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.
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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

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Comment Deadline: January 14, 2018

NSF (NSF International)
Revision
BSR/NSF 49-201x (i111r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)
This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Allan Rose, (734) 827-3817, arose@nsf.org

NSF (NSF International)
Revision
BSR/NSF 50-201x (i136r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2016)
This Standard covers materials, components, products, equipment and systems, related to public and residential recreational water facility operation.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

NSF (NSF International)
Revision
BSR/NSF 350-201x (i27r2), Onsite residential and commercial, water reuse treatment systems (revision of ANSI/NSF 350-2017)
This Standard contains minimum requirements for onsite residential and commercial greywater treatment systems. Systems may include greywater reuse treatment systems having a rated treatment capacity up to 5,678 L/d (1,500 gal/d) or commercial greywater reuse treatment systems. This applies to onsite commercial reuse treatment systems that treat combined commercial facility greywater with capacities exceeding 5,678 L/d (1,500 gal/d) and commercial facility laundry water only of any capacity.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

UL (Underwriters Laboratories, Inc.)
Revision
BSR/UL 213-201x, Standard for Safety for Rubber Gasketed Fittings for Fire-Protection Service (revision of ANSI/UL 213-2013)
(1) Addition of requirements for fire testing for elastomer-lined change of direction fittings (elbows and tees) in new paragraph 7.4 and new section 16A.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Griff Edwards, 919 549-0956, griff.edwards@ul.com

UL (Underwriters Laboratories, Inc.)
Revision
This proposal for UL 746B covers the inclusion of specialized analysis of polymer variation (one-temperature, single-point thermal-aging program) with technical information and analytical tests to section 20.2. The original version of this proposal was published by UL on August 11, 2017.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

UL (Underwriters Laboratories, Inc.)
Revision
BSR/UL 746D-201x, Standard for Safety for Polymeric Materials - Fabricated Parts (revision of ANSI/UL 746D-2014)
These proposals for UL 746D cover (1) A revision of paragraph 10.2.6 with respect to Relative Thermal Index (RTI) assignment for recycled plastics with consistent identification and (2) A revision of paragraph 10.3.5 with respect to UV/water test consideration.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com
UL (Underwriters Laboratories, Inc.)

Revision
BSR/UL 2442-201x, Standard for Safety for Wall- and Ceiling-Mounts and Accessories (revision of ANSI/UL 2442-2014)
Revise the proposed change to add requirements to address products that support audio/video equipment attached to structures as the result of comments received.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Grace Roh, (919) 549-1389, Grace.Roh@ul.com

UL (Underwriters Laboratories, Inc.)

Revision
BSR/UL 2748-201x, Standard for Safety for Arcing Fault Quenching Equipment (revision of ANSI/UL 2748-2017)
These proposals for UL 2748 cover: (1) Clarification of scope of UL 2748; (2) Clarification of test requirements for resettable devices; (3) Revision of grounding requirements for transformers in paragraph 9.1; (4) CB trip output circuits - Addition of reference to IEEE C37.90 to new paragraph 14.3; (5) Addition of reference to IEEE C37.90.1 to new paragraph 14.4; (6) Addition of reference to IEEE C37.90.2 to new paragraph 14.5; (7) Addition of reference to IEEE C37.90.3 to new paragraph 14.6; and (8) Clarification of insulating material requirements for medium voltage parts.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

UL (Underwriters Laboratories, Inc.)

Revision
This recirculation proposal provides revisions to the UL 8750 proposal dated 2017-08-04.
Click here to view these changes in full
Send comments (with copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

Comment Deadline: January 29, 2018

AAFS (American Academy of Forensic Sciences)

New Standard
BSR/ASB BPR 009-201x, Best Practice Recommendations for the Examination of Human Remains by Forensic Pathologists in the Disaster Victim Identification Context (new standard)
The purpose of this document is to provide best practices and guidelines regarding post-mortem data collection by forensic pathologists to aid in the identification of human remains following a mass fatality incident. This document does not speak to the role forensic pathologists may have in death certification or in management of the overall operation, but rather is limited to the morgue operations role. In the absence of a specific guideline, the principle, spirit, and intent of this document should be met. The priorities established in a mass fatality incident will be dictated by the specifics of the incident and the directives established by the medicolegal authority of that jurisdiction. The forensic pathologist should recognize that the objectives addressed by the examination of human remains in a mass fatality incident may differ from routine caseload management in their daily practice. The examination objectives in cases where mortal injuries are externally obvious may prioritize data collection for identification purposes over internal demonstration of injuries with a complete autopsy. It is important that the forensic pathologist shift their perspective and recognize that what they consider essential in their daily caseload management practice may not be the objective in a specific mass fatality incident. In the DVI operation, the forensic pathologist belongs to a multi-disciplinary team and often serves as the main examiner or scientific team leader during the post-mortem examination. Forensic pathologists are responsible for the collection of data derived from the physical examination of human remains recovered from mass fatality incidents, for the purpose of: (1) scientific identification and (2) determination of cause and manner of death. This examination includes, but is not limited to, documentation of personal effects, recognition of unique morphoscopic identifiers, review of radiologic assessments and recovery of medical devices. Forensic pathologists also collect evidence and document injuries. DVI practitioners are encouraged to develop, implement, exercise, and review their mass fatality incident response operating procedures in light of these guidelines and best practices, and to update their procedures as needed. It is anticipated that these guidelines will evolve as future technologies emerge.
Single copy price: Free
Obtain an electronic copy from: http://asb.aafs.org/
Document and comments template can be viewed on the AAFS Standards Board website at: https://asb.aafs.org/notification-of-standard-development-and-coordination/
Send comments (with copy to psa@ansi.org) to: asb@aafs.org
ANS (American Nuclear Society)

Reaffirmation
BSR/ANS 15.21-2014 (R201x), Format and Content for Safety Analysis Reports for Research Reactors (reaffirmation of ANSI/ANS 15.21-2012)
This standard identifies specific information and analyses for inclusion in the safety analysis report for research reactors and establishes a uniform format for the report. This standard provides the criteria for the format and content for safety analysis reports for research reactors.
Single copy price: $136.00
Obtain an electronic copy from: scook@ans.org
Order from: scook@ans.org
Send comments (with copy to psa@ansi.org) to: pschroeder@ans.org

ASABE (American Society of Agricultural and Biological Engineers)

New Standard
BSR/ASABE S641 MONYEAR-201x, Droplet Size Classification of Aerial Application Nozzles (new standard)
Define droplet spectrum categories for the classification of spray nozzles, relative to specified reference fan nozzles in discharging spray into static air or so that no stream of air enhances atomization. The purpose of classification is to provide the nozzle user with droplet size information primarily to indicate off-site spray drift potential and secondarily for application efficacy and will redefine measurement setups, reference nozzles and operational settings specific to high-airspeed aerial spray nozzle testing.
Single copy price: $61.00
Obtain an electronic copy from: walsh@asabe.org
Order from: Jean Walsh, (269) 932-7027, walsh@asabe.org
Send comments (with copy to psa@ansi.org) to: Same

AWS (American Welding Society)

Revision
This specification provides the requirements for qualification of soldering procedure specifications, solderers, and soldering operators for manual, mechanized, and automatic soldering. The soldering processes included are torch soldering, furnace soldering, induction soldering, resistance soldering, dip soldering, iron soldering, and infrared soldering. Base metals, soldering filler metals, soldering fluxes, soldering atmospheres, and soldering joint clearances are also included.
Single copy price: $40.00
Obtain an electronic copy from: jrosario@aws.org
Order from: Jennifer Rosario, (800) 443-9353, jrosario@aws.org
Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

AWS (American Welding Society)

Revision
This code covers the requirements for welding steel reinforcing bars in most reinforced concrete applications. It contains a body of rules for the regulations of welding steel reinforcing bars and provides suitable acceptance criteria for such welds.
Single copy price: $62.00
Obtain an electronic copy from: sborrero@aws.org
Order from: Stephen Borrero, (305) 443-9353, sborrero@aws.org
Send comments (with copy to psa@ansi.org) to: Andrew Davis, (305) 443-9353, x466, adavis@aws.org

AWWA (American Water Works Association)

New Standard
BSR/AWWA G485-201x, Direct Potable Reuse Program Operation and Management (new standard)
This standard describes the critical requirements for the effective operation and management of a direct potable reuse water program.
Single copy price: Free
Obtain an electronic copy from: vdamid@awwa.org
Order from: Paul Olson, (303) 347-6178, polson@awwa.org; vdamid@awwa.org
Send comments (with copy to psa@ansi.org) to: Same
AWWA (American Water Works Association)

Revision
BSR/AWWA B504-201x, Monosodium Phosphate, Anhydrous and Liquid (revision of ANSI/AWWA B504-2012)
This standard describes monosodium phosphate, anhydrous and liquid, for use in the treatment of potable water, wastewater, and reclaimed water. The product described is an orthophosphate used as formulated and in blends to inhibit corrosion of water conveyance systems. The product described by this standard is also known as sodium phosphate, monobasic, anhydrous and liquid.
Single copy price: Free
Obtain an electronic copy from: v david @ awwa.org
Order from: Paul Olson, (303) 347-6178, polson@awwa.org; v david @ awwa.org
Send comments (with copy to psa@ansi.org) to: Same

AWWA (American Water Works Association)

Revision
BSR/AWWA B702-201x, Sodium Fluorosilicate (revision of ANSI/AWWA B702-2011)
This standard describes sodium fluorosilicate (Na2SiF6) for use in the treatment of potable water.
Single copy price: Free
Obtain an electronic copy from: v david @ awwa.org
Order from: Paul Olson, (303) 347-6178, polson@awwa.org; v david @ awwa.org
Send comments (with copy to psa@ansi.org) to: Same

CTA (Consumer Technology Association)

Revision
BSR/CTA 2037-A-201x, Determination of Television Average Power Consumption (revision of ANSI/CTA 2037-A-2014)
Determination of television average power consumption.
Single copy price: $81.00
Obtain an electronic copy from: standards@cta.tech
Order from: Veronica Lancaster, (703) 907-7697, vlancaster@cta.tech
Send comments (with copy to psa@ansi.org) to: Same

HI (Hydraulic Institute)

Revision
BSR/HI 7.6-201x, Controlled Volume Metering Pumps - Test (revision of ANSI/HI 7.6-2012)
This standard is for the testing of positive displacement reciprocating controlled-volume metering pumps (see ANSI/HI 7.1-7.5, Controlled-Volume Metering Pumps for Nomenclature, Definitions, Application, and Operation). These standards apply to test of the pump only, unless stated otherwise.
Single copy price: $70.00
Obtain an electronic copy from: dgiordano@pumps.org
Order from: Denielle Giordano, (973) 267-9700 x115, dgiordano@pumps.org
Send comments (with copy to psa@ansi.org) to: Same

ITSDF (Industrial Truck Standards Development Foundation, Inc.)

Reaffirmation
BSR/ITSDF B56.11.1-2012 (R201x), Double Race or Bi-Level Swivel and Rigid Industrial Casters (reaffirmation of ANSI/ITSDF B56.11.1-2012)
This standard establishes dimensional standards and load capacity criteria for double-race or bi-level swivel and rigid industrial casters in order to provide for the overall interchangeability of a complete caster.
Single copy price: Free
Obtain an electronic copy from: chris.merther@itsdf.org
Order from: Chris Merther, (202) 296-9880, itsdf@earthlink.net
Send comments (with copy to psa@ansi.org) to: Same
NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation
This is a guide for the proper selection of filament lamps for use in roadway and area lighting equipment covered by the following American National Standards: ANSI C136.4, ANSI C136.5, ANSI C136.6, and ANSI C136.11.
Single copy price: $42.00
Obtain an electronic copy from: karen.willis@nema.org
Order from: Karen Willis, (703) 841-3277, Karen.Willis@nema.org
Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation
BSR C136.6-2004 (R201x), Roadway and Area Lighting Equipment - Metal Heads and Reflector Assemblies - Mechanical and Optical Interchangeability (reaffirmation of ANSI C136.6-2004 (R2012))
This standard covers dimensional features of luminaires with metal heads that permit mechanical and optical interchangeability of both head and reflector assemblies.
Single copy price: $42.00
Obtain an electronic copy from: karen.willis@nema.org
Order from: Karen Willis, (703) 841-3277, Karen.Willis@nema.org
Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation
BSR C136.9-2004 (R201x), Roadway and Area Lighting Equipment - Socket Support Assemblies for Metal Heads - Mechanical Interchangeability (reaffirmation of ANSI C136.9-2004 (R2012))
This standard covers the following equipment for use in metal heads that are in accordance with the latest revision of ANSI C136.6: (a) High-intensity discharge lamp ballast and socket assemblies in accordance with Figure 1 of this standard; (b) Mogul and medium multiple incandescent lamp socket and support assemblies in accordance with Figure 2 of this standard.
Single copy price: $42.00
Obtain an electronic copy from: karen.willis@nema.org
Order from: Karen Willis, (703) 841-3277, Karen.Willis@nema.org
Send comments (with copy to psa@ansi.org) to: Same

NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation
BSR C136.29-2011 (R201x), Roadway and Area Lighting Equipment - Metal Halide Lamps - Guide for Selection (reaffirmation of ANSI C136.29-2011)
This selection guide includes screw-base single-ended metal halide lamps that can be used in roadway and area lighting equipment
Single copy price: $42.00
Obtain an electronic copy from: karen.willis@nema.org
Order from: Karen Willis, (703) 841-3277, Karen.Willis@nema.org
Send comments (with copy to psa@ansi.org) to: Same

NSF (NSF International)

New Standard
BSR/NSF 358-4-201x (i1r1), Polyethylene of Raised Temperature (PE-RT) Pipe and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems (new standard)
The physical and performance requirements in this Standard apply to plastic piping system components as well as non-plastic components of the ground loop heat exchanger including but not limited to polyethylene of raised temperature (PE-RT) pipes and fittings used in water-based ground-source heat pump systems. This standard does not cover refrigerant-based ground-loop heat exchangers such as direct expansion (DX) systems. This Standard does not cover hydronic heating or cooling systems within buildings.
Single copy price: Free
Order from: Jason Snider, (734) 418-6660, jsnider@nsf.org
Send comments (with copy to psa@ansi.org) to: Same
**NSF (NSF International)**

**Revision**

BSR/NSF 14-201x (i86r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016)

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

Single copy price: Free


Order from: Jason Snider, (734) 418-6660, jsnider@nsf.org

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

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**BSR/NSF 49-201x (i109r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)**

This Standard applies to Class II (laminar flow) biosafety cabinetry designed to minimize hazards inherent in work with agents assigned to biosafety levels 1, 2, 3, or 4. It also defines the tests that shall be passed by such cabinetry to meet this Standard. This Standard includes basic requirements for the design, construction, and performance of biosafety cabinets that are intended to provide personnel, product, and environmental protection; reliable operation; durability and structural stability; cleanability; limitations on noise level; illumination; vibration; and motor/blower performance.

