plywood) Latex-Portland Cement Mortar (reaffirmation of ANSI A108.12-1999 (R2010)): 9/18/2019

ANSI A118.10-2014 (R2019), Standard Specifications for Load Bearing, Bonded, Waterproof Membrane for Thin-Set Ceramic Tile and Dimension Stone Installation (reaffirmation of ANSI A118.10-2014): 9/18/2019

ANSI A118.12-2014 (R2019), Standard Specifications for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation (reaffirmation of ANSI A118.12-2014): 9/18/2019

ANSI A118.13-2014 (R2019), Standard Specifications for Bonded Sound Reduction Membranes for Thin-Set Ceramic Tile Installation (reaffirmation of ANSI A118.13-2014): 9/18/2019

TIA (Telecommunications Industry Association)

Addenda

ANSI/TIA 222-H-1-2019, Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures - Addendum 1 (addenda to ANSI/TIA 222-H-2017): 9/18/2019

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

Reaffirmation

ANSI B74.4-1992 (R2019), Procedure for Bulk Density of Abrasive Grains (reaffirmation of ANSI B74.4-1992 (R2013)): 9/17/2019

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 346-2005 (R2019), Standard for Safety for Waterflow Indicators for Fire Protective Signaling Systems (reaffirmation of ANSI/UL 346-2005 (R2014)): 9/20/2019

Revision

ANSI/UL 858-2019, Standard for Safety for Household Electric Ranges (revision of ANSI/UL 858-2018): 9/12/2019

ANSI/UL 2157-2019, Standard for Safety for Electric Clothes Washing Machines and Extractors (revision of ANSI/UL 2157-2018): 9/20/2019

ANSI/UL 2158-2019, Standard for Safety for Electric Clothes Dryers (proposal dated 6-14-19) (revision of ANSI/UL 2158-2018): 9/20/2019

Project Initiation Notification System (PINS)

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

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

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

AAFS (American Academy of Forensic Sciences)

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

New Standard

BSR/ASB Std 130-201x, Standard for Training in Forensic DNA Amplification Methods for Capillary Electrophoresis Sequencing (new standard)

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

Project Need: This document identifies the key elements of an effective training program for DNA amplification for capillary electrophoresis (CE) sequencing that promotes highly qualified DNA analysts. Currently, no consensus standards are published on this subject.

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.

BSR/ASB Std 131-201x, Standard for Training in Forensic DNA Sequencing using Capillary Electrophoresis (new standard)

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

Project Need: This document identifies the key elements of an effective training program for DNA sequencing using capillary electrophoresis that promotes highly qualified DNA analysts

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.

ABYC (American Boat and Yacht Council)

Contact: Sara Moulton, (410) 990-4460, smoulton@abycinc.org
613 Third Street, Suite 10, Annapolis, MD 21403

Revision

BSR/ABYC A-14-201x, Gasoline and Propane Gas Detection Systems (revision of ANSI/ABYC A-14-2015)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to gasoline and propane gas detection systems when installed on boats.

This standard is a guide for the design, construction, and installation of gasoline and propane gas detection and indicating equipment on boats.

BSR/ABYC A-24-201x, Carbon Monoxide Detection Systems (revision of ANSI/ABYC A-24-2015)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to carbon monoxide detection systems on boats.

This standard is a guide for the design, construction, and installation of carbon monoxide detection systems on boats.

BSR/ABYC A-31-201x, Battery Chargers and Inverters (revision of ANSI/ABYC A-31-2015)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to permanently installed marine battery chargers powered by less than 300 VAC providing current at a potential of 50 VDC or less and permanently installed DC to AC marine inverters supplying less than 300 V AC at a frequency of 50 or 60 Hz and permanently installed inverter/chargers supplying less than 300 VAC at a frequency of 50 or 60 Hz.

This standard is a guide for the design, construction, and installation of permanently installed marine alternating current (AC) battery chargers, power inverters, and inverter/chargers.

BSR/ABYC H-4-201x, Cockpit Drainage Systems (revision of ANSI/ABYC H-4-2015)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to all boats with cockpits.

This standard is a guide for the definition, design, and construction of cockpit drainage systems.

BSR/ABYC H-31-201x, Seat Structures (revision of BSR/ABYC H-31-201x)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to permanently installed seats in cockpits, deck areas, and all helm position(s), including their fastenings and structure to which they are attached.

This standard is a guide for the design, construction, installation, and testing of permanently installed seating systems in boats.

BSR/ABYC H-33-201x, Diesel Fuel Systems (revision of ANSI/ABYC H-33-2016)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to all parts of permanently installed diesel fuel systems from the fuel-fill opening to the point of connection to the propulsion engine and/or to any auxiliary equipment on all boats with diesel engines.

This standard is a guide for the design, choice of materials, construction, installation, repair, and maintenance of permanently installed diesel fuel systems.

BSR/ABYC P-14-201x, Mechanical Propulsion Control Systems (revision of ANSI/ABYC P-14-2016)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to mechanical remote control systems for boat propulsion machinery and its trim/tilt adjustment mechanisms.

This standard is a guide for the design, construction, testing, and installation of systems for mechanical remote control of the forward and reverse thrust, speed, and trim/tilt of propulsion machinery on boats.

BSR/ABYC S-7-201x, Boat Capacity Labels (revision of ANSI/ABYC S-7-2015)

Stakeholders: Consumers, surveyors, boat manufacturers, trade organizations, insurance personnel.

Project Need: This standard applies to boats less than 26 ft (8.0 m) in length, or as required to have capacity labels per ABYC Standards.

This industry conformity standard establishes methods for the display of capacity information on boats.

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 B40.300-20XX, Digital Instruments (new standard)

Stakeholders: Users, producers/manufacturers, designers.

Project Need: Develop a new standard on digital thermometers for industrial, process, commercial, and laboratory and test equipment.

This standard will cover digital thermometers for industrial, process, commercial, and laboratory and test equipment.

HI (Hydraulic Institute)

Contact: Peter Gaydon, (862) 242-5679, pgaydon@pumps.org
6 Campus Drive, 1st Floor North, Parsippany, NJ 07054

Revision

BSR/HI 9.6.5-201x, Rotodynamic Pumps - Guideline for Condition Monitoring (revision of ANSI/HI 9.6.5-2016)

Stakeholders: The guideline is applicable to all markets that utilize rotodynamic pumps. Specifically, end users that have responsible for the health and maintenance of rotating equipment are directly impacted.

Project Need: This project is needed to review and revise the current ANSI/HI 9.6.5-2016 to ensure the content is current.

HI 9.6.5 offers pump monitoring and failure detection techniques for rotodynamic pumps, both sealed and sealless designs. The guideline provides maintenance strategies and details items to be monitored for rotodynamic pumps, and provides information on how to determine appropriate warning and alarm levels.

IEEE (Institute of Electrical and Electronics Engineers)

Contact: Lisa Weisser, (732) 981-2864, l.weisser@ieee.org
445 Hoes Lane, Piscataway, NJ 08854-4141

New Standard

BSR/IEEE 260.4-201x, Standard Letter Symbols and Abbreviations for Quantities Used in Acoustics (new standard)

Stakeholders: Manufacturers of acoustic devices, other standards requiring the use of standard acoustic terminology, authors of publications needing a reference for standard letter symbols and abbreviations for acoustics.

Project Need: To bring this standard up to date with the current technology in acoustics and to remove normative text in the current standard that may be outside the scope of this project. There are tables on "light" that are not associated with acoustics and there may be other physical properties that may not pertain to acoustics that the WG for this revision project need to agree are within the Scope of this PAR.

