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

ISSN 0038-9633

Comment Deadline: February 4, 2018

IES (Illuminating Engineering Society)

Addenda

BSR/IES RP-16-2017 Addendum A-201x, Nomenclature and Definitions for Illuminating Engineering - Addendum A (addenda to ANSI/IES RP-16-2017)

Adds definitions for: Mie Scatter, Rayleigh Scatter, Gamut area index, centroid wavelength, threshold increment, equivalent veiling luminance, halogen infrared, organic light emitting diode, bidirectional scatter distribution factor, visible transmittance, colorimeter, center-beam candlepower, isoluminance line, luminaire efficacy, reflected direct luminaires, track lighting, annual sunlight exposure, spatial daylight autonomy, adaptive lighting control, lighting zone, occupancy sensor, vacancy sensor, light trespass, and lighting zone. Changes definitions for seven existing terms.

Click here to view these changes in full

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

NETA (InterNational Electrical Testing Association)

Revision

BSR/NETA ETT-201x, NETA Standard for Certification of Electrical Testing Technicians (revision of ANSI/NETA ETT-2015)

This standard establishes minimum requirements for qualification and certification of the electrical testing technician (ETT). This standard details the minimum training and experience requirements for electrical testing technicians and provides criteria for documenting qualifications and certification. This standard details the minimum qualifications for an independent and impartial certifying body to certify electrical testing technicians.

Click here to view these changes in full

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

NSF (NSF International)

Revision

BSR/NSF 14-201x (i93r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2017)

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

Click here to view these changes in full

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

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 263-201X, Standard for Fire Tests of Building Construction and Materials (revision of ANSI/UL 263-2015)

UL proposes a recirculation of the UL 263 proposal dated 10-6-17.

Click here to view these changes in full

Send comments (with copy to psa@ansi.org) to: Nicolette Allen, (919) 549 -0973, Nicolette.Allen@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 1598-201x, Standard for Safety for Luminaires (revision of ANSI/UL 1598-2012)

The following topics for the Standard for Luminaires, UL 1598, are being recirculated: (1) Revise requirements for combination HID/incandescent lamp replacement marking for remote ballasted HID luminaires; (2) Revise requirements for Rain and Sprinkler Test methods; (3) Add requirements for luminaires for use in clothes closets in Clause 12.7 (USA); (5) Add paragraph 1.3 to reference UL 8750 for requirements for LED components and subassemblies; (7) Revise polymeric material requirements for LED optics; (9) Clarify requirements for the use of flexible cord and attachment plugs for connecting luminaires to the branch circuit; (10) Add requirements for recessed luminaires for installation in air-handling spaces; (11) Add supplementary requirements for LED luminaires; (14) Add standard references to Annex A; (15) Add requirements for LED Type Non-IC inherently protected recessed luminaires; (16) Revise requirements for thermal protection for LED recessed luminaires; (17) Add requirements for mechanical joints and fastenings; (19) Revise flammability requirements for an LED lens and diffuser; (21) Add requirements for luminaires for use in clothes closets in Clause 12.8 (CAN); (22) Add new Section 11.1.5 (CAN) for polymeric light diffusers and lenses compliance with the National Building Code of Canada; (23) Revise font size requirements for product labels; (24) Revise definition of User Maintenance; and (26) Revise requirements for factory production-line tests and dielectric voltage-withstand testing (DVWT).

Click here to view these changes in full

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

Comment Deadline: February 19, 2018

AISI (American Iron and Steel Institute)

Revision

BSR/AISI S914-201x, Test Standard for Determining the Strength and Deformation Behavior of Joist Connectors Attached to Cold-Formed Steel Structural Framing (revision of ANSI/AISI S914-2015)

This Standard provides a method to determine both the strength and deformation behavior of joist connectors used in cold-formed steel light-frame construction.