Single copy price: Free

Obtain an electronic copy from: arose@nsf.org

Order from: Allan Rose, (734) 827-3817, arose@nsf.org

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

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**SAE (SAE International)**

**New Standard**


This standard prescribes test methods with minimum performance specifications, and provides vehicle location specifications for safety glazing materials for glazing motor vehicles and motor vehicle equipment operating on land highways.

Single copy price: $55.00

Obtain an electronic copy from: http://books.sae.org/sp-111/

Order from: N/A

Send comments (with copy to psa@ansi.org) to: Jennifer Collins; jennifer.collins@sae.org

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**TAPPI (Technical Association of the Pulp and Paper Industry)**

**Reaffirmation**

BSR/TAPPI T 530 om-201x, Size test for paper by ink resistance (Hercules-type method) (reaffirmation and redesignation of ANSI/TAPPI T 530 om-2012)

There are many methods for measuring the aqueous resistance of paper and paperboard. The many methods can be placed in categories depending on the way water hold-out is measured. One way of classifying tests could be direct versus indirect measurement. Another might be fixed time versus degree of penetration. Ink resistance by the Hercules method is best classified as a direct measurement test for the degree of penetration. Others classify it as a rate of penetration test. There is no one best test for measuring “sizing.” Test selection depends on end-use and mill-control needs. This method is especially suitable for use as a mill-control sizing test.

Single copy price: Free

Obtain an electronic copy from: standards@tappi.org

Order from: Laurence Womack, (770) 209-7276, standards@tappi.org

Send comments (with copy to psa@ansi.org) to: Same
TAPPI (Technical Association of the Pulp and Paper Industry)

Reaffirmation
BSR/TAPPI T 547 om-2012 (R201x), Air permeance of paper and paperboard (Sheffield method) (reaffirmation of ANSI/TAPPI T 547 om-2012)

This method is used to measure the air permeance of a circular area of paper using a pressure differential of approximately 10 kPa (1.5 psig). In order to accommodate a wide range of paper products, rubber clamping plates are available for five commonly used orifice diameters: 9.5 mm (0.375 in.), 19.1 mm (0.75 in.), 38.1 mm (1.50 in.), 57.2 mm (2.25 in.), and 76.2 mm (3.00 in.). The air flow range for this method is 0 to 3348 mL/min (0 to 400 Sheffield units). Instruments are available with either variable area flowmeters (glass tubes with internal tapers and floats) or electronic mass flowmeters.

Single copy price: Free
Obtain an electronic copy from: standards@tappi.org
Order from: Laurence Womack, (770) 209-7276, standards@tappi.org
Send comments (with copy to psa@ansi.org) to: Same

TCIA (ASC A300) (Tree Care Industry Association)

Reaffirmation
BSR A300 (Part 6)-20xx, Tree, Shrub, and Other Woody Plant Management Standard Practices (Planting and Transplanting) (reaffirmation of ANSI A300 (Part 6)-2012)

A300 standards are performance standards for the management of trees, shrubs, and other woody plants. They are also a guide in the drafting of maintenance specifications for federal, state, municipal, and private authorities including property owners, property managers, and utilities. BSR A300 (Part 6)-20xx, Planting and Transplanting, will provide standard practices for tree and woody plant installation and transplantation.

Single copy price: Free (Electronic copy); $15.00 each for S&H (Paper copies)
Obtain an electronic copy from: atetreault@tcia.org
Order from: Amy Tetreault; atetreault@tcia.org
Submit comments online at: www.tcia.org/A300Standards-CurrentProjects

Revision

A300 (Part 2) Soil Management standards are performance standards for management of soil including soil assessment; modification; fertilization; and drainage for trees, shrubs, and other woody plants. 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 each for S&H (Paper copies)
Obtain an electronic copy from: atetreault@tcia.org
Order from: Amy Tetreault; atetreault@tcia.org
Submit comments online at: www.tcia.org/A300Standards-CurrentProjects

Revision
BSR A300 (Part 7)-20xx, Tree, Shrub, and Other Woody Plant Management Standard Practices (Integrated Vegetation Management) (revision of ANSI A300 (Part 7)-2012)

A300 standards are performance standards for the management of trees, shrubs, and other woody plants. They are also a guide in the drafting of maintenance specifications for federal, state, municipal, and private authorities including property owners, property managers, and utilities. BSR A300 (Part 7)-20xx, Integrated Vegetation Management, will provide standard practices for vegetation control using cultural, chemical, mechanical methods, and related methods in a coordinated program/system.

Single copy price: Free (Electronic copy); $15.00 each for S&H (Paper copies)
Obtain an electronic copy from: atetreault@tcia.org
Order from: Amy Tetreault; atetreault@tcia.org
Submit comments online at: www.tcia.org/A300Standards-CurrentProjects
TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 569-D-2-201x, Telecommunications Pathways And Spaces: Addendum 2 - Guidelines For Supporting Remote Powering (addenda to ANSI/TIA 569-D-1-2016)

This Addendum provides guidelines for pathways supporting cabling used for remote power delivery in addition to supporting data transmission.

Single copy price: $67.00
Obtain an electronic copy from: standards@tiaonline.org
Order from: TIA; standards@tiaonline.org
Send comments (with copy to psa@ansi.org) to: Same

UL (Underwriters Laboratories, Inc.)

New National Adoption


Single copy price: Contact comm2000 for pricing and delivery options
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Beth Northcott, (847) 664-3198, Elizabeth.Northcott@ul.com

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 4143-201X, Standard for Safety for Wind Turbine Generator - Life Time Extension (LTE) (new standard)

The industry needs the support and guidance on how to examine the remaining useful life of wind turbines and wind farms, taking into account the site-specific and operational conditions. This proposed first edition is being recirculated to provide this guidance on life-time extension of wind turbines.

Single copy price: Contact comm2000 for pricing and delivery options
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Casey Granata, (919) 549-1054, Casey.Granata@UL.com

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 7006-201x, Standard for Sustainability for Household Room Air Conditioning Appliances (new standard)

This Standard covers room air conditioning appliances for households included within the scope of the U.S. Department of Energy (DoE) and Natural Resources Canada (NRCan) minimum energy performance requirements.

Single copy price: Contact comm2000 for pricing and delivery options
Order from: comm2000
Send comments (with copy to psa@ansi.org) to: Ritu Madan, (847) 664-3297, ritu.madan@ul.com

VITA (VMEbus International Trade Association (VITA))

New Standard

BSR/VITA 48.4-201x, Liquid-Flow-Through VPX Plug-In Module Standard (new standard)

This standard establishes the mechanical design interface control, outline, and mounting requirements for a liquid-flow-through cooled plug-in unit to ensure the mechanical intermateability of 6U VPX liquid-flow-through cooled plug-in module within associated sub-racks. The connector layout remains common with VITA 46. This plug-in module uses liquid flowing through an integral heat sink of the unit for cooling the electronic components and circuit boards. The quick disconnect coupling assemblies allow fluidic coupling to the chassis coolant manifold.

Single copy price: $25.00
Obtain an electronic copy from: admin@vita.com
Order from: n/a
Send comments (with copy to psa@ansi.org) to: admin@vita.com
**VITA (VMEbus International Trade Association (VITA))**

**Revision**
BSR/VITA 46.9-201x, PMC/XMC Rear I/O Fabric Signal Mapping on 3U and 6U VPX Modules Standard (revision of ANSI/VITA 46.9-2010)

Revise standard to add pin-out options to J2/P2 connector where they may be half-populated or not be populated at all.

Single copy price: $25.00

Obtain an electronic copy from: admin@vita.com

Order from: n/a

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

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**Comment Deadline: February 13, 2018**

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

**ASME (American Society of Mechanical Engineers)**

**New Standard**
BSR/ASME NM-1-201x, Thermoplastic Piping Systems (new standard)

(a) This standard prescribes requirements for the design, materials, fabrication, erection, examination, testing, and inspection of thermoplastic piping systems.

(b) Thermoplastic piping as used in this standard includes pipe, flanges, bolting, gaskets, valves, fittings, special connecting components, and the pressure containing portions of other piping components, whether manufactured in accordance with Standards referenced in this standard or specially designed. It also includes hangers and supports and other equipment items necessary to prevent overstressing the pressure containing components.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Jihoon Oh, (212) 591-8544, ohj@asme.org

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**ASME (American Society of Mechanical Engineers)**

**New Standard**
BSR/ASME NM-2-201x, Glass-Fiber-Reinforced Thermosetting Resin Piping Systems (new standard)

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

(b) Glass-fiber-reinforced thermosetting resin piping as used in this Standard includes pipe, flanges, bolting, gaskets, valves, fittings, special connecting components, and the pressure-containing or retaining portions of other piping components, whether manufactured in accordance with documents referenced in this Standard or specially designed. It also includes hangers and supports and other equipment items necessary to prevent overstressing the pressure-containing components.

Single copy price: Free

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

Order from: Mayra Santiago, ASME; ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Jihoon Oh, (212) 591-8544, ohj@asme.org

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**OPEI (Outdoor Power Equipment Institute)**

**New Standard**
BSR/OPEI B71.7-201x, Powered Consumer Ram-Type Log Splitters - Safety Specifications (new standard)

The safety specifications given in this standard are for powered consumer (a) hydraulic-ram log splitters and (b) mechanical-ram log splitters. Power may be supplied by an internal-combustion engine or an electric motor. These specifications are intended to provide safety requirements and to help ensure uniform operator environments. They are intended to apply to products specifically intended as consumer products for the personal use of a consumer around the home.

Single copy price: $180.00

Obtain an electronic copy from: dmustico@opei.org

Order from: Daniel Mustico, (703) 549-7600, dmustico@opei.org

Send comments (with copy to psa@ansi.org) to: Same
UL (Underwriters Laboratories, Inc.)

New Standard
BSR/UL 1204-201X, Standard for Parts Cleaners (Proposal dated 12-15-17) (new standard)
UL proposes the first edition of UL 1204 which covers parts cleaners used for cleaning or removing grease and similar substances from the item contaminated. These requirements cover electrically operated parts cleaners rated up to 600 V, or manual-type parts cleaners with no electrical connection. These units are intended for use with flammable/combustible liquids or non-flammable/non-combustible cleaning solutions as detailed in the instruction manual provided with the unit and labels on the unit.
Single copy price: Contact comm2000 for pricing and delivery options
Obtain an electronic copy from: http://www.shopulstandards.com
Order from: Comm2000, 151 Eastern Avenue, Bensenville, IL 60106 USA, 1-888-853-3503
Send comments (with copy to psa@ansi.org) to: Ross Wilson, (919) 549-1511, Ross.Wilson@ul.com

Notice of Withdrawn ANS by an ANSI-Accredited Standards Developer
In accordance with clause 4.2.1.3.2 Withdrawal by ANSI-Accredited Standards Developer of the ANSI Essential Requirements, the following American National Standards have been withdrawn as an ANS.

