

Contents

American National Standards

Call for Comment on Standards Proposals	2
Call for Members (ANS Consensus Bodies)	13
Final Actions	17
Project Initiation Notification System (PINS)	18
ANS Maintained Under Continuous Maintenance	24
ANSI-Accredited Standards Developers Contact Information	25

International Standards

ISO and IEC Draft Standards	26
ISO and IEC Newly Published Standards	29
Registration of Organization Names in the U.S.	32
Proposed Foreign Government Regulations	32
Information Concerning	33

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: July 14, 2019

NSF (NSF International)

Revision

BSR/NSF 7-201x (i20r3), Commercial Refrigerators and Freezers (revision of ANSI/NSF 7-2016)

This Standard contains requirements for refrigerators and freezers used to store and/or display cold food. The types of refrigerators and freezers covered by this Standard include, but are not limited to: storage refrigerators (e.g., reach-in, under counter, walk-in, roll-in); storage freezers (e.g., reach-in, under counter, walk-in, roll-in); rapid pull-down refrigerators and freezers; refrigerated food transport cabinets; refrigerated buffet units; refrigerated food preparation units; display refrigerators; beverage coolers; and ice cream cabinets.

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

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

BSR/NSF 330-201x (i10r1), Glossary of Drinking Water Treatment Unit Terminology (revision of ANSI/NSF 330-2018)

This Standard establishes definitions for drinking-water treatment units and related components.

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

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

BSR/NSF/CAN 60-201x (i82r1), Drinking Water Treatment Chemicals - Health Effects (revision of ANSI/NSF/CAN 60-2018)

This Standard establishes minimum health effects requirements for the chemicals, the chemical contaminants, and the impurities that are directly added to drinking water from drinking-water treatment chemicals. This Standard does not establish performance or taste and odor requirements for drinking-water treatment chemicals.

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

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

BSR/NSF/CAN 61-201x (i142r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2018)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking-water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking-water system products, components, or materials.

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

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

BSR/NSF/CAN 61-201x (i149r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2018)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking-water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking-water system products, components, or materials.

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

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

BSR/NSF/CAN 61-201x (i151r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2018)

This Standard establishes minimum health effects requirements for the chemical contaminants and impurities that are indirectly imparted to drinking water from products, components, and materials used in drinking-water systems. This Standard does not establish performance, taste and odor, or microbial growth support requirements for drinking-water system products, components, or materials.

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

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

RVIA (Recreational Vehicle Industry Association)

New Standard

BSR/RVIA EXTLAD-1-201x, Recommended Practice Laboratory Test Procedures for Exterior Ladders on Recreational Vehicles (new standard)

The purpose of this recommended practice is to provide minimum safety criteria through uniform testing of exterior ladders by the ladders manufacturers and by the recreational vehicle manufacturers for ladders that are installed and used on the exterior of recreational vehicles.

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

Send comments (with optional copy to psa@ansi.org) to: Kent Perkins; kperkins@rvia.org

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 8800-201x, Standard for Safety for Horticultural Lighting Equipment and Systems (new standard)

This proposal for UL 8800 covers: (1) Proposed adoption of the first edition of the Standard for Horticultural Lighting Equipment and Systems, UL 8800, as a UL Standard for the U.S. and Canada.

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

Send comments (with optional copy to psa@ansi.org) to: Elizabeth Northcott, (847) 664-3198, Elizabeth.Northcott@ul.com

BSR/UL 62841-4-2-201x, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-2 Particular Requirements for Hedge Trimmers (new standard)

This proposal for UL 62841-4-2 covers: (1) Proposed adoption of the first edition of IEC 62841- 4-2, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery Safety - Part 4-2: Particular Requirements for Hedge Trimmers, as the first edition of UL 62841-4-2.

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

Send comments (with optional copy to psa@ansi.org) to: Elizabeth Northcott, (847) 664-3198, Elizabeth.Northcott@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 844-201X, Standard for Safety for Luminaires for Use in Hazardous (Classified) Locations (revision of ANSI/UL 844-2019)

This proposal includes revisions to clause 45.10 to add an exception that exempts the clause 32 reference as indicated in item (c).

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

Send comments (with optional copy to psa@ansi.org) to: Vickie Hinton, (919) 549-1851, Vickie.T.Hinton@ul.com

BSR/UL 2157-201X, Standard for Safety for Electric Clothes Washing Machines and Extractors (revision of ANSI/UL 2157-2018)

(1) Miscellaneous corrections to fourth edition of UL 2157.

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

Send comments (with optional copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

BSR/UL 2158-201X, Standard for Safety for Electric Clothes Dryers (Proposal dated 6-14-19) (revision of ANSI/UL 2158-2014)

(1) Miscellaneous corrections to fifth edition of UL 2158.

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

Send comments (with optional copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

Comment Deadline: July 29, 2019

AAFS (American Academy of Forensic Sciences)

New Standard

BSR/ASB Std 106-201x, Wildlife Forensic-Protein Serology Method for Taxonomic Identification (new standard)

This document addresses the protocols required for general protein serology methods for taxonomic identification routinely used in the laboratory. These protocols include: Serology methods routinely used in the laboratory, the validation process, and statistical analysis and interpretation of serology results generated in the laboratory. This document also covers the use of quality controls (positive, negative, and comparison samples) and the analysis of results if controls fail. The document explains how differences in expressed proteins can be used to identify animals at family and/or species level using a suite of serology methods.

Single copy price: Free

Obtain an electronic copy from: <http://www.asbstandardsboard.org/>

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

Send comments (with optional copy to psa@ansi.org) to: asb@aaafs.org. This is a public comment period for a recirculation. Updated document, redline version, and comments can be viewed on the AAFS Standards Board website at: <http://www.asbstandardsboard.org/notice-of-standard-development-and-coordination/>.

AAMI (Association for the Advancement of Medical Instrumentation)

New National Adoption

BSR/AAMI/ISO 11138-7-201x, Sterilization of health care products - Biological indicators - Part 7: Guidance for the selection, use and interpretation of results (identical national adoption of ISO 11138-7:2019)

Provides guidance regarding the selection, use and interpretation of results of biological indicators used to develop, validate, and monitor sterilization processes.

Single copy price: Free

Obtain an electronic copy from: cbernier@aami.org

Order from: Cliff Bernier, (703) 253-8263, cbernier@aami.org

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

AIAA (American Institute of Aeronautics and Astronautics)

Reaffirmation

BSR/AIAA-S-120A-2015 (R201x), Mass Properties Control for Space Systems (reaffirmation of ANSI/AIAA-S-120A-2015)

This standard and International Society of Allied Weight Engineers, Inc., RP A-3, Recommended Practice for Mass Properties Control for Space Systems, together define terminology and establish uniform processes, procedures, and systematic methods for the management, control, monitoring, determination, verification, and documentation of mass properties during the design and development phases of space systems, including modifications to operational systems.

Single copy price: \$54.95

Obtain an electronic copy from: hillaryw@aiaa.org

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

ASA (ASC S1) (Acoustical Society of America)

New National Adoption

BSR/ASA S1.4-2014/Part 2/Amd.1-201x/IEC 61672-2-2013/Amd.1-2017, Amendment 1 - Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests (identical national adoption of IEC 61672-2:2013/Amd1:2017)

This document is an amendment to ANSI/ASA S1.4-2014/Part 2/IEC 61672-2:2013. The IEC committee has decided that the contents of this amendment and the base publication will remain unchanged until the IEC stability date indicated on the IEC website in the data related to this publication. Since these are identical national adoptions, ASA will follow the same process.

Single copy price: \$12.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

ASA (ASC S1) (Acoustical Society of America)

Reaffirmation

BSR/ASA S1.4-2014/Part 1/IEC 61672-1-2013 (R201x), Electroacoustics - Sound Level Meters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 1/IEC 61672-1:2013)

Required 5-year maintenance of this part of S1.4/IEC 61672 which gives electroacoustical performance specifications for three kinds of sound-measuring instruments: a time-weighting sound level meter that measures exponential-time-weighted, frequency-weighted sound levels; an integrating-averaging sound level meter that measures time-averaged, frequency-weighted sound levels; and an integrating sound level meter that measures frequency-weighted sound exposure levels.

Single copy price: \$159.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

BSR/ASA S1.4-2014/Part 2/IEC 61672-2-2013 (R201x), Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 2/IEC 61672-2:2013)

Required 5-year maintenance of this part of S1.4/IEC 61672 which provides details of tests necessary to verify conformance to all mandatory specifications given in ANSI/ASA S1.4-2014/Part 1/IEC 61672-1:2013 for time-weighting sound level meters, integrating-averaging sound level meters, and integrating sound level meters. Pattern-evaluation tests apply for each channel of a multi-channel sound level meter, as necessary. Tests and test methods are applicable to class 1 and class 2 sound level meters. The aim is to ensure that all laboratories use consistent methods to perform pattern-evaluation tests.

Single copy price: \$118.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

BSR/ASA S1.4-2014/Part 3/IEC 61672-3-2013 (R201x), Electroacoustics - Sound Level Meters - Part 3: Periodic Tests (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 3/IEC 61672-3:2013)

Required 5-year maintenance review for this part which describes procedures for periodic testing of time-weighting, integrating-averaging, and integrating sound level meters that were designed to conform to the class 1 or class 2 specifications of ANSI/ASA S1.4-2014/Part 1/IEC 61672-1. The aim of the standard is to ensure that periodic testing is performed in a consistent manner by all laboratories. The purpose of periodic testing is to assure the user that the performance of a sound level meter conforms to the applicable specifications of ANSI/ASA S1.4-2014/Part 1/IEC 61672-1 for a limited set of key tests and for the environmental conditions under which the tests were performed. Periodic tests described in this edition of ANSI/ASA S1.4-2014/Part 3/IEC 61672-3 apply to sound level meters for which the manufacturer claims conformance to the specifications of the second edition of ANSI/ASA S1.4-2014/Part 1/IEC 61672-1. Periodic tests described in ANSI/ASA S1.4-2014/Part 3/IEC 61672-3 apply to sound level meters for which the model has been, or has not been, pattern approved by an independent testing organization responsible for pattern approvals in accordance with the test procedures of ANSI/ASA S1.4-2014/Part 2/IEC 61672-2. Procedures for the periodic testing of sound level meters designed to conform to the specifications of IEC 61672-1:2002 were given in IEC 61672-3:2006.

Single copy price: \$59.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

BSR/ASA S1.11-2014/Part 1/IEC 61260-1-2014 (R201x), Electroacoustics - Octave-band and Fractional-octave band Filters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.11-2014/Part 1/IEC 61260-1:2014)

Required 5-year maintenance review for this document which provides performance requirements for analog, sampled-data, and digital implementations of band-pass filters that comprise a filter set or spectrum analyzer for acoustical measurements. It is an identical national adoption of IEC 61260:2014.

Single copy price: \$141.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

ASA (ASC S2) (Acoustical Society of America)

Reaffirmation

BSR/ASA S2.62-2009 (R201x), Shock Test Requirements for Equipment in a Rugged Shock Environment (reaffirmation of ANSI/ASA S2.62-2009 (R2014))

Required 5-year maintenance review of this document that is used for testing equipment that will be subjected to shock. Defines test requirements and severity thresholds for a large range of shock environments, including but not limited to shipping, transport, and rugged operational environments. This standard will allow vendors to better market and users to more easily identify equipment that will operate or simply survive in rugged shock environments.

Single copy price: \$145.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Caryn Mennigke, (631) 390-0215, asastds@acousticalsociety.org

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

ASNT (American Society for Nondestructive Testing)

Revision

BSR/ASNT CP-105-201x, Topical outlines for qualification of nondestructive personnel (revision of ANSI/ASNT CP-105-2015)

This standard applies to personnel whose specific tasks or jobs require appropriate knowledge of the technical principles underlying nondestructive testing (NDT) methods for which they have responsibilities within the scope of their employment. These specific tasks or jobs include, but are not limited to, performing, specifying, reviewing, monitoring, supervising, and evaluating NDT work.

Single copy price: Free (electronic copy only)

Obtain an electronic copy from: www.asnt.org/cp105review

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

BSR/ASNT CP-189-201x, Qualification and certification of nondestructive personnel (revision and redesignation of ANSI/ASNT CP-189-2016, Addenda 2018)

This standard applies to personnel whose specific tasks or jobs require appropriate knowledge of the technical principles underlying nondestructive testing (NDT) methods for which they have responsibilities within the scope of their employment. These specific tasks or jobs include, but are not limited to, performing, specifying, reviewing, monitoring, supervising, and evaluating NDT work.

Single copy price: Free (electronic copy only)

Obtain an electronic copy from: www.asnt.org/cp189review

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

AWS (American Welding Society)

Addenda

BSR/AWS B2.1/B2.1M-2014-AMD1-201x, Specification for Welding Procedure and Performance Qualification (addenda to ANSI/AWS B2.1/B2.1M:2014-AMD1-201x)

This specification provides the requirements for qualification of welding procedure specifications, welders, and welding operators for manual, semiautomatic, mechanized, and automatic welding. The welding processes included are electrogas welding, electron beam welding, electroslog welding, flux cored arc welding, gas metal arc welding, gas tungsten arc welding, laser beam welding, oxyfuel gas welding, plasma arc welding, shielded metal arc welding, stud arc welding, and submerged arc welding. Base metals, filler metals, qualification variables, welding designs, and testing requirements are also included.

Single copy price: \$132.00

Order from: Jennifer Rosario, jrosario@aws.org

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

AWS (American Welding Society)

Revision

BSR/AWS D18.1/D18.1M-201x, Specification for Welding of Austenitic Stainless Steel Tube and Pipe Systems in Sanitary (Hygienic) Applications (revision of ANSI/AWS D18.1/D18.1M-2009)

This specification provides the requirements for welds in tubing systems in dairy and other food processing plants. The document addresses qualifications, fabrication, extent of visual examination, acceptance criteria, and documentation requirements.

Single copy price: \$34.00

Obtain an electronic copy from: steveh@aws.org

Order from: Stephen Hedrick, (305) 443-9353, steveh@aws.org

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

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

CSA (CSA America Standards Inc.)

New National Adoption

BSR/CSA ISO 27916-201x, Carbon dioxide storage using enhanced oil recovery (CO₂-EOR) (identical national adoption of ISO 27916-19)

This standard provides requirements and recommendations for enhanced oil recovery projects using CO₂. Specifically, it addresses project documentation, EOR complex description and construction, containment assurance and monitoring, well construction, quantification of associated CO₂ storage, record keeping, and project closure. The standard also provides ample CO₂-EOR background information, as well as example mass balance calculations. This standard is the first of its kind.

Single copy price: Free

Order from: David Zimmerman, david.zimmerman@csagroup.org

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

ECIA (Electronic Components Industry Association)

Revision

BSR/EIA 364-90A-201x, Crosstalk Ratio Test Procedures for Electrical Connectors, Sockets, Cable Assemblies or Interconnect Systems (revision and redesignation of ANSI/EIA 364-90-2000 (R2013))

This procedure applies to interconnect assemblies, such as electrical connectors, sockets, and cable assemblies.

Single copy price: \$86.00

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

Send comments (with optional copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 364-107A-201x, 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))

This procedure is applicable to electrical connectors, cable assemblies, or interconnection systems.

Single copy price: \$86.00

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

Send comments (with optional copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 364-108A-201x, Impedance, Reflection Coefficient, Return Loss, and VSWR Measured in the Time and Frequency Domain Test Procedure for Electrical Connectors, Cable Assemblies or Interconnection Systems (revision and redesignation of ANSI/EIA 364-108-2000 (R2013))

This procedure applies to interconnect assemblies, such as electrical connectors, and cable assemblies.

Single copy price: \$107.00

Obtain an electronic copy from: www.global.ihs.com

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

Send comments (with optional copy to psa@ansi.org) to: Ed Mikoski, emikoski@ecianow.org

FCI (Fluid Controls Institute)

Reaffirmation

BSR/FCI 4-1-2014 (R201x), Pressure Regulator Hydrostatic Shell Test Method (reaffirmation of ANSI/FCI 4-1-2014)

This standard establishes a method for conducting production hydrostatic testing of pressure regulator shells having bodies, bonnets, casings, and spring cases manufactured from any materials.

Single copy price: Free

Obtain an electronic copy from: fcf@fluidcontrolsinstitute.org

Send comments (with optional copy to psa@ansi.org) to: Leslie Schraff, fcf@fluidcontrolsinstitute.org

FCI (Fluid Controls Institute)

Revision

BSR/FCI 70-2-201x, Control Valve Seat Leakage (revision of ANSI/FCI 70-2-2013)

This standard establishes a series of seat leakage classes for control valves and defines production test procedures.