Single copy price: Free

Obtain an electronic copy from: hchen@steel.org

Order from: Helen Chen, (202) 452-7100, Hchen@steel.org

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

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

Reaffirmation

BSR/APCO 1.111.2-201x (R201x), Public Safety Communications Common Disposition Codes for Data Exchange (reaffirmation and redesignation of ANSI/APCO ANS 1.111.1-2013)

This document is intended to provide a list of Common Incident Disposition Codes that could be used when disparate PSAPs/authorized agencies are sharing incident information. This standard was drafted, in part, to complement the work being done for the Emergency Incident Data Document (EIDD) that will provide a NIEM-conformant data exchange standard for sharing comprehensive incident information. The standard does not require an agency to change any internal codes; it simply provides a list of common codes to which the agency can map their internal data.

Single copy price: Free

Obtain an electronic copy from: bankers@apcointl.org

Order from: bankers@apcointl.org

Send comments (with copy to psa@ansi.org) to: https://workspace.apcointl.org/higherlogic/ws/public/document?document_id=1253&wg_abbrev=operational

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

Addenda

BSR/ASHRAE Addendum bd to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum adds a Staging Object Type, which provides a way for BACnet devices to map analog values onto multiple Binary Value, Binary Output, or Binary Lighting Output objects.

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

ASTM (ASTM International)

New Standard

BSR/ASTM D2949-201x, Specification for 3.25-in. Outside Diameter Poly (Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

New Standard

BSR/ASTM E1462-201x, Test Methods for Insulation Integrity and Ground Path Continuity of Photovoltaic Modules (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

New Standard

BSR/ASTM F2968-201x, Specification for Black Crosslinked Polyethylene (PEX) Pipe, Fittings and Joints for Gas Distribution Applications (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

New Standard

BSR/ASTM WK57078-201x, Specification for MRS-Rated Metric- and Inch-Sized Crosslinked Polyethylene (PEX) Pipe (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM D2464-2017 (R201x), Specification for Threaded Poly(Vinyl Chloride) (PVC) Plastic Pipe Fittings, Schedule 80 (reaffirmation of ANSI/ASTM D2464-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F905-2017 (R201x), Practice for Qualification of Polyethylene Saddle-Fused Joints (reaffirmation of ANSI/ASTM F905-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F1759-2017 (R201x), Practice for Design of High-Density Polyethylene (HDPE) Manholes for Subsurface Applications (reaffirmation of ANSI/ASTM F1759-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F1970-2017 (R201x), Specification for Special Engineered Fittings, Appurtenances or Valves for use in Poly(Vinyl Chloride) (PVC) or Chlorinated Poly(Vinyl Chloride) (CPVC) Systems (reaffirmation of ANSI/ASTM F1970-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F1973-2017 (R201x), Specification for Factory Assembled Anodeless Risers and Transition Fittings in Polyethylene (PE) and Polyamide 11 (PA11) and Polyamide 12 (PA12) Fuel Gas Distribution Systems (reaffirmation of ANSI/ASTM F1973-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F2145-2017 (R201x), Specification for Polyamide 11 (PA 11) and Polyamide 12 (PA12) Mechanical Fittings for Use on Outside Diameter Controlled Polyamide 11 and Polyamide 12 Pipe and Tubing (reaffirmation of ANSI/ASTM F2145-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F2600-2017 (R201x), Specification for Electrofusion Type Polyamide-11 Fittings for Outside Diameter Controlled Polyamide-11 Pipe and Tubing (reaffirmation of ANSI/ASTM F2600-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Reaffirmation

BSR/ASTM F2987-2017 (R201x), Specification for Corrugated Polyethylene Pipe and Fittings for Mine Heap Leach Aeration Applications (reaffirmation of ANSI/ASTM F2987-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Revision

BSR/ASTM F1056-201x, Specification for Socket Fusion Tools for Use in Socket Fusion Joining Polyethylene Pipe or Tubing and Fittings (revision of ANSI/ASTM F1056-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Revision

BSR/ASTM F1807-201x, Specification for Metal Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F1807-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

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

ASTM (ASTM International)

Revision

BSR/ASTM F1866-201x, Specification for Poly(Vinyl Chloride) (PVC) Plastic Schedule 40 Drainage and DWV Fabricated Fittings (revision of ANSI/ASTM F1866-2017 (R2017))

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Revision

BSR/ASTM F2098-201x, Specification for Stainless Steel Clamps for Securing SDR9 Cross-linked Polyethylene (PEX) Tubing to Metal Insert and Plastic Insert Fittings (revision of ANSI/ASTM F2098-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