ATIS (Alliance for Telecommunications Industry Solutions)
Questions may be directed to: Alexandra Blasgen, (202) 434-8840, ablasgen@atis.org

Correction
Repeated Call-for-Comment Listings

BSR/ASTM F1047 and BSR/ASTM WK23821

Both ASTM proposed ANS, BSR/ASTM F1047 and WK23821 were mistakenly listed in the 12/8/2017 Standards Action with a Comment Deadline of 1/22/2018. The correct Call-for-Comment dates for these projects were announced in Standards Action 11/10/2017 with the Comment Deadline of 12/25/2017.
Order from and send comments to: Corice Leonard, (610) 832-9744, accreditation@astm.org.
Call for Members (ANS Consensus Bodies)

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

AAMI (Association for the Advancement of Medical Instrumentation)
Office: 4301 N Fairfax Drive
        Suite 301
        Arlington, VA  22203-1633
Contact: Will Vargas
Phone: (703) 647-2779
E-mail: wvargas@aami.org

BSR/AAMI/ISO 20417-201x, Medical Devices - Information to be provided by the manufacturer (new standard)

ALI (ASC A14) (American Ladder Institute)
Office: 330 N. Wabash Avenue, Suite 2000
        Chicago, IL  60611
Contact: Ben Barclay
Phone: (312) 673-5923
E-mail: info@americanladderinstitute.org

BSR A14.4-201x, Standard Safety Requirements - Job Made Ladders (revision of ANSI A14.4-2009)
BSR A14.7-201x, Standard Safety Requirements - Rolling Ladders (revision of ANSI A14.7-2012)
BSR A14.8-201x, Standard Safety Requirements - Requirements for Ladder Accessories (revision of ANSI A14.8-2013)

ASME (American Society of Mechanical Engineers)
Office: Two Park Avenue
        New York, NY  10016
Contact: Mayra Santiago
Phone: (212) 591-8521
Fax: (212) 591-8501
E-mail: ansibox@asme.org

BSR/ASME NM-1-200x, Thermoplastic Piping Systems (new standard)
BSR/ASME NM-2-200x, Glass-Fiber-Reinforced Thermosetting Resin Piping Systems (new standard)

CTA (Consumer Technology Association)
Office: 1919 South Eads Street
        Arlington, VA  22202
Contact: Veronica Lancaster
Phone: (703) 907-7697
Fax: (703) 907-4197
E-mail: vlancaster@cta.tech

BSR/CTA 2037-A-201x, Determination of Television Average Power Consumption (revision of ANSI/CTA 2037-A-2014)

HI (Hydraulic Institute)
Office: 6 Campus Drive
        Parsippany, NJ 07054
Contact: Danielle Giordano
Phone: (973) 267-9700 x115
E-mail: dgiordano@pumps.org

BSR/HI 7.6-201x, Controlled Volume Metering Pumps - Test (revision of ANSI/HI 7.6-2012)

ICE (Institute for Credentialing Excellence)
Office: 2025 M Street NW, Suite 800
        Washington, DC  20036
Contact: Linda Anguish
Phone: (202) 367-1165
E-mail: Linda.Anguish@credentialingexcellence.org

BSR/ICE 1100-201x, Standard for Assessment-Based Certificate Programs (revision and redesignation of ANSI/NOCA 1100-2009)

LES (Licensing Executives Society (U.S. and Canada))
Office: 11130 Sunrise Valley Dr., Suite 350
        Reston, VA  20191
Contact: Tanya Coogan
Phone: (703) 234-4109
Fax: (703) 234-4109
E-mail: tcoogan@les.org

BSR/LES IAB 1.1-200x, Intellectual Assets in the Boardroom (new standard)
BSR/LES IPPSC 1.1-201x, IP Protection in the Supply Chain (new standard)

NEMA (ASC C136) (National Electrical Manufacturers Association)
Office: 1300 North 17th Street
        Suite 900
        Rosslyn, VA  22209
Contact: Karen Willis
Phone: (703) 841-3277
Fax: (703) 841-3378
E-mail: Karen.Willis@nema.org

BSR C136.6-2004 (R201x), Roadway and Area Lighting Equipment - Metal Heads and Reflector Assemblies - Mechanical and Optical Interchangeability (reaffirmation of ANSI C136.6-2004 (R2012))
BSR C136.9-2004 (R2012), Roadway and Area Lighting Equipment - Socket Support Assemblies for Metal Heads - Mechanical Interchangeability (reaffirmation of ANSI C136.9-2004 (R2012))


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

BSR/NSF 14-201x (i86r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016)

BSR/NSF 49-201x (i109r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

BSR/NSF 49-201x (i111r2), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

BSR/NSF 50-201x (i136r1), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2016)

BSR/NSF 350-201x (i27r2), Onsite residential and commercial, water reuse treatment systems (revision of ANSI/NSF 350-2017)

BSR/NSF 358-4-201x (i1r1), Polyethylene of Raised Temperature (PE-RT) Pipe and Fittings for Water-Based Ground-Source (Geothermal) Heat Pump Systems (new standard)

OPEI (Outdoor Power Equipment Institute)
Office: 341 South Patrick Street
Alexandria, VA 22314
Contact: Daniel Mustico
Phone: (703) 678-2990
Fax: (703) 549-7604
E-mail: dmustico@opei.org

BSR/OPEI B71.7-201x, Powered Consumer Ram-Type Log Splitters - Safety Specifications (new standard)

TIA (Telecommunications Industry Association)
Office: 1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Contact: Teesha Jenkins
Phone: (703) 907-7706
Fax: (703) 907-7727
E-mail: standards@tiaonline.org

BSR/TIA 569-D-2-201x, Telecommunications Pathways And Spaces: Addendum 2 - Guidelines For Supporting Remote Powering (addenda to ANSI/TIA 569-D-1-2016)

UL (Underwriters Laboratories, Inc.)
Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995
Contact: Griff Edwards
Phone: 919 549-0956
E-mail: griff.edwards@ul.com


VITA (VMEbus International Trade Association (VITA))
Office: 929 W. Portobello Avenue
Mesa, AZ 85210
Contact: Jing Kwok
Phone: (602) 281-4497
E-mail: jing.kwok@vita.com

BSR/VITA 17.3-201x, Serial Front Panel Data Port (sFPDP) Gen 3.0 (new standard)

BSR/VITA 46.0-201x, VPX Baseline Standard (revision of ANSI/VITA 46.0-2013)

BSR/VITA 46.9-201xx, PMC/XMC Rear I/O Fabric Signal Mapping on 3U and 6U VPX Modules Standard (revision of ANSI/VITA 46.9-2010)

BSR/VITA 48.4-201x, Liquid-Flow-Through VPX Plug-In Module Standard (new standard)

BSR/VITA 66.5-201x, Optical Interconnect on VPX, Spring-Loaded Contact on Backplane (new standard)

BSR/VITA 67.2-201x, Coaxial Interconnect on VPX, 8 Position SMPM (revision of ANSI/VITA 67.2-2012)

BSR/VITA 78.1-201xx, Lightweight Space VPX Systems Standard (new standard)
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.
Standards Action - December 15, 2017 - Page 15 of 59 pages

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.

**AGMA (American Gear Manufacturers Association)**

*Revision*


**AIAA (American Institute of Aeronautics and Astronautics)**

*New Standard*


**ASABE (American Society of Agricultural and Biological Engineers)**

*Reaffirmation*


ANSI/ASAE S319.4-2008 (R2017), Method of Determining and Expressing Fineness of Feed Materials by Sieving (reaffirmation of ANSI/ASAE S319.4-2008 (R2013)): 12/11/2017

**ASME (American Society of Mechanical Engineers)**

*Revision*


**ASTM (ASTM International)**

*New Standard*


*Reaffirmation*


ANSI/ASTM F1602-2012 (R2017), Specification for Kettles, Steam-Jacketed, 20 to 200 gal (75.7 to 757 L), Floor or Wall Mounted, Direct Steam, Gas and Electric Heated (reaffirmation of ANSI/ASTM F1602-2012): 11/21/2017


ANSI/ASTM F2834-2010 (R2017), Specification for Induction Cooktops, Counter Top, Drop-in Mounted, or Floor Standing (reaffirmation of ANSI/ASTM F2834-2010): 11/21/2017


*Revision*


**CSA (CSA Group)**

**New Standard**


**Revision**


**IEEE (Institute of Electrical and Electronics Engineers)**

**New Standard**


**Revision**


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

**New National Adoption**


**Reaffirmation**

- INCITS 359-2012 [R2017], Information technology - Role Based Access Control (reaffirmation of INCITS 359-2012): 12/6/2017


**Stabilized Maintenance**


**Withdrawal**


**NEMA (ASC C8) (National Electrical Manufacturers Association)**

**New Adoption**


New Standard

Reaffirmation

Revision

VC (ASC Z80) (The Vision Council)
New Standard
**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.

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**AMA (Association for the Advancement of Medical Instrumentation)**

**Office:** 4301 N Fairfax Drive  
Suite 301  
Arlington, VA 22203-1633  
**Contact:**Will Vargas  
**E-mail:**vvargas@aaami.org

**BSR/AAMA/ISO 20417-201x, Medical Devices - Information to be provided by the manufacturer (new standard)**

**Stakeholders:** Manufacturing, testing labs, regulatory.  
**Project Need:** This document is intended to replace or supplement the often-repetitive labeling requirements that are common among the product standards of medical devices.  
This document specifies the requirements for information supplied by the manufacturer, as defined in 3.8, for a medical device or accessory. This document includes the generally applicable requirements for identification, marking, and documentation of a medical device or accessory. This document does not specify the language to be used for such information, nor does it specify the means by which the information is to be supplied. This document has been prepared to support the essential principles of safety and performance for the information supplied by the manufacturer of a medical device according to ISO 16142-1:2015.

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**AGMA (American Gear Manufacturers Association)**

**Office:** 1001 N Fairfax Street, 5th Floor  
Alexandria, VA 22314-1587  
**Contact:** Amir Aboutaleb  
**E-mail:** tech@AGMA.org

**BSR/AGMA 2003-201x, Rating the Pitting Resistance and Bending Strength of Generated Straight Bevel, Zerol Bevel and Spiral Bevel Gear Teeth (revision of ANSI/AGMA 2003-2010 (R2015))**

**Stakeholders:** Manufacturers and users of bevel gears.  
**Project Need:** Update standard to reflect current state-of-the-art.  
This standard specifies a method for rating the pitting resistance and bending strength of generated-straight-bevel, zerol-bevel, and spiral-bevel gear teeth.

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**ALI (ASC A14) (American Ladder Institute)**

**Office:** 330 N. Wabash Avenue, Suite 2000  
Chicago, IL 60611  
**Contact:** Ben Barclay  
**E-mail:** info@americanladderinstitute.org

* **BSR A14.4-201x, Standard Safety Requirements - Job Made Ladders**  
**Stakeholders:** Ladder manufacturers, users, contractors, tradespeople.  
**Project Need:** Incorporate updates and necessary changes.  
The purpose of this standard is to provide reasonable safety for life and limb during any construction or demolition operation where conditions are not practical or permit the erection of temporary stairs or ramps. This standard provides a guide for compliance with minimum required specifications when job-made wooden ladders are being constructed for temporary access on construction and demolition operations.

* **BSR A14.7-201x, Standard Safety Requirements - Rolling Ladders**  
**Stakeholders:** Ladder manufacturers, users, contractors, tradespeople.  
**Project Need:** Incorporate updates and necessary changes.  
This standard establishes requirements to be met for the design, construction, testing, care, maintenance, and use of mobile ladder stands and mobile-ladder-stand platforms. In order for users to develop effective operating procedures, this standard may also serve as a basis for instructing and training personnel in proper equipment use. It is not the purpose of this standard to specify all the details of construction of mobile ladder stands and mobile-ladder-stand platforms. The limitations imposed are for the purpose of providing adequate general requirements and test methods.

* **BSR A14.8-201x, Standard Safety Requirements - Requirements for Ladder Accessories (revision of ANSI A14.8-2013)**  
**Stakeholders:** Ladder manufacturers, users, contractors, tradespeople.  
**Project Need:** Incorporate updates and necessary changes.  
The purpose of this standard is to provide reasonable safety for life, limb, and property. This standard may serve as a basis for purchasing requirements, instruction, and training of personnel and preparation of brochures, manuals, etc., regarding safe ladder and ladder accessory use, care, and maintenance. This standard is intended to provide guidelines for the safe design and construction of ladder accessories covered by this standard. It is also intended to provide the manufacturer of ladders and ladder accessories with a set of design, performance, and construction requirements to which this product may be compared.
This standard pertains to assessment-based certificate programs. An assessment-based certificate program is a non-degree granting program that: (a) provides instruction and training to aid participants in acquiring specific knowledge, skills, and/or competencies associated with intended learning outcomes; (b) evaluates participants’ accomplishment of the intended learning outcomes; and (c) awards a certificate only to those participants who meet the performance, proficiency, or passing standard for the assessment(s) (hence the term, “assessment-based certificate program”).
BSR/LES PB 1.1-201x, Conduct in Patent Brokerage (new standard)
Stakeholders: Inventors, patent owners, implementers and prospective implementers of patents, and intermediaries, including all entities and individuals in the IP management and transnational community.
Project Need: Patents are a significant component of the intellectual property market, a significant and growing segment of the economy of the United States, which is characterized by divergent and sometimes inefficient transactional practices that create unfairness and/or inefficiency. Transactions involving the purchase and sales of patents will be completed more efficiently when patent owners and their brokers are guided by standards of conduct directed to the negotiation and completion of such transactions.
This LES standard will prescribe the requisite documents and base-level procedures for the conduct of brokers in the brokered patent market for facilitating the purchase and sale of patents. The business processes and conduct to be prescribed in the standard will be applicable to businesses and individuals participating in the brokerage of patents and persons associated with those participants who provide patent brokerage services. It is anticipated that the adoption of this standard will, among other things, reinforce the trust of intermediaries in the patent marketplace and expedite the process of purchases and sales of patents in the brokered patent market.

NFPA (National Fire Protection Association)
Office: One Batterymarch Park
Quincy, MA 02169
Contact: Dawn Michele Bellis
E-mail: dbellis@nfpa.org

BSR/NFPA 451-201x, Guide for Community Healthcare Programs (new standard)
Stakeholders: Manufacturers, insurance, research and testing, users, enforcement, consumers, installers/maintainers, labor, special experts.
Project Need: Public interest and need.
This guide is to provide direction to agencies supporting the EMS mission for planning, preparing, implementing and evaluating community healthcare programs in an effort to meet the changing needs of the communities they serve.

BSR/NFPA 452-201x, Standard for Hybrid (Water and Inert Gas) Fire-Extinguishing Systems (new standard)
Stakeholders: Manufacturers, insurance, research and testing, users, enforcement, consumers, installers/maintainers, labor, special experts.
Project Need: Public interest and need.
This standard contains the minimum requirements for the design, installation, acceptance, maintenance, and testing of hybrid fire-extinguishing systems that use a combination of atomized water and inert gas to extinguish fire.

BSR/NFPA 770-201x, Standard on Hybrid (Water and Inert Gas) Fire-Extinguishing Systems (new standard)
Stakeholders: Manufacturers, insurance, research and testing, users, enforcement, consumers, installers/maintainers, labor, special experts.
Project Need: Public interest and need.
This standard contains the minimum requirements for the design, installation, acceptance, maintenance, and testing of hybrid fire-extinguishing systems that use a combination of atomized water and inert gas to extinguish fire.