Single copy price: Free

Obtain an electronic copy from: fcf@fluidcontrolsinstitute.org

Send comments (with optional copy to psa@ansi.org) to: Leslie Schraff, fcf@fluidcontrolsinstitute.org

BSR/FCI 97-1-201x, Standard for Production Testing of Secondary Pressure Drainers (revision of ANSI/FCI 97-1-2013)

This standard specifies production tests that are considered applicable to secondary pressure drainers.

Single copy price: Free

Obtain an electronic copy from: fcf@fluidcontrolsinstitute.org

Send comments (with optional copy to psa@ansi.org) to: Leslie Schraff, fcf@fluidcontrolsinstitute.org

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

Reaffirmation

BSR/IEEE C63.18-2014 (R201x), Standard Recommended Practice for an On-Site, Ad Hoc Test Method for Estimating Electromagnetic Immunity of Medical Devices to Radiated Radio-Frequency (RF) Emissions from RF Transmitters (reaffirmation of ANSI/IEEE C63.18-2014)

A guide to evaluating electromagnetic immunity of medical devices against radiated radio-frequency (RF) emissions from common RF transmitters is provided in this recommended practice (e.g., two-way radios; walkie-talkies; mobile phones; wireless-enabled tablets, e-readers, laptop computers, and similar devices; RFID readers; networked mp³ players; two-way pagers; and wireless personal digital assistants [PDAs]). A comprehensive test or a guarantee is not provided by this protocol but, instead, a basic evaluation is given that can help identify medical devices that might be particularly vulnerable to interference from common RF transmitters. Existing or newly purchased medical devices can be evaluated by this ad hoc test protocol or the protocol can be implemented for repurchase evaluation. This recommended practice applies to medical devices used in health-care facilities but can also be adapted to medical devices in home health-care or mobile health-care settings. It does not apply to implantable medical devices (e.g., pacemakers and defibrillators), transport environments such as ambulances and helicopters, or RF transmitters rated at more than 8 W of output power. Testing with transmitters greater than 8 W in health-care facilities is not recommended because of possible adverse effects on critical-care medical devices that are in use in nearby areas of the facility. Finally, in-band RF interference, where the fundamental frequency of an RF transmitter overlaps with frequencies used by a hospital wireless network or monitoring or other medical device wireless links, is not addressed by this recommended practice.

Single copy price: \$102.00

Obtain an electronic copy from: j.santulli@ieee.org

Order from: Jennifer Santulli, (732) 562-3874, J.Santulli@ieee.org

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

IES (Illuminating Engineering Society)

New Standard

BSR/IES LP-1-201x, IES Lighting Practice: Designing Quality Lighting for People and Buildings (new standard)

Our relationship to our surroundings is directly related to the quality of the lighted environment. When the light is right, we see more deeply into the world. Quality lighting enhances our ability to see and interpret the world around us, supporting our sense of well-being and improving our capability to communicate with each other. Because lighting is vital for vision, activity, and perception, it is critical to provide a quality lighted environment for people who use lighting systems for work or leisure. Light + Design was developed to introduce architects, lighting designers, design engineers, interior designers, and other lighting professionals to the principles of quality lighting design. These principles, related to visual performance, energy and economics, and aesthetics, can be applied to a wide range of interior and exterior spaces to aid designers in providing high-quality lighting to their projects.

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-40-201x, IES Approved Method: Life Testing of Fluorescent Lamps (new standard)

This guide describes the procedures by which fluorescent lamps can be operated under controlled conditions to obtain optimally comparable data on individual lamp life, changes in light output, and other parameters that vary during the life of the lamp.

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-75-201x, Approved Method: IES Guide to Goniometer Measurements and Types, and Photometric Coordinate Systems (new standard)

This document provides definitions of goniophotometer types, spherical coordinate systems, and a general guide to goniophotometer calibration. Definitions presented herein are generally consistent with those in corresponding CIE publications [CIE 102 and CIE 121]. Differences or inconsistencies are noted.

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-21-201x, IES Approved Method: Projecting Long Term Lumen, Photon and Radiant Flux Maintenance of LED Light Sources (new standard)

This document provides recommendations for projecting long-term flux maintenance of LED light sources using data obtained when testing them per IES LM-80-15, Approved Method for Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules. This method shall not be used to predict Lumen, Photon or Radiant flux maintenance below 70%.

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

ISA (International Society of Automation)

New Standard

BSR/ISA 67.01.01-201x, Transducer and Transmitter Installation for Nuclear Safety Applications (new standard)

This standard establishes requirements and recommendations for the installation of transducers and auxiliary equipment for nuclear applications outside of the main reactor vessel.

Single copy price: \$60.00

Order from: Eliana Brazda, ebrazda@isa.org

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

NSF (NSF International)**Revision**

BSR/NSF 50-201x (i115r2), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-201x (i115r1))

This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/49325/50i115r2%20JC%20memo%20&%20ballot.pdf

Order from: jsnider@nsf.org

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

BSR/NSF 55-201x (i49r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2018)

The purpose of this Standard is to establish minimum requirements for the reduction of microorganisms using ultraviolet radiation (UV). UV water-treatment systems covered by this Standard are intended for water that may be either microbiologically safe or microbiologically unsafe. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners, as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

Single copy price: Free

Obtain an electronic copy from: https://standards.nsf.org/apps/group_public/download.php/49234/55i49r1%20-Q-beta%20protocol%20-%20JC%20memo%20&%20Ballot.pdf

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

TCIA (ASC A300) (Tree Care Industry Association)**Revision**

BSR A300 Part 3-201x, Tree, Shrub, and Other Woody Plant Management - Standard Practices (Supplemental Support Systems) (revision of ANSI A300 Part 3-2013)

A300 (Part 3) Soil Management standards are performance standards for installation and maintenance of tree support systems, including cabling, bracing, and guying. It is a guide in the drafting of work project specifications for consumers as well as federal, state, municipal, and private authorities including property owners, property managers, and utilities.

Single copy price: Free (Electronic copy); \$15.00 (for S&H) (Paper copies)

Obtain an electronic copy from: Amy Tetreault; atetreault@tcia.org

Order from: Amy Tetreault; atetreault@tcia.org

Send comments (with optional copy to psa@ansi.org) to: Submit comments online at: www.tcia.org/A300Standards-CurrentProjects

BSR A300 Part 8-201x, Tree, Shrub, and Other Woody Plant Management - Standard Practices (Root Management) (revision of ANSI A300 Part 8-2013)

A300 (Part 8) Root Management standards seek to improve the quality, life expectancy, and safety of trees by promoting and facilitating the care of roots. It is a guide in the drafting of work project specifications for consumers as well as federal, state, municipal, and private authorities including property owners, property managers, and utilities.

Single copy price: Free (Electronic copy); \$15.00 (for S&H) (Paper copies)

Obtain an electronic copy from: Amy Tetreault; atetreault@tcia.org

Order from: Amy Tetreault; atetreault@tcia.org

Send comments (with optional copy to psa@ansi.org) to: Submit comments online at: www.tcia.org/A300Standards-CurrentProjects

UL (Underwriters Laboratories, Inc.)

New National Adoption

BSR/UL 15027-2-201X, Standard for Immersion Suits - Part 2: Abandonment Suits, Requirements Including Safety (national adoption with modifications of ISO 15027-2)

UL proposes a recirculation to the UL 15027-2 ballot dated 6-15-18.

Single copy price: Free

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

Order from: <https://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 15027-3-201X, Standard for Immersion Suits - Part 3: Test Methods (national adoption with modifications of ISO 15027-3)

UL proposes a recirculation to the UL 15027-3 ballot dated 6-15-18.

Single copy price: Free

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

Order from: <https://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: August 13, 2019

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 921-201X, Standard for Safety for Commercial Dishwashers (revision of ANSI/UL 921-2017)

This proposal for UL 921 covers: The proposed new edition of bi-national standard C22.2 No. 168/UL 921 includes editorial cleanup and renumbering of the document following the CSA pre-approval editorial (PAE) review, in addition to the proposal for Commercial Dishwashers provided with a heat pump.

Single copy price: Free

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

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

Send comments (with optional copy to psa@ansi.org) to: Anne Marie Jacobs, (919) 549-0954, annemarie.jacobs@ul.com

Technical Reports Registered with ANSI

Technical Reports Registered with ANSI are not consensus documents. Rather, all material contained in Technical Reports Registered with ANSI is informational in nature. Technical reports may include, for example, reports of technical research, tutorials, factual data obtained from a survey carried out among standards developers and/or national bodies, or information on the "state of the art" in relation to standards of national or international bodies on a particular subject.

Immediately following the end of a 30-day announcement period in Standards Action, the Technical Report will be registered by ANSI. Please submit any comments regarding this registration to the organization indicated, with a copy to the PSA Center, American National Standards Institute, 25 West 43rd Street, New York, NY 10036 or E-Mail to psa@ansi.org.

Comment Deadline: July 14, 2019

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

INCITS/ISO/IEC TR 11179-2:2019 [2019], Information technology - Metadata registries (MDR) - Part 2: Classification (technical report)

This document compliments ISO/IEC 11179-3 by describing registration of classification schemes and using them to classify registered items in an MDR. Any metadata item can be made a Classifiable_Item so it can be classified, which can include object classes, properties, representations, conceptual domains, value domains, data element concepts and data elements themselves. This document does not establish a particular classification scheme as pre-eminent. Sanction of a particular taxonomic approach and/or a particular epistemology is also beyond the scope of this document. These are addressed by other standards committees and/or tend to be tailored to a particular domain of discourse. The MDR can establish its own classification schemes, and other standards committees are developing or have developed normative languages for use in classification and/or particular techniques and structures that can be accommodated by this document. Each registration authority, as described and specified in ISO/IEC 11179-6, can classify classifiable items according to the classification schemes, structures and content that it deems appropriate. In documenting the classification aspects of classifiable items, the registration authority can use the principles, methods, procedures and attributes covered in this document.

Single copy price: \$60.00

Order from: ANSI Webstore: <https://webstore.ansi.org/Standards/ISO/ISOIECTR111792019>

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: Cliff Bernier

Phone: (703) 253-8263

E-mail: cbernier@aami.org

BSR/AAMI/ISO 11138-7-201x, Sterilization of health care products - Biological indicators - Part 7: Guidance for the selection, use and interpretation of results (identical national adoption of ISO 11138-7:2019)

AIAA (American Institute of Aeronautics and Astronautics)

Office: 12700 Sunrise Valley Drive, Suite 200
Reston, VA 20191-5807

Contact: Hillary Woehrle

Phone: (703) 264-7546

E-mail: hillaryw@aiaa.org

BSR/AIAA-S-120A-2015 (R201x), Mass Properties Control for Space Systems (reaffirmation of ANSI/AIAA-S-120A-2015)

ASA (ASC S1) (Acoustical Society of America)

Office: 1305 Walt Whitman Road
Suite 300
Melville, NY 11747

Contact: Caryn Mennigke

Phone: (631) 390-0215

E-mail: asastds@acousticalsociety.org

BSR/ASA S1.4-2014/Part 1/IEC 61672-1-2013 (R201x), Electroacoustics - Sound Level Meters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 1/IEC 61672-1:2013)

BSR/ASA S1.4-2014/Part 2/IEC 61672-2-2013 (R201x), Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 2/IEC 61672-2:2013)

BSR/ASA S1.4-2014/Part 3/IEC 61672-3-2013 (R201x), Electroacoustics - Sound Level Meters - Part 3: Periodic Tests (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.4-2014/Part 3/IEC 61672-3:2013)

BSR/ASA S1.4-2014/Part 2/Amd.1-201x/IEC 61672-2-2013/Amd.1-2017, Amendment 1 - Electroacoustics - Sound Level Meters - Part 2: Pattern Evaluation Tests (identical national adoption of IEC 61672-2:2013/Amd1:2017)

BSR/ASA S1.11-2014/Part 1/IEC 61260-1-2014 (R201x), Electroacoustics - Octave-band and Fractional-octave band Filters - Part 1: Specifications (a nationally adopted international standard) (reaffirm a national adoption ANSI/ASA S1.11-2014/Part 1/IEC 61260-1:2014)

ASA (ASC S2) (Acoustical Society of America)

Office: 1305 Walt Whitman Road
Suite 300
Melville, NY 11747

Contact: Caryn Mennigke

Phone: (631) 390-0215

E-mail: asastds@acousticalsociety.org

BSR/ASA S2.62-2009 (R201x), Shock Test Requirements for Equipment in a Rugged Shock Environment (reaffirmation of ANSI/ASA S2.62-2009 (R2014))

ASNT (American Society for Nondestructive Testing)

Office: 1711 Arlingate Lane
P.O. Box 28518
Columbus, OH 43228-0518

Contact: Charles Longo

Phone: (800) 222-2768

E-mail: clongo@asnt.org

BSR/ASNT CP-189-201x, Qualification and certification of nondestructive personnel (revision and redesignation of ANSI/ASNT CP-189-2016, Addenda 2018)

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 608-E-2008 (S201x), Line 21 Data Services (stabilized maintenance of ANSI/CTA 608-E-2008 (R2014))

BSR/CTA 709.10-201x, Web Services for Control Networking Protocol Specification (new standard)

BSR/CTA 861-H-201x, A DTV Profile for Uncompressed High Speed Digital Interfaces (revision and redesignation of ANSI/CTA 861-G -2016)

BSR/CTA 2020-2007 (S201x), Other VBI Waveforms (stabilized maintenance of ANSI/CTA 2020-2007)

BSR/CTA 2028-B-2014 (R201x), Color Codes for Outdoor TV Receiving Antennas (reaffirmation of ANSI/CTA 2028-B-2014)

BSR/CTA 2032-B-2014 (R201x), Indoor TV Receiving Antenna Performance Standard (reaffirmation of ANSI/CTA 2032-B-2014)

BSR/CTA 2090-201x, The Use of Artificial Intelligence in Health Care: Trustworthiness (new standard)

BSR/CTA 2091-201x, Measurement by CTDs of environmental factors associated with sleep (new standard)

BSR/CTA 2092-201x, Performance Requirements for Sleep Monitoring Solutions Detecting Snoring (new standard)

BSR/CTA 2093-201x, Non-Proprietary Metadata Formats for Health, Fitness and Wellness Data (new standard)

ECIA (Electronic Components Industry Association)

Office: 13873 Park Center Road
Suite 315
Herndon, VA 20171

Contact: Laura Donohoe

Phone: (571) 323-0294

E-mail: ldonohoe@ecianow.org

BSR/EIA 364-90A-201x, Crosstalk Ratio Test Procedures for Electrical Connectors, Sockets, Cable Assemblies or Interconnect Systems (revision and redesignation of ANSI/EIA 364-90-2000 (R2013))

BSR/EIA 364-107A-201x, 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))

BSR/EIA 364-108A-201x, Impedance, Reflection Coefficient, Return Loss, and VSWR Measured in the Time and Frequency Domain Test Procedure for Electrical Connectors, Cable Assemblies or Interconnection Systems (revision and redesignation of ANSI/EIA 364-108-2000 (R2013))

BSR/EIA 575-C-201x, Thick Film Resistor Specification (revision and redesignation of ANSI/EIA 575-B-2014)

FCI (Fluid Controls Institute)

Office: 1300 Sumner Avenue
Cleveland, OH 44115

Contact: Leslie Schraff

Phone: (216) 241-7333

E-mail: fci@fluidcontrolsinstitute.org

BSR/FCI 4-1-2014 (R201x), Pressure Regulator Hydrostatic Shell Test Method (reaffirmation of ANSI/FCI 4-1-2014)

BSR/FCI 70-2-201x, Control Valve Seat Leakage (revision of ANSI/FCI 70-2-2013)

BSR/FCI 97-1-201x, Standard for Production Testing of Secondary Pressure Drainers (revision of ANSI/FCI 97-1-2013)

BSR/FCI 99-2-201x, Pressure Reducing Regulator Capacity (revision of ANSI/FCI 99-2-2004 (R2015))

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-1-201x, IES Lighting Practice: Designing Quality Lighting for People and Buildings (new standard)

BSR/IES LP-3-201x, Lighting Practice: Designing and Specifying Daylighting for Buildings (new standard)

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

BSR/IES LM-40-201x, IES Approved Method: Life Testing of Fluorescent Lamps (new standard)

BSR/IES LM-75-201x, Approved Method: IES Guide to Goniometer Measurements and Types, and Photometric Coordinate Systems (new standard)

