ANSI STANDARDS ACTION

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Contents

American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

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ISSN 0038-9633

Comment Deadline: June 26, 2016

NSF (NSF International)

Revision

BSR/NSF 50-201x (i111), Equipment for Swimming Pools, Spas, Hot Tubs and Other Recreational Water Facilities (revision of ANSI/NSF 50-2015)

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: Lauren Panoff, (734) 769-5197, lpanoff@nsf.org

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 489-201X, Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures (revision of ANSI/UL 489-2014)

(5) Revision of requirements for the temperature measurement in clause 7.1.4.1.11; (6) Clarification of requirements for series-connected circuit breakers; (7) Revisions to address DC rated circuit breakers; (10) Motor protection circuit breakers; (12) Circuit breakers with dependent manual operation; (15) Addition of requirements for thermal memory; and (20) Revision to Supplement SC to expand the voltage and to better address power supplies.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Patricia Sena, (919) 549-1636, patricia.a.sena@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 498-201X, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2016)

(1) Revision to paragraph 15.3.6 to reference UL 1681.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Casey Granata, (919) 549-1054, Casey.Granata@UL.Com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 668-201x, Standard for the Safety of Hose Valves for Fire-Protection Service (Proposal Dated 05/27/2016) (revision of ANSI/UL 668-2004 (R2012))

To allow for grooved inlets and alternative thread types where the valve is used in areas specifying different threading.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Lane Terrell, (919) 549-1309, lane.terrell@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 746C-201x, Standard for Safety for Polymeric Materials - Use in Electrical Equipment Evaluations (revision of ANSI/UL 746C-2015)

This proposal for UL 746C is for the revision of requirements for unexposed flame sample testing during the F1/F2 Test described in Paragraph 57.2.2.

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 879A-201X, Standard for Safety for LED Sign and Sign Retrofit Kits (revision of ANSI/UL 879A-2012)

The following changes in requirements to the Standard for LED Sign and Sign Retrofit Kits, UL 879A, are being proposed: (1) Deletion of Supplement SA; and (2) Markings for kit installation instructions.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Heather Sakellariou, (847) 664-2346, Heather.Sakellariou@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1581-201X, Reference Standard for Electrical Wires, Cables, and Flexible Cords (Proposal dated 5-27-16) (revision of ANSI/UL 1581-2015a)

This proposal contains a revision to replace test requirements with a reference to the governing UL 746A standard.

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: July 11, 2016

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2008-28-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2015)

Resolve certain issues regarding compressor stations. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2009-21-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review existing GM for external corrosion control electrical isolation (192.467) for consistency with a 1986 written interpretation (192.467 8). The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2014-26-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review upcoming reference to 2009a ASTM D2513 regarding the outdoor storage requirement that changes from two years for all PE pipe to three years for yellow PE pipe and ten years for black PE pipe. Develop new GM on outdoor storage and UV stability for PE pipe under Section 2, Weathering Statement for Plastic Pipe. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-04-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review existing GM and modify as appropriate in light of Amendment 192 - 119. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-05-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review existing GM and modify as appropriate in light of Amendment 192 - 119. A new reference Standard was adopted that may require new GM. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-07-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review existing GM and revise as appropriate in light of Amendment 191-23, 192-120. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-09-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review existing GM and revise as appropriate in light of Amendment 191-23, 192-120. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-19-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

Review ADB-2015-01 (Potential for Damage to Pipeline Facilities Caused by Severe Flooding) and ADB-2015-02 and determine if any GM revisions are needed. The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AGA (ASC Z380) (American Gas Association)

Addenda

BSR GPTC Z380.1-2015 TR 2015-28-201x, Guide for Gas Transmission, Distribution, and Gathering Piping Systems (addenda to ANSI GPTC Z380.1 -2015)

192.1013, other sections - Review the occurrences of 'waiver”, 'special permit”, and other variants to determine if it should be revised for consistency within GM and meet the intent of Title 49. The standard provides Guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, parts 191 and 192.

Single copy price: Free

Obtain an electronic copy from: www.aga.org/gptc

Order from: Michael Bellman, (202) 824-7183, mbellman@aga.org

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

AIAA (American Institute of Aeronautics and Astronautics)

New Standard

BSR/AIAA G-095A-201x, Guide to Safety of Hydrogen and Hydrogen Systems (new standard)

Specifies information that designers, builders, and users of hydrogen systems can use to manage and ensure safe hydrogen systems or resolve hazards related to the material behavior, facility storage, detection, and transportation of hydrogen as well as a review of emergency procedures. Pertinent research is summarized and supporting data are presented relative to the topic. Additional information regarding codes, standards, and regulations, as well as a sample safety data sheet, training examples, and other useful material are referenced and can be found in the annexes.

Single copy price: $115.95

Obtain an electronic copy from: AIAA

Order from: AIAA

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

ANS (American Nuclear Society)

Reaffirmation

BSR/ANS 6.4-2006 (R201x), Nuclear Analysis and Design of Concrete Radiation Shielding for Nuclear Power Plants (reaffirmation of ANSI/ANS 6.4 -2006)

The standard contains methods and data needed in design of concrete shielding required for protection of personnel and equipment against the effects of gamma rays and neutrons. Specific guidance is given regarding attenuation calculations, shielding design, and standards of documentation.

Single copy price: $208.00

Obtain an electronic copy from: scook@ans.org

Order from: Sue Cook, (708) 579-8210, scook@ans.org

Send comments (with copy to psa@ansi.org) to: Patricia Schroeder, (708) 579-8269, pschroeder@ans.org

ASA (ASC S1) (Acoustical Society of America)

New National Adoption

BSR/ASA S1.11-201x/Part 2/IEC 61260-2:2016, Electroacoustics - Octave-Band and Fractional-Octave-Band Filters - Part 2: Pattern-Evaluation Tests (identical national adoption of IEC 61260-2:2016)

This part provides details of the tests necessary to verify conformance to all mandatory specifications given in ANSI/ASA S1.11-2014/Part 1/IEC 61260 -1:2014 for octave-band and factional-octave-band filters. Tests and test methods are applicable to class 1 and class 2 bandpass filters. The aim is to ensure that all testing laboratories use consistent methods to perform pattern-evaluation tests.

Single copy price: $182.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Neil Stremmel, (631) 390-0215, asastds@acousticalsociety.org

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

ASA (ASC S1) (Acoustical Society of America)

New National Adoption

BSR/ASA S1.11-201x/Part 3/IEC 61260-3:2016, Electroacoustics - Octave-Band and Fractional-Octave Band Filters - Part 3: Periodic Tests (identical national adoption of IEC 61620-3:2016)

This part describes procedures for periodic testing of octave-band and fractional-octave-band filters that were designed to conform to the class 1 or class 2 specifications given in ANSI/ASA S1.11-2014/Part 1/IEC 61260 -1:2014. The aim of this standard is to ensure that periodic testing is performed in a consistent manner by all laboratories.

Single copy price: $182.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Neil Stremmel, (631) 390-0215, asastds@acousticalsociety.org

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

ASA (ASC S12) (Acoustical Society of America)

Reaffirmation

BSR/ASA S12.57-2011/ISO 3747-2010 (R201X), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (reaffirmation of ANSI/ASA S12.57-2011/ISO 3747-2010)

Specifies a method for determining sound power level or sound energy level of a noise source by comparing measured sound pressure levels emitted by a noise source (machinery or equipment) mounted in situ in a reverberant environment, with those from a calibrated reference sound source. Sound power level (or in the case of noise bursts or transient noise emission, the sound energy level) produced by the noise source, in frequency bands of width one octave, is calculated using those measurements.

Single copy price: $167.00

Obtain an electronic copy from: asastds@acousticalsociety.org

Order from: Neil Stremmel, (631) 390-0215, asastds@acousticalsociety.org

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

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

BSR X9.100-10-201x, Paper Specifications for MICR Documents (revision of ANSI X9.100-10-2010)

This is a core printing standard describing how to properly print the E-13B font characters in magnetic ink. Part 1 gives normative information on correctly printing the shape and giving the magnetic characteristics of the E -13B characters and what print quality issues to avoid. Part 2 informatively describes recommended methods of testing MICR characters to assure they are in conformance with normative specifications given in Part 1. Part 3 gives normative instruction on the requirements of a MICR reading device and the methods for producing and calibrating secondary reference documents used to measure MICR waveform and signal level.

Single copy price: $60.00

Obtain an electronic copy from: Ambria.Frazier@x9.org

Order from: Ambria Frazier, (410) 267-7707, Ambria.frazier@x9.org

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

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

New Standard

BSR/ASHRAE Standard 172-201x, Method of Testing the Precipitation Temperature for Partially Soluble Matter in Refrigerant/Lubricant Mixtures (new standard)

The purpose of Standard 172-201x is to define a test method to determine the formation of insoluble materials in synthetic lubricants and HFC systems.

Single copy price: $35.00

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

Order from: standards.section@ashrae.org

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

ASME (American Society of Mechanical Engineers)

Revision

BSR/ASME OM-201x, Operation and Maintenance of Nuclear Power Plants (revision of ANSI/ASME OM-2015)

This Standard establishes the requirements for preservice and inservice testing and examination of certain components to assess their operational readiness in light-water reactor nuclear power plants.

Single copy price: Free

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

Order from: Mayra Santiago, (212) 591-8521, ansibox@asme.org

Send comments (with copy to psa@ansi.org) to: Lauren Powers, (212) 591-7008, powersl@asme.org

ASSE (ASC Z117) (American Society of Safety Engineers)

Revision

BSR ASSE Z117.1-201X, Safety Requirements for Entering Confined Spaces (revision of ANSI ASSE Z117.1-2009)

This standard provides minimum safety requirements to be followed while entering, exiting and working in confined spaces at ambient atmospheric pressure.

Single copy price: $77.00

Obtain an electronic copy from: OMunteanu@ASSE.org

Order from: Ovidiu Munteanu, (847) 232-2012, OMunteanu@ASSE.org

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

ASSE (ASC Z9) (American Society of Safety Engineers)

Revision

BSR ASSE Z9.10-201X, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies (revision and redesignation of ANSI AIHA Z9.10-2010)

This standard discusses fundamental good practices related to the commissioning, design, selection, installation, operation, maintenance, and testing of dilution ventilation (DV) or general exhaust ventilation (GEV) systems used for the control of employee exposure to airborne contaminants.

Single copy price: $77.00

Obtain an electronic copy from: OMunteanu@ASSE.org

Order from: Ovidiu Munteanu, (847) 232-2012, OMunteanu@ASSE.org

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

AWS (American Welding Society)

Reaffirmation

BSR/AWS A4.4M:2001 (R201X), Standard Procedures for Determination of Moisture Content of Welding Fluxes and Welding Electrode Flux Coverings (reaffirmation of ANSI/AWS A4.4M-2001)

This standard describes methods for sample preparation and analysis for determination of total moisture content and other sources of hydrogen measured as water from welding fluxes and electrode coverings.

Single copy price: $36.50

Obtain an electronic copy from: gupta@aws.org

Order from: Rakesh Gupta, (305) 443-9353, x 301, gupta@aws.org

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

AWS (American Welding Society)

Revision

BSR/AWS A5.10/A5.10M-201x (ISO 18273-2004 MOD), Welding Consumables - Wire Electrodes, Wires and Rods for Welding of Aluminum and Aluminum-Alloys - Classification (revision of ANSI/AWS A5.10/A5.10M-1999 (R2007))

This standard specifies requirements for classification of solid wires and rods for fusion welding of aluminum and aluminum alloys. The classification of the solid wires and rods is based on their chemical composition.

Single copy price: $36.50

Obtain an electronic copy from: gupta@aws.org

Order from: Rakesh Gupta, (305) 443-9353, x 301, gupta@aws.org

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

AWWA (American Water Works Association)

Revision

BSR/AWWA C218-201x, Liquid Coatings for Aboveground Steel Water Pipe and Fittings (revision of ANSI/AWWA C218-2008)

This standard describes six coating systems designed to protect the exterior surfaces of steel pipelines and the associated fittings used by the water supply industry in aboveground locations. The coating systems described may not perform or cost the same, but they are presented so that the appropriate coating system can be selected for the site-specific project requirements.

Single copy price: $20.00

Obtain an electronic copy from: vdavid@awwa.org

Order from: Paul Olson, (303) 347-6178, polson@awwa.org; vdavid@awwa.org

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

B11 (B11 Standards, Inc.)

New Standard

BSR B11.26-201x, Functional Safety for Equipment (Electrical/Fluid Power Control Systems) - Application of ISO 13849 General Principles for Design (new standard)

This American National Standard provides guidance in understanding and implementing safety-related control functions (functional safety) as they relate to electrical, electronic, pneumatic, and hydraulic components and systems.

Informative Note 1: This document references ISO 13849-2 - Validation, as part of an annex.

Informative Note 2: The terminology used in this standard may not be used consistently throughout the industry, but this standard does represent concepts that are important when using and designing safety-related control systems.

Informative Note 3: This document is not intended to address PES/PED; see ANSI B11.TR4.