BSR/NFPA 1937-201x, Standard for the Selection, Care, and Maintenance of Rescue Tools (new standard)
Stakeholders: Manufacturers, insurance, research and testing, users, enforcement, consumers, installers/maintainers, labor, special experts.
Project Need: Public interest and need.
This document shall specify the selection, care and maintenance of rescue tools and associated components, to also include shoring and stabilization equipment used in vehicle extrication.

SCTE (Society of Cable Telecommunications Engineers)
Office: 140 Philips Road
Exton, PA 19341-1318
Contact: Rebecca Yatchenko
E-mail: ryaletchko@scte.org

BSR/SCTE IPS TP 228-201x, Test Method Common Mode Disturbance (new standard)
Stakeholders: Cable Telecommunication industry.
Project Need: Create new standard.
The purpose of this test is to determine the common mode disturbance generated by power electronics in active CPE equipment. Since conducted disturbances on the AC port is already a part of the FCC testing requirements, this method focuses on measurements of the common mode disturbance on the coaxial port. Common mode disturbance from stand-alone power supplies are conducted through a common ground plane on the CPE device to the outer conductor of the coaxial port. Therefore, stand-alone power supplies are also within the scope of this standard.

UL (Underwriters Laboratories, Inc.)
Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995
Contact: Griff Edwards
E-mail: griff.edwards@ul.com

Stakeholders: Enhanced radio manufacturers; fire alarm system manufacturers; UL 864 (UOJZ and UOXX); UL 2572, AHJs, Users; First responders.
(1) These requirements cover discrete equipment used for in-building 2-way radio communication enhancement systems installed in a location to improve wireless communication at that location; (2) These requirements cover products to be employed in accordance with the International Fire Code (IFC) and with the following National Fire Protection Association (NFPA) standards: (a) Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems, NFPA 1221; (b) National Fire Alarm and Signaling Code, NFPA 72.
BSR/UL 62790-201x, Standard for junction boxes for photovoltaic modules - Safety requirements and tests (national adoption with modifications of IEC 62790)

Stakeholders: Photovoltaic industry, producers, installers, and certification bodies.
Project Need: Adoption of an International Standard covering safety requirements, constructional requirements and tests for junction boxes up to 1 500 V dc for use on PV modules.
Safety requirements, constructional requirements and tests for junction boxes up to 1 500 V dc for use on PV modules according to class II of IEC 61140:2001. Enclosures mounted on PV-modules containing electronic circuits for converting, controlling, monitoring, or similar operations. Additional requirements concerning the relevant operations are applied under consideration of the environmental conditions of the PV-modules. This standard does not apply to the electronic circuits of these devices, for which other UL standards apply.

BSR/UL 62852-201x, Standard for connectors for DC-application in photovoltaic systems - Safety requirements and tests (national adoption with modifications of IEC 62852)

Stakeholders: Photovoltaic industry, producers, installers, and certification bodies.
Project Need: Adoption of an International Standard covering safety requirements, constructional requirements and tests for junction boxes up to 1 500 V dc for use on PV modules.

This standard applies to connectors for use in the d.c. circuits of photovoltaic systems according to class II of IEC 61140:2001 with rated voltages up to 1 500 V d.c. and rated currents up to 125 A per contact.

This standard applies to connectors for use in the d.c. circuits of photovoltaic systems according to class II of IEC 61140:2001 with rated voltages up to 1 500 V d.c. and rated currents up to 125 A per contact. This standard applies to connectors without breaking capacity but which might be engaged and disengaged under voltage. This standard also applies to connectors which are intended to be built-in or integrated in enclosures of devices for photovoltaic systems.

BSR/VITA 17.3-201x, Serial Front Panel Data Port (sFPDP) Gen 3.0 (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.
Project Need: Address need to support higher data rates.

This document defines VITA 17.3, Serial FPDP Gen 3.0 (sFPDP), a high-speed serial communications interface. Included in this definition are various user data framing methods, supported system configurations, and the Link Layer Protocol.

BSR/VITA 46.0-201x, VPX Baseline Standard (revision of ANSI/VITA 46.0-2013)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.
Project Need: Fills the need for a printed circuit module with high-performance connector for use with high-speed serial fabrics in embedded applications.

This standard describes VITA 46.0 VPX Baseline Standard, an evolutionary step forward for the provision of high-speed interconnects in harsh environment applications.

BSR/VITA 66.5-201x, Optical Interconnect on VPX, Spring-Loaded Contact on Backplane (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.

Project Need: Standardizes blind-mate optical connectors with fixed contacts on the Plug-In Module and floating displacement on a VPX backplane.

This document describes an open standard for configuration and interconnect within the structure of VITA 66.0 enabling an interface compatible with VITA 46 containing blind-mate optical connectors with fixed contacts on the Plug-In Module and floating displacement on the backplane.

BSR/VITA 67.2-201x, Coaxial Interconnect on VPX, 8 Position SMPM (revision of ANSI/VITA 67.2-2012)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.
Project Need: Develop a standard for coaxial interconnect on VPX, 8-Position SMPM.

The objective of this standard is to detail the configuration and interconnect within the structure of VITA 66.0 enabling a 6U VITA 46 interface containing multiposition blind-mate analog connectors with up to 8 SMPM contacts.

BSR/VITA 78.1-201x, Lightweight SpaceVPX Systems Standard (new standard)

Stakeholders: Manufacturers, suppliers, and users of modular embedded computers.

This document describes an open standard for a lightweight implementation of the SpaceVPX Systems Specification for 3U modules. The most significant change from SpaceVPX is to reduce in number and shift the distribution of utility signals from the SpaceUM to the System Controller to allow a radial distribution of supply power to up to eight payload modules.
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)
- MHI (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPV (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 212-840-2278. 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
4200 Wisconsin Ave, NW
Suite 106--310
Washington, DC 20016
Phone: (719) 453-1036
Web: www.aafs.org

AAMI
Association for the Advancement of Medical Instrumentation
4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633
Phone: (703) 647-2779
Web: www.aami.org

AGMA
American Gear Manufacturers Association
1001 N Fairfax Street, 5th Floor
Alexandria, VA 22314-1987
Phone: (703) 684-0211
Web: www.agma.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

ALI (ASC A14)
American Ladder Institute
330 N. Wabash Avenue, Suite 2000
Chicago, IL 60611
Phone: (312) 673-5923
Web: www.americanladderinstitute.org

ANS
American Nuclear Society
555 North Kensington Avenue
La Grange Park, IL 60526
Phone: (708) 579-8268
Fax: (708) 579-8248
Web: www.ans.org

ASABE
American Society of Agricultural and Biological Engineers
2950 Niles Road
Saint Joseph, MI 49085
Phone: (269) 932-7027
Fax: (269) 429-3852
Web: www.asabe.org

ASME
American Society of Mechanical Engineers
Two Park Avenue
New York, NY 10016
Phone: (212) 591-8521
Fax: (212) 591-8501
Web: www.asme.org

ASTM
ASTM International
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959
Phone: (610) 832-9744
Fax: (610) 834-3683
Web: www.astm.org

AWS
American Welding Society
8669 NW 36th Street
Suite #130
Miami, FL 33166-6672
Phone: (800) 443-9353
Fax: (305) 443-5951
Web: www.aws.org

AWWA
American Water Works Association
6666 W. Quincy Ave.
Denver, CO 80235
Phone: (303) 347-6178
Fax: (303) 795-7603
Web: www.awwa.org

CSA
CSA Group
8501 East Pleasant Valley Rd.
Cleveland, OH 44131
Phone: (216) 524-4990 x88321
Fax: (216) 520-8979
Web: www.csa-america.org

CTA
Consumer Technology Association
1919 South Eads Street
Arlington, VA 22202
Phone: (703) 907-7697
Fax: (703) 907-4197
Web: www.cta.tech

HI
Hydraulic Institute
6 Campus Drive
ParSippany, NJ 07054
Phone: (973) 267-9700 x115
Web: www.pumps.org

ICE
Institute for Credentialing Excellence
2025 M Street NW, Suite 800
Washington, DC 20036
Phone: (202) 367-1165
Web: www.credentialingexcellence.org

IEEE
Institute of Electrical and Electronics Engineers (IEEE)
445 Hoes Lane
Piscataway, NJ 08854
Phone: (732) 562-3854
Fax: (732) 796-6966
Web: www.ieee.org

ITI (INCITS)
InterNational Committee for Information Technology Standards
1101 K Street NW
Suite 610
Washington, DC 20005-3922
Phone: (202) 626-5737
Web: www.incits.org

ITSDF
Industrial Truck Standards Development Foundation, Inc.
1750 K Street NW
Suite 460
Washington, DC 20006
Phone: (202) 296-9880
Fax: (202) 296-9884
Web: www.inditrk.org

LES
 Licensing Executives Society (U.S. and Canada)
11130 Sunrise Valley Dr., Suite 350
Reston, VA 20191
Phone: (703) 234-4109
Fax: (703) 234-4109
Web: www.les.org

NEMA
National Electrical Manufacturers Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3277
Fax: (703) 841-3378
Web: www.nema.org

NEMA (ASC C136)
National Electrical Manufacturers Association
1300 North 17th Street
Suite 900
Rosslyn, VA 22209
Phone: (703) 841-3277
Fax: (703) 841-3378
Web: www.nema.org

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

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

OPEI
Outdoor Power Equipment Institute
341 South Patrick Street
Alexandria, VA 22314
Phone: (703) 678-2990
Fax: (703) 549-7604
Web: www.opei.org

SAE
SAE International
755 W. Big Beaver Rd., Suite 1600
Troy, MI 48084
Phone: (248) 273-2457
Fax: (248) 273-2494
Web: www.sae.org

SCTE
Society of Cable Telecommunications Engineers
140 Philips Road
Exton, PA 19341-1318
Phone: (484) 252-2330
Web: www.scte.org

TAPPI
Technical Association of the Pulp and Paper Industry
15 Technology Parkway South
Peachtree Corners, GA 30092
Phone: (770) 209-7276
Fax: (770) 446-6947
Web: www.tappi.org
TCIA (ASC A300)
Tree Care Industry Association
136 Harvey Rd # 101
Londonderry, NH 03053
Phone: (603) 314-5380
Fax: (603) 314-5386
Web: www.treecareindustry.org

TIA
Telecommunications Industry Association
1320 North Courthouse Road
Suite 200
Arlington, VA 22201
Phone: (703) 907-7706
Fax: (703) 907-7727
Web: www.tiaonline.org

UL
Underwriters Laboratories, Inc.
333 Pfingsten Road
Northbrook, IL 60062-2096
Phone: (847) 664-1725
Fax: (847) 407-1725
Web: www.ul.com

VC (ASC Z80)
The Vision Council of North America
225 Reinekers Lane
Alexandria, VA 22314
Phone: 585-387-9913
Web: www.z80asc.com

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

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

Comments

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

ISO/DIS 6474-2, Implants for surgery - Ceramic materials - Part 2: Composite materials based on a high-purity alumina matrix with zirconia reinforcement - 12/31/2017, $58.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)


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

ISO/DIS 19345-1, Petroleum and natural gas industry - Pipeline transportation systems - Pipeline integrity management specification - Part 1: Full-life cycle integrity management for onshore pipeline - 1/1/2018, $165.00

ISO/DIS 19345-2, Petroleum and natural gas industry - Pipeline transportation systems - Pipeline integrity management specification - Part 2: Full-life cycle integrity management for offshore pipeline - 1/1/2018, $155.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 20046, Radiological protection - Performance criteria for laboratories using fluorescence in Situ Hybridization (FISH) translocation assay for assessment of overexposure to ionizing radiation - 2/25/2018, $107.00

ISO/DIS 20785-4, Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 4: Validation of codes - 1/1/2018, $46.00

PETROLEUM PRODUCTS AND LUBRICANTS (TC 28)

ISO/DIS 22285, Lubricating greases - Determination of oil separation - Pressure filtration method - 2/26/2018, $53.00

ISO/DIS 22286, Lubricating greases - Determination of the dropping point with an automatic apparatus - 2/26/2018, $46.00

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

ISO/DIS 13257, Thermoplastics piping systems for non-pressure applications - Test method for resistance to elevated temperature cycling - 2/23/2018, $53.00

ROAD VEHICLES (TC 22)

ISO/DIS 20080, Road vehicles - Information for remote diagnostic support - General requirements, definitions and use cases - 2/25/2018, $146.00
SMALL CRAFT (TC 188)

ISO/DIS 12402-6, Personal flotation devices - Part 6: Special purpose lifejackets and additional test methods - 12/30/2022, $107.00
ISO/DIS 12402-10, Personal flotation devices - Part 10: Selection and application of flotation devices and other relevant devices - 12/31/2018, $93.00

TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

ISO/DIS 30042, Systems to manage terminology, knowledge and content - TermBase eXchange (TBX) - 2/23/2018, $112.00

TEXTILES (TC 38)

ISO/DIS 20418-2, Textiles - Qualitative and quantitative proteomic analysis of some animal hair fibres - Part 2: Peptide detection using MALDI-TOF MS - 12/31/2017, $77.00
ISO/DIS 20932-1, Textiles - Determination of the elasticity of fabrics - Part 1: Strip tests - 2/25/2018, $71.00
ISO/DIS 20932-2, Textiles - Determination of the elasticity of fabrics - Part 2: Multiaxial tests - 2/25/2018, $67.00
ISO/DIS 20932-3, Textiles - Determination of the elasticity of fabrics - Part 3: Narrow fabrics - 2/25/2018, $71.00