BSR/IES TM-21-201x, IES Approved Method: Projecting Long Term Lumen, Photon and Radiant Flux Maintenance of LED Light Sources (new standard)

ISA (International Society of Automation)

Office: 67 Alexander Drive
Research Triangle Park, NC 27709

Contact: Eliana Brazda

Phone: (919) 990-9228

E-mail: ebrazda@isa.org

BSR/ISA 67.01.01-201x, Transducer and Transmitter Installation for Nuclear Safety Applications (new standard)

NEMA (ASC C29) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Suite 900
Rosslyn, VA 22209

Contact: Gerard Winstanley

Phone: (703) 841-3231

E-mail: Gerard.Winstanley@Nema.org

BSR C29.2B-201x, Wet Process Porcelain and Toughened Glass Transmission Suspension Type (revision of ANSI C29.2B-2013)

NEMA (ASC C78) (National Electrical Manufacturers Association)

Office: 1300 N 17th St
Rosslyn, VA 22209
Contact: Michael Erbesfeld
Phone: (703) 841-3262
E-mail: Michael.Erbesfeld@nema.org

BSR C78.55-201x, Standard for Electric Lamps - LED Lamp
Specification Sheets for HID Replacement and Retrofit Applications
(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 7-201x (i20r3), Commercial Refrigerators and Freezers
(revision of ANSI/NSF 7-2016)

BSR/NSF 50-201x (i115r2), Equipment and Chemicals for Swimming
Pools, Spas, Hot Tubs, and Other Recreational Water Facilities
(revision of ANSI/NSF 50-201x (i115r1))

BSR/NSF 55-201x (i49r1), Ultraviolet Microbiological Water Treatment
Systems (revision of ANSI/NSF 55-2018)

BSR/NSF 330-201x (i10r1), Glossary of Drinking Water Treatment Unit
Terminology (revision of ANSI/NSF 330-2018)

BSR/NSF/CAN 60-201x (i82r1), Drinking Water Treatment Chemicals -
Health Effects (revision of ANSI/NSF/CAN 60-2018)

BSR/NSF/CAN 61-201x (i142r1), Drinking Water System Components -
Health Effects (revision of ANSI/NSF/CAN 61-2018)

BSR/NSF/CAN 61-201x (i149r1), Drinking Water System Components -
Health Effects (revision of ANSI/NSF 61-2018)

BSR/NSF/CAN 61-201x (i151r1), Drinking Water System Components -
Health Effects (revision of ANSI/NSF 61-2018)

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 222-H-1-201x, Structural Standard for Antenna Supporting
Structures, Antennas and Small Wind Turbine Support Structures -
Addendum 1 (addenda to ANSI/TIA 222-H-2017)

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.

AWS (American Welding Society)

Revision

ANSI/AWS C1.5-2019, Specification for the Qualification of Resistance Welding Technicians (revision of ANSI/AWS C1.5-2015): 6/3/2019

AWWA (American Water Works Association)

Revision

ANSI/AWWA D120-2019, Thermosetting Fiberglass-Reinforced Plastic Tanks (revision of ANSI/AWWA D120-2009): 6/3/2019

ISA (International Society of Automation)

Revision

ANSI/ISA 77.82.01-2019, Selective Catalytic Reduction (SCR) Control Systems (revision of ANSI/ISA 77.82.01-2011): 6/3/2019

NSF (NSF International)

Revision

ANSI/NSF 245-2019 (i15r1), Residential Wastewater Treatment Systems - Nitrogen Reduction (revision of ANSI/NSF 245-2018): 5/30/2019

RESNA (Rehabilitation Engineering and Assistive Technology Society of North America)

New National Adoption

ANSI/RESNA WC-1-2019, RESNA Standard for Wheelchairs - Volume 1: Requirements and Test Methods for Wheelchairs (including Scooters) (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-1-2009): 6/5/2019

ANSI/RESNA WC-2-2019, RESNA Standard for Wheelchairs - Volume 2: Additional Requirements for Wheelchairs (including Scooters) with Electrical Systems (national adoption of ISO 7176 with modifications and revision of ANSI/RESNA WC-2-2009): 6/5/2019

SPRI (Single Ply Roofing Industry)

Revision

ANSI/SPRI ED-1-2019, Design Standard for Edge Systems Used with Low Slope Roofing Systems (revision and partition of ANSI/SPRI/FM 4435 ES-1 2011 and ANSI/SPRI GD-1 2010): 6/3/2019

UL (Underwriters Laboratories, Inc.)

New National Adoption

ANSI/UL 60079-29-1-2019, Standard for Safety for Explosive Atmospheres - Part 29-1: Gas Detectors - Performance Requirements of Detectors for Flammable Gases (national adoption of IEC 60079-29-1 with modifications and revision of ANSI/ISA 60079-29-1 (12.13.01)-2013): 5/31/2019

ANSI/UL 60079-29-1-2019a, Standard for Safety for Explosive Atmospheres - Part 29-1: Gas Detectors - Performance Requirements of Detectors for Flammable Gases (national adoption of IEC 60079-29-1 with modifications and revision of ANSI/ISA 60079-29-1 (12.13.01)-2013): 5/31/2019

New Standard

ANSI/UL 6200-2019, Standard for Safety for Controllers for Use in Power Production (new standard): 5/31/2019

Revision

ANSI/UL 987-2019, Standard for Safety for Stationary and Fixed Electric Tools (revision of ANSI/UL 987-2013): 5/30/2019

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 BPR 122-201x, Guidelines for Performing Alcohol Calculations in Forensic Toxicology (new standard)

Stakeholders: The forensic toxicology community, law enforcement, attorneys, medicolegal death investigation community, and courts.

Project Need: Ethanol calculations are commonly performed in forensic toxicology, but there is a high degree of variability. This guideline will improve the quality and consistency of this work.

This document provides guidelines for performing ethanol (alcohol) calculations, to include calculations for retrograde extrapolation, forward estimations, minimum drinks consumed, and other typical situations. Considerations are provided for subjects not in the post-absorptive stage, various antemortem specimen types (whole blood, serum/plasma, breath, urine), and population variances. Reporting results of such calculations will also be addressed.

BSR/ASB Std 119-201x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicology Testing for Medicolegal Death Investigations (new standard)

Stakeholders: Postmortem forensic toxicology laboratories and their customers.

Project Need: This document provides the minimum requirements for forensic toxicology laboratories performing postmortem casework. This ensures that customers of a laboratory are receiving appropriate test results regardless of what specific laboratory performs the testing.

This document delineates the minimum requirements for target analytes and analytical sensitivity for the toxicological testing of blood specimens in medicolegal death investigations. This document does not include the analysis of urine, tissues, or other specimens that are commonly analyzed in medicolegal death investigations.

BSR/ASB Std 120-201x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicology Testing in Impaired Driving Investigations (new standard)

Stakeholders: Forensic toxicology laboratories testing cases in support of impaired driving investigations and their customers.

Project Need: This document covers minimum requirements for forensic toxicology laboratories performing driving under the influence of drugs (DUID) casework. This ensures that customers of a laboratory receive appropriate test results regardless of what specific laboratory performs the testing.

This document delineates the minimum requirements for target analytes and analytical sensitivity for the toxicological testing of blood and urine specimens collected from drivers suspected of being impaired. This document does not cover the analysis of breath, oral fluid, or other potential specimen types collected in impaired driving investigations.

BSR/ASB Std 121-201x, Standard for the Analytical Scope and Sensitivity of Forensic Toxicology Urine Testing in Drug-Facilitated Crime Investigations (new standard)

Stakeholders: Forensic toxicology laboratories testing cases in support of drug-facilitated crime investigations and their customers.

Project Need: This document covers minimum requirements for forensic toxicology laboratories performing testing in support of drug-facilitated crime investigations. This ensures that customers of a laboratory receive appropriate test results regardless of what specific laboratory performs the testing.

This document delineates the minimum requirements for target analytes and analytical sensitivity for the toxicological testing of urine specimens collected from alleged victims of drug-facilitated crimes (DFC). This document does not cover the analysis of blood and other evidence that may be collected in DFC cases.

BSR/ASB Std 124-201x, Minimum Requirements and Recommendations for a Firearm and Toolmark Examiner Training Program (new standard)

Stakeholders: Firearm and toolmark examiners and technicians, forensic service providers that provide firearm and toolmark examination services, judicial system, law enforcement investigators, and the general public.

Project Need: This document provides recommendations to improve firearm/toolmark training programs, particularly to address topics of recent interest such as statistics and instrumental analysis of toolmarks. This document could also be of use to accrediting bodies seeking to prepare guidance for the assessment of laboratories with firearm/toolmark training programs.

This standard covers the minimum requirements and recommendations for firearm and toolmark examiner training programs. The requirements include the essential skills and knowledge needed to perform successfully in the discipline. Requirements and recommendations include training topics, documentation, casework exercises, and methods for testing competency of the examiner. This document also provides guidance regarding which training elements may be removed in cases where a trainee is being qualified in only one category of testing. This standard does not preclude agencies from adding additional mission-specific requirements.

AIAA (American Institute of Aeronautics and Astronautics)

Contact: Hillary Woehrle, (703) 264-7546, hillaryw@aiaa.org
12700 Sunrise Valley Drive, Suite 200, Reston, VA 20191-5807

New Standard

BSR/AIAA S-141-201x, Standard for Code Verification in Computational Fluid Dynamics (new standard)

Stakeholders: CFD code developers, CFD users with minimal experience in CFD but with assigned responsibility for providing CFD results for use in design and manufacturing.

Project Need: Computational Fluid Dynamics(CFD) has become an important tool in the design, analysis, and optimization of aerospace systems. As the reliance on CFD grows, CFD code developers, modelers, and analysts are increasingly being tasked to provide evidence for the accuracy of the simulation results.

The objective of the document is to explain the purpose of code verification, present theoretical foundation for code order-of-accuracy verification, provide practical guidance on how to perform code order-of-accuracy verification and discuss different approaches for obtaining exact (or benchmark) solutions for use in code verification studies.

ANS (American Nuclear Society)

Contact: Patricia Schroeder, (708) 579-8269, pschroeder@ans.org
555 North Kensington Avenue, La Grange Park, IL 60526-5592

Revision

BSR/ANS 2.21-201x, Criteria for Assessing Atmospheric Effects on the Ultimate Heat Sink (revision of ANSI/ANS 2.21-2012 (R2016))

Stakeholders: Nuclear power plants, nuclear facility owners, US Nuclear Regulatory Commission (NRC), design professionals and vendors/consultants.

Project Need: A revision is needed to address recently identified technical issues and current UHS modeling methods. There is a need to consider offsite and/or remotely monitored meteorological data sources to improve the spatial representativeness of UHS modeling inputs. Also, issues raised by NRC include, but are not limited to, natural draft cooling towers not being seismically qualified for UHS, how (or if) to address passive cooling of newer reactor designs, potential impacts from climate change, and critical time periods based on various system designs.

This standard establishes criteria for the use of meteorological and hydrological data by nuclear facilities to evaluate the atmospheric effects from meteorological parameters on ultimate heat sinks. These input parameters may include dry-bulb temperature; wet-bulb temperature; dewpoint, cloud-cover, relative humidity, precipitation, wind speed, incoming short-wave solar radiation, incoming long-wave radiation, surface water temperature, and atmospheric pressure.

ASTM (ASTM International)

Contact: Laura Klineburger, (610) 832-9696, accreditation@astm.org
100 Barr Harbor Drive, West Conshohocken, PA 19428-2959

New Standard

BSR/ASTM WK66419-201x, New Specification for Standard Specification for Unleaded Aviation Gasoline Containing Ethers (new standard)

Stakeholders: Spark and Compression Ignition Aviation Engine Fuels industry.

Project Need: Current ASTM D6227 standard for aviation gasoline containing a non-hydrocarbon component does not include a broad enough specification for oxygen or include grades with motor octane greater than 98.

A new specification for avgas containing fuel ethers to support several suppliers that have developed unleaded avgas formulations with ETBE that are potential replacements for 100LL. Formulations can be either unleaded or have substantially reduced (>85%) lead content vs. 100LL. ASTM Phase 1 testing of test fuel is underway.

BICSI (Building Industry Consulting Service International)

Contact: Jeff Silveira, (813) 903-4712, jsilveira@bicsi.org
8610 Hidden River Parkway, Tampa, FL 33637

Revision

BSR/BICSI 007-201x, Information Communication Technology Design and Implementation Practices for Intelligent Buildings and Premises (revision of ANSI/BICSI 007-2017)

Stakeholders: Designers and installers of IP/Network-enabled building and facility systems and supporting infrastructure, manufacturers and integrators of applicable systems, building and facility managers and related end-user position with responsibility for the operations and maintenance of such systems.

Project Need: With the increase of building systems requiring network capability to interact with other systems, there currently is not a standard focused on the infrastructure and integration of different systems onto a common ICT infrastructure.

This standard covers the design and implementation of the information communication technology systems required to support an intelligent building/premise integrated design. Systems covered, include, but are not limited to, building automation/management, utility utilization, lighting, signage and wayfinding, sound and acoustical services, vertical transportation, location, and asset tracking.

CTA (Consumer Technology Association)

Contact: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech
1919 South Eads Street, Arlington, VA 22202

New Standard

BSR/CTA 709.10-201x, Web Services for Control Networking Protocol Specification (new standard)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: To develop a communication platform for networked control using web services.

This standard will provide a comprehensive communication platform for networked control using web services and supports the IoT model of interoperability with advanced data collection, simplified management, and potential AI application support.

BSR/CTA 2090-201x, The Use of Artificial Intelligence in Health Care: Trustworthiness (new standard)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: To explore the impact of the trustworthiness of AI in health care.

Artificial Intelligence (AI) is quickly becoming a pervasive tool in the health care industry. This standard explores the impact of the trustworthiness of AI in health care through the lens of the end user (e.g., physician, consumer, professional and family caregiver). Additionally, the standard will identify the unique challenges and opportunities for AI in the health care sector.

BSR/CTA 2091-201x, Measurement by CTDs of environmental factors associated with sleep (new standard)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: To define the methodology of measurement of the sleep environment with consumer technology devices and define its criteria for impacting sleep and/or circadian rhythms.

This standard defines the methodology of measurement of the sleep environment with consumer technology devices and define its criteria for impacting sleep and/or circadian rhythms.

BSR/CTA 2092-201x, Performance Requirements for Sleep Monitoring Solutions Detecting Snoring (new standard)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: To define the methodology and performance criteria for detection and measurement of snoring during sleep by sleep-monitoring solutions.

This standard defines the methodology and performance criteria for detection and measurement of snoring during sleep by sleep-monitoring solutions.

BSR/CTA 2093-201x, Non-Proprietary Metadata Formats for Health, Fitness and Wellness Data (new standard)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: To define the metadata forums for non-proprietary data values (e.g., timestamp, time zone, location) to be used for health, fitness, and wellness data.

This standard defines the metadata forums for non-proprietary data values (e.g., timestamp, time zone, location) to be used in for health, fitness, and wellness data.

Reaffirmation**BSR/CTA 2028-B-2014 (R201x), Color Codes for Outdoor TV Receiving Antennas (reaffirmation of ANSI/CTA 2028-B-2014)**

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Reaffirm ANSI/CTA-2028-B.

This standard defines color codes to be associated with minimum performance parameters of outdoor television (TV) receiving antennas. When used in conjunction with the CEA TV antenna selector program at www.AntennaWeb.org, these color codes can help both consumers and professional installers select appropriate outdoor TV antennas for their particular reception environments.

BSR/CTA 2032-B-2014 (R201x), Indoor TV Receiving Antenna Performance Standard (reaffirmation of ANSI/CTA 2032-B-2014)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Reaffirm CTA 2032-B.

This standard defines test and measurement procedures for determining the performance of indoor TV receiving antennas.

Revision**BSR/CTA 861-H-201x, A DTV Profile for Uncompressed High Speed Digital Interfaces (revision and redesignation of ANSI/CTA 861-G-2016)**

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Revise ANSI/CTA 861-G.

Produce a new revision of CTA-861, called CTA-861-H, A DTV Profile for Uncompressed High Speed Digital Interfaces, limited to clarification, corrections, and improving and extending interoperability and integration of existing amendments, extensions and errata, including CTA-861.4 (Dynamic HDR Metadata Signaling) and CTA-861.5 (Audio).

Stabilized Maintenance**BSR/CTA 608-E-2008 (S201x), Line 21 Data Services (stabilized maintenance of ANSI/CTA 608-E-2008 (R2014))**

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Stabilize ANSI/CTA 608-E.