Single copy price: $75.00

Obtain an electronic copy from: dfelinski@b11standards.org

Order from: David Felinski, (832) 446-6999, dfelinski@b11standards.org

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

CSA (CSA Group)

Revision

BSR/CSA NGV2-201x, Standard for Compressed natural gas vehicle fuel containers (revision of ANSI/CSA NGV2-2007 (R2012))

This standard contains requirements for the materials, design, manufacture, and testing of refillable containers intended for the storage of compressed natural gas for vehicle operation and which are affixed to the vehicle. The standard covers fuel containers of up to 1000-liter capacity.

Single copy price: Free

Obtain an electronic copy from: cathy.rake@csagroup.org

Order from: Cathy Rake, (216) 524-4990 x88321, cathy.rake@csagroup.org

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

NEMA (ASC C136) (National Electrical Manufacturers Association)

Reaffirmation

BSR C136.45-2011 (R201x), Standard for Roadway and Area Lighting Equipment -Aluminum Lighting Poles (reaffirmation and redesignation of ANSI C136.36A-2011)

This standard applies to aluminum lighting poles and includes nomenclature, dimensional data, performance criteria, and some interchangeability features for standard poles as well as those that must meet breakaway requirements for poles as described in AASHTO LTS Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals.

Single copy price: $63.00

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

UL (Underwriters Laboratories, Inc.)

Reaffirmation

BSR/UL 1567-2012 (R201X), Receptacles and Switches Intended for Use with Aluminum Wire (reaffirmation of ANSI/UL 1567-2012)

Reaffirmation of ANSI approval for UL 1567.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

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.)

Reaffirmation

BSR/UL 1681-2012 (R201X), Wiring Device Configurations (reaffirmation of ANSI/UL 1681-2012)

Reaffirmation of ANSI approval for UL 1681.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

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.)

Revision

BSR/UL 1008A-201x, Standard for Safety for Medium-Voltage Transfer Switches (revision of ANSI/UL 1008A-2012)

Publication of a new edition of UL 1008A as a bi-national harmonized standard.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Valara Davis, (919) 549-0921, Valara.Davis@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1640-201x, Standard for Safety for Portable Power-Distribution Equipment (revision of ANSI/UL 1640-2016)

The following are proposed new and revised requirements for UL 1640: (1) Revision of the scope of UL 1640; (2) Clarification of the requirements of paragraph 1.3; (3) Editorial corrections to types of connector configurations; (4) Update references to standards UL 50 and UL 50E in UL 1640; (5) Addition of requirements for the use of "weather resistant" receptacles for equipment rated for outdoor use; 6) Addition of requirements for GFCI protection for portable equipment; 7) Clarification for requirements for thermocouples in paragraph 19.4; and (8) Editorial correction of paragraph 61.1.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: http://www.comm-2000.com

Order from: comm2000

Send comments (with copy to psa@ansi.org) to: Derrick Martin, (510) 319-4271, Derrick.L.Martin@ul.com

Comment Deadline: July 26, 2016

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1062-201x, Recommended Practice for Software Acquisition (new standard)

This recommended practice describes a set of useful quality considerations that can be selected and applied during one or more steps in a software acquisition process. The recommended practices can be applied to software that runs on any computer system regardless of the size, complexity, or criticality of the software. The software supply chain may include integration of commercial-off-the-shelf (COTS), custom, or Free and Open Source Software (FOSS).

Single copy price: $72.00 (pdf); $90.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1149.6-201x, Standard for Boundary-Scan Testing of Advanced Digital Networks (new standard)

This standard defines extensions to IEEE Std 1149.1TM to standardize the Boundary-Scan structures and methods required to help ensure simple, robust, and minimally intrusive Boundary-Scan testing of advanced digital networks. Such networks are not adequately addressed by existing standards, especially for those networks that are AC-coupled, differential, or both.

Single copy price: $178.00 (pdf); $223.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1673-201x, Standard for Requirements for Conduit and Cable Seals for Field Connected Wiring to Equipment in Petroleum and Chemical Industry Exposed to Pressures above Atmospheric (1.5 kPa, 0.22 psi) (new standard)

This document provides specific requirements for field-installed sealing between a pressurized system (stream) containing flammable or combustible process fluids, which is connected directly or indirectly to an electrical system where a failure could allow the migration of process fluids directly into the electrical system.

Single copy price: $49.00 (pdf); $61.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1815.1-201x, Standard for Exchanging Information between networks Implementing IEC 61850 and IEEE Std 1815(TM) (Distributed Network Protocol - DNP3) (new standard)

This document specifies the standard approach for mapping between IEEE Std 1815 (Distributed Network Protocol (DNP3)) and IEC 61850 (Communications Networks and Systems for Power Utility Automation). Two primary use cases are addressed: (a) Mapping between an IEEE 1815-based master and an IEC 61850-based server. (b) Mapping between an IEC 61850-based client and an IEEE 1815-based outstation.

Single copy price: $246.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1844-201x, Standard Test Procedure for Determining Circuit Integrity Performance of Fire Resistive Cables in Nuclear Facilities (new standard)

This standard provides a method for subjecting energized cable systems to a standard fire exposure to obtain a time rating. Types of cable include power, control, instrumentation, and communication cables. Acceptance criteria are based on the cable maintaining functionality throughout the prescribed test.

Single copy price: $72.00 (pdf); $90.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1857.5-201x, Draft Standard for Advanced Mobile Speech and Audio (new standard)

This part of IEEE 1857.5 describes a set of speech and audio compression, decompression and packaging tools and mechanism. This part is applicable to the following areas:

- Mobile communication;

- Wireless broadband multimedia communication; and

- Internet broadband streaming media business.

Single copy price: $133.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE 1906.1-201x, Recommended Practice for Nanoscale and Molecular Communication Framework (new standard)

This recommended practice contains a conceptual model and a standard terminology for ad hoc network communication at the nanoscale. More specifically, this recommended practice contains: (a) the definition of nanoscale communication networking, (b) the conceptual model for ad hoc nanoscale communication networking, and (c) the common terminology for nanoscale communication networking.

Single copy price: $72.00 (pdf); $90.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE C37.302-201x, Guide for Fault Current Limiter (FCL) Testing FCLs rated above 1000 V AC (new standard)

This guide describes the testing of fault current limiters (FCLs) operating on condition-based impedance increase for AC systems 1000 V and above. This guide does not include constant impedance series reactors and single fuses.

Single copy price: $86.00 (pdf)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE C57.32-201x, Standard for Requirements, Terminology, and Test Procedures for Neutral Grounding Devices (new standard)

This standard applies to devices used for the purpose of controlling the ground current or the potentials to ground of an alternating current system. These devices are: grounding transformers, ground-fault neutralizers, resistors, reactors, or combinations of these devices.

Single copy price: $89.00 (pdf); $111.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

New Standard

BSR/IEEE C57.139-201x, Guide for Dissolved Gas Analysis in Transformer Load Tap Changers (new standard)

This guide discusses and recommends methods of testing and evaluating dissolved gases in mineral-based transformer oils found in Load Tap Changers (LTCs). General types of LTC mechanisms, breathing configurations, and electrical design will be included for evaluation criteria in determining when mechanical damage or failure has occurred. Dissolved Gas Analysis (DGA) of the oil in the LTC is required.

Single copy price: $56.00 (pdf); $70.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 802.15.4-201x, Standard for Low-Rate Wireless Personal Area Networks (WPANs) (revision of ANSI/IEEE 802.15.4-2011)

This standard defines the physical layer (PHY) and medium access control (MAC) sublayer specifications for low-data-rate wireless connectivity with fixed, portable, and moving devices with no battery- or very limited battery-consumption requirements. In addition, the standard provides modes that allow for precision ranging. Physical layers (PHYs) are defined for devices operating various license-free bands in a variety of geographic regions.

Single copy price: $370.00 (pdf); $462.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 1068-201x, Standard for the Repair and Rewinding of AC Electric Motors in the Petroleum, Chemical, and Process Industries (revision of ANSI/IEEE 1068-2009)

This document covers general recommendations for the repair of alternating-current (ac) electric motors and includes guidelines for both the user and the repair facility. This standard covers reconditioning, repair, and rewind of horizontal and vertical induction motors and of synchronous motors. It applies to all voltages 15 kV and less, and all ratings above 0.75 kW (1 hp). This standard applies only to the repair of motors, and in cases involving modifications to the basic design, care must be taken so as not to negatively affect the safety and reliability of the motor.

Single copy price: $89.00 (pdf); $111.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE 1801-201x, Standard for Design and Verification of Low-Power, Energy-Aware Electronic Systems (revision of ANSI/IEEE 1801-2015)

This standard defines the syntax and semantics of a format used to express power intent in energy-aware electronic system design. Power intent includes the concepts and information required for specification and validation, implementation and verification, and modeling and analysis of power-managed electronic systems. This standard also defines the relationship between the power intent captured in this format and design intent captured via other formats (e.g., standard hardware description languages and cell libraries).

Single copy price: $print: 390

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C37.13-201x, Standard for Low-Voltage AC Power Circuit Breakers Used in Enclosures (revision of ANSI/IEEE C37.13-2008)

This standard covers the following types and preferred ratings for enclosed low-voltage ac power circuit breakers: (a) Stationary or drawout type of two-, three-, or four-pole construction with one or more rated maximum voltages of 1058 V, 730 V, 635 V (600 V for units incorporating fuses), 508 V, or 254 V for application on systems having nominal voltages of 1000 V, 690 V, 600 V, 480 V, or 240 V, respectively; (b) Unfused or fused type; (c) Manually operated or power operated, with or without a trip system; and (d) Fused drawout assemblies consisting of current-limiting fuses in a drawout assembly.

Single copy price: $56.00 (pdf); $69.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C37.27-201x, Guide for Low-Voltage AC (635 V and below) Power Circuit Breakers Applied with Separately-Mounted Current-Limiting Fuses (revision of ANSI/IEEE C37.27-2009)

This guide applies to unfused low-voltage ac power circuit breakers of the 635 V maximum voltage class with separately mounted current-limiting fuses for use on ac circuits with available short-circuit currents of 200 000 A (rms symmetrical) or less. Low-voltage ac-fused power circuit breakers and combinations of fuses and molded-case circuit breakers are not covered by this guide.

Single copy price: $49.00 (pdf); $61.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C57.12.90-201x, Standard Test Code for Liquid-Immersed Distribution, Power, and Regulating Transformers (revision of ANSI/IEEE C57.12.90-2010)

This standard describes methods for performing tests specified in IEEE Std C57.12.00™ and other standards applicable to liquid-immersed distribution, power, and regulating transformers. It is intended for use as a basis for performance and proper testing of such transformers.

Single copy price: $137.00 (pdf); $171.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C57.94-201x, Recommended Practice for Installation, Application, Operation, and Maintenance of Dry-Type Distribution and Power Transformers (revision of ANSI/IEEE C57.94-2000 (R2006))

This recommended practice covers general recommendations for the application, installation, operation, and maintenance of all single and polyphase ventilated, non-ventilated, and sealed dry-type distribution and power transformers or autotransformers, including those with solid-cast and/or resin-encapsulated windings

Single copy price: $49.00 (pdf); $61.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

IEEE (Institute of Electrical and Electronics Engineers)

Revision

BSR/IEEE C57.106-201x, Guide for Acceptance and Maintenance of Insulating Mineral Oil in Electrical Equipment (revision of ANSI/IEEE C57.106-2006)

This guide applies to mineral oil used in transformers, load tap changers, voltage regulators, and reactors. The guide discusses the following: (a) Analytical tests and their significance for the evaluation of mineral insulating oil; (b) The evaluation of new, unused mineral insulating oil before and after filling into equipment; (c) The evaluation of in-service mineral insulating oil; (d) Health and environmental care procedures for mineral insulating oil; and (e) Methods of handling and storage of mineral insulating oil.

Single copy price: $56.00 (pdf); $70.00 (print)

Order from: online: http://standards.ieee.org/store

Send comments (with copy to psa@ansi.org) to: Karen Evangelista, (732) 562-3854, k.evangelista@ieee.org

Projects Withdrawn from Consideration

An accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

MHI (Material Handling Industry)

BSR MH24.1-201x, Standard for Horizontal Carousel Material Handling and Associated Equipment (revision of ANSI MH24.1-2005)

MHI (Material Handling Industry)

BSR MH26.1-2004 (R201x), Industrial Metal Containers - Specifications (reaffirmation of ANSI MH26.1-2004)

30 Day Notice of Withdrawal: ANS 5 to 10 years past approval date

In accordance with clause 4.7.1 Periodic Maintenance of American National Standards of the ANSI Essential Requirements, the following American National Standards have not been reaffirmed or revised within the five-year period following approval as an ANS. Thus, they shall be withdrawn at the close of this 30-day public review notice in Standards Action.

MHI (Material Handling Industry)

ANSI MH24.1-2005, Safety Standard for Horizontal Carousel Material Handling and Associated Equipment

MHI (Material Handling Industry)

ANSI MH26.1-2004, Industrial Metal Containers - Specifications

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.