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

ASTM (ASTM International)

Revision

BSR/ASTM F2159-201x, Specification for Plastic Insert Fittings Utilizing a Copper Crimp Ring for SDR9 Cross-linked Polyethylene (PEX) Tubing and SDR9 Polyethylene of Raised Temperature (PE-RT) Tubing (revision of ANSI/ASTM F2159-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

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

ASTM (ASTM International)

Revision

BSR/ASTM F2769-201x, Specification for Polyethylene of Raised Temperature (PE-RT) Plastic Hot- and Cold-Water Tubing and Distribution Systems (revision of ANSI/ASTM F2769-2016)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Revision

BSR/ASTM F2788-201x, Specification for Metric- and Inch-Sized Crosslinked Polyethylene (PEX) Pipe (revision of ANSI/ASTM F2788-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Revision

BSR/ASTM F2829-201x, Specification for Metric- and Inch-Sized Crosslinked Polyethylene (PEX) Pipe Systems (revision of ANSI/ASTM F2829-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ASTM (ASTM International)

Withdrawal

ANSI/ASTM F2736-2017, Specification for 6 to 30 in. (152 to 762 mm) Polypropylene (PP) Corrugated Single Wall Pipe And Double Wall Pipe (withdrawal of ANSI/ASTM F2736-2017)

http://www.astm.org/ANSI_SA

Single copy price: Free

Obtain an electronic copy from: cleonard@astm.org

Order from: accreditation@astm.org

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

ESTA (Entertainment Services and Technology Association)

Revision

BSR E1.6-1-201x, Entertainment Technology - Powered Hoist Systems (revision of ANSI E1.6-1-2012)

This standard establishes requirements for the design, manufacture, installation, inspection, and maintenance of powered hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. This standard does not apply to the structure to which the hoist is attached, attachment of loads to the load-carrying device, systems for flying people, welded link chain hoists, and manually powered hoists.

Single copy price: Free

Obtain an electronic copy from: http://tsp.esta.org/tsp/documents/public_review_docs.php

Order from: Karl Ruling, (212) 244-1505, standards@esta.org

Send comments (with copy to psa@ansi.org) to: Karl Ruling, standards@esta.org

IES (Illuminating Engineering Society)

Revision

BSR/IES RP-22-201x, Tunnel Lighting (revision of ANSI/IES RP-22-2011)

Moves standard, generic information to the Informative Annex.

Single copy price: $25.00

Obtain an electronic copy from: pmcgillicuddy@ies.org

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

NSF (NSF International)

Revision

BSR/BIFMA e3-201x, Furniture Sustainability Standard (revision of ANSI/BIFMA e3-2017)

This Standard is applicable to all business and institutional furniture; this includes but is not limited to moveable walls, systems furniture, desking systems, casegoods, tables, seating, and accessories. The Standard is also applicable to materials and components manufactured by suppliers to furniture manufacturers

Single copy price: Free

Obtain an electronic copy from: http://standards.nsf.org/apps/group_public/download.php/40736/e3i22r2%20JC_12-20-17%20memo%20and%20ballot.pdf

Order from: Kianda Franklin, (734) 827-3813, kfranklin@nsf.org

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

PGMA (Portable Generator Manufacturers Association)

Revision

BSR/PGMA G300-201x, Safety and Performance of Portable Generators (revision of ANSI/PGMA G300-2015)

This standard applies to 15 kW or smaller; single phase; 300 V or lower; 60 hertz; gasoline, liquefied petroleum gas (LPG)- and diesel-engine-driven portable generators intended for multiple use and intended to be moved, though not necessarily with wheels. Permanent stationary generators, 50-hertz generators, marine generators, trailer-mounted generators, generators in motor homes, generators intended to be pulled by vehicles, engine-driven welding power sources and portable generators with AC output circuits that are not compatible with NEMA receptacles are not covered.