ISO/IEC JTC 1, Information Technology

ISO/IEC DIS 14651, Information technology - International string ordering and comparison - Method for comparing character strings and description of the common template tolerable ordering - 2/25/2018, $125.00
ISO/IEC DIS 21228, Information technology - Telecommunications and information exchange between systems - Coexistence mechanism for broadband power line communication technologies - 12/29/2017, $40.00
ISO/IEC DIS 90003, Software engineering - Guidelines for the application of ISO 9001:2015 to computer software - 2/23/2018, $125.00
ISO/IEC DIS 18033-6, Information technology security techniques - Encryption algorithms - Part 6: Homomorphic encryption - 2/24/2018, $71.00

IEC Standards

9/2346/NP, PNW 9-2346: Railway applications - Electric traction - Copper and copper alloy messenger wires for overhead contact line systems, 018/3/2/
9/2347/NP, PNW 9-2347: Railway applications - Rolling stock - Batteries for auxiliary power supply systems - Part 4: Secondary sealed nickel-metal hydride batteries (proposed IEC 62973-4), 018/3/2/
22G/370/CD, IEC 61800-5-1 ED3: Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy, 018/3/2/
22G/371/CD, IEC 61800-1 ED2: Adjustable speed electrical power drive systems - Part 1: General requirements - Rating specifications for low voltage adjustable speed d.c. power drive systems, 018/3/2/
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

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 22417:2017, Information technology - Internet of things (IoT) use cases, $232.00
ISO/IEC TR 22512:2017, Information technology - Telecommunications and information exchange between systems - Guidelines for the implementation of ISO/IEC 17982:2012, $45.00

AGRICULTURAL FOOD PRODUCTS (TC 34)
ISO 10399:2017, Sensory analysis - Methodology - Duo-trio test, $138.00
ISO 18363-3:2017, Animal and vegetable fats and oils - Determination of fatty-acid-bound chloropropanediols (MCPDs) and glycidol by GC/MS - Part 3: Method using acid transesterification and measurement for 2-MCPD, 3-MCPD and glycidol, $103.00

AIRCRAFT AND SPACE VEHICLES (TC 20)
ISO 6858:2017, Aircraft - Ground support electrical supplies - General requirements, $162.00

BUILDING CONSTRUCTION MACHINERY AND EQUIPMENT (TC 195)
ISO 13105-2/Amd1:2017, Building construction machinery and equipment - Machinery for concrete surface floating and finishing - Part 2: Safety requirements and verification - Amendment 1, $19.00

COMPRESSORS, PNEUMATIC TOOLS AND PNEUMATIC MACHINES (TC 118)
ISO 5393:2017, Rotary tools for threaded fasteners - Performance test method, $185.00

CORK (TC 87)
ISO 1216:2017, Boiled reproduction cork - Grading, classification and packing, $45.00

CRYOGENIC VESSELS (TC 220)
ISO 21010:2017, Cryogenic vessels - Gas/material compatibility, $103.00

ENVIRONMENTAL MANAGEMENT (TC 207)
ISO 14026:2017, Environmental labels and declarations - Principles, requirements and guidelines for communication of footprint information, $103.00

ESSENTIAL OILS (TC 34)
ISO 20809:2017, Essential oil of cypress (Cupressus sempervirens L.), $68.00

FERTILIZERS AND SOIL CONDITIONERS (TC 134)
ISO 20702:2017, Fertilizers and soil conditioners - Determination of microamounts of inorganic anions in fertilizers by ion chromatography, $185.00

GEOTECHNICS (TC 182)
ISO 17892-7:2017, Geotechnical investigation and testing - Laboratory testing of soil - Part 7: Unconfined compression test, $68.00

GRAPHICAL SYMBOLS (TC 145)
ISO 7010/Amd8:2017, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 8, $19.00

HYDROMETRIC DETERMINATIONS (TC 113)
ISO 18481:2017, Hydrometry - Liquid flow measurement using end depth method in channels with a free overfall, $138.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)
ISO 14306:2017, Industrial automation systems and integration - JT file format specification for 3D visualization, $232.00

IRON ORES (TC 102)
ISO 4701:2017, Iron ores and direct reduced iron - Determination of size distribution by sieving, $185.00

LIGHT METALS AND THEIR ALLOYS (TC 79)
ISO 2931:2017, Anodizing of aluminium and its alloys - Assessment of quality of sealed anodic oxidation coatings by measurement of admittance, $45.00

MACHINE TOOLS (TC 39)
ISO 16090-1:2017, Machine tools safety - Machining centres, Milling machines, Transfer machines - Part 1: Safety requirements, $232.00
ISO 16092-1:2017, Machine tools safety - Presses - Part 1: General safety requirements, $185.00

MATERIALS, EQUIPMENT AND OFFSHORE STRUCTURES FOR PETROLEUM AND NATURAL GAS INDUSTRIES (TC 67)
ISO 3183/Amd1:2017, Petroleum and natural gas industries - Steel pipe for pipeline transportation systems - Amendment 1, $19.00
ISO 35103:2017, Petroleum and natural gas industries - Arctic operations - Environmental monitoring, $162.00

MECHANICAL CONTRACEPTIVES (TC 157)
ISO 16038:2017, Male condoms - Guidance on the use of ISO 4074 and ISO 23409 in the quality management of condoms, $68.00

MECHANICAL TESTING OF METALS (TC 164)
ISO 4545-4:2017, Metallic materials - Knoop hardness test - Part 4: Table of hardness values, $162.00
METALLIC AND OTHER INORGANIC COATINGS (TC 107)
ISO 2819-2017, Metallic coatings on metallic substrates - Electrodeposited and chemically deposited coatings - Review of methods available for testing adhesion, $68.00
ISO 28706-3:2017, Vitreous and porcelain enamels - Determination of resistance to chemical corrosion - Part 3: Determination of resistance to chemical corrosion by alkaline liquids using a hexagonal vessel or a tetragonal glass bottle, $103.00

MICROBEAM ANALYSIS (TC 202)
ISO 29301:2017, Microbeam analysis - Analytical electron microscopy - Methods for calibrating image magnification by using reference materials with periodic structures, $185.00

NON-DESTRUCTIVE TESTING (TC 135)
ISO 20485-2017, Non-destructive testing - Leak testing - Tracer gas method, $138.00

NUCLEAR ENERGY (TC 85)
ISO 19226:2017, Nuclear energy - Determination of neutron fluence and displacement per atom (dpa) in reactor vessel and internals, $68.00

PAINTS AND VARNISHES (TC 35)
ISO 6270-1:2017, Paints and varnishes - Determination of resistance to humidity - Part 1: Condensation (single-sided exposure), $45.00

PAPER, BOARD AND PULPS (TC 6)
ISO 4094-2017, Paper, board and pulps - General requirements for the competence of laboratories authorized for the issue of optical reference transfer standards of level 3, $162.00
ISO 5629-2017, Paper and board - Determination of bending stiffness - Resonance method, $68.00

PLASTICS (TC 61)
ISO 19821-2017, Determination of span rating for natural fibre-reinforced plastic composite (NFC) deck boards, $68.00
ISO 20029-1:2017, Plastics - Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion - Part 1: Designation system and basis for specification, $68.00
ISO 20029-2:2017, Plastics - Thermoplastic polyester/ester and polyether/ester elastomers for moulding and extrusion - Part 2: Preparation of test specimens and determination of properties, $103.00

ROAD VEHICLES (TC 22)
ISO 19377:2017, Heavy commercial vehicles and buses - Emergency braking on a defined path - Test method for trajectory measurement, $68.00
ISO 12619-7:2017, Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blends fuel system components - Part 7: Gas injector, $45.00

RUBBER AND RUBBER PRODUCTS (TC 45)
ISO 5435-2017, Rubber compounding ingredients - Carbon black - Determination of tinting strength, $103.00
ISO 8028-2017, Rubber and/or plastics hoses and hose assemblies for airless paint spraying - Specification, $68.00
ISO 10960:2017, Rubber and plastics hoses - Assessment of ozone resistance under dynamic conditions, $45.00
ISO 23297:2017, Thermoplastic hoses and hose assemblies - Wire or synthetic yarn reinforced single-pressure types for hydraulic applications - Specification, $103.00

ISO 10619-2:2017, Rubber and plastics hoses and tubing - Measurement of flexibility and stiffness - Part 2: Bending tests at sub-ambient temperatures, $68.00

SAFETY OF MACHINERY (TC 199)
ISO 14118:2017, Safety of machinery - Prevention of unexpected start-up, $68.00

SMALL CRAFT (TC 188)
ISO 15085/Amd2:2017, Small craft - Man-overboard prevention and recovery - Amendment 2, $19.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)
ISO 6003-2017, Alpine skis - Determination of mass and polar moment of inertia - Laboratory measurement method, $45.00
ISO 7139:2017, Cross-country skis - Determination of elastic properties, $45.00
ISO 7798:2017, Cross-country skis - Determination of fatigue indexes - Cyclic loading test, $68.00
ISO 8364-2017, Alpine skis and bindings - Binding mounting area - Requirements and test methods, $103.00
ISO 10045:2017, Alpine skis - Binding mounting area - Requirements for test screws, $45.00

TECHNICAL DRAWINGS, PRODUCT DEFINITION AND RELATED DOCUMENTATION (TC 10)
ISO 6412-3:2017, Technical product documentation - Simplified representation of pipelines - Part 3: Terminal features of ventilation and drainage systems, $45.00
ISO 12757-1:2017, Ball point pens and refills - Part 1: General use, $68.00
ISO 14114-1:2017, Roller ball pens and refills - Part 1: General use, $68.00
ISO 27668-1:2017, Gel ink ball pens and refills - Part 1: General use, $68.00

TEXTILES (TC 38)
ISO 12138:2017, Textiles - Domestic laundering procedures for textile fabrics prior to flammability testing, $68.00
ISO 15797:2017, Textiles - Industrial washing and finishing procedures for testing of workwear, $103.00
ISO 3175-1:2017, Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 1: Assessment of performance after cleaning and finishing, $68.00
ISO 3175-2:2017, Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 2: Procedure for testing performance when cleaning and finishing using tetrachloroethene, $68.00
ISO 3175-3:2017, Textiles - Professional care, drycleaning and wetcleaning of fabrics and garments - Part 3: Procedure for testing performance when cleaning and finishing using hydrocarbon solvents, $68.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)
ISO 16787:2017, Intelligent transport systems - Assisted parking system (APS) - Performance requirements and test procedures, $162.00
ISO 19237:2017, Intelligent transport systems - Pedestrian detection and collision mitigation systems (PDCMS) - Performance requirements and test procedures, $138.00

WATER RE-USE (TC 282)
ISO 20760-2:2017, Water reuse in urban areas - Guidelines for centralized water reuse system - Part 2: Management of a centralized water reuse system, $68.00

WELDING AND ALLIED PROCESSES (TC 44)
ISO 9017:2017, Destructive tests on welds in metallic materials - Fracture test, $103.00

ISO Technical Reports
FIRE SAFETY (TC 92)
ISO/TR 24679-6:2017, Fire safety engineering - Performance of structures in fire - Part 6: Example of an eight-storey office concrete building, $185.00

ISO Technical Specifications
GEARS (TC 60)
ISO/TS 6336-21:2017, Calculation of load capacity of spur and helical gears - Part 21: Calculation of scuffing load capacity (also applicable to bevel and hypoid gears) - Integral temperature method, $185.00

HEALTH INFORMATICS (TC 215)
ISO/TS 16843-3:2017, Health informatics - Categorial structures for representation of acupuncture - Part 3: Moxibustion, $103.00
ISO/TS 16843-4:2017, Health informatics - Categorial structures for representation of acupuncture - Part 4: Meridian and collateral channels, $45.00

LIGHT METALS AND THEIR ALLOYS (TC 79)
ISO/TS 16688:2017, Guidelines for the selection of coating types, tests and methods of assessing the performance of coated aluminium in architectural applications, $162.00

MECHANICAL VIBRATION AND SHOCK (TC 108)
ISO/TS 14837-31:2017, Mechanical vibration - Ground-borne noise and vibration arising from rail systems - Part 31: Guideline on field measurements for the evaluation of human exposure in buildings, $185.00

NANOTECHNOLOGIES (TC 229)
ISO/TS 13278:2017, Nanotechnologies - Determination of elemental impurities in samples of carbon nanotubes using inductively coupled plasma mass spectrometry, $138.00
ISO/TS 20787:2017, Nanotechnologies - Aquatic toxicity assessment of manufactured nanomaterials in saltwater lakes using Artemia sp. Nauplii, $103.00

ISO/IEC JTC 1, Information Technology
ISO/IEC 8825-7/Cor2:2017, Information technology - ASN.1 encoding rules - Part 7: Specification of Octet Encoding Rules (OER) - Corrigendum, FREE
ISO/IEC 19770-1:2017, Information technology - IT asset management - Part 1: IT asset management systems - Requirements, $185.00
ISO/IEC 23002-5:2017, Information technology - MPEG video technologies - Part 5: Reconfigurable media coding conformance and reference software, $103.00
ISO/IEC 29155-1:2017, Systems and software engineering - Information technology project performance benchmarking framework - Part 1: Concepts and definitions, $103.00
ISO/IEC TS 21425:2017, Programming languages - C++ Extensions for ranges, $232.00
ISO/IEC TS 22277:2017, Technical Specification - C++ Extensions for Coroutines, $103.00
ISO/IEC TS 20071-15:2017, Information technology - User interface requirements and test procedures, $138.00

IEC Standards
ELECTRIC TRACTION EQUIPMENT (TC 9)
IEC 62928 Ed. 1.0 b:2017, Railway applications - Rolling stock - Onboard lithium-ion traction batteries, $317.00

ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES (TC 31)
IEC 60079-15 Ed. 5.0 b:2017, Explosive atmospheres - Part 15: Equipment protection by type of protection "n", $235.00
S+ IEC 60079-15 Ed. 5.0 en:2017 (Redline version), Explosive atmospheres - Part 15: Equipment protection by type of protection "n", $305.00

ELECTROMAGNETIC COMPATIBILITY (TC 77)
IEC 61000-6-5 Ed. 1.0 b cor.1:2017, Corrigendum 1 - Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment, $0.00