AIAA (American Institute of Aeronautics and Astronautics)

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

Contact: *Hillary Woehrle*

Phone: (703) 264-7546

E-mail: hillaryw@aiaa.org

BSR/AIAA G-095A-200x, Guide to Safety of Hydrogen and Hydrogen Systems (new standard)

Obtain an electronic copy from: AIAA

ASA (ASC S1) (Acoustical Society of America)

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

Contact: *Neil Stremmel*

Phone: (631) 390-0215

Fax: (631) 923-2875

E-mail: asastds@acousticalsociety.org

BSR/ASA S1.11-201x/Part 3/IEC 61260-3:2016, Electroacoustics - Octave-Band and Fractional-Octave Band Filters - Part 3: Periodic Tests (identical national adoption of IEC 61620-3:2016)

Obtain an electronic copy from: asastds@acousticalsociety.org

BSR/ASA S1.11-201x/Part 2 / IEC 61260-2:2016, Electroacoustics - Octave-Band and Fractional-Octave-Band Filters - Part 2: Pattern-Evaluation Tests (identical national adoption of IEC 61260-2:2016)

Obtain an electronic copy from: asastds@acousticalsociety.org

ASA (ASC S12) (Acoustical Society of America)

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

Contact: *Susan Blaeser*

Phone: (631) 390-0215

Fax: (631) 923-2875

E-mail: asastds@acousticalsociety.org

BSR/ASA S12.57-2011/ISO 3747-2010 (R201X), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (reaffirmation of ANSI/ASA S12.57-2011/ISO 3747-2010)

Obtain an electronic copy from: asastds@acousticalsociety.org

ASSE (ASC Z117) (American Society of Safety Engineers)

Office: 520 N. Northwest Highway
Park Ridge, IL 60068

Contact: *Ovidiu Munteanu*

Phone: (847) 232-2012

Fax: (847) 699-2929

E-mail: OMunteanu@ASSE.org

BSR ASSE Z117.1-201X, Safety Requirements for Entering Confined Spaces (revision of ANSI ASSE Z117.1-2009)

Obtain an electronic copy from: Ovidiu Munteanu

ASSE (ASC Z9) (American Society of Safety Engineers)

Office: 520 N. Northwest Highway
Park Ridge, IL 60068

Contact: *Ovidiu Munteanu*

Phone: (847) 232-2012

E-mail: OMunteanu@ASSE.org

BSR ASSE Z9.10-201X, Fundamentals Governing the Design and Operation of Dilution Ventilation Systems in Industrial Occupancies (revision of ANSI AIHA Z9.10-2010)

Obtain an electronic copy from: Ovidiu Munteanu

NECA (National Electrical Contractors Association)

Office: 3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814

Contact: *Sofia Arias*

Phone: (301) 215-4549

Fax: (301) 215-4500

E-mail: sofia.arias@necanet.org

BSR/NECA 305-201x, Standard for Fire Alarm System Job Practices (revision of ANSI/NECA 305-2010)

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 C136.37-201x, Standard For Roadway and Area Lighting Equipment - Solid State Light Sources Used in Roadway and Area Lighting (revision of ANSI C136.37-2011)

BSR C136.45-2011 (R2016), Standard for Roadway and Area Lighting Equipment -Aluminum Lighting Poles (reaffirmation and redesignation of ANSI C136.36A-2011)

Obtain an electronic copy from: karen.willis@nema.org

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995

Contact: *Ross Wilson*

Phone: (919) 549-1511

Fax: (631) 271-6200

E-mail: Ross.Wilson@ul.com

BSR/UL 1581-201X, Reference Standard for Electrical Wires, Cables, and Flexible Cords (Proposal dated 5-27-16) (revision of ANSI/UL 1581-2015a)

Obtain an electronic copy from: www.comm-2000.com

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

ASC X9 (Accredited Standards Committee X9, Incorporated)

Revision

ANSI X9.112-1-2016, Wireless Management and Security - Part 1: General Requirements (revision of ANSI X9.112-1-2009): 5/18/2016

ANSI X9.119-1-2016, Retail Financial Services - Requirements for Protection of Sensitive Payment Card Data - Part 1: Using Encryption Methods (revision of ANSI X9.119-1-2013): 5/19/2016

ASME (American Society of Mechanical Engineers)

Revision

ANSI/ASME B31Q-2016, Pipeline Personnel Qualification (revision of ANSI/ASME B31Q-2014): 5/18/2016

Stabilized Maintenance

ANSI/ASME B94.6-1984 (S2016), Knurling (stabilized maintenance of ANSI/ASME B94.6-1984 (R2014)): 5/18/2016

ANSI/ASME B94.7-1980 (S2016), Hobs (stabilized maintenance of ANSI/ASME B94.7-1980 (R2015)): 5/18/2016

ANSI/ASME B94.33-1996 (S2016), Jig Bushings (stabilized maintenance of ANSI/ASME B94.33-1996 (R2015)): 5/18/2016

ANSI/ASME B94.51M-2010 (S2016), Specifications for Band Saw Blades (Metal Cutting) (stabilized maintenance of ANSI/ASME B94.51M-2010 (R2015)): 5/18/2016

ANSI/ASME B94.52M-1999 (S2016), Specifications for Hacksaw Blades (stabilized maintenance of ANSI/ASME B94.52M-1999 (R2015)): 5/18/2016

ASTM (ASTM International)

Revision

ANSI/ASTM D3841-2016, Specification for Glass-Fiber-Reinforced Polyester Plastic Panels (revision of ANSI/ASTM D3841-2001 (R2008)): 5/17/2016

ANSI/ASTM D4226-2016, Test Methods for Impact Resistance of Rigid Poly(Vinyl Chloride) (PVC) Building Products (revision of ANSI/ASTM D4226-2011): 5/17/2016

ANSI/ASTM D4495-2016, Test Method for Impact Resistance of Poly (Vinyl Chloride) (PVC) Rigid Profiles by Means of a Falling Weight (revision of ANSI/ASTM D4495-2012): 5/17/2016

ANSI/ASTM D7797-2016, Test Method for Determination of the Fatty Acid Methyl Esters Content of Aviation Turbine Fuel Using Flow Analysis by Fourier Transform Infrared Spectroscopy - Rapid Screening Method (revision of ANSI/ASTM D7797-2012): 5/17/2016

ANSI/ASTM E18-2016, Test Methods for Rockwell Hardness of Metallic Materials (revision of ANSI/ASTM E18-2015): 5/17/2016

ANSI/ASTM E2026-2016, Guide for Seismic Risk Assessment of Buildings (revision of ANSI/ASTM E2026-2015): 5/17/2016

ANSI/ASTM E2557-2016, Practice for Probable Maximum Loss (PML) Evaluations for Earthquake Due-Diligence Assessments (revision of ANSI/ASTM E2557-2015): 5/17/2016

AWS (American Welding Society)

New Standard

ANSI/AWS C2.20/C2.20M-2016, Specification for Thermal Spraying Zinc Anodes on Steel Reinforced Concrete (new standard): 5/19/2016

NEMA (ASC C8) (National Electrical Manufacturers Association)

New Standard

ANSI/ICEA S-120-742-2016, Hybrid Optical Fiber and Power Cable for Use in Limited Power Circuits (new standard): 5/19/2016

PSAI (Portable Sanitation Association International)

New Standard

* ANSI/PSAI Z4.3-2016, Sanitation - Non-Sewered Waste Disposal Systems: Minimum Requirements (new standard): 5/19/2016

ANSI/PSAI Z4.4-2016, Sanitation in Fields and Temporary Labor Camps: Minimum Requirements (new standard): 5/19/2016

Revision

* ANSI/PSAI Z4.1-2016, Sanitation in Places of Employment: Minimum Requirements (revision of ANSI Z4.1-1986 (R2005)): 5/19/2016

UL (Underwriters Laboratories, Inc.)

Revision

ANSI/UL 508C-2016, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010c): 5/16/2016

ANSI/UL 508C-2016a, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010c): 5/16/2016

ANSI/UL 508C-2016b, Standard for Safety for Power Conversion Equipment (revision of ANSI/UL 508C-2010): 5/16/2016

ANSI/UL 943-2016, Standard for Safety for Ground-Fault Circuit-Interrupters (revision of ANSI/UL 943-2012): 5/17/2016

VITA (VMEbus International Trade Association (VITA))

Revision

ANSI/VITA 51.2-2016, Physics of Failure Reliability Predictions (revision of ANSI/VITA 51.2-2011): 5/17/2016

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. To view information about additional standards for which a PINS has been submitted and to search approved ANS, please visit www.NSSN.org, which is a database of standards information. Note that this database is not exhaustive.

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.

ANS (American Nuclear Society)

Office: 555 North Kensington Avenue
La Grange Park, IL 60526
Contact: *Kathryn Murdoch*
Fax: (708) 579-8248
E-mail: kmurdoch@ans.org

BSR/ANS 8.12-201x, Nuclear Criticality Control and Safety of Plutonium-Uranium Fuel Mixtures Outside Reactors (revision of ANSI/ANS 8.12-1987 (R2016))

Stakeholders: USDOE, USDOE contractors, USNRC, USNRC Licensees, and ISO.

Project Need: It is recognized that the ANS 8.12 standard should be revised to extend the areas of applicability by providing wider range of subcritical data (for various isotopic compositions of MOX and densities of powder or pellets) to cover a wider domain of MOX fuel fabrication and operation. The intent is to make the standard more useful to the user community.

This standard provides guidance for operations with plutonium-uranium oxide fuel mixtures outside nuclear reactors. The principal objective of this standard is to provide subcritical configuration data for MOX fuel for various isotopic compositions and powder/pellet densities.

APA (APA - The Engineered Wood Association)

Office: 7011 South 19th Street
Tacoma, WA 98466
Contact: *Borjen Yeh*
Fax: (253) 565-7265
E-mail: borjen.yeh@apawood.org

* BSR A190.1-201x, Standard for Wood Products - Structural Glued Laminated Timber (revision of ANSI A190.1-2012)

Stakeholders: Glulam manufacturers, distributors, designers, users, building code regulators, and government agencies.

Project Need: Update the existing standard.

Covers the manufacturing, qualification, quality assurance, and installation requirements for structural glued laminated timber products.

* BSR/APA PRG 320-201x, Standard for Performance-Rated Cross-Laminated Timber (revision of ANSI/APA PRG 320-2012)

Stakeholders: Cross-laminated timber manufacturers, distributors, designers, users, building code regulators, and government agencies.

Project Need: Update the existing standard.

Covers the manufacturing, qualification, quality assurance, and installation requirements for cross-laminated timber products

ASC X9 (Accredited Standards Committee X9, Incorporated)

Office: 275 West Street
Suite 107
Annapolis, MD 21401
Contact: *Ambria Frazier*
E-mail: Ambria.frazier@x9.org

BSR X9.100-140-201x, Specifications for an Image Replacement Document (IRD) (revision of ANSI X9.100-140-2013)

Stakeholders: Banks.

Project Need: Required review (ANSI policy).

This standard provides the financial industry with a specification for an Image Replacement Document (IRD) that provides for a machine readable substitute document created from the image that is made from the front and back of the original check.

ISTA (International Safe Transit Association)

Office: 1400 Abbot Rd.,Suite 160
East Lansing, MI 48823
Contact: *Eric Hiser*
E-mail: ehiser@ista.org

BSR/ISTA Procedure 3E-201x, Unitized Loads of Same Packaged-Products for Full Truckload Shipment (new standard)

Stakeholders: Consumer Packaged Goods (CPG), test laboratories, carriers.

Project Need: Establish consensus standard of a general simulation test for unitized loads.

Procedure 3E is a general simulation test for unitized loads. Unitized loads of packaged-products are shipped through a motor carrier (truck) delivery system, where an entire trailer-load is filled with unitized packaged-products, often of the same packaged-products, intended for one destination. This type of shipment is called Full Truckload (FTL).

NECA (National Electrical Contractors Association)

Office: 3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814

Contact: *Sofia Arias*

Fax: (301) 215-4500

E-mail: sofia.arias@necanet.org

* BSR/NECA 305-201x, Standard for Fire Alarm System Job Practices (revision of ANSI/NECA 305-2010)

Stakeholders: Electrical contractors, specifiers, electrical workers, inspectors, building owners, maintenance engineers.

Project Need: National Electrical Installation Standards (developed by NECA in partnership with other industry organizations) are the first performance standards for electrical construction. They go beyond the basic safety requirements of the National Electrical Code to clearly define what is meant by installing products and systems in a "neat and workmanlike" manner.

This standard describes practices for installing, testing, and maintaining fire alarm systems. These job practices represent a minimum level of quality for fire-alarm-system installations.

NEMA (ASC C136) (National Electrical Manufacturers Association)

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

Contact: *Karen Willis*

Fax: (703) 841-3378

E-mail: Karen.Willis@nema.org

BSR C136.37-201x, Standard for Roadway and Area Lighting Equipment - Solid State Light Sources Used in Roadway and Area Lighting (revision of ANSI C136.37-2011)

Stakeholders: Manufacturers, users, specifiers, and testing labs.