CTA-608-E is a technical standard and guide for using or providing Closed Captioning services or other data services embedded in line 21 of the vertical blanking interval of the NTSC video signal. This includes provision for encoding equipment and/or decoding equipment to produce such material as well as manufacturers of television receivers which are required to include such decoders in their equipment as a matter of regulation (see Annex F).

BSR/CTA 2020-2007 (S201x), Other VBI Waveforms (stabilized maintenance of ANSI/CTA 2020-2007)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Stabilize ANSI/CTA-2020 R-2014.

This standard, CTA-2020, specifies four Vertical Blanking Interval (VBI) waveforms in commercial use. The electrical properties of the waveforms are covered, but the meaning of the payload data is not. The waveforms apply to 525-line, interlaced (i.e., 480i) analog television signals. The waveforms may be present on analog inputs and analog outputs, but no conformance requirements about the actual presence of the waveforms are defined in CTA-2020.

ECIA (Electronic Components Industry Association)

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

Revision

BSR/EIA 575-C-201x, Thick Film Resistor Specification (revision and redesignation of ANSI/EIA 575-B-2014)

Stakeholders: Electrical, Electronic, and Telecommunications industries

Project Need: Revise and redesignate the current American National Standard.

This standard covers thick-film general-purpose rectangular leadless discrete fixed resistors with temperature coefficients of Plus or minus 350 PPM/degrees C (ranging from plus or minus 50 PPM/degrees C to plus or minus 350 PPM/degrees C) and greater and resistance tolerances of plus or minus 5% (ranging from plus or minus 0.5% to plus or minus 5%) and greater for use in surface mounting applications using soldering techniques.

FCI (Fluid Controls Institute)

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

Revision

BSR/FCI 99-2-201x, Pressure Reducing Regulator Capacity (revision of ANSI/FCI 99-2-2004 (R2015))

Stakeholders: Manufacturers, users, and specifiers of pressure regulators.

Project Need: To provide a test methodology for measuring and reporting the capacity of pilot-operated and direct-acting pressure-reducing regulators.

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

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-3-201x, Lighting Practice: Designing and Specifying Daylighting for Buildings (new standard)

Stakeholders: Lighting practitioners, engineers, building owners and occupants, legislative and regulatory, energy efficiency constituents, building contractors, architects, interior designers, the general public.

Project Need: Daylighting must be addressed early in the architectural design process, and should a primary consideration in the development of the lighting design solution for a space, and if not successfully addressed, poor performance will eliminate some or all of the potential benefits, and can lead to unhappy and unproductive occupants.

Daylighting refers to the art and practice of admitting beam sunlight, diffuse sky light, and reflected light from exterior surfaces into a building to provide ambient and/or task lighting to meet the visual and biological needs of the occupants. The role of electric lighting in daylit spaces should be to complement daylight during daytime and supply the required illumination levels during nighttime, with energy savings acquired through the use of electric lighting controls. The design of a daylit building is a challenging task demanding an integrated design approach to simultaneously address occupant comfort, lighting quality, and energy efficiency across a wide range of daylight and weather conditions. Properly daylit buildings offer additional benefits that include occupant satisfaction, a connection to the outdoor environment, with reductions in maintenance costs and greenhouse gas emissions.

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

Stakeholders: Lighting practitioners, engineers, architects, interior designers, regulatory, energy efficiency, contractors, distributors, sales reps, the general public.

Project Need: Some electric lighting is necessary for every interior space. Proper light source selection depends on the functional and aesthetic requirements placed on the lighting system, economic and energy usage restrictions, and the personal preferences of the designer and/or the owner of the space. There are several thousand commercially available light sources.

With such a wide selection, it is likely that several different choices could be made for a given lighting application. This document is intended to help facilitate light source selection for those involved in the design of the luminous environment, including architects, interior designers, engineers, lighting designers, owners, sustainability consultants, energy engineers, landscape architects, lighting product representatives, lighting manufacturers, contractors, and distributors.

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.

NEMA (ASC C29) (National Electrical Manufacturers Association)

Contact: Gerard Winstanley, (703) 841-3231, Gerard.Winstanley@Nema.org
1300 North 17th Street, Suite 900, Rosslyn, VA 22209

Revision

BSR C29.2B-201x, Wet Process Porcelain and Toughened Glass Transmission Suspension Type (revision of ANSI C29.2B-2013)

Stakeholders: Manufacturers, electric power utility companies, public utilities, high-voltage electric transmission systems.

Project Need: Need to revise the existing standard to current practices.

This standard covers transmission suspension-type insulators, 9 inches (228.6 millimeters) in diameter and larger, made of wet-process porcelain or of toughened glass and used in the transmission of electrical energy

NEMA (ASC C78) (National Electrical Manufacturers Association)

Contact: Michael Erbesfeld, (703) 841-3262, Michael.Erbesfeld@nema.org
1300 N 17th St, Rosslyn, VA 22209

New Standard

BSR C78.55-201x, Standard for Electric Lamps - LED Lamp Specification Sheets for HID Replacement and Retrofit Applications (new standard)

Stakeholders: Manufacturers, designers, testing labs, and end users.

Project Need: Currently, many LED lamp replacement specification sheets contain differing sets of data and information that can cause confusion during measurement, especially since lamps can be designed for use with specific ballasts or drivers, without ballasts, or other input configurations. Additionally, measurement laboratories that utilize standards such as IES LM-79 require information on electrical input in order to properly test these products. Therefore, it is necessary for ANSI to provide a standard to use when creating specification sheets. The purpose of this standardized specification sheet format is to communicate proper electrical and mechanical requirements, features, and performance to users in a consistent manner.

The purpose is to standardize LED Lamp specification sheets for HID Replacement and Retrofit Applications, as the means of communication of critical lamp characteristics such as:

- Intended-use ballasts (if applicable);
- Reference circuit (if applicable);
- Identify input voltage requirements (for use with mains voltage);
- Light distribution;
- Other characteristics;
- May include physical dimensions and/or temperature ratings for operation.

This standard will cover all types of HID replacement and retrofit applications using LED lamps. The minimum contents and format of the specification sheet will be provided. Manufacturers can include additional information.

SCTE (Society of Cable Telecommunications Engineers)

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

Revision

BSR/SCTE 109-201x, Test Procedure for Common Path Distortion (CPD) (revision of ANSI/SCTE 109-2016)

Stakeholders: Cable Telecommunications industry.

Project Need: Update current technology.

The purpose of this document is to establish the standard methodology used to measure CPD in both a lab and in a live cable network.

TIA (Telecommunications Industry Association)

Contact: Teesha Jenkins, (703) 907-7706, standards@tiaonline.org
1320 North Courthouse Road, Suite 200, Arlington, VA 22201

Addenda

BSR/TIA 222-H-1-201x, Structural Standard for Antenna Supporting Structures, Antennas, and Small Wind Turbine Support Structures - Addendum 1 (addenda to ANSI/TIA 222-H-2017)

Stakeholders: Manufacturers, wireless carriers, broadcasters, users, engineering firms.

Project Need: Update standard.

The main goals of the TR-14 Committee is to update the amplification forces on antenna supporting structures supported by buildings or other supporting structures, update to section 4.9.9 anchor bolt calculation and miscellaneous minor updates and corrections to some sections of the ANSI/TIA 222-H Standard.

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.

AAFS American Academy of Forensic Sciences 410 North 21st Street Colorado Springs, CO 80904 Phone: (719) 453-1036 Web: www.aafs.org	AWS American Welding Society 8669 NW 36th Street Suite #130 Miami, FL 33166-6672 Phone: (800) 443-9353 Web: www.aws.org	IEEE (ASC C63) Institute of Electrical and Electronics Engineers 445 Hoes Lane Piscataway, NJ 08854 Phone: (732) 562-3874 Web: www.ieee.org	RESNA Rehabilitation Engineering and Assistive Technology Society of North America 1560 Wilson Blvd. Suite 850 Arlington, VA 22209-1903 Phone: (703) 524-6686 Web: www.resna.org
AAMI Association for the Advancement of Medical Instrumentation 901 N. Glebe Road, Suite 300 Arlington, VA 22203 Phone: (703) 253-8263 Web: www.aami.org	AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org	IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org	RVIA Recreational Vehicle Industry Association 1896 Preston White Drive P.O. Box 2999 Reston, VA 20191-4363 Phone: (703) 620-6003 Web: www.rvia.org
AIAA American Institute of Aeronautics and Astronautics 12700 Sunrise Valley Drive, Suite 200 Reston, VA 20191-5807 Phone: (703) 264-7546 Web: www.aiaa.org	BICSI Building Industry Consulting Service International 8610 Hidden River Parkway Tampa, FL 33637 Phone: (813) 903-4712 Web: www.bicsi.org	ISA (Organization) International Society of Automation 67 Alexander Drive Research Triangle Park, NC 27709 Phone: (919) 990-9228 Web: www.isa.org	SCTE Society of Cable Telecommunications Engineers 140 Philips Rd Exton, PA 19341 Phone: (800) 542-5040 Web: www.scte.org
ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526-5592 Phone: (708) 579-8269 Web: www.ans.org	CRRC Cool Roof Rating Council 2435 N Lombard Street Portland, OR 97217 Phone: (503) 606-8448 Web: www.coolroofs.org	ITI (INCITS) InterNational Committee for Information Technology Standards 1101 K Street NW Suite 610 Washington, DC 20005-3922 Phone: (202) 737-8888 Web: www.incits.org	SPRI Single Ply Roofing Industry 465 Waverley Oaks Road Suite 421 Waltham, MA 02452 Phone: (781) 647-7026 Web: www.spri.org
ASA (ASC S1) Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: www.acousticalsociety.org	CSA CSA America Standards Inc. 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org	NEMA (ASC C29) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3231 Web: www.nema.org	TCIA (ASC A300) Tree Care Industry Association 136 Harvey Rd # 101 Londonderry, NH 03053 Phone: (603) 314-5380 Web: www.treecareindustry.org
ASA (ASC S2) Acoustical Society of America 1305 Walt Whitman Road Suite 300 Melville, NY 11747 Phone: (631) 390-0215 Web: www.acousticalsociety.org	CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech	NEMA (ASC C78) National Electrical Manufacturers Association 1300 N 17th St Rosslyn, VA 22209 Phone: (703) 841-3262 Web: www.nema.org	TIA Telecommunications Industry Association 1320 North Courthouse Road Suite 200 Arlington, VA 22201 Phone: (703) 907-7706 Web: www.tiaonline.org
ASNT American Society for Nondestructive Testing 1711 Arlington Lane P.O. Box 28518 Columbus, OH 43228-0518 Phone: (800) 222-2768 Web: www.asnt.org	ECIA Electronic Components Industry Association 13873 Park Center Road Suite 315 Herndon, VA 20171 Phone: (571) 323-0294 Web: www.ecianow.org	NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-5643 Web: www.nsf.org	UL Underwriters Laboratories, Inc. 12 Laboratory Dr. Research Triangle Park, NC 27709 Phone: (919) 549-0973 Web: www.ul.com
ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9696 Web: www.astm.org	FCI Fluid Controls Institute 1300 Sumner Avenue Cleveland, OH 44115 Phone: (216) 241-7333 Web: www.fluidcontrolsinstitute.org		



ISO & IEC Draft International Standards

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

Comments

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

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

Ordering Instructions

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

ISO Standards

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO/DIS 80601-2-67, Medical electrical equipment - Part 2-67: Particular requirements for basic safety and essential performance of oxygen-conserving equipment - 8/18/2019, \$125.00

ISO/DIS 80601-2-69, Medical electrical equipment - Part 2-69: Particular requirements for basic safety and essential performance of oxygen concentrator equipment - 8/18/2019, \$125.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)

ISO/DIS 15643, Road construction and maintenance equipment - Bituminous binder sprayers and binder sprayers/chipping spreaders - Terminology and commercial specifications - 8/18/2019, \$82.00

COSMETICS (TC 217)

ISO/DIS 18861, Cosmetics - Sun protection test methods - Water resistance - Percentage of water resistance - 8/24/2019, \$53.00

DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

ISO/DIS 2692, Geometrical Product Specification (GPS) - Geometrical tolerancing - Maximum material requirement (MMR) and least material requirement (LMR) - 12/22/2025, \$134.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/DIS 7240-3, Fire detection and alarm systems - Part 3: Audible alarm devices - 8/23/2019, \$107.00

ERGONOMICS (TC 159)

ISO/DIS 24552, Ergonomics - Accessible design - Accessibility of information presented on visual displays of small consumer products - 7/1/2019, \$46.00

FINE BUBBLE TECHNOLOGY (TC 281)

ISO/DIS 21910-1, Fine bubble technology - Characterization of microbubbles - Part 1: Off-line evaluation of size index - 6/28/2019, \$82.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 23952, Quality information framework (QIF) - An integrated model of manufacturing quality information - 8/15/2019, \$281.00

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

ISO/DIS 21857, Petroleum, petrochemical and natural gas industries - Prevention of corrosion on pipeline systems influenced by stray currents - 6/30/2019, \$134.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 8624, Ophthalmic optics - Spectacle frames - Measuring system and terminology - 6/30/2019, \$67.00

ISO/DIS 15004-1, Ophthalmic instruments - Fundamental requirements and test methods - Part 1: General requirements applicable to all ophthalmic instruments - 7/1/2019, \$53.00

PLASTICS (TC 61)

ISO/DIS 22403, Plastics - Assessment of the inherent aerobic biodegradability and environmental safety of non-floating materials exposed to marine inocula under laboratory and mesophilic conditions - Test methods and requirements - 8/24/2019, \$46.00

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

ISO/DIS 8521, Glass-reinforced thermosetting plastic (GRP) pipes - Test methods for the determination of the initial circumferential tensile wall strength - 7/1/2019, \$71.00

ROAD TRAFFIC SAFETY MANAGEMENT SYSTEMS (TC 241)

ISO/DIS 39002, Road traffic safety - Good practices for implementing commuting safety management - 6/28/2019, \$93.00

ROAD VEHICLES (TC 22)

ISO/DIS 1585, Road vehicles - Engine test code - Net power - 8/29/2019, \$98.00

ROLLING BEARINGS (TC 4)

ISO 15241/DAmD1, Rolling bearings - Symbols for physical quantities - Amendment 1 - 8/24/2019, \$29.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 506, Rubber latex, natural, concentrate - Determination of volatile fatty acid number - 8/18/2019, \$46.00

ISO/DIS 1382, Rubber - Vocabulary - 6/27/2019, \$134.00

ISO/DIS 1409, Plastics/rubber - Polymer dispersions and rubber latices (natural and synthetic) - Determination of surface tension - 8/29/2019, \$58.00

ISO/DIS 1432, Rubber, vulcanized or thermoplastic - Determination of low-temperature stiffening (Gehman test) - 8/18/2019, \$67.00

ISO/DIS 22751, Rubber or plastic coated fabrics - Physical and mechanical test - Determination of bending force - 8/25/2019, \$40.00

SAFETY DEVICES FOR PROTECTION AGAINST EXCESSIVE PRESSURE (TC 185)

ISO/DIS 4126-3, Safety devices for protection against excessive pressure - Part 3: Safety valves and bursting disc safety devices in combination - 11/6/2010, \$58.00

SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)

ISO/DIS 17867, Determination of particle size distribution - SAXS method - 8/26/2019, \$98.00

STERILIZATION OF HEALTH CARE PRODUCTS (TC 198)

ISO 11737-1/DAmD1, Sterilization of health care products - Microbiological methods - Part 1: Determination of a population of microorganisms on products - Amendment 1 - 7/1/2019, \$29.00

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

ISO/DIS 128-1, Technical product documentation (TPD) - General principles of representation - Part 1: Introduction and fundamental requirements - 6/28/2019, \$40.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 21628, Gardening machinery - Powered material-collecting systems - Safety - 8/30/2019, \$40.00

ISO/DIS 6489-3, Agricultural vehicles - Mechanical connections between towed and towing vehicles - Part 3: Tractor drawbar - 8/25/2019, \$46.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 22256, Traditional Chinese medicine - Detection of irradiated natural products by photostimulated luminescence - 6/27/2019, \$40.00

ISO/DIS 22258, Traditional Chinese medicine - Determination of pesticide residues in natural products by GC - 6/27/2019, \$58.00

ISO/DIS 22590, Traditional Chinese medicine - Determination of Sulfur Dioxide in natural products by titration - 6/27/2019, \$58.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/DIS 20530, Intelligent transport systems - Information for emergency service support via personal ITS station - General requirements and technical definition - 8/23/2019, \$62.00