ELECTROMECHANICAL COMPONENTS AND MECHANICAL STRUCTURES FOR ELECTRONIC EQUIPMENTS (TC 48)
IEC 61076-2-111 Ed. 1.0 en:2017, Connectors for electrical and electronic equipment - Product requirements - Part 2-111: Circular connectors - Detail specification for power connectors with M12 screw-locking, $352.00
IEC 61076-3-119 Ed. 1.0 en:2017, Connectors for electrical and electronic equipment - Product requirements - Part 3-119: Rectangular connectors - Detail specification for shielded and unshielded, free and fixed 10-way connectors with push-pull coupling for industrial environments for data transmission with frequencies up to 100 MHz, $235.00

PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION (TC 49)
IEC 60122-1 Ed. 3.1 en:2017, Quartz crystal units of assessed quality - Part 1: Generic specification, $410.00
IEC 60122-1 Amd.1 Ed. 3.0 en:2017, Amendment 1 - Quartz crystal units of assessed quality - Part 1: Generic specification, $47.00

POWER ELECTRONICS (TC 22)
IEC 62927 Ed. 1.0 en cor.1:2017, Corrigendum 1 - Voltage sourced converter (VSC) valves for static synchronous compensator (STATCOM) - Electrical testing, $0.00
SAFETY OF ELECTRONIC EQUIPMENT WITHIN THE FIELD OF AUDIO/VIDEO, INFORMATION TECHNOLOGY AND COMMUNICATION TECHNOLOGY (TC 108)

IEC 62368-3 Ed. 1.0 b:2017, Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports, $199.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

IEC 60335-2-58 Ed. 4.0 en:2017, Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines, $235.00

IEC 60335-2-60 Ed. 4.0 en:2017, Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas, $117.00

IEC 60335-2-102 Ed. 2.0 en:2017, Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections, $82.00

S+ IEC 60335-2-58 Ed. 4.0 en:2017 (Redline version), Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines, $305.00

S+ IEC 60335-2-60 Ed. 4.0 en:2017 (Redline version), Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas, $152.00

S+ IEC 60335-2-102 Ed. 2.0 en:2017 (Redline version), Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections, $107.00

SURGE ARRESTERS (TC 37)

IEC 61643-331 Ed. 2.0 en:2017, Components for low-voltage surge protective devices - Part 331: Performance requirements and test methods for metal oxide varistors (MOV), $281.00

IEC Technical Specifications

FIRE HAZARD TESTING (TC 89)

IEC/TS 60695-1-14 Ed. 1.0 en:2017, Fire hazard testing - Part 1-14: Guidance on the different levels of power and energy related to the probability of ignition and fire in low voltage electrotechnical products, $82.00
Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

Contact the USA TBT Inquiry Point at: (301) 975-2918; Fax: (301) 926-1559; E-mail: usatbtep@nist.gov or notifyus@nist.gov.
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 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 AN consensus bodies and is interested in new members in all membership categories to participate in new work in fiber-optic networks, advanced advertising, 3D television, and other important topics. Of particular interest is membership from the content (program and advertising) provider and user communities.

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

ANSI Accredited Standards Developers

Application for Accreditation

MTConnect

Comment Deadline: January 15, 2018

MTConnect, a new ANSI member in 2017, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting MT Connect-sponsored American National Standards. MTConnect’s proposed scope of standards activity is as follows:

The MTConnect standard including all its current parts as well as future expansions or extensions of the standard.

The core functionality of the standard includes a data dictionary and data structure for manufacturing, especially as it pertains to production operations (“shop floor”).

To obtain a copy of MTConnect’s application and proposed operating procedures or to offer comments, please contact: Ms. Pamela Kachel, Manufacturing Technology Administrator, MTConnect Institute, 7901 Jones Branch Drive, Suite 900, McLean, VA 22102; phone: 703.827.5274; e-mail: pkachel@amtonline.org. Please submit any comments to MTConnect by January 15, 2018, with a copy to the ExSC Recording Secretary in ANSI’s New York Office (e-mail: Jthompsoc@ansi.org). As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of MTConnect’s proposed operating procedures from ANSI Online during the public review period at the following URL: www.ansi.org/accredPR.
National Contract Management Association (NCMA)

Comment Deadline: January 15, 2018

The National Contract Management Association (NCMA), a new ANSI member in 2017, has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting NCMA-sponsored American National Standards. NCMA’s proposed scope of standards activity is as follows:

NCMA standards and other subject matter documents will reflect the combined knowledge of government and commercial buyers and sellers, as well as academicians, regulatory authorities, and consultants. They are intended to be applied by contract managers using the judgment required to adapt to any unique circumstances of the reader. Consequently, the NCMA standards program will provide guidance to the contract management profession without restricting technological advancement or freedom to operate.

To obtain a copy of NCMA’s application and proposed operating procedures or to offer comments, please contact: Mr. John W. Wilkinson, EdD, CPCM, National Contract Management Association, 21740 Beaumeade Circle, Suite 125, Ashburn, VA 20147; phone: 571.382.1119; e-mail: jwilkinson@ncmahq.org. Please submit any comments to NCMA by January 15, 2018, with a copy to the ExSC Recording Secretary in ANSI’s New York Office (e-mail: jthompsos@ANSI.org). As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of NCMA’s proposed operating procedures from ANSI Online during the public review period at the following URL: www.ansi.org/accredPR.

International Organization for Standardization (ISO)

ISO Proposal for a New Field of ISO Technical Activity

Occupational Health and Safety Management

Comment Deadline: January 12, 2018

BSI, the ISO member body for the UK and secretariat of ISO Project Committee 283 (ISO/PC 283), has submitted to ISO a proposal for a new field of ISO technical activity on Occupational Health and Safety Management, with the following scope statement:

Standardization in the field of occupational health and safety management to enable an organization to control its OH&S risks and improve its OH&S performance.

Please note that BSI proposed a new work item proposal on this subject in 2013 which was approved and the standard ISO 45001 (Occupational health and safety management systems – Requirements with guidance for use) is currently being developed under ISO/PC 283. As stated in the proposal, during the development of ISO 45001 it became apparent that there are currently no other ISO or IEC committees developing generic occupational health and safety standards other than ISO/PC 283, and this proposal seeks to gain support for an ISO/TMB decision to convert the project committee into a technical committee to enable continual maintenance of ISO 45001 and the development of supporting and related standards.

Anyone wishing to review the proposal can request a copy by contacting ANSI’s ISO Team (isos@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, January 12, 2018.

International Electrotechnical Commission (IEC)


The US National Committee has registered as a Participating Member in IEC Subcommittee and has established a US TAG. ARESCA has recently been appointed by the USNC TMC as the TAG Administrator. The scope of the subcommittee is as follows:

SC 8B Scope:

Standards enabling the development of secure, reliable and cost-effective systems with decentralized management for electrical energy supply, alternative/complement/precursor to traditional large interconnected and highly centralized systems. The most popular concept is currently the “microgrid” defined as a group of interconnected loads and distributed energy resources with defined electrical boundaries that acts as a single controllable entity and is able to operate in both grid-connected and island mode. Decentralized energy systems have applications for developing countries (focusing on access to electricity) as well as for developed countries (focusing on high reliability, black-out recovery and/or services). Interactions within Decentralized (Multi) Energy Systems should also be considered.

Standardization activities in this proposed SC will proceed with cooperation with concerned TC/SCs and SyCs, including but not limited to IEC SyC Smart Energy, TC22, TC57, TC64, TC82, TC88, TC95, TC120.

If any individuals would like to join this TAG, they are invited to contact George Kelly, SC 8B TAG Secretary, as soon as possible using the contact information provided below.

George Kelly
E-mail: secretary@aresca.us

Meeting Notice

Association of Challenge Course Technology (ACCT) Consensus Group Meeting

The topics that will be discussed at the next meeting of the ACCT Consensus Group are as follows:

- Review and clarify the roles of Consensus Group Members and Officers, ACCT Staff, and Secretariat;
- Review and discuss maintenance and revisions to ACCT 03-2016, as proposed by the ACCT Standards Development Committee.

Meeting Information

Location: Sheraton Downtown Fort Worth
1701 Commerce Street
Fort Worth, TX 76102
Website: http://www.sheratonfortworth.com
Meeting Dates: February 4th, 2018
Time: 9:00 am – 5:00 pm CST

This meeting is open to the public. Persons wishing to attend this meeting are required to pre-register by contacting Bill Weaver, ACCT Director of Operations, bill@acctinfo.org, 800-991-0286, extension 2.
Information Concerning

International Organization for Standardization (ISO)

Call for International (ISO) Secretariat

ISO/TC 215 – Health informatics

Reply Deadline: December 15, 2017

Currently, the U.S. holds a leadership position as Secretariat of ISO/TC 215 – Health informatics. ANSI has delegated the responsibility for the administration of the Secretariat for ISO/TC 215 to the American Health Information Management Association (AHIMA). AHIMA has advised ANSI of its intent to relinquish its role as delegated Secretariat for this committee.

ISO/TC 215 operates under the following scope:

Standardization in the field of health informatics, to facilitate the coherent and consistent capture, interchange and use of health-related data, information, and knowledge to support and enable all aspects of the health system.

ANSI is seeking organizations in the U.S. that may be interested in assuming the role of delegated Secretariat for ISO/TC 215. Alternatively, ANSI may be assigned the responsibility for administering an ISO Secretariat. Any request that ANSI accept the direct administration of an ISO Secretariat shall demonstrate that:

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

If no U.S. organization steps forward to assume the ISO/TC 215 Secretariat, or if there is insufficient support for ANSI to assume direct administration of this activity by Friday, December 15, 2017, then ANSI will inform the ISO Central Secretariat that the U.S. will relinquish its leadership of the committee. This will allow ISO to solicit offers from other countries interested in assuming the Secretariat role.

Information concerning the United States retaining the role of international Secretariat may be obtained by contacting ANSI’s ISO Team (isot@ansi.org).
NSF/ANSI International Standard
for Biosafety Cabinetry —

Biosafety Cabinetry: Design, Construction, Performance, and Field Certification

3 Definitions

3.XX readily visible: Visible without using tools or manual selection.

3.XX readily viewable: Visible without using tools but may require manual selection.

Rationale: Currently the standard differentiates “readily” when addressing equipment access as shown below:

3.1 accessible: Fabricated to be exposed for cleaning and visual inspection using simple tools (screwdriver, pliers, open-end wrench, etc. [Also see definition of “readily accessible.”])

3.23 readily accessible: Fabricated to be exposed for cleaning and visual inspection without using tools.

The term readily can be similarly applied to the term visible to aid in the description of data plates.
5.32 Data plate(s)

5.32.1 A data plate(s) indicating the following shall be readily visible on the front of the cabinet:

- manufacturer's name and address;
- cabinet model;
- cabinet serial number;
- nominal set point for downflow and inflow velocities (DIM and thermal anemometer);
- type classification;
- downflow velocity test grid dimensions (Annex A, section A.8.3);
- indication that the cabinet has potentially contaminated plenums that are at positive pressure directly to the room (if applicable);
- voltage requirements; and

5.32.2 The following shall be readily viewable from the front of the cabinet:

- nominal set point for downflow and inflow velocities (DIM and thermal anemometer);
- downflow velocity test grid dimensions (Annex A, section A.8.3); and
- inflow velocity test grid and method (Annex A, section A.9.3)

**Rationale:** this language allows for the optional use of digital technology for providing this information to the user. The indication that the cabinet has potentially contaminated plenums is antiquated and should have been removed a long time ago as this type of design is no longer allowed.
NSF/ANSI Standard

Equipment for Swimming Pools, Spas, Hot Tubs and other Recreational Water Facilities

Annex A
(normative)

Materials review and qualification

A.2 Formulation review

Where required for conformance to 3.2, complete material formulation information shall be reviewed to determine whether a material is suitable for contact with the product water, to assess the potential for contaminants to be contributed to the product water from the material, to determine whether extraction testing is warranted, and to select the appropriate extraction testing parameters.

The complete formulation information may be omitted for a component material if:

— the generic material type is contained in NSF/ANSI 61 Table 3.1, and the material is not a coating or filtration media, and the material is tested to the requirements of Table 3.1; or

— if the material is not listed in NSF 61 Table 3.1 and the material is not a coating or filtration media, and the material is tested to the requirements of NSF 61 Table 3.2.

A.3 Exposure testing

A.3.2 Selection of parameters for exposure testing

The selection of potential contaminants for which testing is warranted shall be based on the review of the material formulation, the toxicological significance of the ingredients, and the likelihood of their migration. Analysis for phenolic substances and total organic carbon (TOC) may be used as screening tests to determine whether additional testing is warranted for specific potential contaminants. Exposure testing may also be conducted to determine whether a material may impart color to water.

Analysis for phenolic substances and total organic carbon (TOC) may be used as screening tests to determine whether additional testing is warranted for specific potential contaminants. Exposure testing may
also be conducted to determine whether a material may impart color to water.

If the formulation has been omitted for a component material as allowed through A.2, testing shall include the material specific analyses in NSF 61, Table 3.1, or as directed in NSF 61 table 3.2.
NSF/ANSI Standard for Wastewater Treatment Systems —

Onsite Residential and Commercial Water Reuse Treatment Systems

3 Definitions

3.15 30-day (30-d) average: The average of daily measurements over a 30-day period, calculated as the sum of all daily measurements taken during a 30-day period divided by the number of daily measurements taken during that 30-day period. When a sample result is less than the detection limit, the detection limit shall be used as the value for the purpose of calculating the 30-day average. When all of the sample results in a 30-day period are less than the detection limit, the 30-day average shall be reported as less than the detection limit.