Project Need: This revision is needed to update the document with current industry practices.

This project is to update the standard with current test procedures, set-up and operation, and to further define and update pass/fail criteria.

UL (Underwriters Laboratories, Inc.)

Office: 12 Laboratory Drive
Research Triangle Park, NC 27709-3995

Contact: *Ross Wilson*

Fax: (631) 271-6200

E-mail: Ross.Wilson@ul.com

* BSR/UL 8139-201X, Standard for Safety for Electrical Systems of Electronic Cigarettes (new standard)

Stakeholders: Manufacturers of electronic cigarettes, manufacturers of electronic cigarette battery charging systems, supply chain, users.

Project Need: To obtain national recognition for UL 8139.

These requirements only cover the electrical systems of personal battery operated electronic cigarettes, also known as eCigarettes, and their battery charging systems. These requirements do not cover the consumable of the electronic cigarette. These requirements do not consider the physiological effects of any consumable used with the product.

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)
- AAMVA (American Association of Motor Vehicle Administrators)
- AGA (American Gas Association)
- AGSC (Auto Glass Safety Council)
- ASC X9 (Accredited Standards Committee X9, Incorporated)
- ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.)
- ASME (American Society of Mechanical Engineers)
- ASTM (ASTM International)
- GBI (The Green Building Initiative)
- GEIA (Greenguard Environmental Institute)
- HL7 (Health Level Seven)
- IESNA (The Illuminating Engineering Society of North America)
- MHI (ASC MH10) (Material Handling Industry)
- NAHBRC (NAHB Research Center, Inc.)
- NBBPVI (National Board of Boiler and Pressure Vessel Inspectors)
- NCPDP (National Council for Prescription Drug Programs)
- NISO (National Information Standards Organization)
- NSF (NSF International)
- PRCA (Professional Ropes Course Association)
- RESNET (Residential Energy Services Network)
- TIA (Telecommunications Industry Association)
- UL (Underwriters Laboratories, Inc.)

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit *ANSI Online* at www.ansi.org/asd, select “Standards Activities,” click on “Public Review and Comment” and “American National Standards Maintained Under Continuous Maintenance.” This information is also available directly at www.ansi.org/publicreview.

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

ANSI-Accredited Standards Developers Contact Information

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

AGA (ASC Z380)
American Gas Association

400 North Capitol Street, NW
Washington, DC 20001
Phone: (202) 824-7183
Web: www.aga.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

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

APA
APA - The Engineered Wood Association

7011 South 19th Street
Tacoma, WA 98466
Phone: (253) 620-7467
Fax: (253) 565-7265
Web: www.apawood.org

ASA (ASC S1)
Acoustical Society of America

1305 Walt Whitman Road Suite 300
Melville, NY 11747
Phone: (631) 390-0215
Fax: (631) 923-2875
Web: www.acousticalsociety.org

ASA (ASC S12)
Acoustical Society of America

1305 Walt Whitman Rd
Suite 300
Melville, NY 11747
Phone: (631) 390-0215
Fax: (631) 923-2875
Web: www.acousticalsociety.org

ASC X9
Accredited Standards Committee X9, Incorporated

275 West Street
Suite 107
Annapolis, MD 21401
Phone: (410) 267-7707
Web: www.x9.org

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

1791 Tullie Circle, NE
Atlanta, GA 30329
Phone: (404) 636-8400
Fax: (404) 321-5478
Web: www.ashrae.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

ASSE (ASC Z117)
American Society of Safety Engineers

520 N. Northwest Highway
Park Ridge, IL 60068
Phone: (847) 232-2012
Fax: (847) 699-2929
Web: www.asse.org

ASSE (ASC Z9)
American Society of Safety Engineers

520 N. Northwest Highway
Park Ridge, IL 60068
Phone: (847) 232-2012
Web: www.asse.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
130
Miami, FL 33166
Phone: (305) 443-9353, x 301
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

B11
B11 Standards, Inc.

PO Box 690905
Houston, TX 77269-0905
Phone: (832) 446-6999

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

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

ISTA
International Safe Transit Association

1400 Abbot Rd.,Suite 160
East Lansing, MI 48823
Phone: (517) 333-3437
Web: www.ista.org

NECA
National Electrical Contractors Association

3 Bethesda Metro Center
Suite 1100
Bethesda, MD 20814
Phone: (301) 215-4549
Fax: (301) 215-4500
Web: www.neca-neis.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

NEMA (ASC C8)
National Electrical Manufacturers Association

1300 North 17th Street
Rosslyn, VA 22209
Phone: (703) 841-3299
Web: www.nema.org

NSF
NSF International

789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Phone: (734) 769-5197
Web: www.nsf.org

PSAI
Portable Sanitation Association International

2626 E. 82nd Street
Suite 175
Bloomington, IN 55425
Phone: (952) 854-8300
Web: www.psai.org

UL
Underwriters Laboratories, Inc.

12 Laboratory Drive
Research Triangle Park, NC 27709
-3995
Phone: (919) 549-1511
Fax: (631) 271-6200
Web: www.ul.com

VITA
VMEbus International Trade Association (VITA)

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

ISO & IEC Draft International Standards

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

Comments

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

Ordering Instructions

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

ISO Standards

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO/DIS 13722, Microbiology of the food chain - Enumeration of Brochothrix spp. - Colony-count technique - 6/18/2016, $53.00

ISO/DIS 18794, Coffee - Sensorial analysis - Vocabulary - 8/7/2016, FREE

AIRCRAFT AND SPACE VEHICLES (TC 20)

ISO/DIS 19923, Space environment (natural and artificial) - Plasma environments for generation of worst case electrical potential differences for spacecraft - 8/7/2016, $67.00

ISO/DIS 8625-2, Aerospace - Fluid systems - Vocabulary - Part 2: General terms and definitions relating to flow - 8/7/2016, $33.00

ISO/DIS 8625-3, Aerospace - Fluid systems - Vocabulary - Part 3: General terms and definitions relating to temperature - 8/7/2016, $33.00

CRYOGENIC VESSELS (TC 220)

ISO/DIS 23208, Cryogenic vessels - Cleanliness for cryogenic service - 6/16/2016, $46.00

DENTISTRY (TC 106)

ISO/DIS 9917-2, Dentistry - Water-based cements - Part 2: Resin-modified cements - 6/19/2016, $82.00

FIRE SAFETY (TC 92)

ISO/DIS 19703, Generation and analysis of toxic gases in fire - Calculation of species yields, equivalence ratios and combustion efficiency in experimental fires - 8/7/2016, $107.00

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 5782-1, Pneumatic fluid power - Compressed-air filters - Part 1: Main characteristics to be included in suppliers literature and product marking requirements - 8/7/2016, $53.00

GRAPHIC TECHNOLOGY (TC 130)

ISO/DIS 19593-1, Graphic technology - Use of PDF to associate processing steps and content data - Part 1: Processing steps 2016 - 6/18/2016, $67.00

GRAPHICAL SYMBOLS (TC 145)

ISO 7001/DAmd96, PI TF 042: Meeting point - 6/18/2016, $29.00

ISO 7001/DAmd97, PI TF 043: Tour group meeting point - 6/18/2016, $29.00

ISO 7001/DAmd98, Symbol PI PF 074: Automatic sensor faucet - 6/16/2016, $29.00

ISO 7001/DAmd99, PI PF 075: Hand dryer - 6/16/2016, $29.00

ISO 7001/DAmd100, Graphical symbols - Public information symbols - Amendment 1: PI PF 076: Toilet paper - 6/16/2016, $29.00

IMPLANTS FOR SURGERY (TC 150)

ISO 14242-1/DAmd1, Implants for surgery - Wear of total hip-joint prostheses - Part 1: Loading and displacement parameters for wear-testing machines and corresponding environmental conditions for test - Amendment 1 - 8/11/2016, $33.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8178-4, Reciprocating internal combustion engines - Exhaust emission measurement - Part 4: Steady-state test cycles for different engine applications - 8/13/2016, $203.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 13373-7, Condition monitoring and diagnostics of machines - Vibration condition monitoring - Part 7: Diagnostic techniques for machine sets in hydraulic power generating and pump-storage plants - 8/8/2016

NANOTECHNOLOGIES (TC 229)

ISO/DIS 19007, Nanotechnologies - In vitro MTS assay for measuring the cytotoxic effect of nanoparticles - 8/10/2016, FREE

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 11554, Optics and photonics - Lasers and laser-related equipment - Test methods for laser beam power, energy and temporal characteristics - 6/19/2016, $77.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 12944-4, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 4: Types of surface and surface preparation - 6/19/2016, $77.00

ISO/DIS 12944-5, Paints and varnishes - Corrosion protection of steelstructures by protective paint systems - Part 5: Protective paint systems - 6/19/2016, $93.00

ISO/DIS 12944-8, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 8: Development of specifications for new work and maintenance - 6/19/2016, $102.00

ISO/DIS 12944-9, Paints and varnishes - Corrosion protection of steel structures by protective paint systems - Part 9: Protective paint systems and laboratory performance test methods for offshore and related structures - 6/19/2016, $88.00

QUANTITIES, UNITS, SYMBOLS, CONVERSION FACTORS (TC 12)

ISO/DIS 80000-2, Quantities and units - Part 2: Mathematics - 8/7/2016, $102.00

ROAD VEHICLES (TC 22)

ISO/DIS 8535-1, Diesel engines - Steel tubes for high-pressure fuel injection pipes - Part 1: Requirements for seamless cold-drawn single-wall tubes - 6/16/2016, $53.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 20851, Synthetic rubber latex - Examination for micro-organisms - 6/18/2016, $40.00

SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)

ISO/DIS 20998-3, Measurement and characterization of particles by acoustic methods - Part 3: Guidelines for non-linear theory - 8/11/2016

ISO/DIS 21501-4, Determination of particle size distribution - Single particle light interaction methods - Part 4: Light scattering airborne particle counter for clean spaces - 6/17/2016, $88.00

SPORTS AND RECREATIONAL EQUIPMENT (TC 83)

ISO/DIS 20957-8, Stationary training equipment - Part 8: Steppers, stairclimbers and climbers - Additional specific safety requirements and test methods - 8/11/2016, $67.00

ISO/DIS 20957-10, Stationary training equipment - Part 10: Exercise bicycles with a fixed wheel or without freewheel, additional specific safety requirements and test methods - 8/11/2016, $58.00

STEEL WIRE ROPES (TC 105)

ISO/DIS 2408, Steel wire ropes - Minimum requirements - 6/16/2016, $40.00

ISO/DIS 3108, Steel wire ropes - Test method - Determination of measured breaking force - 6/16/2016, $40.00

TEXTILES (TC 38)

ISO/DIS 811, Textile - Determination of resistance to water penetration - Hydrostatic pressure test - 8/11/2016, $33.00

ISO/DIS 15496, Textiles - Measurement of water vapour permeability of textiles for the purpose of quality control - 8/11/2016, $58.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 14223-3, Radiofrequency identification of animals - Advanced transponders - Part 3: Applications - 8/11/2016, $98.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 19614, Traditional Chinese medicine - Pulse graph force transducer - 8/11/2016

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 19285, Non-destructive testing of welds - Phased Array technique (PA) - Acceptance criteria - 8/7/2016, $82.00

ISO/DIS 9455-14, Soft soldering fluxes - Test methods - Part 14: Assessment of tackiness of flux residues - 8/13/2016, $33.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 14496-4/DAmd46, Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 4: Conformance testing for Internet Video Coding - 8/7/2016, $53.00

ISO/IEC 14496-5/DAmd41, Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 4: Reference software for internet video coding - 8/7/2016, $29.00

ISO/IEC 14496-5/DAmd42, Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 4: Reference software for the alternative depth information SEI message extension of AVC - 8/7/2016, $29.00

ISO/IEC 23002-4/DAmd3, Information technology - MPEG video technologies - Part 4: Video tool library - Amendment 3: Graphics tool library (GTL) for the reconfigurable multimedia coding (RMC) framework - 11/7/2024, $71.00

ISO/IEC 23002-5/DAmd3, Information technology - MPEG video technologies - Part 5: Reconfigurable media coding conformance and reference software - Amendment 3: Reference Software for Parser Instantiation from BSD - 8/7/2016, $29.00

ISO/IEC DIS 24707, Information technology - Common Logic (CL) - A framework for a family of logic-based languages - 6/17/2016, $146.00

ISO/IEC DIS 27034-7, Information technology - Security techniques - Application security - Part 7: Application security assurance prediction model - 8/7/2016, $98.00

ISO/IEC DIS 27050-3, Information technology - Security techniques - Electronic discovery - Part 3: Code of Practice for electronic discovery - 8/7/2016, $93.00

OTHER

ISO/IEC DIS 17021-3, Conformity assessment - Requirements for bodies providing audit and certification of management systems - Part 3: Competence requirements for auditing and certification of quality management systems - 8/11/2016, $40.00

IEC Standards

8/1427/NP, Future IEC/TS 62898-3-1: Microgrids - Technical Requirements - Protection requirements in microgrids, 06/17/2016