Single copy price: Free

Obtain an electronic copy from: jharding@thomasamc.com

Send comments (with copy to psa@ansi.org) to: jharding@thomasamc.com

TIA (Telecommunications Industry Association)

New Standard

BSR/TIA 920.123-201x, Transmission Requirements for Digital Interface Communications Devices with Group Speakerphone (new standard)

Establishes transmission performance requirements for group speakerphone devices that function as narrowband (300 to 3400 Hz) or wideband (100 to 7000 Hz) digital interface communications devices, or both. Group speakerphones are devices used for one or more individuals in a small to large setting with users at a distance further away (up to 2 meters, or more) than those for personal devices. Typically, the speaker and microphone are located in the base unit together, but may have satellite microphones that extend out from the center base unit.

Single copy price: $61.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 1699B-201X, Standard for Safety for Photovoltaic (PV) DC Arc-Fault Circuit Protection (new standard)

These requirements cover DC photovoltaic arc-fault-circuit protection devices intended for use in solar photovoltaic electrical energy systems as described in Article 690 of the National Electrical Code, NFPA 70. This protection is intended to mitigate the effects of arcing faults that may pose a risk of fire ignition under certain conditions if the arcing persists.

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: Patricia Sena, (919) 549 -1636, patricia.a.sena@ul.com

UL (Underwriters Laboratories, Inc.)

Revision

BSR/UL 4-201X, Standard for Safety for Armored Cable (revision of ANSI/UL 4-2008 (R2013))

These requirements cover interlocked-steel or aluminum armored cables that contain 2, 3, or 4, 14–1 AWG insulated circuit conductors with or without grounding conductors and are for use as Type AC Armored Cable in accordance with Article 320 and other applicable parts of the National Electrical Code. (NEC), ANSI/NFPA 70.

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: Linda Phinney, (510) 319 -4297, Linda.L.Phinney@ul.com

Comment Deadline: March 6, 2018

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

UL (Underwriters Laboratories, Inc.)

New Standard

BSR/UL 3003-201X, Standard for Safety for Distributed Generation Cables (new standard)

These requirements cover multi-conductor, nonintegrally jacketed, distributed generation (DG) cable. The cable is intended for use with specific distributed generation equipment/devices such as photovoltaic modules, inverters, and solar trackers. DG Cable is suitable for use between cable trays and utilization equipment. These cables are constructed with or without: One bare or one or more insulated grounding conductor(s), and/or one or more twisted pairs used for signal or communication, all under an overall jacket. The installation of this distributed generation cable is intended to be in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, in addition to any applicable building codes. The cable may be installed in cable trays, in raceways, and where supported in outdoor locations by a messenger wire.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000, 151 Eastern Avenue, Bensenville, IL 60106, USA,1 -888-853-3503

Send comments (with copy to psa@ansi.org) to: Linda Phinney, (510) 319 -4297, Linda.L.Phinney@ul.com

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.

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

ANSI/AHRI Standard 520-2004, Performance Rating of Positive Displacement Condensing Units (formerly ANSI/ARI 520-2004)

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

ANSI/AHRI Standard 540-2004, Positive Displacement Refrigerant Compressors and Compressor Units (formerly ANSI/ARI 540-2004)

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

ANSI/AHRI Standard 610-2004, Performance Rating of Central System Humidifiers (formerly ANSI/ARI 610-2004)

AHRI (Air-Conditioning, Heating, and Refrigeration Institute)

ANSI/AHRI Standard 620-2004, Performance Rating of Self-Contained Humidifiers for Residential Applications (formerly ANSI/ARI 620-2004)

AWS (American Welding Society)

ANSI/AWS A4.3-93 (R2006), Standard Methods for Determination of the Diffusible Hydrogen Content of Martensitic, Bainitic, and Ferritic Steel Weld Metal Produced by Arc Welding

AWS (American Welding Society)

ANSI/AWS A5.30/A5.30M:2007, Specification for Consumable Inserts

AWS (American Welding Society)

ANSI/AWS A5.2/A5.2M-2007, Specification for Carbon and Low Alloy Steel Rods for Oxyfuel Gas Welding

AWS (American Welding Society)

ANSI/AWS A5.3/A5.3M-1999 (R2007), Specification for Aluminum and Aluminum-Alloy Electrodes for Shielded Metal Arc Weldng

AWS (American Welding Society)

ANSI/AWS A5.02/A5.02M-2006, Filler Metal Standard Sizes, Packaging, and Physical Attributes

AWS (American Welding Society)