To establish a standard set of letter symbols for quantities used in the science and technology of acoustics: also to establish standard abbreviations for a number of acoustical levels and related measures that are in common use. The science and technology of acoustics include sound, ultrasound, and infrasound in all media: gases, especially air; liquids, especially water; and solids are examples of media with which acoustics is concerned. There are many specialties in acoustics, a few of which are: speech, hearing, music, noise control, vibration, shock, and sonar.

IES (Illuminating Engineering Society)

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

New Standard

BSR/IES LP-6-201x, Lighting Practice: Lighting Control Systems - Properties, Selection and Specification (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, electrical engineers, light source, luminaire and lighting control manufacturers, regulatory agencies, code officials, the general public.

Project Need: This Lighting Practice document is intended to help designers, users, commissioning providers, and other interested parties understand energy-saving strategies, design considerations, equipment, the variety of organizing protocols and the importance of commissioning for lighting control systems installed in both interior and exterior applications in all types of buildings.

Lighting controls are an essential component of any lighting system, serving multiple purposes and ranging from simple user-activated switches to advanced scene controllers, automatic sensor-controlled systems, and networked digital control systems. In addition to basic on/off control, they are used to tailor lighting to space functions, tasks, and user preferences while enhancing comfort, performance, aesthetic appeal, and energy savings. For multicolor systems, such as red-green-blue (RGB) LEDs, the control system can vary source color.

BSR/IES LS-8-201x, Lighting Science: Vision - Perceptions and Performance (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, light source and luminaire manufacturers, test labs, lighting software designers, regulatory agencies, code officials, the general public.

Project Need: In the case of both perception and performance, psychophysics is the method of study; therefore, this document begins with a description of that science. From that, follow the principles and examples of perception and the recommendations that have been established according to the needs of visual performance.

Lighting is one of the components of the built environment that produces our visual perceptions and provides for human visual performance. Acting in concert with the geometry of architecture, lighting helps establish how people perceive, assess, and react to an environment. Lighting also renders text and objects visible, and so determines, in part, how well visual work can be performed, whether that means reading a book, operating a lathe, or driving a car. What humans perceive and how well they perform is very often in the hands of the lighting designer.

BSR/IES LP-11-201x, Lighting Practice: Environmental Considerations for Outdoor Lighting (new standard)

Stakeholders: Lighting practitioners, architects, landscape architects, light source and luminaire manufacturers, electrical engineers, environmentalists, regulatory agencies, code officials, the general public.

Project Need: The introduction of exterior lighting will often have a profound effect on the natural world. It may change complex ecosystems in ways that are not immediately obvious or easily discernable. For this reason, the first question should always be, is lighting necessary? This should be followed by, what is the specific task to be lighted, how much luminance is required, and for what duration? When designing exterior lighting the environmental effects should always be considered. Lighting is also a sustainability issue, since the energy consumed often comes from power generation that produces its own environmental impacts. While exterior lighting may be necessary for mobility, the feeling of safety, and commerce, used indiscriminately, the light pollution produced by it reduces the enjoyment of the natural nighttime sky, and may create biodiversity issues.

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.

BSR/IES LM-41-201x, Approved Method: Photometric Testing of Indoor Fluorescent Luminaires (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, electrical engineers, light source and luminaire manufacturers, lighting test labs, regulatory agencies, code officials, the general public.

Project Need: The rapid pace with which new lamps and control equipment are being introduced today, as well as the many variations of these components, make it necessary that any document such as this one, concerned with the technical utilization of these products, be reviewed and updated periodically. However, it should be recognized that because of limited experience with new products, this guide may not cover all of the eccentricities exhibited by a particular product. It also should be recognized that even with frequent revisions to the guide, recently introduced components with new characteristics may not be included.

This guide is intended to provide uniform guidance useful for evaluating the performance of fluorescent luminaires for general lighting. Luminaire characteristics are to be reported in terms of intensity distribution, flux distribution and efficiency. These performance data may be developed into factors and/or tables that allow the predetermination of illuminance and luminance for any conventional plane or boundary surface.

BSR/IES LM-45-201x, Approved Method: Electrical and Photometric Measurement of General Service Incandescent Filament Lamps (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, electrical engineers, light source and luminaire manufacturers, electrical contractors, regulatory agencies, code officials, the general public.

Project Need: This Approved Method describes the procedures to be followed and the precautions to be observed in obtaining uniform and reproducible measurements of the electrical and photometric characteristics of general service incandescent filament lamps under standard conditions. Measurement of incandescent reflector lamps is not included in this Approved Method.

Incandescent filament lamps produce radiant power as a result of electric current passing through a tungsten filament, which is surrounded by an inert atmosphere or vacuum within a glass or quartz envelope. Some lamps contain halogen gasses, which are employed to maintain a clean bulb wall. Such lamps may also employ bulb coatings that redirect infrared energy back to the filament to improve efficacy or to filter radiation for color control. As long as the filament remains intact, current will flow, heating the filament to incandescence. Since the desired incandescence occurs at high filament temperatures (in excess of 2,000° C), the surface of the tungsten filament is continually vaporized during lamp operation. As a result, the filament wire diameter is non-uniformly decreased along its length until, at some point, the high current density causes excessive local heating and vaporization, which causes the filament to fail. The rate of evaporation is dependent on the local filament temperature, and gas density and pressure.

BSR/IES LM-62-201x, Approved Method: Guide for Laboratory or Field Thermal Measurements of Fluorescent Lamps and Ballasts in Luminaires (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, light source and luminaire manufacturers, lighting test labs, regulatory agencies, code officials, the general public.

Project Need: This Approved Method, which is a revision of IESNA LM-62-06, Laboratory or Field Measurements of Fluorescent Lamps and Ballasts in Luminaires, is for luminaire designers and manufacturers to use in improving equipment performance. As an IES-Approved Method, it is intended as an aid to the designer when measuring operating temperature of lamps and ballasts in luminaires under either laboratory or field conditions.

This Approved Method covers only thermal measurement of fluorescent lamps and ballasts in luminaires. Its purpose is to aid luminaire designers in achieving optimum performance of these components in given applications. In addition to the general test procedures outlined in this document, lamp and ballast manufacturers' data sheets should always be consulted when possible. Manufacturers of these products often have technical guides available, detailing product-specific thermal test point locations and limits. Manufacturers should be contacted for these guides for the products used in the design.

BSR/IES LM-65-201x, Approved Method: Life Testing of Single-Based Fluorescent Lamps (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, electrical engineers, light source and luminaire manufacturers, regulatory agencies, code officials, the general public.

Project Need: This approved method describes the procedures to be followed and the precautions to be observed in order to obtain uniform and reproducible life test measurements of single-based compact fluorescent lamps and integrated electrodeless fluorescent lamps under standard conditions when operating on alternating current (AC) circuits. This document does not include linear, circular-shaped, or single-based U-bent fluorescent lamps.

The fluorescent lamp is an electric discharge source in which light is produced predominantly by fluorescent powders activated by ultraviolet energy generated by mercury atoms brought to an excited state by collision with electrons in a low-pressure rare-gas-mercury discharge or arc. There are two main ways to generate the electrical discharge. The most common is to pass a current through the gas via electrodes (cathodes) that are connected by wires through the glass envelope. The other way is to induce a current without the need of electrodes by use of high-frequency magnetic induction. This type of discharge source is commonly called an electrodeless discharge lamp.