15/775/CDV, IEC 62677-3-101/Ed1: Heat-shrinkable low and medium voltage moulded shapes - Part 3: Material requirements - Sheet 101: Heat-shrinkable, polyolefin moulded shapes for low voltage applications, 08/12/2016

15/776/CDV, IEC 62677-3-102/Ed1: Heat-shrinkable low and medium voltage moulded shapes - Part 3: Material requirements - Sheet 102: Heat-shrinkable, polyolefin, anti-tracking moulded shapes for medium voltage applications, 08/12/2016

20/1650/CD, IEC 61238-1-1: Compression and mechanical connectors for power cables - Part 1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on non-insulated conductors, 08/12/2016

20/1651/CD, IEC 61238-1-2: Compression and mechanical connectors for power cables - Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated conductors, 08/12/2016

20/1652/CD, IEC 61238-1-3: Compression and mechanical connectors for power cables - Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) tested on non-insulated conductors, 08/12/2016

23A/801/CDV, Amendment 1 to IEC 61386-1 Ed.2: Conduit systems for cable management - Part 1: General requirements, 08/12/2016

27/977/NP, PNW 27-977: Installations for electroheating and electromagnetic processing - Test methods for induction through-heating installations, 08/12/2016

31J/261/CD, IEC 60079-19/Ed4: Explosive atmospheres - Part 19: Equipment repair, overhaul and reclamation, 08/12/2016

34/313/CDV, Amendment 1 to IEC 62504 Ed.1: General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions, 08/12/2016

34A/1897/CDV, IEC 63013 Ed.1: LED packages - Long-term luminous flux maintenance projection, 08/12/2016

34A/1901/CDV, Amendment 1 to IEC 60809 Ed.3: Lamps for road vehicles - Dimensional, electrical and luminous requirements, 08/12/2016

38/512/DC, Future IEC TR 61869-104: Additional requirements for voltage instrument transformers for power quality and billing metering applications, 07/01/2016

46A/1304/CD, IEC 61196-1-113Ed.2: Coaxial communication cables - Part 1-113: Electrical test methods - Test for attenuation constant, 08/12/2016

47/2303/FDIS, IEC 60749-44 Ed.1: Semiconductor devices - Mechanical and climatic test methods - Part 44: Neutron beam irradiated single event effect (SEE) test method for semiconductor devices, 07/01/2016

48B/2489/CDV, IEC 60512-15-2/Ed2: Connectors for electronic equipment - Tests and measurements - C - Part 15-2: Connector tests (mechanical). Test 15b: Insert retention in housing (axial), 08/12/2016

56/1685/FDIS, IEC 61078/Ed3: Reliability block diagrams, 07/01/2016

57/1694/CDV, IEC 62325-451-1 Ed.2: Framework for energy market communications - Part 451-1: Acknowledgement business process and contextual model for CIM European market, 08/12/2016

57/1730/DTS, IEC 61970-555 TS Ed.1: Energy management system application program interface (EMS-API) - Part 555: CIM based efficient model exchange format (CIM/E), 08/12/2016

57/1731/DTS, IEC 61970-556 TS Ed.1: Energy management system application program interface (EMS-API) - Part 556: CIM based graphic exchange format (CIM/G), 08/12/2016

62D/1344/CDV, Amendment 1 to IEC 60601-2-4: Medical Electrical Equipment - Part 2-4: Particular requirements for the basic safety and essential performance of cardiac defibrillators, 08/12/2016

65E/505/CD, IEC 61987-92 Ed1: Industrial-Process Measurement and Control - Data Structures and Elements in Process Equipment Catalogues - Part 92: Lists of properties (LOP) of measuring equipment for electronic data exchange - Aspect LOPs, 08/12/2016

80/804/PAS, IEC/PAS 63062 Ed.1: Maritime navigation and radiocommunication equipment and systems - Removable external data source (REDS) - General requirements, methods of testing and required test results, 07/08/2016

81/513/CDV, IEC 62561-4 Ed.2: Lightning protection system components (LPSC) - Part 4: Requirements for conductor fasteners, 08/12/2016

81/514/CDV, IEC 62561-5 Ed.2: Lightning Protection System Components (LPSC) - Part 5: Requirements for earth electrode inspection housings and earth electrode seals, 08/12/2016

82/1127/CD, IEC 62738 TS Ed.1: Design guidelines and recommendations for ground-mounted photovoltaic power plants, 08/12/2016

86B/3994/FDIS, IEC 61753-052-3/Ed2: Fibre optic interconnecting devices and passive components - Performance standard - Part 052 -3: Single-mode fibre non-connectorized fixed attenuator - Category U in uncontrolled environment, 07/01/2016

86B/3995/FDIS, IEC 61753-052-6/Ed1: Fibre optic interconnecting devices and passive components - Performance standard - Part 052 -6: Single-mode fibre non-connectorized fixed attenuator - Category O in outside plant environment, 07/01/2016

86B/3998/CD, IEC 61300-2-46/Ed2: Fibre optic interconnecting devices and passive components - Basic test and procedures - Part 2-46: Tests - Damp heat, cyclic, 08/12/2016

89/1325/CD, IEC 60695-6-2/Ed2: Fire hazard testing - Part 6-2: Smoke obscuration - Summary and relevance of test methods, 08/12/2016

90/363/CDV, IEC 61788-22-1: Superconductivity - Part 22-1: Superconducting electronic devices - Generic specification for sensors and detectors, 08/12/2016

91/1367/CD, IEC 61191-1 Ed.3: Printed board assemblies - Part 1: Generic specification - Requirements for soldered electrical and electronic assemblies using surface mount and related assembly technologies, 07/15/2016

105/579/CD, IEC 60050-485 Ed.1: International Electrotechnical Vocabulary (IEV) - Part 485: Fuel cell technologies, 08/12/2016

114/189/CD, IEC 62600-301 TS Ed.1: Marine energy - Wave, tidal and other water current converters - Part 301: River energy resource assessment, 07/15/2016

117/53/NP, Solar thermal electric plants - Guidelines for design of parabolic trough solar thermal electric plants (proposed IEC 62862-3 -1), 08/12/2016

119/105/CDV, IEC 62899-502-1 Ed.1: Printed Electronics - Part 502-1 Quality assessment - OLED elements - Mechanical stress testing of OLED elements formed on flexible substrates, 08/12/2016

CIS/D/429/CD, Electric and hybrid road vehicles - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers below 30 MHz, 08/12/2016

CIS/F/681/FDIS, Electromagnetic Compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission, 07/01/2016

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

AGRICULTURAL FOOD PRODUCTS (TC 34)

ISO 21033:2016, Animal and vegetable fats and oils - Determination of trace elements by inductively coupled plasma optical emission spectroscopy (ICP-OES), $123.00

ISO 16634-2:2016, Food products - Determination of the total nitrogen content by combustion according to the Dumas principle and calculation of the crude protein content - Part 2: Cereals, pulses and milled cereal products, $149.00

MACHINE TOOLS (TC 39)

ISO 2407/Amd1:2016, Test conditions for internal cylindrical grinding machines with horizontal spindle - Testing of accuracy - Amendment 1, $22.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO 16900-12:2016, Respiratory protective devices - Methods of test and test equipment - Part 12: Determination of volume-averaged work of breathing and peak respiratory pressures, $123.00

ROAD VEHICLES (TC 22)

ISO 12619-2/Amd1:2016, Road vehicles - Compressed gaseous hydrogen (CGH2) and hydrogen/natural gas blend fuel system components - Part 2: Performance and general test methods - Amendment 1, $22.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO 14558:2016, Rubber - Determination of residual unsaturation of hydrogenated nitrile butadiene rubber (HNBR) by infrared spectroscopy, $88.00

STEEL (TC 17)

ISO 6931-1:2016, Stainless steels for springs - Part 1: Wire, $149.00

TEXTILE MACHINERY AND ALLIED MACHINERY AND ACCESSORIES (TC 72)

ISO 11111-2/Amd2:2016, Textile machinery - Safety requirements - Part 2: Spinning preparatory and spinning machines - Amendment 2, $22.00

ISO 11111-3/Amd2:2016, Textile machinery - Safety requirements - Part 3: Nonwoven machinery - Amendment 2, $22.00

ISO 11111-4/Amd2:2016, Textile machinery - Safety requirements - Part 4: Yarn processing, cordage and rope manufacturing machinery - Amendment 2, $22.00

ISO 11111-5/Amd2:2016, Textile machinery - Safety requirements - Part 5: Preparatory machinery to weaving and knitting - Amendment 2, $22.00

ISO 11111-6/Amd2:2016, Textile machinery - Safety requirements - Part 6: Fabric manufacturing machinery - Amendment 2, $22.00

ISO 11111-7/Amd2:2016, Textile machinery - Safety requirements - Part 7: Dyeing and finishing machinery - Amendment 2, $22.00

ISO 11111-1:2016, Textile machinery - Safety requirements - Part 1: Common requirements, $240.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO 13184-2:2016, Intelligent transport systems (ITS) - Guidance protocol via personal ITS station for advisory safety systems - Part 2: Road guidance protocol (RGP) requirements and specification, $265.00

ISO Technical Reports

CARBON DIOXIDE CAPTURE, TRANSPORTATION, AND GEOLOGICAL STORAGE (TC 265)

ISO/TR 27912:2016, Carbon dioxide capture - Carbon dioxide capture systems, technologies and processes, $265.00

DENTISTRY (TC 106)

ISO/TR 18130:2016, Dentistry - Screw loosening test using cyclic torsional loading for implant body/implant abutment connection of endosseous dental implants, $88.00

ISO Technical Specifications

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/TS 17425:2016, Intelligent transport systems - Cooperative systems - Data exchange specification for in-vehicle presentation of external road and traffic related data, $265.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 20933:2016, Information technology - Distributed Application Platforms and Services (DAPS) - Access Systems, $123.00

ISO/IEC 29167-19:2016, Information technology - Automatic identification and data capture techniques - Part 19: Crypto suite RAMON security services for air interface communications, $240.00

ISO/IEC/IEEE 24748-4:2016, Systems and software engineering - Life cycle management - Part 4: Systems engineering planning, $240.00

IEC Standards

CABLES, WIRES, WAVEGUIDES, R.F. CONNECTORS, AND ACCESSORIES FOR COMMUNICATION AND SIGNALLING (TC 46)

IEC 60153-1 Ed. 2.0 b:2016, Hollow metallic waveguides - Part 1: General requirements and measuring methods, $73.00

IEC 60153-2 Ed. 3.0 b:2016, Hollow metallic waveguides - Part 2: Relevant specifications for ordinary rectangular waveguides, $61.00

IEC 60154-1 Ed. 3.0 b:2016, Flanges for waveguides - Part 1: General requirements, $48.00

IEC 60966-2-4 Ed. 4.0 b:2016, Radio frequency and coaxial cable assemblies - Part 2-4: Detail specification for cable assemblies for radio and TV receivers - Frequency range 0 MHz to 3 000 MHz, IEC 61169-2 connectors, $36.00

ELECTRIC ROAD VEHICLES AND ELECTRIC INDUSTRIAL TRUCKS (TC 69)

IEC 61851-23 Ed. 1.0 b cor.1:2016, Corrigendum 1 - Electric vehicle conductive charging systems - Part 23: DC electric vehicle charging station, $0.00

ELECTRICAL ACCESSORIES (TC 23)

IEC 61008-1 Amd.1 Ed. 3.0 b cor.1:2016, Corrigendum 1 - Amendment 1 - Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBS) - Part 1: General rules, $0.00

IEC 61995-2 Ed. 1.1 b:2016, Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL, $116.00

IEC 61995-2 Amd.1 Ed. 1.0 b:2016, Amendment 1 - Devices for the connection of luminaires for household and similar purposes - Part 2: Standard sheets for DCL, $43.00

FIBRE OPTICS (TC 86)

IEC 61300-2-47 Ed. 4.0 b:2016, Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-47: Tests - Thermal shocks, $48.00

INSULATORS (TC 36)

IEC 61466-1 Ed. 2.0 b:2016, Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 1: Standard strength and end fittings, $182.00

LAMPS AND RELATED EQUIPMENT (TC 34)

IEC 60838-1 Ed. 5.0 b:2016, Miscellaneous lampholders - Part 1: General requirements and tests, $254.00

S+ IEC 60838-1 Ed. 5.0 en:2016 (Redline version), Miscellaneous lampholders - Part 1: General requirements and tests, $290.00

MEASURING EQUIPMENT FOR ELECTROMAGNETIC QUANTITIES (TC 85)

IEC 61557-8 Ed. 3.0 b cor.1:2016, Corrigendum 1 - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 8: Insulation monitoring devices for IT systems, $0.00

IEC 61557-9 Ed. 3.0 b cor.1:2016, Corrigendum 1 - Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 9: Equipment for insulation fault location in IT systems, $0.00

PIEZOELECTRIC AND DIELECTRIC DEVICES FOR FREQUENCY CONTROL AND SELECTION (TC 49)

IEC 60758 Ed. 5.0 en:2016, Synthetic quartz crystal - Specifications and guidelines for use, $303.00

SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

IEC 60335-2-72 Ed. 4.0 b:2016, Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive, for commercial use, $339.00

IEC Technical Reports

ELECTRIC CABLES (TC 20)

IEC/TR 61901 Ed. 2.0 en:2016, Tests recommended on cables with a longitudinally applied metal foil for rated voltages above 30 kV (Um = 36 kV) up to and including 500 kV (Um = 550 kV), $182.00

ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

IEC/TR 80001-2-8 Ed. 1.0 en:2016, Application of risk management for IT-networks incorporating medical devices - Part 2-8: Application guidance - Guidance on standards for establishing the security capabilities identified in IEC TR 80001-2-2, $303.00

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 issued 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 report proposed technical regulations that may significantly affect trade to the WTO Secretariat in Geneva, Switzerland. In turn, the Secretariat disseminates the information to all WTO Members. The purpose of this requirement is to provide global trading partners with an opportunity to review and comment on the regulations before they become final.