ANSI/AWS A5.17/A5.17M-1997 (R2007), Specification for Carbon Steel Electrodes and Fluxes for Submerged Arc Welding

AWS (American Welding Society)

ANSI/AWS A10.1M-2007, Specification for Calibration and Performance Testing of Secondary Current Sensing Coils and Weld Current Monitors Used in Single Phase AC Resistance Welding

AWS (American Welding Society)

ANSI/AWS B2.1-1-201-2007, Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 3/4 Inch Thick, E6010 (Vertical Uphill) Followed by E7018 (Vertical Uphill), As-Welded Condition, Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-1-202-2007, Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 3/4 Inch Thick, E6010 (Vertical Downhill) Followed by E7018 (Vertical Uphill), As-Welded Condition, Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-1-203-2007, Standard Welding Procedure Specification (WPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Galvanized Steel (M-1), 18 through Gauge, in the As-Welded Condition, with or without Backing

AWS (American Welding Society)

ANSI/AWS B2.1-1-204-2007, Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 3/4 inch Thick, E6010 (Vertical Downhill Root with the Balance Vertical Uphill), As-Welded Condition, Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-1-205-2007, Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, E6010 (Vertical Uphill) Followed by E7018 (Vertical Uphill), As-Welded or PWHT Condition, (Primarily Pipe Applications)

AWS (American Welding Society)

ANSI/AWS B2.1-1-206-2007, Standard Welding Procedure Specification (WPS) for Gas Metal Arc Welding (Short Circuiting Transfer Mode) of Carbon Steel to Austenitic Stainless Steel (M-1 to M-8, P-8, or S-8), 18 through 10 Gauge, in the As-Welded Condition, with or without Backing

AWS (American Welding Society)

ANSI/AWS B2.1-1-207-2007, Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, ER70S-2, As-Welded or PWHT Condition (Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-1-208-2007, Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, E7018, As-Welded or PWHT Condition, Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-1-209-2006, Standard Welding Procedure Specification (WPS) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1/S-1, Group 1 or 2), 1/8 through 1-1/2 inch Thick, ER70S-2 and E7018, As-Welded or PWHT Condition (Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B2.1-8-213-97 (R2007), Standard Welding Procedure Specification (WPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P-8/S-8, Group 1), 1/8 through 1-1/2 inch Thick, E3XX-XX, As-Welded Condition (Primarily Pipe Applications

AWS (American Welding Society)

ANSI/AWS B5.15-2003, Adm 1-2007, Specification for the Qualification of Radiographic Interpreters

AWS (American Welding Society)

ANSI/AWS C4.4/C4.4M-2007, Recommended Practices for Heat Shaping and Straightening with Oxyfuel Gas Heating Torches

AWS (American Welding Society)

ANSI/AWS C5.7-2000 (R2006), Recommended Practices for Electrogas Welding

AWS (American Welding Society)

ANSI/AWS D10.11M/D10.11-2007, Guide for Root Pass Welding of Pipe without Backing

DASMA (Door and Access Systems Manufacturers Association)

ANSI/DASMA 109-2001 (R2007), Standard Method for Testing and Rating Sectional Doors: Determination of Life Cycling Performance

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 17-2007, Test Procedure for Carrier to Noise (C/N, CCN, CIN, CTN)

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 47-2007, Test Method for Coaxial Cable Attenuation

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 69-2003 (R2007), Test Method for Moisture Inhibitor Corrosion Resistance

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 70-2003 (R2007), Insulation Resistance - Megohmmeter Method

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 72-2002 (R2007), Test Method for Axial Load Temperature

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 113-2006, HMS Digital Transport Management Information Base SCTE-HMS-HE-DIG-TRANSPORT-MIB

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 127-2007, Carriage of VPI Data in North American DTV Bitstreams

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 129-2007, Drop Passives: Bonding Blocks (Without Surge Protection)

SCTE (Society of Cable Telecommunications Engineers)

ANSI/SCTE 131-2007, HMS VoIP Test Management Information Base (MIB) Definition SCTE-HMS-VOIP-MIB

SJI (Steel Joist Institute)

ANSI/SJI CJCOSP-1.0-2006, Standard Specifications and Code of Standard Practice for Composite Steel Joists, CJ-Series