ISO/DIS 20524-2, Intelligent transport systems - Geographic Data Files (GDF) GDF5.1 - Part 2: Map data used in automated driving systems, Cooperative ITS, and multi-modal transport - 7/1/2019, \$291.00

WATER QUALITY (TC 147)

ISO/DIS 22066, Water quality - Determination of available total cyanide - Method using segmented flow injection, in-line ultraviolet digestion analysis by gas diffusion and amperometric detection - 6/29/2019, \$67.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 27006/DAmD1, Information technology - Security techniques - Requirements for bodies providing audit and certification of information security management systems - Amendment 1 - 8/26/2019, \$29.00

ISO/IEC 9797-3/DAmD1, Information technology - Security techniques - Message Authentication Codes (MACs) - Part 3: Mechanisms using a universal hash-function - Amendment 1 - 8/26/2019, \$29.00

ISO/IEC 30105-3/DAmD1, Information technology - IT Enabled Services-Business Process Outsourcing (ITES-BPO) lifecycle processes - Part 3: Measurement framework (MF) and organization maturity model (OMM) - Amendment 1 - 8/24/2019, \$33.00

ISO/IEC DIS 7816-4, Identification cards - Integrated circuit cards - Part 4: Organization, security and commands for interchange - 7/1/2019, \$185.00

ISO/IEC DIS 20897-1, Security requirements and test methods for physically unclonable functions for generating non-stored security parameters - Part 1: Security requirements - 8/24/2019, \$67.00

IEC Standards

9/2504/CDV, IEC 62973-2 ED1: Railway applications - Batteries for auxiliary power supply systems - Part 2: Nickel Cadmium (NiCd) batteries, 2019/8/30

21A/701A/CD, IEC 63218 ED1: Secondary cells and batteries containing alkaline and other non-acid electrolyte - Secondary Lithium ion, Nickel Cadmium, and Nickel Metal Hydride cells and batteries for portable applications - Guidance on environmental aspects, 2019/7/26

23/856/CD, IEC TS 63236-3 ED1: Direct current (DC) appliance couplers for information and communication technology (ICT) equipment installed in data centers and telecom central offices - Part 3: AC/DC appliance inlet, 2019/8/30

23E/1131/FDIS, IEC 63052 ED1: Power frequency overvoltage protective devices for household and similar applications (POP), 2019/7/19

23E/1134/CD, IEC 60755-2 ED1: General safety requirements for residual current operated protective devices - Part 2: Residual current operated protective devices for DC systems, 2019/8/30

34D/1477/CDV, IEC 60598-1/AMD2 ED8: Luminaires - Part 1: General requirements and tests, 2019/8/30

- 40/2679/FDIS, IEC 60384-11 ED4: Fixed capacitors for use in electronic equipment - Part 11: Sectional specification: Fixed polyethylene-terephthalate film dielectric metal foil DC capacitors, 2019/7/19
- 46/724/FDIS, IEC 61935-1-1 ED1: Specification for the testing of balanced and coaxial information technology cabling - Part 1-1: Additional requirements for the measurement of transverse conversion loss and equal level transverse conversion transfer loss, 2019/7/19
- 46/726/DTS, IEC TS 62153-4-1/AMD1 ED1: Metallic cables and other passive components test methods - Part 4-1: Electromagnetic compatibility (EMC) - Introduction to electromagnetic screening measurements - Amendment 1: Mixed mode S-Parameter, 2019/8/30
- 46/725/FDIS, IEC 61935-1 ED5: Specification for the testing of balanced and coaxial information technology cabling - Part 1: Installed balanced cabling as specified in ISO/IEC 11801-1 and related standards, 2019/7/19
- 46F/467/FDIS, IEC 63138-1 ED1: Multi-radio frequency channel connectors - Part 1: Generic specification - General requirements and measuring methods, 2019/7/19
- 46F/466/FDIS, IEC 61169-1-2 ED1: Radio-frequency connectors - Part 1-2: Electrical test methods - Insertion loss, 2019/7/19
- 57/2101/FDIS, IEC 61850-7-3/AMD1 ED2: Amendment 1 - Communication networks and systems for power utility automation - Part 7-3: Basic communication structure - Common data classes, 2019/7/19
- 57/2102/FDIS, IEC 61850-7-4/AMD1 ED2: Amendment 1 - Communication networks and systems for power utility automation - Part 7-4: Basic communication structure - Compatible logical node classes and data object classes, 2019/7/19
- 57/2089(F)/CDV, IEC 61970-301 ED7: Energy management system application program interface (EMS-API) - Part 301: Common information model (CIM) base, 2019/8/16
- 57/2100/FDIS, IEC 61850-7-2/AMD1 ED2: Amendment 1 - Communication networks and systems for power utility automation - Part 7-2: Basic information and communication structure - Abstract communication service interface (ACSI), 2019/7/19
- 59/707A/NP, PNW 59-707: Household and similar electrical air cleaning appliances - Measurement of performance - Part 2-X: Particular requirements for fresh-air air cleaners, 2019/7/19
- 62A/1341/CD, IEC TR 60601-4-5: Medical electrical equipment - Part 4-5 Guidance and interpretation - Safety related technical security specifications for medical devices, 2019/9/27
- 62B/1133/FDIS, IEC 62985 ED1: Methods for calculating size specific dose estimates (SSDE) on computed tomography, 2019/7/19
- 62B/1136/DTR, IEC TR 60522-2 ED1: Medical electrical equipment - Diagnostics X-Rays - Part 2: Guidance and rationale on quality equivalent filtration and permanent filtration, 019/8/2/
- 62B/1134/FDIS, IEC 61223-3-5 ED2: Evaluation and routine testing in medical imaging departments - Part 3-5: Acceptance tests and constancy tests - Imaging performance of computed tomography X-ray equipment, 2019/7/19
- 62D/1692/CD, ISO 81060-3 ED1: Non-invasive sphygmomanometers - Part 3: Clinical investigation of continuous non-invasive automated measurement type, 019/8/2/
- 62D/1693/DTS, ISO TS 81060-5 ED1: Non-invasive sphygmomanometers - Part 5: Requirements for the repeatability and reproducibility of NIBP simulators for testing, 2019/8/30
- 65C/968/FDIS, IEC 62657-2/AMD1 ED2: Industrial communication networks - Wireless communication networks - Part 2: Coexistence management, 2019/7/19
- 86C/1590/CDV, IEC 62148-6 ED2: Fibre optic active components and devices - Package and interface standards - Part 6: ATM-PON transceivers, 2019/8/30
- 100/3265/Q, TA 15 - Wireless Power Transfer - Change of structure, 2019/7/19
- 111/533/CD, IEC 62321-2 ED2: Determination of certain substances in electrotechnical products - Part 2: Disassembly, disjunction and mechanical sample preparation, 2019/8/30
- 113/476/DTS, IEC TS 62565-4-1 ED1: Nanomanufacturing - Key control characteristics - Part 4-1: Luminescent nanomaterials - Blank detail specification, 2019/8/30
- 116/409/CDV, IEC 62841-4-4 ED1: Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4-4: Particular requirements for lawn trimmers, lawn edge trimmers, grass trimmers, brush cutters and brush saws, 2019/8/30
- 116/412/Q, Amendment of IEC 62841-3-1 Ed 1.0 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-1: Particular requirements for transportable table saws, 2019/8/30
- JTC1-SC25/2888/DTR, IEC TR 11801-9906 ED1: Information technology - Generic cabling for customer premises - Part 9906 - Balanced 1-pair cabling channels up to 600 MHz for single pair Ethernet (SPE), 019/8/2/



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

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

[ISO 20916:2019](#), In vitro diagnostic medical devices - Clinical performance studies using specimens from human subjects - Good study practice, \$209.00

[ISO 20776-1:2019](#), Susceptibility testing of infectious agents and evaluation of performance of antimicrobial susceptibility test devices - Part 1: Broth micro-dilution reference method for testing the in vitro activity of antimicrobial agents against rapidly growing aerobic bacteria involved in infectious diseases, \$138.00

DENTISTRY (TC 106)

[ISO 27020:2019](#), Dentistry - Brackets and tubes for use in orthodontics, \$68.00

FASTENERS (TC 2)

[ISO 7053:2019](#), Fasteners - Hexagon washer head tapping screws, \$45.00

[ISO 15480:2019](#), Fasteners - Hexagon washer head drilling screws with tapping screw thread, \$45.00

FLOOR COVERINGS (TC 219)

[ISO 13746:2019](#), Textile floor coverings - Guidelines for installation and use on stairs, \$68.00

GAS CYLINDERS (TC 58)

[ISO 10462/Amd1:2019](#), Gas cylinders - Acetylene cylinders - Periodic inspection and maintenance - Amendment 1, \$19.00

[ISO 14245:2019](#), Gas cylinders - Specifications and testing of LPG cylinder valves - Self-closing, \$138.00

[ISO 15995:2019](#), Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated, \$138.00

HEALTH INFORMATICS (TC 215)

[ISO 13606-1:2019](#), Health informatics - Electronic health record communication - Part 1: Reference model, \$209.00

[ISO 13606-2:2019](#), Health informatics - Electronic health record communication - Part 2: Archetype interchange specification, \$209.00

[ISO 13606-3:2019](#), Health informatics - Electronic health record communication - Part 3: Reference archetypes and term lists, \$232.00

[ISO 13606-4:2019](#), Health informatics - Electronic health record communication - Part 4: Security, \$138.00

[ISO 13606-5:2019](#), Health informatics - Electronic health record communication - Part 5: Interface specification, \$68.00

INFORMATION AND DOCUMENTATION (TC 46)

[ISO 15511:2019](#), Information and documentation - International standard identifier for libraries and related organizations (ISIL), \$68.00

MACHINE TOOLS (TC 39)

[ISO 19085-7:2019](#), Woodworking machines - Safety - Part 7: Surface planing, thickness planing, combined surface/thickness planing machines, \$185.00

NUCLEAR ENERGY (TC 85)

[ISO 20042:2019](#), Measurement of radioactivity - Gamma-ray emitting radionuclides - Generic test method using gamma-ray spectrometry, \$185.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 14880-1:2019](#), Optics and photonics - Microlens arrays - Part 1: Vocabulary, \$45.00

OTHER

[ISO 23910:2019](#), Leather - Physical and mechanical tests - Measurement of stitch tear resistance, \$45.00

PAINTS AND VARNISHES (TC 35)

[ISO 1518-1:2019](#), Paints and varnishes - Determination of scratch resistance - Part 1: Constant-loading method, \$68.00

[ISO 1518-2:2019](#), Paints and varnishes - Determination of scratch resistance - Part 2: Variable-loading method, \$68.00

[ISO 22516:2019](#), Paints and varnishes - Practical determination of non-volatile and volatile matter content during application, \$68.00

[ISO 23321:2019](#), Solvents for paints and varnishes - Demineralized water for industrial applications - Specification and test methods, \$45.00

PLASTICS (TC 61)

[ISO 11343:2019](#), Adhesives - Determination of dynamic resistance to cleavage of high-strength adhesive bonds under impact wedge conditions - Wedge impact method, \$68.00

[ISO 13468-1:2019](#), Plastics - Determination of the total luminous transmittance of transparent materials - Part 1: Single-beam instrument, \$68.00

RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 2951:2019](#), Rubber, vulcanized rubber - Determination of insulation resistance, \$68.00

SAFETY OF MACHINERY (TC 199)

[ISO 20607:2019](#), Safety of machinery - Instruction handbook - General drafting principles, \$138.00

SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 19037:2019](#), Ships and marine technology - Gate valves for use in low temperature applications - Design and testing requirements, \$103.00

[ISO 19897:2019](#), Ships and marine technology - Marine evacuation systems - Testing under conditions of icing, \$45.00

[ISO 21125:2019](#), Ships and marine technology - Marine cranes - Manufacturing requirements, \$68.00

[ISO 20083-2:2019](#), Ships and marine technology - Determination of the shaft power of ship propulsion systems by measuring the shaft distortion - Part 2: Optical reflection method, \$68.00

[ISO 20083-3:2019](#), Ships and marine technology - Determination of the shaft power of ship propulsion systems by measuring the shaft distortion - Part 3: Elastic vibration method, \$68.00

SOIL QUALITY (TC 190)

[ISO 15176:2019](#), Guidance on characterization of excavated soil and other materials intended for re-use, \$209.00

[ISO 21479:2019](#), Soil quality - Determination of the effects of pollutants on soil flora - Leaf fatty acid composition of plants used to assess soil quality, \$138.00

SOLID MINERAL FUELS (TC 27)

[ISO 10753:2019](#), Coal preparation plant - Assessment of the liability to breakdown in water of materials associated with coal seams, \$103.00

[ISO 11724:2019](#), Solid mineral fuels - Determination of total fluorine in coal, coke and fly ash, \$68.00

TEXTILES (TC 38)

[ISO 18184:2019](#), Textiles - Determination of antiviral activity of textile products, \$185.00

[ISO 1833-28:2019](#), Textiles - Quantitative chemical analysis - Part 28: Mixtures of chitosan with certain other fibres (method using diluted acetic acid), \$45.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

[ISO 15886-4:2019](#), Irrigation equipment - Irrigation sprinklers - Part 4: Test methods for durability, \$68.00

ISO Technical Specifications

GAS CYLINDERS (TC 58)

[ISO/TS 17519:2019](#), Gas cylinders - Refillable permanently mounted composite tubes for transportation, \$209.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

[ISO/TS 18101-1:2019](#), Automation systems and integration - Oil and gas interoperability - Part 1: Overview and fundamental principles, \$138.00

INDUSTRIAL TRUCKS (TC 110)

[ISO/TS 3691-8:2019](#), Industrial trucks - Safety requirements and verification - Part 8: Regional requirements for countries outside the European Community, \$68.00

NANOTECHNOLOGIES (TC 229)

[ISO/TS 20660:2019](#), Nanotechnologies - Antibacterial silver nanoparticles - Specification of characteristics and measurement methods, \$103.00

ISO/IEC JTC 1, Information Technology

[ISO/IEC 9798-2:2019](#), IT Security techniques - Entity authentication - Part 2: Mechanisms using authenticated encryption, \$103.00

[ISO/IEC 2382-36:2019](#), Information technology - Vocabulary - Part 36: Learning, education and training, \$45.00

[ISO/IEC TS 24751-4:2019](#), Information technology for learning, education and training - AccessForAll framework for individualized accessibility - Part 4: Registry server API, \$103.00

IEC Standards

FUSES (TC 32)

[IEC 60269-3 Ed. 4.2 b:2019](#), Low-voltage fuses - Part 3:

Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F, \$645.00

[IEC 60269-3 Amd.2 Ed. 4.0 b:2019](#), Amendment 2 - Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F, \$82.00

WINDING WIRES (TC 55)

[IEC 60317-20 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 20: Solderable polyurethane enamelled round copper wire, class 155, \$12.00

[IEC 60317-20 Ed. 3.1 b:2019](#), Specifications for particular types of winding wires - Part 20: Solderable polyurethane enamelled round copper wire, class 155, \$76.00

[IEC 60317-21 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 21: Solderable polyurethane enamelled round copper wire overcoated with polyamide, class 155, \$12.00

[IEC 60317-21 Ed. 3.1 b:2019](#), Specifications for particular types of winding wires - Part 21: Solderable polyurethane enamelled round copper wire overcoated with polyamide, class 155, \$123.00

[IEC 60317-23 Amd.1 Ed. 3.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 23: Solderable polyesterimide enamelled round copper wire, class 180, \$12.00

[IEC 60317-23 Ed. 3.1 b:2019](#), Specifications for particular types of winding wires - Part 23: Solderable polyesterimide enamelled round copper wire, class 180, \$76.00

[IEC 60317-35 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 35: Solderable polyurethane enamelled round copper wire, class 155, with a bonding layer, \$12.00

[IEC 60317-35 Ed. 2.1 b:2019](#), Specifications for particular types of winding wires - Part 35: Solderable polyurethane enamelled round copper wire, class 155, with a bonding layer, \$123.00

[IEC 60317-36 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 36: Solderable polyesterimide enamelled round copper wire, class 180, with a bonding layer, \$12.00

[IEC 60317-36 Ed. 2.1 b:2019](#), Specifications for particular types of winding wires - Part 36: Solderable polyesterimide enamelled round copper wire, class 180, with a bonding layer, \$123.00

[IEC 60317-55 Amd.1 Ed. 2.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 55: Solderable polyurethane enamelled round copper wire overcoated with polyamide, class 180, \$12.00

[IEC 60317-55 Ed. 2.1 b:2019](#), Specifications for particular types of winding wires - Part 55: Solderable polyurethane enamelled round copper wire overcoated with polyamide, class 180, \$76.00

[IEC 60317-68 Ed. 1.1 b:2019](#), Specifications for particular types of winding wires - Part 68: Polyvinyl acetal enamelled rectangular aluminium wire, class 120, \$76.00

[IEC 60317-68 Amd.1 Ed. 1.0 b:2019](#), Amendment 1 - Specifications for particular types of winding wires - Part 68: Polyvinyl acetal enamelled rectangular aluminium wire, class 120, \$12.00

Registration of Organization Names in the United States

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

The following is a list of alphanumeric organization names that have been submitted to ANSI for registration. Alphanumeric names appearing for the first time are printed in bold type. Names with confidential contact information, as requested by the organization, list only public review dates.