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology (NIST), distributes these proposed foreign technical regulations to U.S. stakeholders via an online service, Notify U.S. Notify U.S. is an e-mail and Web service that allows interested U.S. parties to register, obtain notifications, and read full texts of regulations from countries and for industry sectors of interest to them. To register for Notify U.S., please go to Internet URL: http://www.nist.gov/notifyus/ and click on "Subscribe".

NCSCI is the WTO TBT Inquiry Point for the U.S. and receives all notifications and full texts of regulations to disseminate to U.S. Industry. For further information, please contact: NCSCI, NIST, 100 Bureau Drive, Gaithersburg, MD 20899-2160; Telephone: (301) 975-4040; Fax: (301) 926-1559; E-mail: ncsci@nist.gov or notifyus@nist.gov.

Information Concerning

American National Standards

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 its oversight of programs of its 40+ Technical Committees. Additionally, the INCITS Executive Board exercises international leadership in its role as the US Technical Advisory Group (TAG) to ISO/IEC JTC 1, Information Technology.

The INCITS Executive Board has eleven membership categories that can be viewed at http://www.incits.org/participation/membership-info. Membership in all categories is always welcome. INCITS also seeks to broaden its membership base and looks to recruit new participants in the following under-represented membership categories:

- **Producer – Hardware**

  This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

  This category primarily produces software products for the ITC marketplace.

- **Distributor**

  This category is for distributors, resellers or retailers of conformant products in the ITC industry.

- **User**

  This category includes entities that primarily reply on standards in the use of a products/service, as opposed to producing or distributing conformant products/services.

- **Consultants**

  This category is for organizations whose principal activity is in providing consulting services to other organizations.

- **Standards Development Organizations and Consortia**

  o "Minor" an SDO or Consortia that (a) holds no TAG assignments; or (b) holds no SC TAG assignments, but does hold one or more Work Group (WG) or other subsidiary TAG assignments.

- **Academic Institution**

  This category is for organizations that include educational institutions, higher education schools or research programs.

- **Other**

  This category includes all organizations who do not meet the criteria defined in one of the other interest categories.

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, please contact Jennifer Garner at 202-626-5737 or jgarner@itic.org. Visit www.INCITS.org for more information regarding INCITS activities.

Calls for Members

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

ANSI Accredited Standards Developers

Approval of Reaccreditation

National Air Duct Cleaners Association (NADCA)

The reaccreditation of the National Air Duct Cleaners Association (NADCA), an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on NADCA-sponsored American National Standards, effective May 23, 2016. For additional information, please contact: Ms. Jodi Araujo, CEM, Chief Staff Executive, National Air Duct Cleaners Association, 1120 Rt. 73, Suite 200, Mt. Laurel, NJ 08054; phone: 856.380.6886; e-mail: jodi@nadca.com.

PMMI – The Association for Packaging and Processing Technologies

The reaccreditation of PMMI – The Association for Packaging and Processing Technologies, an ANSI Member and Accredited Standards Developer, has been approved at the direction of ANSI's Executive Standards Council under its recently revised operating procedures for documenting consensus on PMMI-sponsored American National Standards, effective May 24, 2016. For additional information, please contact: Mr. Fred Hayes, Director, Technical Services, PMMI – The Association for Packaging and Processing Technologies, 11911 Freedom Drive, Suite 600, Reston, VA 20190; phone: 269.781.6567; e-mail: FHayes@pmmi.org.

International Organization for Standardization (ISO)

ISO Proposal for a New Fields of ISO Technical Activity

Blockchain and Electronic Distributed Ledger Technologies

Comment Deadline: Friday, June 3, 2016

SA, the ISO member body for Standards Australia, has submitted to ISO a proposal for a new field of ISO technical activity on Blockchain and Electronic Distributed Ledger Technologies, with the following scope statement:

> Standardisation of blockchains and distributed ledger technologies to support interoperability and data interchange among users, applications and systems.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 3, 2016.

Pharmaceutical Preparation Machinery

Comment Deadline: Friday, June 24, 2016

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

> Standardization of pharmaceutical preparation machinery, including terminology, classification, requirements and test methods.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 24, 2016.

U.S. Technical Advisory Groups

Application for Accreditation

U.S. TAG to ISO TC 255 – Biogas

Comment Deadline: June 27, 2016

The American Society of Agricultural and Biological Engineers (ASABE), an ANSI member and Accredited Standards Developer, has submitted an Application for Accreditation for a new U.S. Technical Advisory Group (TAG) to ISO TC 255, Biogas and a request for approval as TAG Administrator. The proposed TAG will operate using the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities as contained in Annex A of the ANSI International Procedures.

For additional information, or to offer comments, please contact: Mr. Scott Cedarquist, Director, Standards & Technical, American Society of Agricultural and Biological Engineers, 2950 Niles Road, St. Joseph, MI 49085-9659; phone: 269.932.7031; Email: cedarq@asabe.org. Please forward any comments on this application to ASABE, with a copy to the Recording Secretary, ExSC in ANSI's New York Office (fax: 212.840-2298; Email: jthompso@ansi.org) by June 27, 2016.

Meeting Notices

AHRI Meetings

Revision of AHRI Standard 410-2001, Forced Circulation Air-Cooling and Air-Heating Coils

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on June 15 from 12 p.m. to 1 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mary Opalka at mopalka@ahrinet.org.

Development of AHRI Draft Standard 1410P, Performance Rating for Commercial Finned Tube Radiation

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on June 15 from 11 a.m. to 12 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Tae Kwon at tkwon@ahrinet.org.

Information Concerning

International Organization for Standardization (ISO)

ISO New Work Item Proposal

Chain of Custody – Transparency and Traceability – Generic Requirements for Supply Chain Actors

Comment Deadline: June 24, 2016

NEN, the ISO member body for the Netherlands, has submitted to ISO a new work item proposal for the development of an ISO standard on Chain of Custody – Transparency and traceability – Generic requirements for supply chain actors, with the following scope statement:

> *The overall scope of work is standardization in the field of chain of custody (CoC) terminology and requirements for all products with specified characteristics. The objective is to increase transparency and facilitate market access, especially for smaller companies and developing countries.*
>
> *This standard differs from existing ISO initiatives by defining the requirements and traceability levels independently of sectors, raw materials, products, and issues addressed. It lays down a set of generic requirements to ensure that products with specified characteristics sold or shipped by a supply chain actor (SCA), can be physically and/or administratively connected to a corresponding amount of input material with the same specified characteristics. It does not intend to set requirements on the input or output material or limitations to specific product characteristics such as sustainability, safety or source. It does however provide guidance for describing characteristics.*
>
> *This International Standard is intended to increase transparency in value chains by specifying traceability requirements for the individual supply chain actors. This international standard can be used in all sectors and for all products with specific characteristics, which are transferred between two or more SCA's. Services are not included.*
>
> *This standard defines commonly used supply chain models, their traceability levels and their specific requirements regarding administration, physical handling activities, conversion rates, transactions and stock activities relating to the product et cetera. These fundamental concepts and principles of chain of custody management cover the whole supply chain and are universally applicable to the following stakeholders:*
>
> - *organizations seeking sustained success through the implementation of a chain of custody management system;*
> - *customers seeking confidence in an organization's ability to consistently provide products and services conforming to their requirements;*
> - *organizations seeking confidence in their supply chain that product and service requirements will be met;*
> - *organizations and interested parties seeking to improve communication through a common understanding of the vocabulary used by supply chain actors;*
> - *developers of related standards.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, June 24, 2016.

Information Concerning

International Organization for Standardization (ISO)
ISO Proposal for a New Field of ISO Technical Activity
Organizational Governance
Comment Deadline: Friday, July 1, 2016

BSI, the ISO member body for the United Kingdom, has submitted to ISO a proposal for a new field of ISO technical activity on Organizational Governance, with the following scope statement:

> *Standardization of organizational governance, including aspects of accountability, direction and control – which may include principles of governance, anti-bribery, conflict of interest, due diligence, whistleblowing, compliance, remuneration structures and external reporting, amongst others.*
>
> *This proposal is for a new technical committee in the field of organizational governance. For the purposes of this proposal, governance may be defined as a "system by which the whole organization is directed, controlled and held accountable to achieve its core purpose over the long term". The term "corporate governance" is typically used for the governance of private and publicly-listed companies.*
>
> *The TC would develop and maintain standards applicable for all organizations to improve the effective delivery of governance. This proposal recognizes that, although interrelated, there is an important distinction between management and governance. The above definition of governance places it into a context of accountability whereas management can be deemed to be "the act of bringing people together to accomplish desired goals and objectives, using available resources in an efficient, effective and risk-aware manner." While governance is linked to management, it is distinct from it because it deals with the accountability of a whole organization to all of its stakeholders and helps ensure that the organization, as a whole, fulfills its full purpose. Thus, governance is a unique area that merits a distinct portfolio of work, separate but complementary to management standards.*

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, July 1, 2016.

Information Concerning

U.S. Technical Advisory Groups

U.S. TAG to ISO/IEC JTC 1, Information Technology

U.S. Submissions to JTC 1 for Fast-Track Processing

Comment Deadline: June 26, 2016

INCITS, the U.S. TAG to JTC 1, announces the proposed U.S. submission to JTC 1 for Fast-Track processing of INCITS 469-2015, Open Virtualization Format and the accompanying explanatory report.

At this time, INCITS, the U.S. TAG to JTC 1, is soliciting comments from the U.S. community on the appropriateness of the submission of this specification for Fast-Track processing into JTC 1. The scope of this project is:

The *Open Virtualization Format (OVF) Specification* describes an open, secure, efficient and extensible format for the packaging and distribution of software to be run in virtual systems. The OVF package enables the authoring of portable virtual systems and the transport of virtual systems between virtualization platforms. This version of the specification (2.1) is intended to allow OVF 1.x tools to work with OVF 2.x descriptors in the following sense:

- Existing OVF 1.x tools should be able to parse OVF 2.x descriptors.
- Existing OVF 1.x tools should be able to give warnings/errors if dependencies to 2.x features are required for correct operation.

If a conflict arises between the schema, text, or tables, the order of precedence to resolve the conflicts is schema; then text; then tables. Figures are for illustrative purposes only and are not a normative part of the standard. A table may constrain the text but it shall not conflict with it. The profile conforms to the cited CIM Schema classes where used. Any requirements contained in the cited CIM Schema classes shall be met. If a conflict arises the CIM Schema takes precedence. The profile conforms to the cited OVF XML Schema. It may constrain the schema but it shall not conflict with it. If a conflict arises the OVF XML Schema takes precedence.

Comments regarding this proposed submission should be submitted to the INCITS Secretariat (comments@itic.org) no later than June 26, 2016.

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NSF/ANSI 50 – 2015

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

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2 Definitions

Secondary Disinfection: Units that demonstrate a 3-log (99%) or greater reduction or inactivation of *Cryptosporidium parvum* in a single pass when tested in accordance to 14.18.2.

Supplemental Disinfection: Units that demonstrate a 3-log (99%) or greater reduction of *Pseudomonas aeruginosa* and *Enterococcus faecium* when tested according to Annex H.1.

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13.1 General

Ozone generation process equipment covered by this section is intended for the secondary and supplemental disinfection of the water in the circulation system of public and residential recreational water facilities, including but are not limited to: pools, and spas/hot tubs, therapy pools, and interactive aquatic play features. Since these products are not intended to produce residual levels of disinfectant within the body of water, an EPA registered disinfecting chemical shall be added to impart a measurable residual. The measurable residual disinfecting chemical shall be easily and accurately measured by a water quality device certified to section 19.

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13.19 Disinfection efficacy

Process equipment designed for ~~secondary~~ supplemental disinfection such as copper and/or silver ion generators, ozone and ultraviolet light equipment shall demonstrate a 3-log (99%) or greater inactivation of influent bacteria when tested according to Annex H.1.

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~~Ozone systems claiming~~ Process equipment designed for secondary disinfection such as copper and/or silver ion generators, ozone and ultraviolet light equipment shall demonstrate a 3-log (99%) or greater reduction of *Cryptospordium parvum* ~~shall be~~ when tested and evaluated according to 13.20.