Call for Members (ANS Consensus Bodies)

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

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633

Contact: *Jennifer Moyer*

Phone: (703) 253-8274

Fax: (703) 276-0793

E-mail: jmoyer@aami.org

BSR/AAMI/IEC 80601-2-49-201x, Medical electrical equipment - Part 2 -49: Particular requirements for the basic safety and essential performance of multifunction patient monitors (identical national adoption of IEC 80601-2-49:2018)

AMCA (Air Movement and Control Association)

Office: 30 West University Drive
Arlington Heights, IL 60004-1893

Contact: *Erin Moore*

Phone: (847) 704-6285

E-mail: emoore@amca.org

BSR/AMCA Standard 205-201x, Energy Efficiency Classification for Fans (revision and redesignation of ANSI/AMCA 205-2012)

BSR/AMCA Standard 250-201x, Laboratory Methods of Testing Jet Tunnel Fans for Performance (revision and redesignation of ANSI/AMCA 250-2012)

ASNT (American Society for Nondestructive Testing)

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

Contact: *Charles Longo*

Phone: (800) 222-2768 ext 241

Fax: (614) 274-6899

E-mail: clongo@asnt.org

BSR/ASNT CP-189-201x Addendum, Qualification and Certification of Nondestructive Testing Personnel (supplement to ANSI/ASNT CP -189-2016)

BHMA (Builders Hardware Manufacturers Association)

Office: 355 Lexington Avenue
15th Floor
New York, NY 10017

Contact: *Emily Brochstein*

Phone: (212) 297-2126

Fax: (212) 370-9047

E-mail: ebrochstein@kellencompany.com

BSR/BHMA A156.4-201x, Door Controls - Closers (revision of ANSI/BHMA A156.4-2013)

BSR/BHMA A156.11-201x, Cabinet Locks (revision of ANSI/BHMA A156.11-2014)

BSR/BHMA A156.12-201x, Interconnected Locks (revision of ANSI/BHMA A156.12-2013)

BSR/BHMA A156.19-201x, Power Assist and Low Energy Power Operated Doors (revision of ANSI/BHMA A156.19-2013)

BSR/BHMA A156.25-201x, Electrified Locking Devices (revision of ANSI/BHMA A156.25-2013)

BSR/BHMA A156.28-201x, Recommended Practices for Mechanical Keying Systems (revision of ANSI/BHMA A156.28-2013)

BSR/BHMA A156.31-201x, Electric Strikes and Frame Mounted Actuators (revision of ANSI/BHMA A156.31-2013)

BSR/BHMA A156.34-201x, Bored Locks and Mortise Locks with Ligature Resistant Trim (revision of ANSI/BHMA A156.34-2016)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Phone: (703) 907-7697

Fax: (703) 907-4197

E-mail: vlancaster@cta.tech

BSR/CTA 2010-C-201x, Standard Method of Measurement for Powered Subwoofers (revision and redesignation of ANSI/CTA 2010-B-2014)

BSR/CTA 2034-B-201x, Standard Method of Measurement for In-Home Loudspeakers (revision and redesignation of ANSI/CTA 2034-A-2015)

BSR/CTA 2076-201x, Inclusive, Audio-Based, Network Navigation Systems for All Persons Including Those Blind/Low Vision (new standard)

BSR/CTA 2077-201x, Recommendations for Portable Power Packs (new standard)

IES (Illuminating Engineering Society)

Office: 120 Wall St. 17th Floor
New York, NY 10005
Contact: *Patricia McGillicuddy*
Phone: (212) 248-5000
E-mail: pmcgillicuddy@ies.org

BSR/IES RP-22-201x, Tunnel Lighting (revision of ANSI/IES RP-22 -2011)

BSR/IES RP-16-2017 Addendum A-201x, Nomenclature and Definitions for Illuminating Engineering - Addendum A (addenda to ANSI/IES RP -16-2017)

NEBB (National Environmental Balancing Bureau)

Office: 8575 Grovemont Circle
Gaithersburg, MD 20877
Contact: *Bohdan Fedyk*
Phone: (301) 977-3968
Fax: (301) 977-9589
E-mail: don@nebb.org