BSR/IES LM-81-201x, Approved Method: Photometric Testing of Skylights and Tubular Daylighting Devices under Hemispherical Sky Conditions (new standard)

Stakeholders: Lighting practitioners, architects, interior designers, electric engineers, sustainability experts, regulatory agencies, home builders, the general public.

Project Need: The procedures contained in this document are a benefit to the lighting industry in characterizing the performance of daylighting products and are backed by significant experience using this measurement method. However, daylight photometry is in infancy stages of research, and further development of these methods will continue. In addition, further research is being conducted to compare measurements to simulation methods. Simulations of daylight system performance use predicted sky models from either the International Commission on Illumination (CIE) or IES and allow for the rapid comparisons of multiple design options or sky conditions. Further research will also be conducted to methods of achieving accurate luminous intensity distribution curves and efficiency data.

This Lighting Measurement (LM) document provides the IES recommended uniform method for determining and reporting the photometric characteristics of skylights and tubular daylighting devices that incorporate a means to diffuse the natural hemispherical daylight as the daylight passes through the daylighting system. It describes the procedures followed and the precautions observed in obtaining uniform and reproducible measurements of tubular daylighting devices and skylights with glass or plastic glazing. This document identifies the components and the structure type needed to adequately measure daylighting devices. The procedures, calibration of the equipment, and determination of sun angles and sky conditions are also discussed. This method is not recommended for daylight devices with clear glazing.

BSR/IES LM-86-201x, Approved Method: Measuring Luminous Flux and Color Maintenance of Remote Phosphor Components (new standard)

Stakeholders: Lighting practitioners, light source and luminaire manufacturers, lighting test labs, regulatory agencies, electrical engineers, building owners/operators, architects, interior designers, the general public.

Project Need: This Lighting Measurement (LM) document provides the method for measurement of luminous flux and color maintenance of remote phosphor components. The method describes the procedures to be followed and the precautions to be observed in order to obtain uniform and reproducible luminous flux and color maintenance measurements under standard operating conditions.

This Lighting Measurement (LM) document addresses the test method for measuring degradation behavior of the remote phosphor component. In addition to using the method of testing an entire remote-phosphor LED lamp or luminaire per IES LM-84-14, IES Approved Method for Measuring Luminous Flux and Color Maintenance of LED Lamps, Light Engines, and Luminaires, this LM provides an alternative method, whereby the separable remote phosphor component can be tested.

BSR/IES RP-36-201x, IES/NALMCO Recommended Practice: Lighting Maintenance (new standard)

Stakeholders: Lighting practitioners, electrical engineers, building owners/operators, building contractors, luminaire & light source manufacturers, regulatory agencies, code officials, the general public.

Project Need: This Recommended Practice examines common lighting maintenance procedures and the central components of an effective planned maintenance program. Specifically, it describes:

- Typical lighting system behavior, identifying those light loss factors that can be addressed by maintenance;
- Maintenance approaches that can optimize lighting-system performance;
- Ways in which designers should address maintenance;
- Typical maintenance techniques, equipment, and operations;
- Proper disposal of spent components; and
- Troubleshooting system problems.

How a lighting system will be maintained is important information for lighting designers, just as design information is important for maintenance personnel. Since the maintenance method influences the extent of expected light loss, it also relates to the amount of lumen output needed to maintain the required illuminance. In other words, if a well-maintained lighting system will result in a higher maintained illuminance, then fewer lumens are needed to produce the design level, which may translate to fewer and/or lower-wattage luminaires. This will reduce capital and energy costs.

NEMA (ASC C8) (National Electrical Manufacturers Association)

Contact: *Khaled Masri, (703) 841-3278, Khaled.Masri@nema.org*
1300 North 17th Street, Rosslyn, VA 22209

New Standard

BSR ICEA P-127-737-201x, Code Words for Overhead Aluminum Covered Conductors and 600 Volt Overhead Cables (new standard)

Stakeholders: Utility, power, municipal.

Project Need: Develop a new standard for Code Words for Overhead Aluminum Covered Conductors and 600 Volt Overhead Cables.

This publication includes a listing of code words for Overhead Aluminum-Covered Conductors and 600-Volt Overhead Cables.

BSR/ICEA P-124-736-201x, Code Words for 600V Underground Distribution Cable (new standard)

Stakeholders: Utility, power, municipal.

Project Need: Develop a new standard for Code Words for 600V Underground Distribution Cable.

This publication includes a listing of code words for 600-volt underground distribution cables covered by the ANSI/ICEA S-105-692 and S-81-570 Standards. Also included is a procedure for registering new code words and the details of the designation system. Code words are a means of identifying different sizes and types of conductors and cables in catalogs, orders, invoices and other production and sales records. A system of suffixes for code words provides designations for variations in construction, temper, and type of insulation. This publication builds upon a previously published Aluminum Association "Code Words for Underground Distribution Cables" document.

SPRI (Single Ply Roofing Industry)

Contact: *Linda King, (781) 647-7026, info@spri.org*
465 Waverley Oaks Road, Suite 421, Waltham, MA 02452

New Standard

BSR/SPRI/FM BRT-1-201x, Roofing Fastener and Stress Plate Pull-Through of Board Stock Materials (new standard)

Stakeholders: Roof system manufacturers, roofing component manufacturers (fasteners, stress plates, board stock materials), testing labs, accreditation bodies, certification services.

Project Need: This standard would allow comparative work to determine if new or different board stock materials would be acceptable substitutes for roofing assemblies without needing to perform full-scale, full-system tests at a much higher cost, etc.

This standard will allow the roofing industry to perform comparative small-scale testing of roofing fasteners and/or stress plates through board stock materials, such as insulations, cover boards, etc.

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-AGRSS (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 "Standards Activities," click on "Public Review and Comment" and "American National Standards Maintained Under Continuous Maintenance." This information is also available directly at www.ansi.org/publicreview

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at psa@ansi.org or via fax at 212-840-2298. If you request that information be provided via E-mail, please include your E-mail address; if you request that information be provided via fax, please include your fax number. Thank you.

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.