3.16 30-day (30-d) geometric mean (geo mean): A type of average, calculated as the nth root of the product of n values (daily measurements) taken over a 30-day period. For example, if 10 measurements were taken over a 30-day period, the geometric mean of those measurements would be the 10th root of the product of those 10 measurements $\sqrt[10]{X_1 \times X_2 \times \ldots \times X_{10}}$. When a sample result is less than the detection limit, the detection limit shall be used as the value for the purpose of calculating the 30-day geometric mean. When all of the sample results in a 30-day period are less than the detection limit, the 30-day geometric mean shall be reported as less than the detection limit.

8 Performance testing and evaluation

8.1.2.1.1 Graywater challenge water: Systems treating bathing source water

The 30-d average concentration of the bathing water delivered to the system shall be as follows:
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSS</td>
<td>50 – 100 mg/L</td>
</tr>
<tr>
<td>$\text{BOD}_5$</td>
<td>100 – 180 mg/L</td>
</tr>
<tr>
<td>temperature</td>
<td>25 – 35 °C</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 – 7.5</td>
</tr>
<tr>
<td>turbidity</td>
<td>30 – 70 NTU</td>
</tr>
<tr>
<td>total phosphorous – $P$</td>
<td>1.0 – 4.0 mg/L</td>
</tr>
<tr>
<td>total Kjeldahl nitrogen – N</td>
<td>3.0 – 5.0 mg/L</td>
</tr>
<tr>
<td>COD</td>
<td>200 – 400 mg/L</td>
</tr>
<tr>
<td>TOC</td>
<td>30 – 60 mg/L</td>
</tr>
<tr>
<td>total coliforms$^{1,2}$</td>
<td>$10^3$ – $10^7$ cfu/100 mL</td>
</tr>
<tr>
<td>$\text{E. coli (Escherichia coli} – \text{ATCC 11775})^{1,3}$</td>
<td>$10^2$ – $10^6$ cfu/100 mL</td>
</tr>
</tbody>
</table>

$^1$ Calculated as 30-day geometric mean
$^2$ Single sample maximum shall not exceed $10^9$ cfu/100 mL (see 8.6.1.2)
$^3$ Single sample maximum shall not exceed $10^7$ cfu/100 mL (see 8.6.1.2)

8.1.2.1.2 Graywater challenge water: Systems treating laundry source water

The 30-d average concentration of the laundry water delivered to the system shall be as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSS</td>
<td>50 – 100 mg/L</td>
</tr>
<tr>
<td>$\text{BOD}_5$</td>
<td>220 – 300 mg/L</td>
</tr>
<tr>
<td>temperature</td>
<td>25 – 35 °C</td>
</tr>
<tr>
<td>pH</td>
<td>7.0 – 8.5</td>
</tr>
<tr>
<td>turbidity</td>
<td>50 – 90 NTU</td>
</tr>
<tr>
<td>total phosphorous – $P$</td>
<td>&lt; 2 mg/L</td>
</tr>
<tr>
<td>total Kjeldahl nitrogen – N</td>
<td>4.0 – 6.0 mg/L</td>
</tr>
<tr>
<td>COD</td>
<td>300 – 500 mg/L</td>
</tr>
<tr>
<td>TOC</td>
<td>50 – 100 mg/L</td>
</tr>
<tr>
<td>total coliforms$^{1,2}$</td>
<td>$10^3$ – $10^7$ cfu/100 mL</td>
</tr>
<tr>
<td>$\text{E. coli}^{1,3}$</td>
<td>$10^2$ – $10^6$ cfu/100 mL</td>
</tr>
</tbody>
</table>

$^1$ ATTC, American Type Culture Collection PO Box 1549, Manassas, VA 20108 <www.atcc.org>.
8.1.2.1.3 Graywater challenge water: Systems treating bathing and laundry source waters combined

Each 100 L challenge water shall be prepared using 53 L of 8.1.2.1.1 and 47 L of 8.1.2.1.2. The 30-d average concentration of the graywater delivered to the system shall be as follows:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Required range</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSS</td>
<td>80 – 160 mg/L</td>
</tr>
<tr>
<td>BOD₅</td>
<td>130 – 180 mg/L</td>
</tr>
<tr>
<td>temperature</td>
<td>25 – 35 °C</td>
</tr>
<tr>
<td>pH</td>
<td>6.5 – 8.0</td>
</tr>
<tr>
<td>turbidity</td>
<td>50 – 100 NTU</td>
</tr>
<tr>
<td>total phosphorous – P</td>
<td>1.0 – 3.0 mg/L</td>
</tr>
<tr>
<td>total Kjeldahl nitrogen – N</td>
<td>3.0 – 5.0 mg/L</td>
</tr>
<tr>
<td>COD</td>
<td>250 – 400 mg/L</td>
</tr>
<tr>
<td>TOC</td>
<td>50 – 100 mg/L</td>
</tr>
<tr>
<td>total coliforms¹,²</td>
<td>10³ – 10⁷ cfu/100 mL</td>
</tr>
<tr>
<td>E. coli¹,²,³</td>
<td>10² – 10⁶ cfu/100 mL</td>
</tr>
</tbody>
</table>

¹ Calculated as 30-day geometric mean
² Single sample maximum shall not exceed 10⁹ cfu/100 mL (see 8.6.1.2)
³ Single sample maximum shall not exceed 10⁷ cfu/100 mL (see 8.6.1.2)
— perform maintenance on the system, reinitiate system start-up procedures, and restart the performance testing and evaluation; or

— with no routine maintenance performed, have the system brought back to pre-existing conditions and resume testing within 3 wk (21 d) after the site problem has been identified and corrected. Data collected during the system recovery period shall be excluded from averages of effluent measurements.

NOTE — Pre-existing conditions shall be defined as the point when the results of 3 consecutive data days are within 15% of the previous 30-d average(s).
BSR/UL 213-201x, Standard for Safety for Rubber Gasketed Fittings for Fire-Protection Service

1. Addition of Requirements for Fire Testing for Elastomer Lined Change of Direction Fittings (Elbows and Tees) in New Paragraph 7.4 and New Section 16A

7.4 Rubber gasketed fittings that are change in direction fittings, lined with an elastomeric material, and intended for use with dry pipe systems shall be subjected to the Fire Test indicated in Section 16A. Change in direction fittings include fittings such as elbows and tees.

16A Fire Test

16A.1 Rubber gasketed fittings designed as indicated in 7.4 intended for dry pipe systems shall be subjected to fire testing in accordance with Test III and Test IV from the Fire Test Section, 16 in the Standard for Metallic Sprinkler Pipe for Fire Protection Service, UL 852, with the following modifications:

a) The pipe located directly above the fire shall have a joint such that the fitting under test is centered directly above the fire;

b) Schedule 10 or schedule 40 pipe shall be used;

c) There shall be no water in the fitting prior to the test;

d) The pipe size shall be the same size as the fitting; and

e) The acceptance criteria is as described in 16A.2.

16A.2 Subsequent to the fire test, the elastomeric lining shall be inspected, and shall not show evidence of melting or deformation of the material internal to the waterway. In addition the sprinkler downstream of the fitting shall be removed and inspected, and shall not show evidence of debris from the elastomeric lining collected at the orifice.
BSR/UL 746B, Standard for Safety for Polymeric Materials – Long Term Property Evaluations

1. Inclusion of Specialized Analysis of Polymer Variation (One-Temperature, Single-Point Thermal-Aging Program) with Technical Information and Analytical Tests to Section 20.2

20.2.8 Analytical tests such as Dynamic Mechanical Analysis (DMA), Thermogravimetric Thermogravimetric Analysis (TGA in air and N\textsubscript{2}), Differential Scanning Calorimetry (DSC) and Pressurized Pressure DSC (PDSC) shall be performed as appropriate to validate the technical information described in 20.2.7.

Table 20.1

An example illustration for Two-Sample T-Test for Tensile Strength (MPa)

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Control (as received)</td>
<td>Control (2100 hours)</td>
<td>(Percent retention)</td>
<td>Candidate (as-received)</td>
<td>Candidate Control (2100 hours)</td>
</tr>
<tr>
<td>No</td>
<td></td>
<td></td>
<td></td>
<td>Control</td>
<td></td>
<td>Control</td>
</tr>
<tr>
<td>1</td>
<td>28.2</td>
<td>16.8</td>
<td><strong>60.2 60.3</strong></td>
<td>31.1</td>
<td>18.6</td>
<td><strong>59.4 59.3</strong></td>
</tr>
<tr>
<td>2</td>
<td>27.3</td>
<td>15.2</td>
<td><strong>54.5</strong></td>
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<td>17.3</td>
<td><strong>55.3 55.2</strong></td>
</tr>
<tr>
<td>3</td>
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<td>16.2</td>
<td><strong>58.1</strong></td>
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<td>16.2</td>
<td><strong>51.8 51.7</strong></td>
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<tr>
<td>4</td>
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<td><strong>63.4</strong></td>
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<td>17.3</td>
<td><strong>55.3 55.2</strong></td>
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<td>15.8</td>
<td><strong>56.6 56.7</strong></td>
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<td>19.4</td>
<td><strong>62.0 61.9</strong></td>
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<td>6</td>
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<td><strong>53.8</strong></td>
<td>31.6</td>
<td>17.5</td>
<td><strong>55.9 55.8</strong></td>
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<td>14.7</td>
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<td><strong>52.1 52.0</strong></td>
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<td><strong>63.3 63.2</strong></td>
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<td>29.8</td>
<td>16.8</td>
<td><strong>53.7 53.6</strong></td>
</tr>
<tr>
<td>10</td>
<td>28.3</td>
<td>16.9</td>
<td><strong>60.6</strong></td>
<td>31.6</td>
<td>16.2</td>
<td><strong>61.9 51.7</strong></td>
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<td>-</td>
<td>~<strong>57.43</strong></td>
<td>31.3</td>
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**NOTE:** The percent retention values calculated in Columns E and G for 30 samples are based on the Mean Values of their respective as-received sample group.

p-Value of (Percent Retention)\_{\text{Control}} and (Percent Retention)\_{\text{Candidate}} calculated based on a two-sample, 2-tailed homoscedastic (equal variance) T-Test is 0.364 0.443. Since this value is greater than 0.05 significance level, the degradation behavior of control and the candidate materials is not statistically different.
BSR/UL 746D, Standard for Safety for Polymeric Materials – Fabricated Parts

1. Revision of Paragraph 10.2.6 with Respect to Relative Thermal Index (RTI) Assignment for Recycled Plastics with Consistent Identification

10.2.6 An elevated relative thermal index (RTI) shall be assigned through a Long Term Thermal Aging program per the Standard for Polymeric Materials - Long Term Property Evaluations, UL 746B.

   a) If the identification test results of the recycled plastic favorably compares to a related virgin resin with an elevated RTI, the elevated RTI equal to the virgin resin is to be assigned to the recycled plastic through a 2-point Long Term Thermal Aging program that results in the same RTI, using the virgin resin as the control and the recycled plastic as the candidate.

   b) If the identification test results of the recycled plastic do not compare favorably to a related virgin resin with an elevated RTI, an elevated RTI is to be assigned to the recycled plastic through a 4-point Long Term Thermal Aging program.

2. Revision of Paragraph 10.3.5 with Respect to UV/Water Test Consideration

   Figure 10.1

   Recycled thermoplastic material test program
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Thermoplastic Material

- Material expected to meet certification criteria per UL 746A?
  - Yes → Establish QA program
    - QA program exists?
      - Yes → Evaluate three batches for Flame (S), IR, TGA, and DSC
        - QA program exists?
          - Yes → Evaluate optional properties by testing on one batch
            - UL 746A and UL 746C short-term properties
              - UL 746B long-term properties
          - No → QA program
    - No → Recycled Plastic Stream without Consistent Identification per UL 746A
        - QA program exists?
          - Yes → Evaluate five batches for:
            - Flame (S) (c)
            - Tensile strength
            - Elongation
            - Hot wire ignition or glow wire flammability index
            - Heat deflection temp
            - Optional properties (d)
        - No → Establish QA program

Recycled Plastic Stream without Consistent Identification per UL 746A

- QA program exists?
  - Yes → Evaluate material's generic identity by testing one batch for IR
    - Material meets criteria for consistency?
      - Yes → Evaluate UL 746A optional short-term properties by testing on three batches.
      - No → Evaluate UL 746B optional long-term properties by testing on one batch.
    - No → Recycled plastic stream not used to meet minimum requirements of recycled plastic test program.
  - No → Establish QA program

(a) Material identification criteria is specified in Appendices A, B, and C of UL 746A.
(b) If the material uses color pigments or dyes to change the recycled plastic base color, a representative range of colors is to be evaluated on one batch.
(c) Flame only investigations of a recycled plastic without consistent identification to be evaluated also for Mechanical Strength, Impact Strength, and Dielectric Strength on five batches.
(d) For additional (optional) properties, testing is to be conducted on three batches.
10.3.5 Each additional short-term material property to be evaluated beyond the properties required above shall require testing of specimens from three production batches. The rating of any additional properties tested is to be the lowest rating obtained from the testing of the three production batches. Short term properties include ignition (HWI, HAI, GWFI, GWIT), tracking (CTI, IPT, HVTR, D495), outdoor exposure (UV, Water), mechanical (Tensile, Impact), electrical (Dielectric), etc., as referenced in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A.

10.3.6 (Note from the STP Project Manager: No revisions to this requirement are being proposed. This requirement is for reference only.) Long-term properties evaluated through heat aging per UL 746B, such as Tensile Strength, Electrical Strength or Impact Strength are to be evaluated on one batch through a 4-point Long Term Thermal Aging program per UL 746B to assign a relative thermal index (RTI).

Exception: A generic relative thermal index (RTI), per UL 746B, is to be assigned according to the generic identity of the recycled plastic ascertained through Infrared Analysis per UL 746A.