PUBLIC REVIEW

BDAP

Public Review: March 29, 2019 to June 29, 2019

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

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

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

ANSI Accredited Standards Developers

Approval of Reaccreditation

SERI – Sustainable Electronics Recycling International

ANSI's Executive Standards Council has approved the reaccreditation of SERI – Sustainable Electronics Recycling International, an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on SERI-sponsored American National Standards, effective June 12, 2019. For additional information, please contact: Ms. Sharada Rao, Director of Quality, SERI, P.O. Box 19611, Boulder, CO 80308; phone: 248.891.2837; e-mail: sharada@sustainableelectronics.org.

World Millwork Alliance (WMA)

ANSI's Executive Standards Council has approved the reaccreditation of the World Millwork Alliance (WMA), an ANSI Member and Accredited Standards Developer, under its recently revised operating procedures for documenting consensus on WMA-sponsored American National Standards, effective June 12, 2019. For additional information, please contact: Ms. Jessica Ferris, Director of Codes and Standards, World Millwork Alliance, 10047 Robert Trent Jones Parkway, New Port Richey, FL 34655; phone: 727.372.3665; e-mail: jferris@worldmillworkalliance.com.

Reaccreditation

National Contract Management Association (NCMA)

Comment Deadline: July 15, 2019

The National Contract Management Association (NCMA), an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on NCMA-sponsored American National Standards, under which it was originally accredited in 2018. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Dr. John W. Wilkinson, CPCM, President, thinc, LLC, Chief Standards and Certification Officer, National Contract Management Association, 21740 Beaumeade Circle, Suite 125, Ashburn, VA 20147; phone: 804.896.6990; e-mail: jwilkinson@thinc-llc.com. 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 NCMA by July 15, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: jthompso@ANSI.org).

International Organization for Standardization (ISO)

Call for U.S. TAG Administrator

ISO/TC 298 – Rare Earth

ANSI has been informed that CSA Group, the ANSI-accredited U.S. TAG Administrator for ISO/TC 298 wishes to relinquish their role as U.S. TAG Administrator.

ISO/TC 298 operates under the following scope:

Standardization in the field of rare earth mining, concentration, extraction, separation and conversion to useful rare earth compounds/materials (including oxides, salts, metals, master alloys, etc.) which are key inputs to manufacturing and further production process in a safe and environmentally sustainable manner.

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

ISO New Work Item Proposal

Design and Safety Requirements for Sex Toys

Comment Deadline: June 28, 2019

SIS, the ISO member body for Sweden, has submitted to ISO a new work item proposal for the development of an ISO standard on design and safety requirements for sex toys, with the following scope statement:

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.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 28.

ISO Proposal for a New Field of ISO Technical Activity

Audit Data Services

Comment Deadline: June 28, 2019

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

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

Note:

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

Excluded:

1. Information system security audit covered by ISO/IEC/JTC 1.
2. Security evaluation criteria and methodology, techniques and guidelines to address both security and privacy aspects covered by ISO/IEC/JTC 1/SC 27.
3. Meta-data standards, E-business standards, database language standards covered by ISO/IEC/JTC 1/SC 32.
4. Meta-standards of electronic data interchange covered by ISO/TC 154.
5. Quality management and quality assurance covered by ISO/TC 176.

Please note that this proposal is to convert ISO Project Committee 295 on audit data services into a technical committee with an extended work program.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 28.

Laboratory design

Comment Deadline: June 28, 2019

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

Standardization in the field of laboratory design including site selection and design planning, the functional division of experimental areas, the determination of scientific and technological processes, layouts and design of furniture, and the scientific design of the facility taking into account environmental conditions and impact.

Excluded:

- IEC/TC 64 (Electrical installations and protection against electric shock);
- IEC/TC 81 (Lightning protection);
- IEC/TC 66 (Safety of measuring, control and laboratory equipment);
- IEC/TC 85 (Measuring equipment for electrical and electromagnetic quantities).

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 28.

Sustainable processes for wood

Comment Deadline: June 28, 2019

ABNT, the ISO member body for Brazil, has submitted to ISO a proposal for a new field of ISO technical activity on Sustainable processes for wood, with the following scope statement:

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/TC 6 "Paper, board and pulps"; ISO/TC 89 "Wood-based panels"; ISO/TC 165 "Timber structures"; ISO/TC 218 "Timber"; and ISO/TC 207 "Environmental management".

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 28.

Meeting Notices

Meeting for Accredited Standards Committee (ASC) B109 Standards B109.1, B109.2, B109.3, and B109.4

Meeting Date: Monday, September 23, 2019- 8:00 AM – 4:00 PM CST

Meeting Location: Peppermill Reno, 2707 S. Virginia St., Reno, Nevada 89502--(Teleconference information available upon request)

Purpose: This is the annual ANSI B109 meeting. Updates will be given for each of the B109 standards.

Please register on line at www.aga.org. For more information contact Jeff Meyers, jmeyers@aga.org.

Information Concerning

International Organization for Standardization (ISO)

Call for U.S. TAG Administrators

TC 20 Subcommittees – *Aircraft and space vehicles*

There is currently no ANSI-accredited U.S. TAG Administrator for TC 20/SC 1, TC 20/SC 4, TC 20/SC 6, TC 20/SC 8, and TC 20/SC 18, and therefore ANSI is not a member of these committees.

The Secretariats for these committees are currently held by China (SAC) for TC 20/SC 1; Germany (DIN) for TC 20/SC 4; Russia (GOST R) for TC 20/SC 6 and TC 20/SC 8; and France (AFNOR) for TC 20/SC 18.

TC 20/SC 1 operates under the following scope:

Aerospace electrical requirements

TC 20/SC 4 operates under the following scope:

Aerospace fastener systems

TC 20/SC 6 operates under the following scope:

Standard atmosphere

TC 20/SC 8 operates under the following scope:

Aerospace terminology

TC 20/SC 18 operates under the following scope:

Standardization of materials and related processes (e.g.: surface treatment/coating, defects in composites...) used by aircraft and engine manufacturers,

- *Excluded materials: ISO/TC 35 Paints and varnishes, ISO/TC 17 Steel, ISO/TC 25 Cast irons and pig irons, ISO/TC 26 Copper and copper alloys, ISO/TC 45 Rubber and rubber products, ISO/TC 79 Light metals and their alloys, ISO/TC 155 Nickel and nickel alloys, ISO/TC 206 Fine ceramics...,*
- *Excluded processes: ISO/TC 44/WG 4 Welding and brazing in aerospace, ISO/TC 107 Metallic and other inorganic coatings, ISO/TC 156 Corrosion of metals and alloys, ISO/TC 244 Industrial furnaces and associated processing equipment, ISO/TC 261 Additive manufacturing.*

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



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

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

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

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

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

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

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

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

NSF International Standard/ American National Standard –

Commercial Refrigerators and Freezers

•

5 Design and construction

•

5.16 Drains

There shall be no drains other than those from a condensate evaporator in a food zone. Drains utilized for condensate shall be fabricated or located to prevent their use as a general drain for a food zone.

•

9 Display refrigerators and freezers

•

9.8 Drains

In addition to the applicable requirements specified in 5.16:

9.8.1 A drain or waste outlet may be provided for the draining of a display refrigerator, **including service display refrigerators**. If display refrigerator drains are provided for flushing, they shall have a minimum internal diameter of 1.0 in (25 mm).

9.8.2 Display refrigerators equipped with automatic or off-time defrost systems shall have a drain located at the lowest level of the compartment to which water will drain.

***Rationale:** Standard 7 contains various requirements regarding the use of drains in commercial refrigerators. Section 5 is intended to form the base of these requirements, with the sections that follow expanding as needed for particular applications. In the case of section 9, this is to enforce section 5.16 when applying to section 9.8.1. The language however is ambiguous and has led to confusion amongst manufacturers. After lengthy Task Group discussion, the group agreed adding the above statement corrects this ambiguity, without removing the first sentence of 5.16 as originally proposed in the issue paper.*

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

[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 gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard for Drinking Water Treatment Units —

Glossary of Drinking Water Treatment Unit Terminology

.
.
.

3 Definitions

.
.
.

3.181 UV light disinfection: Process for inactivating microorganisms by irradiating them with UV light. The UV light waves that disrupt the metabolic activities of the organisms, rendering them inactive and incapable of reproduction. The UV light does not leave a disinfectant residual.

3.181.1 alarm set point: (As used in NSF/ANSI 55) The conditions under which a UV sensor activates an alarm.

3.181.2 blackwaste: Human and/or animal body waste, toilet paper, and any other material intended to be deposited in and discharged from a receptacle designed to receive urine and/or feces.

3.181.3 greywaste: Materials, exclusive of urine, feces, or industrial waste, deposited in and discharged from plumbing fixtures found in residences, commercial buildings, industrial plants, and institutions.

3.181.4 irradiance: The measure of light intensity at a surface. The radiant power arriving at a point on a surface per unit area. A common unit for irradiance is mW/cm² or mJ/cm².

NOTE — 40 mJ/cm² is equal to 4.0 x 10⁴ μW-sec/cm².

3.181.5 normal output (Class B system): (As used in NSF/ANSI 55) The UV irradiance delivered by the UV lamp after a 100-hour conditioning period.

3.181.6 UV absorbance: (As used in NSF/ANSI 55) The fraction of irradiance at 254 nm that is absorbed or scattered in a solution. UV absorbance is expressed as a fraction per cm.

3.181.7 UV dose: (As used in NSF/ANSI 55) The product of irradiance ~~at 254 nm~~ within the UV wavelengths from 240 nm to 300 nm and time over a given area expressed as mJ/cm².

3.181.8 UV sensitivity: A measurement of organism inactivation at a specified ultraviolet radiation dose. The measurement is expressed as the negative logarithm base 10 (log₁₀) of the fraction of the challenge organism remaining after the UV dose.

3.181.9 UV sensor: A device used to measure the UV irradiance.

Tracking number 330i10r1
© 2019 NSF

Revision to NSF/ANSI 330 – 2018
Issue 10 Revision 1 (May 2019)

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

3.181.10 UV system: A system capable of delivering a UV dose.

3.181.10.1 Class A system: (As used in NSF/ANSI 55) A system capable of delivering a UV dose equivalent to 40 mJ/cm² or greater at a wavelength of 254 nm or achieves a minimum 4.00 log reduction of Q β coliphage at the alarm set point.

3.181.10.2 Class B system: (As used in NSF/ANSI 55) A system capable of delivering a UV dose equivalent to 16 mJ/cm² or greater at a wavelength of 254 nm or achieves a minimum of 1.5 log reduction of Q β coliphage at 70% of the UV lamp normal output or at the alarm set point.

Rationale: Revised definitions affected by expansion of NSF/ANSI 55 scope to 240 nm to 300 nm UV systems.

Tracking number 60i82r1
© 2019 NSF

Revision to NSF/ANSI/CAN 60 – 2018
Issue 82 Revision 1 (May 2019)

Not for publication. This draft text is for circulation for approval by the Joint Committee on Drinking Water Additives – Treatment Chemicals and has not been published or otherwise officially promulgated. All rights reserved. This document may be reproduced for informational purposes only.

[Note – the changes are seen below using strikeout for removal of old text and gray highlights to show the suggested text. ONLY the highlighted text is within the scope of this ballot.]

NSF/ANSI/CAN Standard
for Drinking Water Additives –

Drinking Water Treatment Chemicals – Health Effects

-
-
-

Annex B (normative)

Sampling, preparation, and analysis of samples

-
-
-

B.4 Analysis methods

-
-
-

B.4.4 Radionuclides

Analyses for radionuclides shall be performed in accordance with *Prescribed Procedures for Measurement of Radioactivity in Drinking Water*, EPA-600/4-80-032, except as otherwise provided for herein. When no US EPA Method is provided, analyses shall be performed in accordance with *Standard Methods for the Examination of Water and Wastewater* (most current edition).

If neither of these references includes the required method, a method from another recognized source shall be allowed, and the method cited and validated. If no recognized method is available, a method shall be developed, provided the method is fully documented, including all appropriate quality assurance procedures. The method used to determine the contaminant level shall have an analytical concentration range, such that the report limit is no greater than 50% of the lowest contaminant concentration being sought. Quality control standards shall be run at concentrations of 0.5, 1.0, 2.0, 5.0, and 10.0× the target limit.

B.4.4.1 Potassium-40 correction for Gross Beta

If the normalized concentration for gross beta exceeds the health effects evaluation criteria, analysis shall be completed for the naturally occurring potassium-40 beta particle activity from the same or equivalent sample used for the gross beta particle activity. As indicated in the Code of Federal Regulations (CFR 40 §141.26 (b)(4))¹, the potassium-40 beta particle activity (pCi/L) is calculated by multiplying elemental potassium concentrations (in mg/L) by a factor of 0.82. The gross beta particle and photon activity attributable to

¹ *Code of Federal Regulations, Monitoring Frequency and Compliance Requirements for Radionuclides in Community Water Systems*, title 40, sec. 141.26.

Tracking number 60i82r1
© 2019 NSF

Revision to NSF/ANSI/CAN 60 – 2018
Issue 82 Revision 1 (May 2019)

Not for publication. This draft text is for circulation for approval by the Joint Committee on Drinking Water Additives – Treatment Chemicals and has not been published or otherwise officially promulgated. All rights reserved. This document may be reproduced for informational purposes only.

potassium-40 is then subtracted from the total gross beta particle activity value. The potassium-40 corrected gross beta particle and photon activity shall be compared against the health effects evaluation criteria.

B.4.4.2 Requirements for Gross Beta Speciation

When the potassium-40 corrected gross beta particle and photon activity exceeds a normalized concentration of 15 pCi/L, the beta emitting radioisotopes shall be speciated. Speciation testing is required for all radioisotopes at risk of exceeding the health effects evaluation criteria. Appendix I in USEPA Implementation Guidance for Radionuclides (2002) details a list of radioisotopes and associated doses (in pCi/L) to produce a 4 mrem/y dose². The USEPA Implementation Guidance for Radionuclides (2002)³ provides example calculations to determine the fractional contribution in mrem/yr dose for each speciated radioisotope. The fractional contributions shall be summed for comparison to the health effects evaluation criteria.

Rationale: Added guidance on potassium-40 subtraction for gross beta particle emissions and threshold for gross beta speciation per 2018 DWA-TC JC meeting discussion (November 28, 2018).

² USEPA Implementation Guidance for Radionuclides, Appendices A – J, Appendix I Comparison of Derived Values of Beta and Photon Emitters

³ USEPA Implementation Guidance for Radionuclides, Section II-B.2 Violation/Compliance Determination of Gross Beta and Photon Emitters

Tracking number 61i142r1
© 2019 NSF International

Revision to NSF/ANSI/CAN 61-2018
Issue 142 Revision 1 (May 2019)

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

[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 **gray highlighting**. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard
for Drinking Water Additives –

Drinking Water System Components – Health Effects

.
.
.

Annex B (normative)

Product / material evaluation

.
.
.

B.3.2.4 Solders

These products shall be prepared by placing the solder in a ceramic combustion boat (96 × 12 × 10 mm). The amount of solder used shall be sufficient to cover the bottom of the boat. The boat (with solder) shall then be placed in a muffle furnace that has been set to a temperature **hot enough to melt the solder within 20 °C (36 °F) above the liquidus temperature of the product being evaluated.** For example, 95/5 tin/antimony solder has a melting range of 232 to 240 °C (450 to 464 °F). The oven shall be set at 260 °C (500 °F) for this solder.

~~The boat (with solder) shall be placed in the oven and allowed to heat until the solder has melted (approximately 1 to 2 minutes).~~ The boat shall be allowed to cool and the solder piece removed.