<p>AAFS American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 Phone: (719) 453-1036 Web: www.aafs.org</p>	<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (404) 636-8400 Web: www.ashrae.org</p>	<p>CSA CSA America Standards Inc. 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org</p>	<p>NEMA (ASC C12) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3227 Web: www.nema.org</p>
<p>AAMI Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 Phone: (703) 253-8274 Web: www.aami.org</p>	<p>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</p>	<p>CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech</p>	<p>NEMA (ASC C8) National Electrical Manufacturers Association 1300 North 17th Street Rosslyn, VA 22209 Phone: (703) 841-3278 Web: www.nema.org</p>
<p>ABYC American Boat and Yacht Council 613 Third Street Suite 10 Annapolis, MD 21403 Phone: (410) 990-4460 Web: www.abycinc.org</p>	<p>ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9744 Web: www.astm.org</p>	<p>ECIA Electronic Components Industry Association 13873 Park Center Road Suite 315 Herndon, VA 20171 Phone: (571) 323-0294 Web: www.ecianow.org</p>	<p>NFPA National Fire Protection Association One Batterymarch Park Quincy, MA 02169 Phone: (617) 984-7246 Web: www.nfpa.org</p>
<p>AISI American Iron and Steel Institute 3425 Drighton Court Bethlehem, PA 18020-1335 Phone: (610) 691-6334 Web: www.steel.org</p>	<p>AWS American Welding Society 8669 Doral Blvd Suite 130 Doral, FL 33166 Phone: (305) 443-9353 Web: www.aws.org</p>	<p>HI Hydraulic Institute 6 Campus Drive, 1st Floor North Parsippany, NJ 07054 Phone: (862) 242-5679 Web: www.pumps.org</p>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3817 Web: www.nsf.org</p>
<p>ALI Automotive Lift Institute PO Box 85 3699 Luker Road Cortland, NY 13045 Phone: (607) 756-7775 Web: www.autolift.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org</p>	<p>IEEE Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854-4141 Phone: (732) 981-2864 Web: www.ieee.org</p>	<p>PLATO Portable Lights American Trade Organization 1760 Portal Drive NE Warren, OH 44484 Phone: (330) 469-2727 Web: www.plato-usa.org</p>
<p>ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526 Phone: (708) 579-8268 Web: www.ans.org</p>	<p>BHMA Builders Hardware Manufacturers Association 355 Lexington Avenue, 15th Floor 15th Floor New York, NY 10017-6603 Phone: (860) 944-4264 Web: www.buildershardware.com</p>	<p>IEEE (ASC N42) Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 465-6640 Web: standards.ieee.org</p>	<p>SAWE Society of Allied Weights Engineers Phone: (703) 416-3626 Web: www.sawe.org</p>
<p>ASA (ASC S2) Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: www.acousticalsociety.org</p>	<p>CRRC Cool Roof Rating Council 2435 N. Lombard Street Portland, OR 97217 Phone: (503) 606-8448 503 Web: www.coolroofs.org</p>	<p>IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>	<p>SPRI Single Ply Roofing Industry 465 Waverley Oaks Road Suite 421 Waltham, MA 02452 Phone: (781) 647-7026 Web: www.spri.org</p>
<p>ASABE American Society of Agricultural and Biological Engineers 2950 Niles Road Saint Joseph, MI 49085 Phone: (269) 932-7027 Web: www.asabe.org</p>		<p>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</p>	<p>TCNA (ASC A108) Tile Council of North America 100 Clemson Research Blvd. Anderson, SC 29625 Phone: (864) 646-8453 Web: www.tcnatile.com</p>

TIA

Telecommunications Industry
Association

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

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



ISO Draft International Standards

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

COMMENTS

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted. The final date for offering comments is listed after each draft.

ORDERING INSTRUCTIONS

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

AIR QUALITY (TC 146)

ISO/DIS 16000-28, Indoor air - Part 28: Determination of odour emissions from building products using test chambers - 12/8/2019, \$102.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO 14040/DAMd1, Environmental management - Life cycle assessment - Principles and framework - Amendment 1 - 10/13/2019, \$29.00

ISO 14044/DAMd2, Environmental management - Life cycle assessment - Requirements and guidelines - Amendment 2 - 10/13/2019, \$40.00

FASTENERS (TC 2)

ISO/DIS 4042, Fasteners - Electroplated coating systems - 12/8/2019, \$125.00

FOOTWEAR (TC 216)

ISO/DIS 24267, Friction - Test methods for casual footwear and components - 12/8/2019, \$53.00

HEALTHCARE ORGANIZATION MANAGEMENT (TC 304)

ISO/DIS 22956, Healthcare organization management - Guidelines for patient centered staffing - 12/7/2019, \$53.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 2810, Paints and varnishes - Natural weathering - 12/8/2028, \$58.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO 2176/DAMd1, Petroleum products - Lubricating grease - Determination of dropping point - Amendment 1 - 10/12/2019, \$29.00

ISO 12925-1/DAMd1, Lubricants, industrial oils and related products (class L) - Family C (gears) - Part 1: Specifications for lubricants for enclosed gear systems - Amendment 1 - 9/26/2019, \$29.00

REFRIGERATION (TC 86)

ISO/DIS 21978, Heat pump water heater - Testing and rating at part load conditions and calculation on seasonal coefficient of performance for space heating - 12/8/2019, \$112.00

ROAD VEHICLES (TC 22)

ISO 17479/DAMd1, Motorcycles - Measurement methods for gaseous exhaust emissions during inspection or maintenance - Amendment 1 - 10/12/2019, \$29.00

ISO/DIS 22561, Gasoline engines with direct fuel injection (GDI engines) - Installation of the injectors to the engine - 12/8/2019, \$53.00

ISO/DIS 6621-3, Internal combustion engines - Piston rings - Part 3: Material specifications - 12/13/2019, \$33.00

ISO/DIS 20794-5, Road vehicles - Clock extension peripheral interface (CXPI) - Part 5: Application layer conformance test plan - 12/7/2019, \$146.00

ISO/DIS 20794-6, Road vehicles - Clock extension peripheral interface (CXPI) - Part 6: Transport and network layer conformance test plan - 12/7/2019, \$77.00

ISO/DIS 20794-7, Road vehicles - Clock extension peripheral interface (CXPI) - Part 7: Data link and physical layer conformance test plan - 12/7/2019, \$185.00

ISO/DIS 8820-10, Road vehicles - Fuse-links - Part 10: Fuse-links with tabs Type L (high current miniature) - 12/9/2019, \$58.00

TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

ISO/DIS 24617-2, Language resources management - Semantic annotation framework (SemAF) - Part 2: Dialogue acts - 12/7/2019, \$155.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 15792-2, Welding consumables - Test methods - Part 2: Preparation of single-run and two-run technique test specimens in steel - 12/7/2019, \$40.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 23531, Systems and software engineering - Capabilities of issue management tools - 12/12/2019, \$102.00



Newly Published ISO & IEC Standards

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

ISO Standards

ISO/IEC JTC 1 Technical Reports

[ISO/IEC TR 29110-5-6-3:2019](#), Systems and software engineering - Lifecycle profiles for Very Small Entities (VSEs) - Part 5-6-3: Systems engineering: Management and engineering guide: Generic profile group: Intermediate profile, \$232.00

AIRCRAFT AND SPACE VEHICLES (TC 20)

[ISO 8267-2:2019](#), Aircraft - Tow bar attachment fittings interface requirements - Part 2: Regional aircraft, \$45.00

BUILDING CONSTRUCTION (TC 59)

[ISO 16938-1:2019](#), Buildings and civil engineering works - Determination of the staining of porous substrates by sealants used in joints - Part 1: Test with compression, \$68.00

[ISO 16938-2:2019](#), Buildings and civil engineering works - Determination of the staining of porous substrates by sealants used in joints - Part 2: Test without compression, \$68.00

FASTENERS (TC 2)

[ISO 10642:2019](#), Fasteners - Hexagon socket countersunk head screws with reduced loadability, \$68.00

METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 21968:2019](#), Non-magnetic metallic coatings on metallic and non-metallic basis materials - Measurement of coating thickness - Phase-sensitive eddy-current method, \$185.00

[ISO 28721-1:2019](#), Vitreous and porcelain enamels - Glass-lined apparatus for process plants - Part 1: Quality requirements for apparatus, components, appliances and accessories, \$103.00

NUCLEAR ENERGY (TC 85)

[ISO 11665-1:2019](#), Measurement of radioactivity in the environment - Air: radon-222 - Part 1: Origins of radon and its short-lived decay products and associated measurement methods, \$162.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 14490-9:2019](#), Optics and photonics - Test methods for telescopic systems - Part 9: Test methods for field curvature, \$45.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

[ISO/PAS 23263:2019](#), Petroleum products - Fuels (class F) - Considerations for fuel suppliers and users regarding marine fuel quality in view of the implementation of maximum 0,50% sulfur in 2020, \$68.00