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13.23 Data plate

Data plate(s) shall be permanent; easy to read; and securely attached, cast, or stamped onto the unit at a location readily accessible after normal installation. Data plate(s) shall contain the following:

- manufacturer's name and contact information (address, phone number, website, or prime supplier);
- model number;
- serial number or date of manufacture;
- certification mark of the ANSI-Accredited testing and certification organization;
- electrical requirements (volts, amps, hetz) for operation;
- type of feed-gas;
- rated feed-gas flow rate (SCFH and/or LPM);
- rated ozone production (grams/hour and/or lb/day);
- method of cooling and coolant flow rates;
- level of disinfection certification (Level 1 or Level 2);
- maximum daily operation time (if not designed for continuous operation); and
- caution statements (prominently displayed) including a statement that the unit ~~is designed for supplemental disinfection and~~ should be used with registered or approved disinfection chemicals to impart required residual concentrations; and

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- a statement identifying if the unit is suitable for supplemental disinfection or validated for secondary disinfection.

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14.1 General

UV light process equipment covered by this section is intended for ~~use in~~ the secondary and supplemental treatment ~~of circulation systems~~ of public and residential swimming pools and spas/hot tubs. Since these products are not intended to produce residual levels of disinfectant within the body of the swimming pool or spa, these products are intended for use with appropriate residual levels of EPA registered disinfecting chemicals. Specific residual levels of EPA registered disinfecting chemicals may be required by the regulatory agency having authority. The residual chemical shall be easily and accurately measureable by a field test kit.

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14.7 Data Plate

Data plate shall be permanent; easy to read; and securely attached, cast, or stamped onto the unit at a location readily accessible after normal installation. Data plate(s) shall contain the following:

- equipment name and function(s);
- manufacturer's name and contact information (address, phone number, website, or prime supplier);
- model number designation;
- electrical requirements for operational volts, amps, and Hertz of the unit;
- serial number or year of construction;
- maximum rated operating pressure in kPa (psi);
- prominently displayed caution statement: "UV light is harmful to eyes and exposed skin; turn off electrical supply before opening unit.";

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- caution statement that the unit ~~is designed for supplemental disinfection and~~ should be used with registered or approved disinfection chemicals to impart required residual concentrations;

- model and number of UV lamp(s);

- maximum daily operation time (if not designed for continuous operation); and

- maximum design flow rate in gallons/minute (liters/minute); and

- a statement identifying if the unit is suitable for supplemental disinfection or validated for secondary disinfection.

14.8 Disinfection Efficacy

Process equipment designed for supplemental disinfection such as copper and/or silver ion generators, ozone and ultraviolet light equipment shall demonstrate a 3-log (99%) or greater inactivation of influent bacteria when tested according to Annex H.1.

~~UV systems claiming chlorine resistant organism treatment such as *Cryptosporidium parvum* inactivation shall be evaluated according to 14.18.~~

Process equipment designed for secondary disinfection such as ozone and ultraviolet light equipment shall demonstrate a 3-log (99%) or greater inactivation of *Cryptospordium parvum* when tested and evaluated according to 14.18.

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Annex H

H.1 Disinfection efficacy of ~~secondary~~ supplemental disinfection equipment

H.1.1 Purpose

The purpose of this test is to determine the disinfection efficacy of process equipment designed for ~~secondary~~ supplemental disinfection for swimming pools and spa/hot tubs.

BSR/UL 489, *Standard for Safety for Molded-Case Circuit Breakers, Molded-Case Switches and Circuit-Breaker Enclosures*

5. Revision of Requirements for the Temperature Measurement in Clause 7.1.4.1.11

7.1.4.1.11 Temperature measurements on parts other than coils shall be obtained by means of thermocouples and a potentiometer-type (or other suitable) indicating instrument. The test shall be continued until all temperatures measured on the device stabilize. A temperature shall be considered to be stable when three successive readings, taken at intervals of not less than 15 minutes, show ~~an increase~~ a change of no more than 1.0°C (1.8°F) between any of the three readings. The change between readings 1 and 2 shall be less than or equal to 1.0°C. The change between readings 2 and 3 shall be less than or equal to 1.0°C. Additionally, the total change between readings 1 and 3 shall also be less than or equal to 1.0°C.

7. Revisions to Address DC Rated Circuit Breakers

6.1.4.2.18A Jumpers requiring building wire to be bent with a radius less than the cold bend mandrel requirements of Annex B, Ref. No. 27, shall be provided with the circuit breaker or be made available as a kit.

~~7.1.1.7D Notwithstanding 7.1.1.19, for a dc circuit breaker constructed such that the contact(s) and arc suppression mechanism is symmetrical in design such that the direction of the current and resultant opposing magnetic field is not a factor in the behavior of the arc, testing in both the forward and reverse direction is not required.~~

7.1.1.7D ~~7.1.1.7E~~ Multipole dc circuit breakers marked for more than one wiring configuration shall be subjected to a sufficient number of tests to represent all configurations. Examples:

a) For interrupting tests, a configuration with the least number of poles energized shall represent configurations with more poles energized.

b) For temperature tests, a configuration with the most number of poles energized shall represent configurations with a fewer number of poles energized.

c) Calibration tests shall be conducted on the configurations with both the most and least number of poles energized.

7.1.1.7E ~~7.1.1.7F~~ For the endurance, overload, and interrupting tests, a dc circuit breaker intended for use on a system having one conductor grounded shall be tested with the enclosure or mounting surface connected to the negative conductor through a fuse as described in 7.1.1.21.

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Annex B (Normative)
Referenced Standards

B1 Referenced Standards

When reference is made to other organization's Standards, such reference shall be considered to refer to the latest edition and all amendments published to that edition up to the time when this standard was approved.

(Table abbreviated for ease of review)

REFERENCED STANDARDS			
Ref. No.	**United States**	**Canada**	**Mexico**
27	UL 83 Thermoplastic-Insulated Wires and Cables	C22.2 No. 75, Thermoplastic-Insulated Wires and Cables	NMX-J-010-ANCE, Thermoplastic-Insulated Wires and Cables

10. Motor Protection Circuit Breakers

1.7 This standard contains supplements covering the requirements for molded-case circuit breakers for:

a) Marine Use;

b) Naval Use;

c) Uninterruptible Power Supply Use;

d) Classified Circuit Breakers;

e) Software in Programmable Components;

f) Additional Tests for Circuit Breakers with Electronic Overcurrent Protection;

g) Electromagnetic Compatibility (EMC) - Requirements and Test Methods for Circuit Breakers; and

h) Molded-Case Circuit Breakers ~~Used as~~ with Additional Motor Overload Protection.

7.1.1.23 Standard circuit breakers shall be subjected to the requirements in the following Supplements as indicated:

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g) Supplement SH - Molded-Case Circuit Breakers ~~Used as~~ with Additional Motor Overload Protection: Motor Overload Protection Circuit breakers shall comply with Section 7 except as revised by Supplement SH.

SUPPLEMENT SH - MOLDED-CASE CIRCUIT BREAKERS ~~USED AS~~ WITH ADDITIONAL MOTOR OVERLOAD PROTECTION

15. Addition of Requirements for Thermal Memory

7.1.2.6 Thermal memory retention test

7.1.2.6.1 A circuit breaker that has an electronic trip unit shall additionally be subjected to the following:

a) Conduct the 200 percent calibration test, see 7.1.2.2. There shall be no auxiliary power on the trip unit.

b) Re-close the circuit breaker within ~~30 seconds~~ a time twice the time-delay setting and repeat the 200 percent calibration test. The tripping time shall be at least 30 percent less than the value previously recorded in a).

20. Revision to Supplement SC to Expand the Voltage and to Better Address Power Supplies

SC9B.3 The number of operations for a DC switch constructed using multiple poles connected in series shall be three.

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BSR/UL 498, Standard for Attachment Plugs and Receptacles

1. **Revision to paragraph 15.3.6 to reference UL 1681.**

PROPOSAL

15.3 Mating and interchangeability

15.3.6 An outlet device having a nongrounding configuration shall not accept a grounding-type attachment plug.

Exception: The locking grounding device illustrated in Standard for Wiring Device Configurations, UL 1681 Figure C1.1 and marked "Hospital Only" shall be permitted to be interchangeable with other nongrounding general-use devices which are not so marked.

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BSR/UL 688, Standard for Safety for Hose Valves for Fire-Protection Service

1. To allow for grooved inlets and alternative thread types where the valve is used in areas specifying different threading, Revised 11, 11.1 (a-e), New 11.1.1, Revised 11.2, 12.1, 12.2.

11 Inlets ~~Threads~~ and Attachment Means

11.1 A hose valve intended for use on a fire pump and a standpipe shall be fitted at the inlet end ~~female pipe threads [ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch)].~~with one of the following:

a) Female pipe threads complying with ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch);

b) Grooved ends complying with the ANSI/AWWA C606, Standard for Grooved and Shouldered Joints;

c) Female pipe threads complying with a national standard that applies where the valve is intended to be installed;

d) Female screw threads complying with NFPA 1963, Standard for Fire Hose Connections; or

e) Female screw threads to fit existing equipment complying with the specification where the valve is intended to be installed.

(NEW)

11.1.1 When the inlet end is fitted with female screw threads, the threads are permitted to be integral with the valve body or located within a coupling that is able to swivel with respect to the body.

11.2 A hydrant hose valve shall be constructed to attach to hydrant barrels by use of two 3/4 inch (19.1 mm) tap bolts, spaced horizontally 5-5/8 inches (143 mm) on centers or by use of a flange complying with a national standard that applies where the valve is to be installed.

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12.1 A hose valve outlet shall be threaded in accordance with NFPA 1963, Standard for Fire Hose Connections, unless otherwise specifically ordered to fit existing equipment or to comply with a specification where the valve is intended to be installed. The outlet end shall be provided with at least four full threads.

12.2 The outer end of external (male) and internal (female) threads other than taper pipe threads [ANSI/ASME B1.20.1, Pipe Threads, General Purpose (Inch)] shall be terminated by the "Higbee Cut" to facilitate coupling and to avoid crossing and mutilation of thread.

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BSR/UL 746C, Standard for Polymeric Materials – Use in Electrical Equipment Evaluations

1. Revision of Requirements for Un-Exposed Flame Sample Testing During F1/F2 Test in Paragraph 57.2.2

PROPOSAL

57.2 Method:

57.2.1 (No Change - Shown for Reference Only) The specimens as indicated in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A, and the Standard for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, UL 94, are to be mounted vertically on the inside of the cylinder in the xenon-arc light apparatus, with the width of the specimens facing the xenon light source, and so that they do not touch each other.

Exception No. 1: For flexural strength specimens the ultraviolet-exposed side is to be in contact with the two points when using the three-point loading method.

Exception No. 2: Izod impact specimens are to be notched prior to UV conditioning with the direction of UV exposure towards the notch.

57.2.2 Two sets of specimens are to be exposed. One set is to be exposed for a total of 500 hours and the second set for a total of 1000 hours. After the test exposure, the specimens are to be removed from the test apparatus, examined for signs of deterioration such as crazing or cracking, and retained under conditions of ambient room temperature and atmospheric pressure for not less than 16 hours, nor more than 30 days, before being subjected to flammability and physical tests. As a part of the test program, specimens that have not been exposed to ultraviolet light and water has to be preconditioned in accordance with ASTM D 618, Standard Practice for Conditioning Plastics for Testing or ISO 291, Plastics - Standard atmospheres for conditioning and testing, at 23 ±2°C and 50±10 percent relative humidity for a minimum of 48 hours and are to be subjected to flammability and physical tests and the results obtained are compared against the specimens that have undergone exposure.

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BSR/UL 879A, Standard for Safety for LED Sign and Sign Retrofit Kits

1. Deletion of Supplement SA

15.1.2 ~~T~~ LED lamps, including tubular LED lamps that are intended to replace fluorescent lamps and use existing lampholders only for mechanical support and are powered by separate supply connections shall comply with the requirements for tubular lamps in the Standard for Self-Ballasted Lamps and Lamp Adapters, UL 1993.~~:~~

~~a) The requirements for tubular lamps in the Standard for Self-Ballasted Lamps and Lamp Adapters, UL 1993; and~~

~~b) The requirements in Supplement SA of this standard, including all of the tests in Supplement SA, except for the tests in Risk of Electric Shock - Relamping, Section SA25, Isolation of Lamp Pins, Section SA26, and Mis-Application of Lamp Supply Connections, Section SA27.~~

~~**SUPPLEMENT SA - SUPPLEMENTAL REQUIREMENTS FOR TUBULAR LIGHT-EMITTING DIODE LAMPS**~~

(Note - Supplement SA is being proposed to be deleted but is not shown in its entirety.)

2. Markings for Kit Installation Instructions

INSTALLATION INSTRUCTIONS

25 LED Kits for Factory Installation in New Signs

25.2 The instructions are to include the following information:

a) Kit parts list;

b)~~a)~~ Determine required number of LEDs for illumination;

c)~~b)~~ Determine number of power supplies;

d)~~c)~~ Loading of power unit;

e)~~d)~~ Mounting LEDs;

f)~~e)~~ Wiring from power unit to LEDs;

g)~~f)~~ Supply wiring to power unit;

h)~~g)~~ Mounting of disconnect switch; and

i)~~h)~~ Wiring from power unit to LEDs.