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

[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 **gray highlighting**. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI/CAN Standard for Drinking Water Additives –

Drinking Water System Components – Health Effects

7 Process media

.
. .
.

Table 7.1 – Product-specific minimum test batteries for process media products

Product	Primary use	Analytes for virgin media	Analytes for regenerated/ reactivated media
activated alumina	adsorption	metals ¹ , nickel, and aluminum	see footnote 2.
aluminum silicates (e.g., zeolites)	filtration	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	see footnote 2.
impregnated aluminum silicates	adsorption	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides
anthracite	filtration	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	see footnote 2.
diatomaceous earth	filtration	metals ¹ and radionuclides	see footnote 2.
garnet	filtration	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	see footnote 2.
granular activated carbon (GAC)	adsorption	metals ¹ , GC/MS ³ (base neutral acid scans) and radionuclides	metals ⁴ , GC/MS ³ (base neutral acid scans), and radionuclides
gravel	filtration	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	see footnote 2.
ilmenite	filtration	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	see footnote 2.
ilmenite	adsorption	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides
ion exchange resins	exchange	Residual monomer, other formulation dependent	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides, other formulation dependent
impregnated ion exchange resins	adsorption	metals ¹ , GC/MS (base neutral acid scans), and radionuclides, residual monomer, other formulation dependent	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides, other formulation dependent

Tracking number 61i149r1
© 2019 NSF International

Revision to NSF/ANSI/CAN 61-2018
Issue 149 Revision 1 (May 2019)

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

oxidative media (e.g., manganese green sand)	oxidation	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides
perlite	filtration	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	see footnote 2.
powdered activated carbon (PAC)	adsorption	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	see footnote 2.
metal-based media (e.g., granular iron, iron oxide, titanium dioxide, etc.)	adsorption	metals ¹ , GC/MS (base neutral acid scans), and radionuclides	metals ⁴ , GC/MS (base neutral acid scans), VOCs and radionuclides
sand	filtration	metals ¹ , GC/MS (base neutral acid scans) and radionuclides	see footnote 2.
synthetic media	aeration, filtration	formulation dependent	see footnote 2.

¹ Metals = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, selenium, thallium.

² These products are not typically regenerated or reactivated at remote locations. Therefore a minimum test battery has not been established. A full formulation review would be required for these products if they are evaluated under this standard.

³ GC/MS (base neutral acid scans) required if documentation identifying process controls intended to ensure complete activation/reactivation is not available.

⁴ Metals (for reactivated and regenerated media) = antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, mercury, selenium, thallium, aluminum, manganese, nickel, silver, tin, vanadium, zinc.

Rationale: Task group reviewed large data set originally collected by NSF and WQA (over 1,600 tests) and concluded that radionuclides could be removed from the minimum test battery for the following products: anthracite, garnet, granular activated carbon (GAC), gravel, oxidative media, powdered activated carbon (PAC), and sand. Recommendation per 2018 DWA-SC JC meeting discussion (November 29, 2018).

.

.

.

Annex B (normative)

Product / material evaluation

.

.

.

B.7 Analysis methods

.

.

.

B.7.5 Radionuclides analysis

Analyses for radionuclides shall be performed in accordance with *Prescribed Procedures for Measurement of Radioactivity in Drinking Water*, EPA-600/4-80-032. When no EPA Method is provided, analyses shall be performed in accordance with *Standard Methods for the Examination of Water and Wastewater* (most current edition). If neither of these two documents addresses the required parameters and matrix, or if an alternate method is desired, method validation shall be completed prior to the application of the method (see Section B.7.2.5).

Not for publication. This document is part of the NSF International standard development process. This draft text is for circulation for review and/or approval by a NSF Standards Committee and has not been published or otherwise officially adopted. All rights reserved. This document may be reproduced for informational purposes only.

B.7.5.1 Potassium-40 correction for Gross Beta

If the normalized concentration for gross beta exceeds the health effects evaluation criteria, analysis shall be completed for the naturally occurring potassium-40 beta particle activity from the same or equivalent sample used for the gross beta particle activity. As indicated in the Code of Federal Regulations (CFR 40 §141.26 (b)(4))¹, the potassium-40 beta particle activity (pCi/L) is calculated by multiplying elemental potassium concentrations (in mg/L) by a factor of 0.82. The gross beta particle and photon activity attributable to potassium-40 is then subtracted from the total gross beta particle activity value. The potassium-40 corrected gross beta particle and photon activity shall be compared against the health effects evaluation criteria.

B.7.5.2 Requirements for Gross Beta Speciation

When the potassium-40 corrected gross beta particle and photon activity exceeds a normalized concentration of 15 pCi/L, the beta emitting radioisotopes shall be speciated. Speciation testing is required for all radioisotopes at risk of exceeding the health effects evaluation criteria. Appendix I in USEPA Implementation Guidance for Radionuclides (2002) details a list of radioisotopes and associated doses (in pCi/L) to produce a 4 mrem/y dose². The USEPA Implementation Guidance for Radionuclides (2002)³ provides example calculations to determine the fractional contribution in mrem/yr dose for each speciated radioisotope. The fractional contributions shall be summed for comparison to the health effects evaluation criteria.

Rationale: Added guidance on potassium-40 subtraction for gross beta particle emissions and threshold for gross beta speciation per 2018 DWA-SC JC meeting discussion (November 29, 2018).

¹ *Code of Federal Regulations*, Monitoring Frequency and Compliance Requirements for Radionuclides in Community Water Systems, title 40, sec. 141.26.

² USEPA Implementation Guidance for Radionuclides, Appendices A – J, Appendix I Comparison of Derived Values of Beta and Photon Emitters

³ USEPA Implementation Guidance for Radionuclides, Section II-B.2 Violation/Compliance Determination of Gross Beta and Photon Emitters

Tracking number 61i151r1
© 2019 NSF

Revision to NSF/ANSI/CAN 61 – 2018
Issue 151 Revision 1 (May 2019)

Not for publication. This draft text is for circulation for approval by the Joint Committee on Drinking Water Additives – System Components and has not been published or otherwise officially promulgated. All rights reserved. This document may be reproduced for informational purposes only.

[Note – the changes are seen below using strikethrough for removal of old text and gray highlights to show the suggested text. ONLY the highlighted and strike-through text are within the scope of this ballot.]

NSF/ANSI/CAN Standard
for Drinking Water Additives -

Drinking Water System Components – Health Effects

.

Annex B (normative)

Product/material evaluation

.

Table B.3b – Alternate extraction water selection

Material type by section	Analyte of interest	X = Required extraction water selection				
		pH 5 (B.9.3)	pH 10 (B.9.7)	pH 6.5 (B.9.4)	pH 8 (B.9.8)	Reagent Water ⁴³ (B.9.3)
Sections 4, 5, 6, and 8						
Brass and bronze surfaces	all analytes				X	
Chrome, zinc, galvanized, and other non-brass and non-bronze metal surfaces excluding copper pipe ¹	metals	X	X			
	organics				X	
Copper pipe other than C12200 and copper alloy fittings used exclusively to join copper pipe	metals	X ²¹		X ²⁴	X	
	organics				X	
Copper (C12200) pipe, tubing and fittings	metals	X ³²			X	
	organics				X	
PVC and CPVC materials	metals	X	X			
	organics				X	
Cementitious and asphaltic materials	metals	X	X			
	organics				X	
Asphaltic coatings	metals	X	X			
	organics				X	
All other wetted surfaces	all analytes					
	metals	X			X	
	organics				X	

Tracking number 61i151r1
© 2019 NSF

Revision to NSF/ANSI/CAN 61 – 2018
Issue 151 Revision 1 (May 2019)

Not for publication. This draft text is for circulation for approval by the Joint Committee on Drinking Water Additives – System Components and has not been published or otherwise officially promulgated. All rights reserved. This document may be reproduced for informational purposes only.

¹ ~~Chrome, zinc, and galvanized surfaces refers to those intentionally coated and is not a selection criteria for small areas of overspray.~~

²¹ The pH 6.5 test water may be used in replacement of the pH 5 test water provided the requirements in 4.5.3.3 are also met.

³² Metals analysis with the pH 5 test water is not required provided the requirements in 4.5.3.2 are also met.

⁴³ Placeholder for eventual citing of test waters used for process media currently contained in section 7.

Rationale: Revised per 2018 DWA-SC JC meeting discussion (November 29, 2018) and per recommendation of the DWA Task Group on Extraction Water Chemistries following additional data review (4/29/19).

Note – Revised language addressing copper pipes and fittings was previously approved by the JC on 4/18/19 and has been incorporated into this draft ballot (61i150r1- copper pipe).



**2019 BSR/RVIA EXTLAD-1 RECOMMENDED PRACTICE Laboratory Test Procedures for
Exterior Ladders on Recreational Vehicles**

CODE CHANGE PROPOSALS

Revise section 1.1.2 to read as follows.

1.1.2 Test loads shall remain in place for a minimum of ~~5 minutes~~ 1 minute unless otherwise specified in this standard.

Revise section 4.3 and Figure 3 as referenced in section 4.2 as follows.

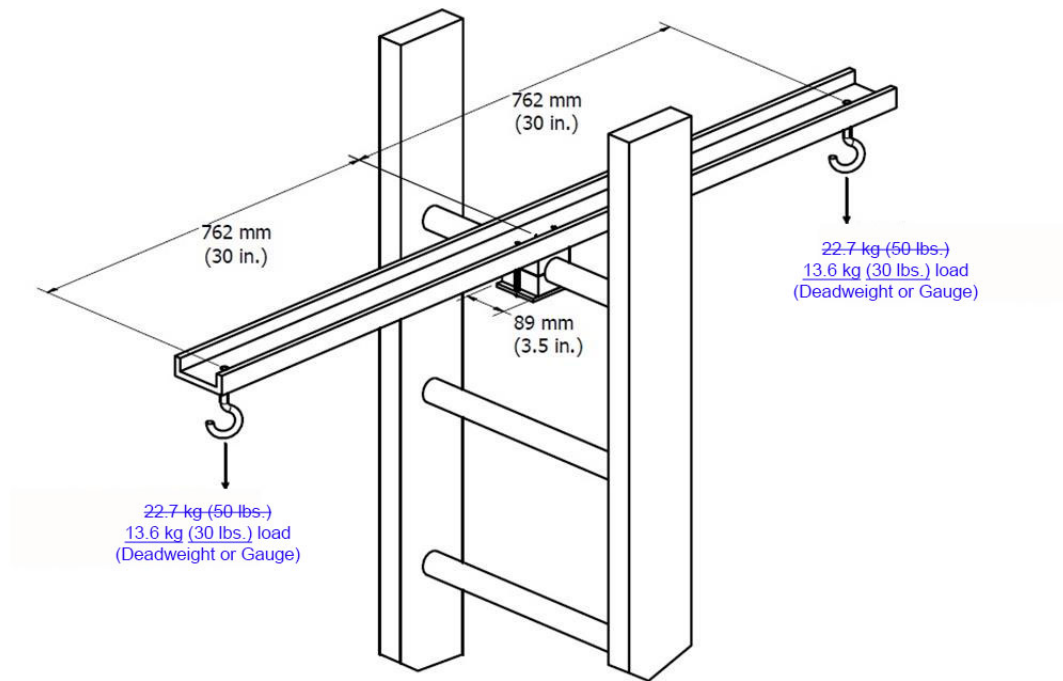
4.0 Rung Torque Test.

4.1 The rung torque test shall be conducted on a test unit that consists of either a single section of the ladder or on a short test section that comprises at least one rung and two beams/rails.

4.2 The test unit shall be positioned for testing and shall be tested as shown in Figure 3.

4.3 A torque test load of ~~469.5~~ 105.8 N-m (~~4500~~ 900 in.-lb.) shall be applied in a clockwise and then a counterclockwise direction, alternately, for ~~10~~ 5 cycles. The test load shall be held for 20 seconds. No permanent deformation is to be observed.

4.4 The rung joint shall be secured to the beams so that the alternating torque load shall not cause relative motion between the rung and the beams in excess of 9 degrees, based on a 1.6 mm (1/16 in.) maximum movement for a 32 mm (1 ¼ in.) diameter round rung.



Ladder Mounted at 90° to Horizontal

Figure 3

BSR/UL 8800, Standard for Safety for Horticultural Lighting Equipment And Systems

1. Proposed Adoption Of The First Edition Of The Standard For Horticultural Lighting Equipment And Systems, UL 8800, As A UL Standard For The U.S. and Canada

19.1.1 A horticultural luminaire shall comply with the marking requirements in UL 1598 or CSA C22.2 No. 250.0, and the marking requirements contained in this section of this Standard. Where a marking format such as ~~S24-L1~~ S16-L1 is stated, the format refers to marking size and marking location in accordance with the marking format table in UL 1598 or CSA C22.2 No. 250.0.

19.2.1 A horticultural luminaire using an HID lamp having an ANSI designation shall be marked with: "RELAMP WITH ____ WATT ____ TYPE LAMP" in marking format ~~S24-L1~~ S16-L1. The blank space for lamp type should indicate the ANSI lamp designation and MH or HPS.

19.2.2 A horticultural luminaire using an HID lamp that does not have an ANSI designation shall be marked with: "RELAMP WITH ____ WATT ____ TYPE LAMP" in marking format ~~S24-L1~~ S16-L1. The blank space for lamp type should indicate either MH or HPS.

19.2.3 A horticultural luminaire using a Metal-Halide (MH) lamp with an integral lamp containment barrier that does not have an ANSI lamp designation shall be marked with: "RELAMP WITH ____ WATT ____ TYPE LAMP" model ____, manufactured by ____" in marking format S16-L1.

19.2.4 A horticultural luminaire using an HID lamp and designed for use with a remote ballast and a lamp having an ANSI designation, shall be marked with: "USE BALLAST FOR ____ WATT ____ TYPE LAMP" in marking format ~~S24-L1~~ S16-L1. The blank space for lamp type should indicate the ANSI lamp designation and MH or HPS.

19.2.5 A horticultural luminaire using an HID lamp and designed for use with a remote ballast and a lamp not having an ANSI designation shall be marked with: "USE BALLAST FOR ____ WATT ____ VOLT ____ TYPE LAMP" in marking format ~~S24-L1~~ S16-L1. The blank space for lamp type should indicate either MH or HPS.

19.2.6 A horticultural luminaire having double-ended HID lamps and complying with the requirements in 12.4.1 (b) shall be marked adjacent to the lampholder connected to the grounded supply connection with: "**CAUTION - RISK OF SHOCK. DISCONNECT POWER BEFORE RELAMPING.**" in marking format ~~S24-L1~~ S16-L1.

19.2.7 A horticultural luminaire having double-ended HID lamps and complying with the requirements in 12.4.1 (c) shall be marked adjacent to the lampholder connected to the

grounded supply connection with: "**CAUTION - RISK OF SHOCK. DISCONNECT POWER BEFORE RELAMPING. INSERT IN THIS LAMPHOLDER FIRST.**" in marking format ~~S24-L4~~ S16-L1.

19.3.2 A horticultural luminaire having an LED light source and intended for connection to a remote LED driver with a constant voltage output shall include the following marking information on the horticultural luminaire in the format ~~S24-L3~~ S16-L3: constant voltage - voltage, nature of the supply (AC or DC), frequency (for AC rating only), and current or wattage.

19.3.3 A horticultural luminaire lighting equipment having an LED light source and intended for connection to a remote LED driver with a constant current output shall include the following marking information on the horticultural luminaire in the format ~~S24-L3~~ S16-L3: constant current - current, nature of the supply (AC or DC), frequency (for AC rating only), and voltage or wattage.

19.4.2 Lighting equipment having a light source classified as Risk Group 1 or Risk Group 2 for one or more of the spectral bands tabulated in Photobiological Safety Assessment, Section 15, shall be provided with markings on the lighting equipment and repeated within the installation and operating instructions in accordance with labeling requirements in IEC/TR 62471-2. The marking on the lighting equipment shall be in a location where visible after the horticultural luminaire is installed. The markings shall be provided verbatim in format ~~S24~~ S16 as defined in the Marking Section of UL 1598 or CSA C22.2 No. 250.0.

19.4.3 Lighting equipment having a user-replaceable light source, such as a fluorescent or HID lamp that has not been evaluated to the requirements in Photobiological Safety Assessment, Section 15, shall be marked as shown in Figure 19.1. The marking shall appear on the lighting equipment in a location where visible after the equipment is installed and repeated in the installation and operating instructions. The marking shall be provided verbatim in format ~~S24~~ S16 as defined in the Marking Section of UL 1598 or CSA C22.2 No. 250.0. The marking shall appear within a black-bordered box on a yellow background.