POWDER METALLURGY (TC 119)

[ISO 4489:2019](#), Hardmetals - Sampling and testing, \$45.00

[ISO 4884:2019](#), Hardmetals - Sampling and testing of powders using sintered test pieces, \$45.00

ROAD VEHICLES (TC 22)

[ISO 6626-3:2019](#), Internal combustion engines - Piston rings - Part 3: Coil-spring-loaded oil control rings made of steel, \$138.00

SOIL QUALITY (TC 190)

[ISO 11274:2019](#), Soil quality - Determination of the water-retention characteristic - Laboratory methods, \$138.00

[ISO 25177:2019](#), Soil quality - Field soil description, \$185.00

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

[ISO 8536-4:2019](#), Infusion equipment for medical use - Part 4: Infusion sets for single use, gravity feed, \$103.00

WELDING AND ALLIED PROCESSES (TC 44)

[ISO 9455-3:2019](#), Soft soldering fluxes - Test methods - Part 3: Determination of acid value, potentiometric and visual titration methods, \$45.00

[ISO 9455-16:2019](#), Soft soldering fluxes - Test methods - Part 16: Flux efficacy test, wetting balance method, \$138.00

ISO Technical Reports

GAS CYLINDERS (TC 58)

[ISO/TR 13086-4:2019](#), Gas cylinders - Guidance for design of composite cylinders - Part 4: Cyclic fatigue of fibres and liners, \$138.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO/TR 21958:2019](#), Ophthalmic optics - Review of the test methods used to assess scratch and abrasion resistance of spectacle lenses, \$138.00

ISO Technical Specifications

NON-DESTRUCTIVE TESTING (TC 135)

[ISO/TS 25107:2019](#), Non-destructive testing - NDT training syllabuses, \$232.00

PROJECT COMMITTEE: ASSET MANAGEMENT (TC 251)

[ISO/TS 55010:2019](#), Asset management - Guidance on the alignment of financial and non-financial functions in asset management, \$185.00

ROAD VEHICLES (TC 22)

[ISO/TS 19072-5:2019](#), Road vehicles - Connection interface for pyrotechnic devices, two-way and three-way connections - Part 5: Pyrotechnic device and harness connector assembly - Type 3 (only two-way), \$68.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 29192-6:2019](#), Information technology - Lightweight cryptography - Part 6: Message authentication codes (MACs), \$138.00

IEC Standards**AUDIO, VIDEO AND MULTIMEDIA SYSTEMS AND EQUIPMENT (TC 100)**

[IEC 62680-1-5 Ed. 1.0 b:2019](#), Universal serial bus interfaces for data and power - Part 1-5: Common components - USB Audio 3.0 device class definition, \$410.00

[IEC 62680-1-6 Ed. 1.0 b:2019](#), Universal serial bus interfaces for data and power - Part 1-6: Common components - USB Audio 3.0 device class definition basic functions, \$281.00

[IEC 62680-1-7 Ed. 1.0 b:2019](#), Universal serial bus interfaces for data and power - Part 1-7: Common components - USB Audio 3.0 device class definition data formats, \$199.00

[IEC 62680-1-8 Ed. 1.0 b:2019](#), Universal serial bus interfaces for data and power - Part 1-8: Common components - USB Audio 3.0 device class definition terminal types, \$82.00

AUTOMATIC CONTROLS FOR HOUSEHOLD USE (TC 72)

[IEC 60730-2-6 Ed. 3.1 b:2019](#), Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements, \$322.00

[IEC 60730-2-6 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements, \$12.00

ELECTRIC TRACTION EQUIPMENT (TC 9)

[IEC 62290-3 Ed. 1.0 b:2019](#), Railway applications - Urban guided transport management and command/control systems - Part 3: System requirements specification, \$410.00

ELECTRICAL INSTALLATIONS OF BUILDINGS (TC 64)

[IEC 60364-7-721 Ed. 2.0 b:2017](#), Low-voltage electrical installations - Part 7-721: Requirements for special installations or locations - Electrical installations in caravans and motor caravans, \$164.00

FIBRE OPTICS (TC 86)

[IEC 62077 Ed. 3.0 b:2015](#), Fibre optic interconnecting devices and passive components - Fibre optic circulators - Generic specification, \$164.00

[IEC 60793-1-43 Ed. 2.0 b:2015](#), Optical fibres - Part 1-43: Measurement methods and test procedures - Numerical aperture measurement, \$117.00

[IEC 61300-3-14 Ed. 3.0 b:2014](#), Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-14: Examinations and measurements - Error and repeatability of the attenuation settings of a variable optical attenuator, \$82.00

[IEC 61300-3-21 Ed. 3.0 b:2019](#), Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time, \$47.00

[S+ IEC 61300-3-21 Ed. 3.0 en:2019 \(Redline version\)](#), Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 3-21: Examinations and measurements - Switching time, \$61.00

FUSES (TC 32)

[IEC 60644 Ed. 2.1 b:2019](#), Specification for high-voltage fuse-links for motor circuit applications, \$123.00

[IEC 60644 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Specification for high-voltage fuse-links for motor circuit applications, \$12.00

MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)

[IEC 62025-2 Ed. 2.0 b:2019](#), High frequency inductive components - Non-electrical characteristics and measuring methods - Part 2: Test methods for non-electrical characteristics, \$164.00

[S+ IEC 62025-2 Ed. 2.0 en:2019 \(Redline version\)](#), High frequency inductive components - Non-electrical characteristics and measuring methods - Part 2: Test methods for non-electrical characteristics, \$213.00

PERFORMANCE OF HOUSEHOLD ELECTRICAL APPLIANCES (TC 59)

[IEC 63136 Ed. 1.0 b:2019](#), Electric dishwashers for commercial use - Test methods for measuring the performance, \$235.00

POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)

[IEC 61850-7-420 Ed. 1.0 b:2009](#), Communication networks and systems for power utility automation - Part 7-420: Basic communication structure - Distributed energy resources logical nodes, \$375.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-32 Ed. 5.0 b:2019](#), Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances, \$117.00

[IEC 60335-2-105 Ed. 2.1 b:2019](#), Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets, \$176.00

[IEC 60335-2-105 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets, \$12.00

[S+ IEC 60335-2-32 Ed. 5.0 en:2019 \(Redline version\)](#), Household and similar electrical appliances - Safety - Part 2-32: Particular requirements for massage appliances, \$152.00

SEMICONDUCTOR DEVICES (TC 47)

[IEC 60747-7 Ed. 3.1 b:2019](#), Semiconductor devices - Discrete devices - Part 7: Bipolar transistors, \$528.00

[IEC 60747-7 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Semiconductor devices - Discrete devices - Part 7: Bipolar transistors, \$12.00

[IEC 60749-4 Ed. 2.0 b:2017](#), Semiconductor devices - Mechanical and climatic test methods - Part 4: Damp heat, steady state, highly accelerated stress test (HAST), \$47.00

[IEC 60749-5 Ed. 2.0 b:2017](#), Semiconductor devices - Mechanical and climatic test methods - Part 5: Steady-state temperature humidity bias life test, \$47.00

[IEC 60749-6 Ed. 2.0 b:2017](#), Semiconductor devices - Mechanical and climatic test methods - Part 6: Storage at high temperature, \$23.00

[IEC 60749-9 Ed. 2.0 b:2017](#), Semiconductor devices - Mechanical and climatic test methods - Part 9: Permanence of marking, \$47.00

SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)

[IEC 62979 Ed. 1.0 b:2017](#), Photovoltaic modules - Bypass diode - Thermal runaway test, \$82.00