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26 LED Kits for Field Installation in Existing Signs

26.1 Each ~~power supply~~ retrofit kit packaging shall include a set of ~~retrofit~~ installation instructions. Multiple LED kits identified on a bulk packing list for a single sign or job location shall include at least one set of the installation instructions.

26.2 The instructions are to include the following information:

a) Kit parts list;

b) Identification and ~~P~~preparation of ~~old~~ host sign;

c)~~a)~~ Identify what parts to remove;

d)~~c)~~ Determine if disconnect switch needs to be installed (for example a switch may be integral ~~with~~ to a neon power supply);

e)~~d)~~ Repair and seal any unused openings in the ~~rain~~ electrical enclosure of a wet or outdoor sign; ~~. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk;~~

f)~~e)~~ Determine required number of LED's for illumination;

g)~~f)~~ Determine number of power supplies;

h)~~g)~~ Loading of power unit;

i)~~h)~~ Mounting LEDs;

j)~~i)~~ Wiring from power unit to LEDs (including any bonding instructions);

k)~~j)~~ Supply wiring to power unit (including any grounding instructions); and

l)~~k)~~ Mounting of disconnect switch.

26.3 The markings and information specified in Table 26.1 shall be included in the installation instructions in accordance with 26.4 - 26.11.

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Table 26.1

Markings for installation instructions

Item	Text	Reference
A.	WARNING - Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of sign electrical systems. If not qualified, do not	26.4

	attempt installation. Contact a qualified electrician.	
B.	WARNING - Risk of fire or electric shock. Install this kit only in host signs that have been identified in the installation instructions and where the input rating of the retrofit kit does not exceed the input rating of the sign.	26.4
C.	WARNING - Risk of fire or electric shock. Installation of this LED retrofit kit may involve drilling or punching of holes into the structure of the sign. Check for enclosed wiring and components to avoid damage to wiring and electrical parts.	26.4
D.	Installer should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.	26.5
E.	Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.	26.6
F.	WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.	26.7
G.	"Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation."	26.8
H.	"Repair and seal any unused openings in the electrical enclosure. Openings greater than 12.7-mm (1/2-in) diameter require a metal patch secured by screws or rivets and caulked with non-hardening caulk. Smaller openings may be sealed with non-hardening caulk."	26.9
I	WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit with existing shunted bi-pin lampholders in the host sign. Note: Shunted lampholders are found only in fluorescent signs with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED retrofit kit manufacturer.	26.10
J	"This sign has been modified to operate LED lamps. Do not attempt to install or operate * lamps in this sign" shall be marked on the retrofitted sign where readily visible by the user during normal maintenance including relamping. " * " shall be replaced by the original illumination type such as "fluorescent," "HID," etc. This marking shall be provided on a separate permanent label that is intended to remain in the applied position for the lifetime of the sign under conditions of normal use.	26.11

Note:

[1)] Except for marking item "J", all text shall be clearly incorporated in the installation instructions and shall be legible.

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2) The marking for item "J" shall have a minimum letter height of 2.4 mm (3/32 in) and shall be in Univers Bold, Arial Bold, Helvetica Bold, or Zurich BT Bold or equivalent font.
3) Markings that are within quotation marks shall be provided verbatim.

26.4 With reference to 26.3, each installation instructions shall include the marking specified in Table 26.1, items A - C.

26.5 With reference to 26.3, the installation instructions for LED kits that reuse existing components, such as lampholders, shall include a statement advising the kit installer to examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit. The warning statement in Table 26.1, item D or equivalent, is considered to meet this requirement.

26.6 With reference to 26.3, the installation instructions of LED Retrofit kits that utilize existing fluorescent lampholders shall include the marking in Table 26.1, item E.

26.7 With reference to 26.3, when the installation of a retrofit kit requires the making or altering of one or more open holes in an electrical enclosure, the installation instructions shall identify the dimensions of all such open holes in a photograph or drawing. The installation instructions shall include the marking specified in Table 26.1, item F.

26.8 With reference to 26.3, when the installation of a retrofit kit does not require the making of any open holes in an electrical enclosure, the installation instructions shall include the marking specified in Table 26.1, item G.

26.9 With reference to 26.3, a retrofit kit that requires drilling or punching of holes into the electrical enclosure of a wet or outdoor sign shall include the marking specified in Table 26.1, item H.

26.10 With reference to 26.3, all tubular fluorescent to LED sign conversion retrofit kits that require both line and neutral power to be connected to the same lampholder shall be provided with the warning marking in Table 26.1, item I, as part of the installation instructions, or on a separate stuffer sheet provided with each kit, or marked on the kit itself.

26.11 With reference to 26.3, for LED retrofit kits that reuse existing lampholders or otherwise permit the insertion of previously used lamps shall have markings noted in Table 26.1, item J, applied to the retrofitted sign where visible during relamping.

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BSR/UL 1581, Reference Standard for Electrical Wires, Cables, and Flexible Cords

1. Revision to replace test requirements with a reference to the governing UL 746A standard

PROPOSAL

~~Nylon and TPE~~ Other compounds

494 Infrared Spectroscopy

494.1 ~~GENERAL - Infrared Analysis is to be used as the method for the identification of nylon or TPE wire and cable compounds. Interpretation of infrared spectral transmittance is to be used to identify the composition of a compound by comparing the compound's infrared spectra to the spectra of materials having known compositions.~~ The Infrared Spectroscopy scan of each material shall be performed in accordance with the test, "Infrared Spectroscopy", specified in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A.

~~494.2 The analysis is to be performed with a Fourier Transform Infrared (FTIR) Spectrometer and/or a Dispersive Infrared Spectrophotometer. The results are to be recorded as a plot of the percent transmittance of the infrared radiation through the sample versus the number of wavelengths in one centimeter [the reciprocal wavelength (cm^{-1}) or "wavenumber"] of the radiation. Percent transmittance is to be expressed on the ordinate and wavenumber on the abscissa. The infrared spectra obtained by the methods described is to consist of a wavenumber range of at least 4000 - 400 reciprocal centimeters.~~

~~494.3 SAMPLE PREPARATION - The general polymer specimen preparation techniques for infrared analysis include solvent casts, potassium bromide (KBr) pellets, solvent-slurry KBr pellets, glass-plate cast films, and reflectance accessories. Solvents typically include chloroform, o-dichlorobenzene, formic acid, and m-cresol. Precautions are to be taken for the safe handling, storage, and disposal of each solvent employed.~~

~~494.4 Thermoplastic/solvent solutions are to be placed or "cast" on an optically transparent salt crystal [on potassium bromide (KBr), for example] from which the solvent is to be evaporated by gentle heating, thereby leaving a uniform thin film of polymer. The salt plate is then to be mounted directly in the instrument and the infrared spectrum of the material recorded. For nylon materials that are soluble in formic acid, the polymer solution is to be cast on a glass plate. After evaporation of the solvent, the thin polymer film is to be removed from the glass, placed in a film holder, and mounted in the instrument for recording the infrared spectrum.~~

~~494.5 The solvents used are to be those that dissolve the nylon or TPE material without reacting with it and are readily evaporated by gentle heating. Examples of solvents for certain polymer types are:~~

~~a) Chloroform - For many thermoplastic polymers (for example, styrenic TPE compounds).~~

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~~b) o-Dichlorobenzene - For many TPE compounds.~~

~~c) Formic Acid - For many nylons (polyamides).~~

~~d) m-Cresol - For certain nylons (polyamides).~~

~~494.6 High-molecular-weight, high-crystalline, heavily filled, or cross-linked nylon or TPE materials that are insoluble in all volatile solvents are to be prepared by the pressed halide disk or pellet technique. A few milligrams of the material are to be removed from the surface of a sample by a razor blade or fine file. These scrapings or filings are to be ground in a vibrating ball mill for 3 - 5 min. To minimize scattering effects, the particles are to be reduced to a size (typically 2 (m) that is smaller than the shortest wavelength to be scanned. The ground specimen is to be intimately mixed with powdered spectroscopic-grade potassium bromide (KBr), and a quantity of this mixture that produces a disk typically 1 mm thick and 1/2 inch or 12.7 mm in diameter is to be placed in an evacuable die. The die is to be put under a vacuum and mechanical pressure of 10,000 - 15,000 lbf/in^2 or 69 - 103 MPa or 7 - 11 kgf/mm^2 is to be applied. The pressed disk is to be removed from the die, put into a disk holder, and then placed directly into the sample holder of the instrument for recording the infrared spectrum of the material.~~

~~494.7 REPORT - The individual spectra are to be marked with each of the following:~~

~~a) Complete identification of the nylon or TPE material tested - including the designation for the material and the form and color of the sample.~~

~~b) The name and/or tradename of the material manufacturer and the assigned code (file number).~~

~~c) The sample preparation procedure or the preparation code.~~

~~d) The instrument parameters (number of scans, resolution, slit program, and the like).~~

~~e) The test date(s) and operator identification.~~

495 Pyrolytic Gas Chromatography

495.1 GENERAL - The Pyrolytic Gas Chromatography is of each material shall be performed in accordance with the test, "Pyrolytic Gas Chromatography", specified in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A. ~~to be used to identify nylon or TPE wire and cable compounds. A gas chromatograph equipped with a pyrolysis accessory is to be used for volatilizing the solid specimens for analysis. The pyrolysis products are to be swept through the column of the gas chromatograph by means of a carrier gas. The results are to be recorded as a plot of time (measured from the start of the analysis) versus the detector response to the individual fractions produced by the pyrolysis. This plot is to be used as the "pyrogram" of the material.~~

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495.2 This identification technique is to be used where infrared analysis is not effective, as when the nature of certain resins or additives makes it difficult to prepare specimens for the infrared method. Typically, this applies to materials with a high carbon black or metallic content.

~~495.3 INSTRUMENTATION - The gas chromatograph, pyrolysis devices, and columns are not specified as long as the parameters and the system hardware are identical for all test data that are being compared. Typically, thermal conductivity or flame ionization detection is to be used for pyrolysis gas chromatography, with helium or nitrogen as the carrier gas.~~

~~495.4 REPORT - The individual pyrogram is to include each of the following:~~

~~a) Complete identification of the nylon or TPE material tested - including the designation for the material and the form and color of the sample.~~

~~b) The name and/or tradename of the material manufacturer and the assigned code (file number).~~

~~c) The operating conditions or instrument method reference for the analysis.~~

~~d) The test date(s) and operator identification.~~

496 Thermogravimetry

496.1 ~~The test method for determination of the rapid thermal decomposition of a solid nylon or TPE wire and cable material by Thermogravimetry is to be as described in the Standard Test Method for Rapid Thermal Degradation of Solid Electrical Insulating Materials by Thermogravimetric Method (TGA), ASTM D 3850-94(2006) , except that the specimen is to be heated at the rate of 20°C (36°F) per minute in a nitrogen atmosphere. Additional testing using different test parameters is to be conducted where agreeable to those concerned.~~ The decomposition scan of each material shall be performed in accordance with the test, "Thermogravimetry" specified in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A.

~~496.2 ASTM D 3850 describes a method in which small pieces cut from a test specimen are heated at a controlled rate until degradation is complete. The resulting thermogram, which plots percent specimen mass versus increasing temperature, is to be used to identify the tested material.~~

~~496.3 The individual curve is to include each of the following:~~

~~a) Complete identification of the nylon or TPE material tested - including the designation for the material, the generic type of material, and the color of the sample.~~

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~~b) The name and/or tradename of the material manufacturer and the assigned code (file number).~~

~~c) The operating conditions used for the Thermogravimetry.~~

~~d) The test date(s) and operator identification.~~

497 Differential Scanning Calorimetry

497.1 ~~The test method for determining the transition temperatures of solid nylon or TPE wire and cable compounds by Differential Scanning Calorimetry (DSC) is to be as described in the Standard Test Method for Transition Temperatures of Polymers by Thermal Analysis, ASTM D 3418-03, except that the specimen is to be heated at the rate of 20°C (36°F) per minute in a nitrogen atmosphere without a preliminary thermal cycle. Additional testing using different test parameters is to be conducted where agreeable to those concerned.~~ The transition temperatures of each material shall be performed in accordance with the test, "Differential Scanning Calorimetry", specified in the Standard for Polymeric Materials - Short Term Property Evaluations, UL 746A.

~~497.2 ASTM D 3418 describes a method in which thin sections of the material are heated at a controlled rate through the thermal transitions of interest. The resulting thermogram, which plots these transitions as heat flow versus increasing temperature, is to be used to characterize the tested material.~~

~~497.3 The individual curve is to be marked with each of the following:~~

~~a) Complete identification of the nylon or TPE material tested - including the designation for the material, the generic type of material, and the color of the sample.~~

~~b) The name and/or tradename of the material manufacturer and the assigned code (file number).~~

~~c) The operating conditions used for the Differential Scanning Calorimetry.~~

~~d) The test date(s) and operator identification.~~

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