10.3.7 Long-term UV/Water resistance properties evaluated in accordance with the Standard for Polymeric Materials - Use in Electrical Equipment Evaluations, UL 746C, are to be evaluated on one batch for each representative color.
BSR/UL 2442, Standard for Safety for Wall- and Ceiling-Mounts and Accessories

2. Additional requirements to address products that support audio/video equipment attached to structures.

PROPOSAL

7B Polymeric Load Supporting Parts

7B.1 A polymeric part shall not be used as the only attachment method for securing the weight of the audio/video equipment to the mounting system.

7B.2 A polymeric part may be used as a bushing, bearing, spacer, or other part provided that when removed from the product the product will not release the weight of the audio/video equipment as specified in Mounting Securement Test, Section 63. The part does not need to be removed for the tests specified in Section 63 if by inspection it can be determined that the polymeric part is not a required part to support the weight load.

7D Other Spaces Used for Environmental Air (Plenums)

7D.1 A support system that extends above a suspended ceiling that is intended for use in “Other spaces used for environmental air (Plenums)” shall comply with the following:

a) The portion of the support system that extends above the plane of the ceiling shall be metal or shall be enclosed within a metal enclosure.

1) A metal enclosure provided with metal access panels shall have the access panels secured by fasteners that keep the panel flush to the body of the enclosure without allowing gaps.

2) A metal enclosure provided with knockouts for connection of conduit fittings or communication and control cables shall comply with Section 49A, Knockouts.

3) The metal enclosure shall have no openings above the plane of the ceiling.

Exception: The enclosure may be provided with two openings for conduit fittings, one for power and when provided, one for communication when shipped from the factory.

4) A metal enclosure may have provision for installation of one or more trade size metal outlet boxes secured to the enclosure such that when installed there are no openings between the outlet box and the system enclosure.

b) A polymeric enclosure or part of the support system that is located above the suspended ceiling and is located outside a metal enclosure shall comply with the Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, UL 2043.

a) Enclosure systems intended to be installed in air-handling spaces shall be constructed of metal or constructed of non-metallic material that complies with the

Note 1: The space over a hung ceiling used for environmental air-handling purposes is an example of air handling spaces to which this section applies. 300.22 (C) of National Electrical Code, ANSI/NFPA 70, describes these spaces as “other spaces used for environmental air (plenums)”, or “spaces not specifically fabricated for environmental air-handling purposes”.

Note 2: Products evaluated in accordance with these requirements are considered to comply with the fire retardant and low smoke producing requirements of Article 300 of National Electrical Code, ANSI/NFPA 70, Chapter 4 of the Standard for the Installation of Air-Conditioning and Ventilating Systems, NFPA 90A, Article 602 of the International Mechanical Code, and Article 602 of the Uniform Mechanical Code.

b) Enclosure systems intended for installation in air-handling spaces shall limit the amount of smoke that may enter the space in the event of a fire in any installed equipment. Openings in sections of the enclosure that separate installed equipment from the air-handling spaces shall be limited to small mounting holes, narrow slots associated with unused/unpunched knockouts, and the like. An example of a construction that complies with this requirement is as follows:

Openings in the enclosure that are not closed during the assembly and comply with the following:

1) The largest dimension of an opening shall not be more than 6.4 mm (1/4 in) and the smallest dimension shall not be more than 1.6 mm (1/16 in);

2) There shall be a maximum of five openings in any one side or end of the enclosure and the total area of all openings shall not be more than 1.3 cm² (0.2 in²); and

3) There shall be a maximum of 15 openings in the enclosure and the total area of all openings shall not be more than 3.2 cm² (0.5 in²)enclosure

7D.2 A support system that complies with 7C.1 shall be marked as indicated in 67.9 according to the following:-

a) An enclosure system investigated for use in other spaces used for environmental air (spaces not specifically fabricated for environmental air-handling purposes but used for air-handling purposes, such as a plenum) may be marked “Suitable for Use in Other Space Used for Environmental Air (Plenums)”, “Suitable for Use in Air-handling Spaces”, or equivalent wording.

b) Since enclosure systems covered by these requirements are not intended to house equipment that takes action on or senses the air in Ducts Specifically Fabricated for Environmental Air (see 300.22 (B) of the National Electrical Code, ANSI/NFPA 70), it is not permitted to identify enclosure systems either by marking or instructions as being suitable for use in ducts specifically fabricated for environmental air.
c) An enclosure system intended for installation in air handling spaces that is provided with knockouts or removable panels shall be provided with instructions that require any punched openings to be sealed with a plug constructed of metal or a nonmaterial complying with the Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, UL 2043, or the Standard for Fire Tests of Through-Penetration Firestops, UL 1479, and any covers or panels to be replaced and secured.

d) An enclosure system that is designed for use in drop-ceiling constructions and similar applications that are commonly used for environmental air but is not intended to be used in air handling spaces shall be clearly marked “Not for use in air handling spaces”.

49A.1 Clearance

49A.1.1 A knockout shall effectively cover the opening in which it is located, and the clearance between the knockout and the opening shall not be greater than 0.016 in (0.40 mm). Openings in an enclosure for the connection of a wiring system that in some cases will not be used shall be closed by a knockout, cover, or plug. The closure shall be formed of metal not less than 1.35 mm (0.053 in) thick or of a non-metallic material acceptable for the purpose. The closure shall be such that it may be readily removed, but will not drop out in ordinary handling.

<table>
<thead>
<tr>
<th>Trade size of conduit (metric designator)</th>
<th>Minimum width of flat surface surrounding knockout, in (mm)</th>
<th>Knockout diameters, in (mm)</th>
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<tr>
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<table>
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<th>Conduit trade size</th>
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<td>mm (inches)</td>
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<tr>
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<td>Minimum</td>
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<tr>
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<td>mm</td>
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65A Knockout Mechanical Test Multiple Knockouts Test

65A.1 Two knockouts on each of three enclosures shall be subjected to a force of 44.5 N (10 lbf) for 60 s, applied at right angles by means of a mandrel with a 1/4 in (6.4 mm) diameter flat end. The mandrel shall be applied on the knockout at the point of least strength. The clearance between the knockout and the enclosure shall not be more than 0.016 in (0.40 mm) when measured 60 min after the force has been removed. When an enclosure is provided with a concentric or eccentric knockout, the force shall be applied to the smallest knockout. This clause provides test requirements to determine that a combination consisting of an inner knockout surrounded by additional rings has been manufactured such that when one or more of its elements are removed there will be no change to the remaining rings, if any, or to the enclosure in which the combination is located, either during the removal or when conduit has been properly secured in place.

65A.2 Samples for testing shall be in the form of either complete enclosures or sample plates that fulfill the requirements of Figure 65A.1.

65A.3 With a sample enclosure securely held or a test plate supported as in Figure 65A.1, the following tests shall be applied:

a) The knockout shall remain in place when subjected to a load of 44 N (9.9 pounds) steadily applied for not less than 1 minute normal to the face of the plate by means of a mandrel with a 6.35 mm (1/4 inch) diameter flat end. The mandrel shall be applied at the point most liable to cause movement of the knockout in the direction in which it was originally punched; and
b) A load of 220 N (49.4 pounds) shall be steadily applied for not less than 1 minute, first in compression and second in tension, through a conduit properly installed in the knockout opening. When this test is being conducted, the conduit shall not be more than 5 degrees from the normal to the surface. There shall be no appreciable distortion of the rings or fracture of the ties.

67.9 A support system that complies with Other Spaces Used for Environmental Air (Plenums), Section 7D shall be marked on the enclosure “Suitable for other spaces used for environmental air (Plenums)”. An enclosure system investigated for use in other spaces used for environmental air (spaces not specifically fabricated for environmental air-handling purposes but used for air-handling purposes, such as a plenum) may be marked “Suitable for Use in Other Space Used for Environmental Air (Plenums)”, “Suitable for Use in Air-handling Spaces”, or equivalent wording.

77A Other Spaces Used for Environmental Air (Plenums)

77A.1 A mounting system that is intended for installation in “Other Spaces Used for Environmental Air (Plenums)” shall instruct the installer to close all access panels and leave no unused openings open upon completion of the installation. An enclosure system intended for installation in air handling spaces that is provided with knockouts or removable panels shall be provided with instructions that require any punched openings to be sealed with a plug constructed of metal or a nonmaterial complying with the Standard for Fire Test for Heat and Visible Smoke Release for Discrete Products and Their Accessories Installed in Air-Handling Spaces, UL 2043, or the Standard for Fire Tests of Through-Penetration Firestops, UL 1479, and any covers or panels to be replaced and secured.
BSR/UL 2748, Standard for Safety for Arcing Fault Quenching Equipment

1. Clarification of Scope of UL 2748

1.4 This standard does not include the requirements for arc detection relays and related sensors intended to detect arcing faults, devices intended to trigger the functioning of the arc quenching equipment, or devices that are intended to interrupt arcing fault currents.

2. Clarification of Test Requirements for Resettable Devices

5.9 RESETTABLE (as applied to quenching devices) - capable of being reset and returned to service without replacement or repair of components.

18.6 Quenching devices that are not resettable shall be subject to one operation. Resettable quenching devices shall be subjected to the rated number of quenching operations as specified by the manufacturer. After the rated number of operations has been completed, the quenching device shall be subjected to one additional operation. The device shall successfully quench the arc without creating an arc fault hazard during the final operation, but need not be functional after the test.

19A Mechanical Endurance

19A.1 Resettable quenching devices shall be caused to operate, using the normal operating means, for a number of operations equal to two times the rated number of mechanical operations. One operation is defined as one tripping operation, followed by a reset operation, using the normal means to reset the device. For devices with both a manual and electrical resetting function, the final one half of the operations shall be conducted manually.

19A.2 At the conclusion of the mechanical endurance test, the device shall be in essentially the same mechanical condition as at the beginning of the test.

20.4 For resettable quenching devices, the rated number of electrical operations shall be specified by the manufacturer. This number shall be no greater than the number of test operations performed during the internal arcing fault test, excluding the final operation. This number shall be specified in the instruction manual for the equipment, and shall also appear in the marking required by 21.11.

20.5 For resettable quenching devices, the maximum number of mechanical operations shall be specified by the manufacturer. This number shall be no greater than one half of the operations performed during the mechanical endurance test.
21.11 Resettable devices shall be marked, where visible after installation: "DANGER - Arc Flash Hazard - Replace this equipment after XXX quenching operations", where the XXX is replaced by the rated number of electrical operations specified in 20.4. The word danger shall be in letter no less than 0.5 in (12.7 mm) high. The remaining text shall be no less than 0.25 in (6.4 mm) high.

3. Revision of Grounding Requirements for Transformers in Paragraph 9.1

9.1 There shall be provision for grounding all non-current carrying metal parts of the equipment. In addition, the following parts shall be grounded:

   a) The metal case of a frame or instrument transformer;
   b) The metal case of an instrument, meter or relay; or and
   c) The secondary circuit of a current or voltage transformer, if there are provision for field connection to the secondary circuit. Secondary circuits that are not intended for field connection are not required to be grounded.

4. CB Trip Output Circuits - Addition of Reference to IEEE C37.90 to new Paragraph 14.3

14.3 When provided, output circuits for energizing the trip coils of circuit breakers shall comply with the requirements for Make, Carry, and Interrupt Ratings for Tripping Output Circuits as detailed in the Standard for Relays and Relay Systems Associated with Electric Power Apparatus, IEEE C37.90.

5. Addition of Reference to IEEE C37.90.1 to new Paragraph 14.4

14.4 Arc mitigation equipment that is provided with electronic circuitry shall meet the requirements of the Standard for Surge Withstand Capability (SWC) Tests for Relays and Relay Systems Associated with Electrical Power Apparatus, IEEE C37.90.1.

6. Addition of Reference to IEEE C37.90.2 to new Paragraph 14.5

14.5 Arc mitigation equipment that is provided with electronic circuitry shall meet the requirements of the Standard for Withstand Capability of Relay Systems to Radiated Electromagnetic Interference from Transceivers, IEEE C37.90.2.

7. Addition of Reference to IEEE C37.90.3 to new Paragraph 14.6

14.6 Arc mitigation equipment that is provided with electronic circuitry shall meet the requirements of the Standard for Electrostatic Discharge Tests for Protective Relays, IEC C37.90.3.
8. Clarification of Insulating Material Requirements for Medium Voltage Parts

14.7 Insulating materials in contact with medium voltage parts, or used to isolate medium voltage parts, shall comply with Clause 6.7, Tests for Insulating Materials, of the Standard for Metal Clad Switchgear, IEEE C37.20.2.
BSR/UL 8750, Standard for Light Emitting Diode (LED) Equipment For Use In Lighting Products

1. Add requirements for conduit-connected enclosures

PROPOSAL

3.6.1 ENCLOSURES INTENDED FOR CONDUIT CONNECTION - An enclosure with facility for connection to branch circuit via conduit. In this standard this type of enclosure is utilized for remote LED drivers and for LED drivers that are secured to an exterior surface of a luminaire enclosure. The LED driver output may also be connected via conduit. When installed as intended, unused conduit knockouts and other openings are covered so the electrical and fire enclosure requirements of the standard are fulfilled.

6.3A Metal Enclosures intended for conduit connection

Table 6.5

Determination of minimum wiring compartment volume

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<td>(1.7)</td>
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7.2A Grounding and bonding - metal enclosures intended for conduit connection

8.19 Metal Enclosure for conduit connection - rigidity

8.20 Metal Enclosure for conduit connection - snap-in or tab-mounted parts pull test

8.21 Metal Enclosure for conduit connection - bonding circuit impedance

8.22 Metal Enclosure for conduit connection - ground-screw assembly strength

9.3.6 A metal enclosure for conduit connection that is not intended for pulling conductors shall be marked "FOR CABLE USE ONLY - NOT FOR PULLING WIRES" or equivalent.
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The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

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