SURFACE MOUNTING TECHNOLOGY (TC 91)

[IEC 62090 Ed. 2.0 b:2017](#), Product package labels for electronic components using bar code and two-dimensional symbologies, \$235.00

[IEC 61191-3 Ed. 2.0 b:2017](#), Printed board assemblies - Part 3: Sectional specification - Requirements for through-hole mount soldered assemblies, \$117.00

[IEC 61189-5-503 Ed. 1.0 b:2017](#), Test methods for electrical materials, printed board and other interconnection structures and assemblies - Part 5-503: General test method for materials and assemblies - Conductive anodic filaments (CAF) testing of circuit boards, \$164.00

ULTRASONICS (TC 87)

[IEC 60565-2 Ed. 1.0 b:2019](#), Underwater acoustics - Hydrophones - Calibration of hydrophones - Part 2: Procedures for low frequency pressure calibration, \$317.00

WINDING WIRES (TC 55)

[IEC 60851-5 Ed. 4.2 b:2019](#), Winding wires - Test methods - Part 5: Electrical properties, \$293.00

[IEC 60851-5 Amd.2 Ed. 4.0 b:2019](#), Amendment 2 - Winding wires - Test methods - Part 5: Electrical properties, \$12.00

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.

ANSI Accredited Standards Developers

Approval of Accreditation as an ANSI ASD

Argentum – Expanding Senior Living

ANSI's Executive Standards Council has approved Argentum – Expanding Senior Living, a new ANSI member in 2019, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on Argentum-sponsored American National Standards, effective September 23, 2019. For additional information, please contact: Mr. John Schulte, Vice-President, Quality Management, Argentum, 1650 King Street, 6th Floor, Alexandria, VA 22314; phone: 571.527.2623; e-mail: jschulte@argentum.org.

Approval of Reaccreditation

Cool Roof Rating Council (CRRC)

ANSI's Executive Standards Council has approved the reaccreditation of the Cool Roof Rating Council (CRRC), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on CRRC-sponsored American National Standards, effective September 24, 2019. For additional information, please contact: Ms. Mischa Egolf, Technical Manager, Cool Roof Rating Council, 2435 Lombard Street, Portland, OR 97217; phone: 503.606.8448, ext. 503; e-mail: mischa@coolroofs.org.

Institute of Inspection, Cleaning and Restoration Certification (IICRC)

ANSI's Executive Standards Council has approved the reaccreditation of the Institute of Inspection, Cleaning and Restoration Certification (IICRC), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on IICRC-sponsored American National Standards, effective September 24, 2019. For additional information, please contact: Ms. Mili Washington, CStd, Standards Director, IICRC Global Resource Center, 4043 S. Eastern Avenue, Las Vegas, NV 89119; phone: 702.430.9829; e-mail: mwashington@iicrcnet.org.

Reaccreditation

APA – The Engineered Wood Association

Comment Deadline: October 28, 2019

APA – The Engineered Wood Association, an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on APA-sponsored American National Standards, under which it was last reaccredited in 2017. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Borjen ("BJ") Yeh, Ph.D., P.E., F.ASTM, Director, Technical Services Division, APA, 7011 South 19th Street, Tacoma, WA 98466-5333; phone: 253.620.7467; e-mail: borjen.yeh@apawood.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR. Please submit any public comments on the revised procedures to APA by October 28, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: Jthomps@ANSI.org).

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 202/SC 1 – Microbeam Analysis
Terminology

Comment Deadline: October 11, 2019

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 202/SC 1 – Terminology. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 202/SC 1 to ASTM International. ASTM International has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 202/SC 1 operates under the following scope:

Development of Terminology standards within the scope of ISO/TC 202 – Microbeam analysis:

Standardization in the field of microbeam analysis (measurement, parameters, methods and reference materials) which uses electrons as an incident beam and electrons and photons as the detection signal.

Note: The purpose is to analyze the compositional and structural characteristics of solid materials. The volume of analysis will generally involve a depth up to 10 micrometers and a surface area less than 100 square micrometers.

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 202. 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 202 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by October 11, 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).

Establishment of a New ISO Project Committee

ISO/PC 325 – Sex toys – Design and safety requirements for products in direct contact with genitalia, the anus, or both

A new ISO Project Committee, ISO/PC 325 – Sex toys – Design and safety requirements for products in direct contact with genitalia, the anus, or both, has been formed. The Secretariat has been assigned to Sweden (SIS).

ISO/PC 325 operates under the following scope:

This document specifies safety and user information requirements relating to the materials and design for products intended for sexual use. This document covers only products that are intended to come in direct contact with genitals and/or the anus. This document is not primarily intended for products classified as medical devices or assistive products.

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).

Establishment of a New ISO Technical Committee ISO/TC 287 – Sustainable processes for wood and wood-based products

A new ISO Technical Committee, ISO/TC 287 – Sustainable processes for wood and wood-based products, has been formed. The Secretariat has been assigned to Germany (DIN).

ISO/TC 287 operates under the following scope:

Standardization in the field of the wood and wood-based industries, including but not limited to sustainability and renewability aspects, chain of custody, timber tracking and timber measurement, across the entire supply chain from biomass production to the finished wood and wood-based products.

Excluded: those applications covered by ISO/TC6 "Paper, board and pulps"; ISO/TC89 "Wood-based panels"; ISO/TC 165 "Timber structures"; ISO/TC 218 "Timber"; and ISO/TC 207 "Environmental management".

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

Meeting Notices

ANSI-Accredited U.S. TAG to ISO/TC 229 – Nanotechnologies

The ANSI-Accredited U.S. TAG to ISO/TC 229 – Nanotechnologies will meet on October 17-18, 2019, at ANSI's Headquarters in Washington, DC. For additional information or to join the U.S. TAG, please contact Heather Benko (hbenko@ansi.org) at ANSI.



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ASME B89.7.6-20XX – Guidelines for the Evaluation of Uncertainty of Test Values Associated With the Verification of Dimensional Measuring Instruments to Their Performance Specifications
Record #17-2028

1 SCOPE

This Standard provides ~~the procedures~~ guidelines for evaluating the uncertainty of test values obtained when verifying dimensional ...

2 REFERENCES

~~ANSI/NCSL Z540-2, U.S. Guide to the Expression of Uncertainty in Measurement
Publisher: National Conference of Standards Laboratories International (NCSLI), 5766 Central Avenue, Suite 150, Boulder, CO 80301 (www.ncsli.org)~~

ASME B89.1.13-2013 Micrometers

ASME B89.1.14-2018 Calipers

ASME B89.4.10360.2-~~2008~~, Acceptance Test and Reverification Test for Coordinate Measuring Machines (CMMs) Part 2: CMMs Used for Measuring Linear Dimensions (Technical Report)

ASME B89.7.1-~~2016~~, Guidelines for Addressing Measurement Uncertainty in the Development and Application of ASME B89 Documents

ASME B89.7.2-201~~4~~3, Dimensional Measurement Planning

ASME B89.7.3.1-2001, Guidelines to Decision Rule: Considering Measurement Uncertainty in Determining Conformance to Specifications

ASME B89.7.3.2-~~2007~~, Guidelines for the Evaluation of Dimensional Measurement Uncertainty

ASME B89.7.3.3-201~~7~~9~~2~~, Guidelines for Assessing the Reliability of Dimensional Measurement Uncertainty Statements

ASME B89.7.4.1-2005, Measurement Uncertainty and Conformance Testing: Risk Analysis