Annex B (CAN)

French translations

Table B.1

Markings - French translations

English Marking Content	French Marking Content	Text	Format	Paragraph reference
"CAUTION - RISK OF SHOCK. DISCONNECT	"ATTENTION - RISQUE D'ÉLECTROCUTION. DÉBRANCHER	Verbatim	S24-L4 <u>S16-L1</u>	19.2.6

POWER BEFORE RELAMPING."	L'ALIMENTATION AVANT DE RELAMPER <u>REEMPLACER LA LAMPE</u> ."			
"CAUTION - RISK OF SHOCK. DISCONNECT POWER BEFORE RELAMPING. INSERT IN THIS LAMPHOLDER FIRST."	"ATTENTION - RISQUE D'ÉLECTROCUTION. DÉBRANCHEZ L'ALIMENTATION AVANT DE REMPLACER LA LAMPE. INTRODUIRE DANS CETTE DOUILLE D'ABORD."	Verbatim	S24-L4 <u>S16-L1</u>	19.2.7
WARNING - POSSIBLE RISK OF INJURY TO EYES AND SKIN	<ul style="list-style-type: none"> • AVERTISSEMENT - RISQUE DE BLESSURE POSSIBLE AUX YEUX ET À LA PEAU 	Verbatim	S24 <u>S16</u>	Figure 19.1
<ul style="list-style-type: none"> • Hazardous optical radiation may be emitted from the light source. Do not stare at operating light source. May be harmful to the eyes. 	<ul style="list-style-type: none"> • Un rayonnement optique dangereux peut être émis par la source lumineuse. Ne regardez pas la source lumineuse quand elle est allumée. Peut être nocif pour les yeux. 			
<ul style="list-style-type: none"> • UV may be emitted from the light source. Eye or skin irritation may result from exposure. Use appropriate shielding. 	<ul style="list-style-type: none"> • La source lumineuse peut émettre des rayons UV. L'exposition peut provoquer une irritation des yeux ou de la peau. Utilisez un écran approprié. 			
<ul style="list-style-type: none"> • IR may be emitted from the light source. Do not stare at operating light source. 	<ul style="list-style-type: none"> • La source lumineuse peut émettre des rayons infrarouges. Ne regardez pas la source lumineuse quand elle est allumée. 			

UL copyrighted material. Not authorized for further reproduction without prior permission from UL.

BSR/UL 8, Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 4-2: Particular Requirements For Hedge Trimmers

1. Proposed Adoption Of The First Edition Of IEC 62841-4-2, Standard For Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery - Safety - Part 4-2: Particular Requirements For Hedge Trimmers, As The First Edition Of UL 62841-4-2

**Annex K
(normative)
Battery tools and battery packs**

Battery tools and battery packs All clauses of the main body of this Part 4-2 apply unless otherwise specified in this annex. If a clause is stated in this annex, its requirements replace the requirements of the main body of this Part 4-2 unless otherwise specified.

K.19.101.3.6 A handle release control shall have adequate strength and shall be sufficiently durable.

Compliance is checked by the following test:

~~The handle release control is actuated a total of 2 000 times, engaging all locking detent positions over the full range of travel of the adjustable handle, in both directions.~~

~~Each handle release control actuation consists of the following steps a) to d):~~

- ~~a) Starting from any locking detent position, activate the handle release control;~~
- ~~b) Begin rotation of the adjustable handle to the next locking detent position;~~
- ~~c) Release the handle release control at approximately the halfway point to the next locking detent position;~~
- ~~d) Continue rotation of the adjustable handle until the handle engages with the next locking detent position.~~

The release control is cycled 2 000 times in the manner described per 8.14.2 under conditions of the maximum intended travel of the release control at a minimum of 6 cycles per min.

After the test, there shall be no risk of fire and machines with **hazardous voltage** shall comply with Clause K.9, if the adjustment would cause stress on internal wiring.

At the conclusion of the conditioning, the handle release control shall perform as intended and shall comply with the following test:

While a handle is in any locking detent position, a torque of 6 Nm is applied for 1 min in line with the direction of its intended handle rotation, and it is applied in each direction of rotation.

During the test, the handle shall not disengage from the locking detent position(s), and the handle shall still operate correctly after the test. Electrical connections shall not have worked loose, and there shall be no deterioration impairing safety in **normal use**.

K.19.103.3.6 A **cutting device** release control shall have adequate strength and shall be sufficiently durable.

Compliance is checked by the following test:

~~The **cutting device** release control is actuated a total of 2 000 times, engaging all locking detent positions over the full range of travel of the adjustable **cutting device**, in both directions.~~

~~Each **cutting device** release control actuation consists of the following steps a) to d)~~

~~a) Starting from any locking detent position, activate the **cutting device** release control;~~

~~b) Begin adjustment of the **cutting device** to the next locking detent position;~~

~~c) Release the **cutting device** release control at approximately the halfway point to the next locking detent position;~~

~~d) Continue adjustment of the **cutting device** until the **cutting device** engages with the next locking detent position.~~

The release control is cycled 2 000 times in the manner described per 8.14.2 under conditions of its maximum intended travel at a minimum of 6 cycles per min.

After the test, there shall be no risk of fire and machines with **hazardous voltage** shall comply with Clause K.9, if the adjustment would cause stress on internal wiring.

At the conclusion of the conditioning, the **cutting device** release control shall perform as intended and shall comply with the following test:

While the **cutting device** is in any locking detent position, a torque of 6 Nm is applied for 1 min in line with the direction of its intended **cutting device** rotation, and it is applied in each direction of rotation.

During the test, the **cutting device** shall not disengage from the locking detent position(s), and the **cutting device** shall still operate correctly after the test. Electrical connections shall not have worked loose, and there shall be no deterioration impairing safety in **normal use**.

BSR/UL 844, Standard for Safety for Luminaires for Use in Hazardous (Classified) Locations

1. Revisions to Clause 45.10 to Add an Exception that Exempts Clause 32 Reference as Indicated in Item c)

PROPOSAL

45.10 A conduit hub not integrally cast with an enclosure shall:

- a) Have a wall thickness before threading not less than that of the corresponding trade-size conduit;
- b) Not depend upon friction alone to prevent it from turning; and
- c) Comply with the Test for Secureness of Conduit Hubs, Section 32.

Exception: Metallic enclosures constructed of 0.048 inch (1.22 mm) minimum steel or stainless steel, or 0.062 inch (1.57 mm) minimum aluminum using a UL Listed conduit hub certified for Class I, Division 2, Class II, Division 1 & 2, and Class III locations are exempt from 45.10 requirements.

BSR/UL 2157, Standard for Electric Clothes Washing Machines and Extractors

1. Miscellaneous corrections to fourth edition of UL 2157

PROPOSAL

14.3.2 Obvious wetting shall be considered to be wetting by a stream, spray, or dripping of water on the component. Obvious wetting shall be repeated during each test. Wetting by random drops of water that may wet the component by chance shall not be considered obvious wetting.

14.6.4 The tests in 14.6.2 - 14.6.3, shall not result in:

- a) a leakage current greater than 5.0 mA for cord-connected appliances;
- b) an insulation resistance of not less than 50, 000 Ω for permanently connected appliances;
- c) insulation breakdown as determined by repeating the electric strength test; or
- d) the obvious wetting of current-carrying materials; see [Clause 14.3.2](#). ~~note below.~~

~~Note: Obvious wetting is considered to be wetting by a stream, spray, or dripping of water on the component that will likely happen during each flooding, overfill, or spillage condition, or as a random occurrence.~~

26.1.4 Polymeric material employed to support a live part, in direct contact with a live part, or in the vicinity of a live part, as noted below, shall be rated for use at the operating temperature involved and shall have the following material properties determined in accordance with CAN/CSA C22.2 No. 0.17 and UL 746C:

- a) volume resistivity of at least 50 x ~~10⁶~~ ^{10⁶} ohm-cm;

Table 8

Polymeric materials test summary

(See Clause 26.1.3.)

Test No.	Test
1	Long-term exposure tests, Clause 26.2.
2	Immersion test No. 1 (1 000 h, dilute solution), Clause 26.3.
3	Immersion test No. 2 (1 000 h, 100% solution), Clause 26.3.
4	Immersion test No. 3 (168 h, dilute solution), Clause 26.3.
5	Mould stress-relief test (7 h), Clause 26.4.
6	Horizontal burning rate test, Clause 26.5.

7	Flammability test, Clause 26.6.
8	6.8 J impact test (ambient and low temperature), Clause 26.7.
9	Static load test (890 N), Clause 26.8.
10	56.7 J impact test, Clause 26.9.
11	Thermal cycling test, Clause 26.10.
12	Hot-wire-ignition test, Clause 26.11 26.12 .
13	Thermal ageing test, Clause 26.12 26.13 .
14	Volume resistivity test, Clause 26.13 26.14 .
15	Enclosure flammability - large mass consideration, Clause 26.14 26.15 .
16	Abnormal operation test on enclosures, Clause 26.15 26.16 .
17	Abnormal operation test on functional polymeric parts, Clause 26.16 26.17 .
18	Abnormal operation test on parts wetted only during an abnormal condition, Clause 26.17 26.18 .
19	High-current arc-ignition test, Clause 26.18.

Table 9

Tests on a polymeric part

(See Clause 26.1.3.)

Group ^a	Description	Applicable test number ^b
1	A decorative or nonfunctional part	6, 15 ^c
2	A functional polymeric part subjected to a temperature of not more than 65°C and not subjected to impact	5, 6, 15 ^c , 17
3	A functional polymeric part subjected to a temperature of not more than 65°C and subjected to impact	5, 6, 8, 9 ^{de} , 10 ^{de} , 15 ^c , 17
4	A functional polymeric part subjected to a temperature of more than 65°C and not subjected to impact	5, 6, 13 ^{hi} , 15 ^c , 17
5	A functional polymeric part subjected to a temperature of more than 65°C and subjected to impact	5, 6, 8, 9 ^{de} , 10 ^{de} , 13 ^{hi} , 15^c 15^e , 17

6	A part serving as an enclosure or supplementary enclosure and subjected to a temperature of not more than 65°C	5, 7 ^{e,g,f,h} , 8, 9 ^{d,e} , 10 ^{d,e} , 12, 13^h , 15 ^c , <u>16</u>
7	A part serving as an enclosure or supplementary enclosure and subjected to a temperature of more than 65°C	5, 7 ^{e,g,f,h} , 8, 9 ^{d,e} , 10 ^{d,e} , 12, 13 ^{h,i} , 15 ^c
8	A part spaced less than the distances specified in Clause <u>26.1.4(b and c)</u> ^j 26.1.4(a and c) ^j	14, 19 ^{f,g}
^a If a polymeric part falls into more than one test group, separate samples shall be subjected to the tests required for each group.		
^b These requirements do not fully cover a plated plastic part if loss of bond strength between the plastic substrate and the metal coating could result in a reduction of electrical spacings, reduction in mechanical strength, or reduction in resistance to flammability. A plated plastic part shall be the subject of a separate investigation.		
<u>^c These tests do not apply to an appliance readily movable from one place to another.</u>		
^{e,d} This test shall be conducted only on an external part having a dimension greater than 1.83 m or a projected surface area greater than 0.93 m ²		
^{d,e} This test may be waived for a console.		
^{e,f} An enclosure provided with a liner of vulcanized fibre, metal foil, or other material intended to reduce the flammability of the enclosure shall be tested with the liner in place, and the flame shall be applied to the liner.		
^{f,g} Additional consideration shall be given to an appliance protected by an overcurrent device rated more than 30 A.		
^{g,h} Wash-water tubs need only comply with Test No. 6 if the material for the lid complies with Test No. 7. A lid need only comply with Test No. 6 if the material of the wash-water tub complies with Test No. 7.		
^{h,i} Material used within its temperature index based on historical data or a long-term thermal ageing programme need not be subjected to Test No. 13.		
^{i,j} See also 26.1.4.		

BSR/UL 2158, Standard for Electric Clothes Dryers

1. Miscellaneous corrections to fifth edition of UL 2158

PROPOSAL

PROPOSAL

28.1.4 Polymeric material employed to support a live part, in direct contact with an uninsulated live part, or in the vicinity of an uninsulated live part as noted below shall be rated for use at the operating temperature involved and shall have the following material properties determined in accordance with CAN/CSA-C22.2 No. 0.17 and [UL 746C](#):

- a) volume resistivity of at least ~~50×10⁶~~ [50×10⁶](#) ohm-cm:
 - 1) This volume resistivity requirement is applicable to polymeric materials that serve as insulation between uninsulated live parts of opposite polarity, or between uninsulated live parts and dead metal parts that may be grounded in service or any surface exposed to user contact.
 - 2) In lieu of volume resistivity requirement the leakage current test of Clause [10](#) may be conducted to determine compliance.

Table 11

Tests on a polymeric part

(See Clause 28.1.3.)

Group ^a	Description	Applicable test number ^{b,f}
1	A decorative or nonfunctional part	2, 12 ^{c,d}
2	A functional polymeric part subjected to a temperature of not more than 65°C and not subjected to impact	1, 2, 12 ^{c,d} , 14
3	A functional polymeric part subjected to a temperature of not more than 65°C and subjected to impact	1, 2, 4, 5 ^e , 6 ^e , 12 ^{c,d} , 14
4	A functional polymeric part subjected to a temperature of more than 65°C and not subjected to impact	1, 2, 10 ^h , 12 ^{c,d} , 14
5	A functional polymeric part subjected to a temperature of more than 65°C and subjected to impact	1, 2, 4, 5 ^e , 6 ^e , 10 ^h , 12 ^{c,d} , 14

6	A part serving as an enclosure or supplementary enclosure and subjected to a temperature of not more than 65°C	1, 3 ^f , 4, 5 ^e , 6 ^e , 8 ^c , 9, 12 ^{c,d} , 13
7	A part serving as an enclosure or supplementary enclosure and subjected to a temperature of more than 65°C	1, 3 ^f , 4, 5 ^e , 6 ^e , 8 ^c , 9, 10 ^h , 12 ^{c,d} , 13
8	A part spaced less than the distances specified in Clause 28.1.4 (b) and (c)	11, 15 ^g
9	A part located in the air stream	2 ⁱ
^a If a polymeric part falls into more than one test group, separate samples shall be subjected to the tests required for each group.		
^b These requirements do not fully cover a plated plastic part if loss of bond strength between the plastic substrate and the metal coating can result in a reduction of electrical spacings, reduction in mechanical strength, or reduction in resistance to flammability. A plated plastic part shall be the subject of a separate investigation.		
^c These tests do not apply to an appliance readily movable from one place to another.		
^d This test shall be conducted only on an external part having a dimension greater than 1.83 m or a projected surface area greater than 0.93 m ² .		
^e This test may be waived for a console.		
^f An enclosure provided with a liner of vulcanized fibre, metal foil, or other material intended to reduce the flammability of the enclosure shall be tested with the liner in place, and the flame shall be applied to the liner.		
^g Additional consideration shall be given to an appliance protected by an overcurrent device rated more than 30 A.		
^h Material used within its temperature index based on historical data or a long-term thermal aging program need not be subjected to Test No. 10.		
ⁱ This test does not apply to a dryer drum seal or door gasket.		
See also Clause 28.1.4.		

SB13.3.2 If safety of the appliance depends upon the operation of a miniature fuse-link complying with IEC 60127-1 - Miniature Fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links ~~and UL 248-1~~, during any of the fault conditions specified in Clause [SB15.1.11](#), the test shall be repeated but with the miniature fuse-link replaced by an ammeter. If the current measured:

- a) Does not exceed 2.1 times the rated current of the fuse-link, the circuit is not considered to be adequately protected and the test is carried out with the fuse-link short-circuited;
- b) Is at least 2.75 times the rated current of the fuse-link, the circuit is considered to be adequately protected; and

c) Is between 2.1 times and 2.75 times the rated current of the fuse-link, the fuse link is short-circuited and the test is carried out:

- 1) for the relevant period or for 30 minutes, whichever is the shorter, for quick acting fuselinks; and
- 2) for the relevant period or for 2 minutes, whichever is the shorter, for time lag fuse-links.

SB13.3.4 The verification whether the fuse-link acts as a protective device is based on the fusing characteristics specified in IEC 60127-1 ~~and UL 248-1~~, which also gives the information necessary to calculate the maximum resistance of the fuse-link.

UL copyrighted material. Not authorized for further reproduction without prior permission from UL.