ASME B89.7.5-2006, Metrological Traceability of Dimensional Measurement to the SI Unit of Length

ASME Y14.5-~~2018~~, Dimensioning and Tolerancing

Publisher: The American Society of Mechanical Engineers (ASME), Two Park Avenue, New York, NY 10016-5990 (www.asme.org)

JCGM 100:2008 Evaluation of measurement data – Guide to the expression of uncertainty in measurement (GUM)

JCGM 200:2012, International vocabulary of metrology – Basic and general concepts and associated terms (VIM)

Publisher: Bureau International des Poids et Mesures (BIPM), Pavillon de Breteuil F-92312, Sèvres, Cedex, France (www.bipm.org)

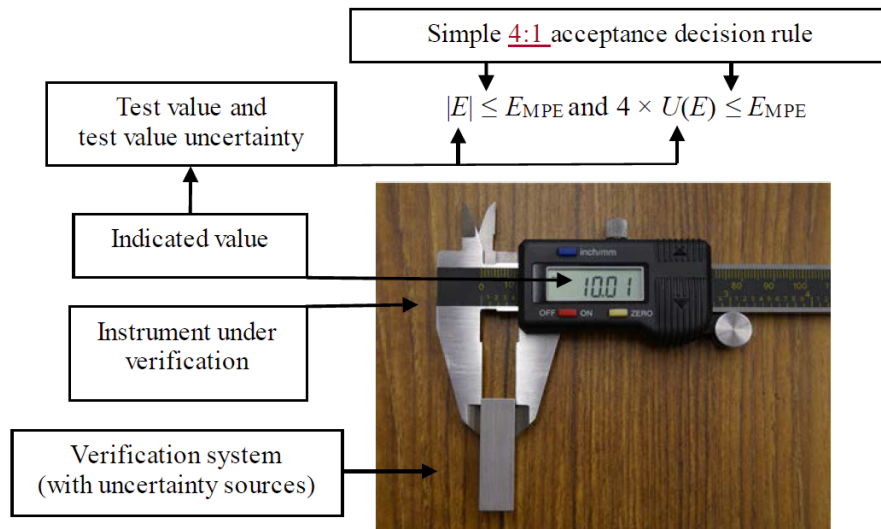
4.1 Introduction

...The uncertainty of a workpiece measurement, having a measurand similar to that used in the ASME B89 testing protocol and obtained within the rated conditions of the instrument, is primarily determined by the instrument's MPE....

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Figure 4.1-1 A Caliper Under Verification to Its MPE Specification by a Verification System Composed of Calibrated Gauge Blocks Using a Simple Acceptance Decision Rule



4.3 Test Conditions

...Conceptually, the correction creates an indicated value that is associated with conditions within the rated operating conditions and hence can be compared to the MPE. For example, ASME B89.1.13 has (for historical reasons) defined the test measurand as the measurement error of a micrometer at (and only at) 20°C...

5.2 Test Value Uncertainty When Test Conditions Are Within the Rated Operating Conditions

...Since there is no uncertainty in the indicated value, the test value uncertainty is solely associated with the verification system. In the example of Figure 4.4-1 Using the example in Nonmandatory Appendix A of a CMM length test per ASME B89.4.10360.2, the verification system is composed of a calibrated gauge block and the uncertainty in the block's calibrated value at the moment of testing is a contributor to the test value uncertainty...It is also noteworthy to point out that there are no thermal uncertainties associated with the length of the gauge block in Figure 4.1-1. The instrument under verification (the caliper CMM) should produce an indicated value that yields the gauge block's length, which is defined by ISO 1 to be its length at 20°C...

5.3.4 Test Conditions Outside the Rated Operating Conditions Due to the Ambient Temperature

(a) A simple example is the verification of a micrometer made entirely of steel. (A steel caliper could also be used per ASME B89.1.14.)...

...The uncertainty of the correction is $L|T - 20^\circ\text{C}|\sqrt{u^2(\alpha_1) + u^2(\alpha_R)}$; the GUM evaluation will also show that the temperature and reference length uncertainties do not contribute any test value uncertainty in this example because $\alpha_1 = \alpha_R$...

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A-1 INTRODUCTION

...The temperature at the time of testing is 23°C, which is within the rated operating conditions. Other rated operating conditions are satisfied, such as the probe configuration and general operation of the CMM, using the procedures given in the manufacturer's operating manual including machine start-up, warm-up cycles, and probing system qualification...

A-4 REFERENCE VALUE DEGRADATION

... The rated operating conditions for the MPE require noninfluencing reference standard fixturing; hence flimsy fixturing that deflects under fixturing forces, gravity, or CMM probing forces is a test value uncertainty source. If the CMM measurement is aligned (which is permitted by the test protocol) relying on the parallelism of the gauge block faces, then the imperfect parallelism is a test value uncertainty source. If the CMM requires knowledge of the mechanical properties...

Table A-1-1 Test Value Uncertainty for Test Values Obtained Using a 500-mm Calibrated Gauge Block and a Test Condition of 23°C

Test Value Uncertainty Sources	Standard Uncertainty, <u>μm</u>
Reference value (calibration certificate)	0.25
Reproducibility and resolution (fixture vibration)	0.1
Deformation (of gauge and fixture)	0.3
Thermal considerations (CTE)	0.9
Combined standard test value uncertainty	1.0
Expanded test value uncertainty ($k = 2$)	2.0

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

NSF/ANSI Standard
for Food Equipment –

Commercial Warewashing Equipment

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7 Manufacturer's specifications

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7.2 Chemical sanitizing machines

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7.2.3 The type of chemical sanitizing solution specified by the manufacturer shall be among those listed in 40 CFR §180.940. The recommended use concentrations shall comply with Table 6.1. Recommended use concentrations of sanitizers not included in Table 6.1 shall comply with part (a) of 40 CFR §180.940, or shall comply with the registered use label applicable to the authority having jurisdiction, such as EPA or Health Canada.

***Rationale:** Current language of the standard does not address the concentration of the sanitizers used in chemical warewashing machines other than those detailed in table 6.1. Addition of this language will ensure that sanitizers and concentrations recommended by machine manufacturers are in accordance with the concentration requirements indicated in 40 CFR, or the registered use label. This harmonizes this Standard and the FDA Food Code section 4-501.114, which states: "If a chemical sanitizer other than chlorine, iodine, or a quaternary ammonium compound is used, it shall be applied in accordance with the EPA-registered label use instructions."*

This a reminder that the language under consideration is applicable to the type of chemical and concentration that is required to be indicated on the data plate of new machines and is not intended as a local regulatory requirement.

BSR/UL 60320-1, Appliance Couplers for Household and Similar General Purposes – Part 1: General Requirements

1. Correction of Requirements for Clauses 5.3 “Failures” and 5.4 “Routine tests”

5.3 Failures

In general, only the test which caused the failure need be repeated unless

- a) a failure occurs to one of the three test samples when tested in accordance with Clauses 19, 20 or 21, in which case the tests are repeated from Clause 16 onwards; or
- b) a failure occurs to one of the three test samples when tested in accordance with Clauses 22 or 23 (except 22.3), in which case the tests are repeated from Clause 18 onwards.

The applicant may submit, together with the first set of test samples, the additional set which may be wanted should one test sample fail. The testing station will then, without further request, test the additional test samples and will only reject if a further failure occurs. If the additional set of test samples is not submitted at the same time, a failure of one test sample will entail a rejection.

5.3DV D1 Delete Clause 5.3:

This clause is not applicable.

5.4 Routine tests

Routine tests are specified in Annex B.

5.4DV D1 Delete Clause 5.4:

This clause is not applicable.

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BSR/UL 248-19, Standard for Safety Low-Voltage Fuses – Part 19: Photovoltaic Fuses**1. Clarification to Inductance Requirement for Operation at Rated Voltage Test****6.4 Verification of operation at rated voltage**

6.4.1 In the Standard for Low-Voltage Fuses – Part 1: General Requirements, CSA C22.2 No. 248-1 / UL 248-1, the following from Table 6, Verification of operation at rated voltage for DC shall apply:

- a) Test 1 – 10kA or higher; the test circuit shall have an inductance of 100 μH ($\pm 10\%$)
- b) Test 5c – 2 In; the test circuit shall have an inductance of 100 μH ($\pm 10\%$)

An inductance higher than 110% micro-henries may be used if agreeable to the submitter and testing agency.

The inductance shall be calculated using the following equation - $L = \tau \cdot (V/I)$

Where L is the calculated inductance, V is the measured test voltage, I is the measured steady state test current and tau is the measured time constant.

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BSR/UL 913, Standard for Safety for *Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations*

1. Revisions addressing the use of the Seventh Edition of UL 60079-0 recently published in March 2019 based on the responses to comments received on the Proposal dated August 9, 2019.

PROPOSAL

7.1.4 * Intrinsically safe apparatus for use in Class II, Groups E, F, and G locations not enclosed in a dust-tight enclosure complying with the requirements in [7.2.1](#) – [7.2.3](#) shall comply with the spark ignition requirements specified in [7.1.3](#). In this case, it is to be assumed that all spacings do not comply with the separation distance requirements specified in UL 60079-11:2013 and that all connections between live or grounded parts and conductors are in the most unfavorable condition. The number of such connections is unlimited.

Exception: Intrinsically safe apparatus for use in Class II, Group E locations need not be enclosed in a dust-tight enclosure complying with the requirements in [7.2.1](#) – [7.2.3](#) when the apparatus complies with the UL 60079-11:2013 requirements for total immersion, or uncontrolled dust layer thickness.

7.2.1 * For the purposes of this standard, an enclosure is considered dust-tight if it:

- a) Complies with the requirements in [7.2.2](#) or [7.2.3](#); or
- b) Complies with the requirements in the Dust-Tight Enclosure Test, Section [8](#); or
- c) Is dust-ignition-proof.

In addition, a portable apparatus shall be dust-tight after being subjected to the Drop Test described in UL 60079-0:2013.

2. Revisions permitting the Group III requirements in UL 60079-0 and UL 60079-11 as an alternative to the Class II and III requirements based on the responses to comments received on the Proposal dated August 9, 2019.

PROPOSAL

7.1.1 Intrinsically safe apparatus and associated wiring for Class II and Class III locations shall comply with the requirements in Sections 1 - 5 in this standard, as applicable and shall also comply with the requirements of 7.1.2 and either 7.1.3 or 7.1.4.

Exception: Intrinsically safe apparatus and associated apparatus for Class II and Class III locations may comply with the following as applicable, except that the marking shall meet the requirements of Section 10:

a) For Class II, Division 1, Group E marking: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIC, level of protection "ia".

b) For Class II, Division 1, Group F, Group G or both Groups F and G marking: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIB or IIIC, level of protection "ia".

c) For Class III locations: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIA, IIIB or IIIC, level of protection "ia", and with a temperature class of not greater than T165°C (for equipment not subject to overloading).

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BSR/UL 2703, Standard for Safety for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels

1. Revisions to Clarify and Correct the Definition for Yield Strength.

2.46 YIELD STRENGTH – The stress at which a material transitions from elastic deformation to plastic deformation (causing permanent deformation). This transition is commonly determined by the stress that will cause 0.02 0.2% permanent deformation of the original dimension strain in high strength materials.

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BSR/UL 62841-2-5, Standard for Safety for *Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 2-5: Particular Requirements for Hand-Held Circular Saws*

1. Proposed Revisions To Clause 17.102.3DV.2 To Clarify The Requirements

17.102.3 For a saw intended to cut materials such as plastic, ferrous metal or masonry in accordance with 8.14.2 b) 104), a new saw sample for each specified material is subjected to the tests as specified below.

- *Plastics: 1 000 cuts through PVC. The thickness and length of the material may vary in size, provided the cross sectional area of each cut is at least $0,012 D^2$.*

NOTE 1 The above formula simulates the cross sectional area of typical PVC pipes of a diameter approximately equal to 2/3 of the **maximum depth of cut** of the saw. Sawing of such pipes is the predominant application for plastic.

- *Ferrous metals: 200 cuts through soft steel. The thickness and length of the material may vary in size, provided the cross sectional area of each cut is at least $0,13 D^{1,46}$ in mm^2 , where **D** is measured in mm.*

NOTE 2 The above formula simulates the cross sectional area of typical metal pipes of a diameter approximately equal to 1/2 of the **maximum depth of cut** of the saw. Sawing of such pipes is the predominant application for metal.

- *Masonry: 500 cuts through masonry fibreboard (fibre cement board). The thickness and length of the fibreboard may vary in size, provided the thickness of the material is minimum 10 mm and the cross sectional area of each cut is at least 30 mm times **D**.*

*Each cut is made with the saw set to 0° **bevel angle**. The depth of cut, the saw blade and the rate of sawing shall be as specified for the respective material. An external dust extraction system attached to the saw shall not be used. A non-detachable dust collection system shall be maintained per 8.14.2 b) 105).*

NOTE 3 Use of personal protective equipment will help to protect the operator during these tests.

*During each cut, the **lower guard** or the **guarding system** shall cycle from the fully closed position to the maximum open working position for each cutting cycle, without manual assistance. Moreover, for **plunge type saws** with a spring loaded **riving knife**, the **riving knife** shall cycle from its fully extended to the fully retracted position.*

*If the **lower guard**, **guarding system** or the **riving knife** fails to return to its normal position at any time during the test, this is considered a failure.*

After completion of all cuts as specified above, the saw is conditioned for 24 h in air at a relative humidity of (93 ± 3) %. The temperature of the air is maintained within 2 K of any convenient value between 20 °C and 30 °C.

The saw shall then comply with the tests of 17.101.2 and 17.101.3.

17.102.3DV.1 D1 Modification: Replace the first paragraph of Clause 17.102.3 of the Part 2 with the following:

For a saw intended to cut materials such as plastic, ~~ferrous and non-ferrous metal or masonry~~ in accordance with 8.14.2 b) 104), a new saw sample for each specified material is subjected to the tests as specified below.

17.102.3DV.2 D1 Modification: Replace the item under Note 1 of Clause 17.102.3 of the Part 2 with the following:

- ~~Ferrous and non-ferrous~~ metals: 200 cuts through one sample material of ferrous metal, if applicable, in accordance with 8.14.2 (b) (104) soft steel. The thickness and length of the material may vary in size, provided the cross sectional area of each cut is at least $0,13 D^{1,46}$ in mm^2 , where D is measured in mm.

17.102.3DV.3 D1 Modification: Add the following item under Note 2 of Clause 17.102.3 of the Part 2:

- Non-ferrous metals: 200 cuts through one sample material of non-ferrous metal, if applicable, in accordance with 8.14.2 b) 104). The thickness and length of the material may vary in size, provided the cross sectional area of each cut is at least $0,13 D^{1,46}$ in mm^2 , where D is measured in mm.

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