BSR/NEBB S130-201x, Cleanroom Performance Testing (new standard)

NEMA (ASC C78) (National Electrical Manufacturers Association)

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

BSR C78.54-201X, Standard for Electric Lamps - Specification Sheet for Tubular Fluorescent Replacement and Retrofit LED Lamps (new standard)

NEMA (ASC C8) (National Electrical Manufacturers Association)

Office: 1300 North 17th Street
Rosslyn, VA 22209
Contact: *Khaled Masri*
Phone: (703) 841-3278
Fax: (703) 841-3398
E-mail: Khaled.Masri@nema.org

BSR ICEA S-108-720-201x, Standard for Extruded Insulation Power Cables Rated above 46 through 500 kV AC (revision of ANSI ICEA S -108-720-2012)

NSF (NSF International)

Office: 789 N. Dixboro Road
Ann Arbor, MI 48105-9723
Contact: *Kianda Franklin*
Phone: (734) 827-3813
E-mail: kfranklin@nsf.org

BSR/BIFMA e3-201x, Furniture Sustainability Standard (revision of ANSI/BIFMA e3-2017)

BSR/NSF 14-201x (i93r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2017)

TAPPI (Technical Association of the Pulp and Paper Industry)

Office: 15 Technology Parkway South
Peachtree Corners, GA 30092
Contact: *Laurence Womack*
Phone: (770) 209-7276
Fax: (770) 446-6947
E-mail: standards@tappi.org

BSR/TAPPI T 812 om-2013 (R201x), Ply separation of solid and corrugated fiberboard (wet) (reaffirmation of ANSI/TAPPI T 812 om -2013)

BSR/TAPPI T 826 om-2013 (R201x), Short span compressive strength of containerboard (reaffirmation of ANSI/TAPPI T 826 om-2013)

BSR/TAPPI T 836 om-2013 (R201x), Bending stiffness, four point method (reaffirmation of ANSI/TAPPI T 836 om-2013)

TIA (Telecommunications Industry Association)

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

BSR/TIA 920.123-201x, Transmission Requirements for Digital Interface Communications Devices with Group Speakerphone (new standard)

Call for Members (ANS Consensus Bodies)

Alliance for Telecommunications Industry Solutions (ATIS) ANSI-Accredited Standards Developer

ATIS, an ANSI-accredited SDO, brings together the top global ICT companies to advance the industry's most pressing business priorities. ATIS is currently working to address the All-IP transition, network functions virtualization, big data analytics, device solutions, emergency services, M2M, cyber security, network evolution, quality of service, billing support, operations, and much more. ATIS member companies encompass a broad scope of Communications Service Providers, Network Suppliers, Power Suppliers, Subsystems Suppliers, Government Agencies, Associations, Consumer Products Suppliers and Application/OTT Providers.

ATIS is currently seeking to broaden the membership base of its ANSI consensus bodies and is interested in new members to participate in its initiatives, including emergency services, sustainability, energy efficiency, network synchronization, and wireless technologies. Of particular interest is membership from the government, academia, and user (communications service provider) communities. Membership and participation in ATIS' activities is open to all organizations as defined in ATIS' operating procedures. More information is available at www.atis.org or by e-mail from membership@atis.org.

Call for Members (ANS Consensus Bodies)

Call for Committee Members

ASC O1 – Safety Requirements for Woodworking Machinery

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

- General Interest
- Government
- Producer
- User

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

Final Actions on American National Standards

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

ADA (American Dental Association)

New National Adoption

ANSI/ADA Standard No. 69-2017, Dental Ceramic (identical national adoption of ISO 6872:2015 and revision of ANSI/ADA Standard No. 69-2010 (R2015)): 12/21/2017

ANSI/ADA Standard No. 89-2017, Dental Operating Lights (identical national adoption of ISO 9680:2014 and revision of ANSI/ADA Standard No. 89-2008 (R2013)): 12/21/2017

ANS (American Nuclear Society)

Reaffirmation

ANSI/ANS 2.15-2013 (R2017), Criteria for Modeling and Calculating Atmospheric Dispersion of Routine Radiological Releases from Nuclear Facilities (reaffirmation of ANSI/ANS 2.15-2013): 12/21/2017

ASABE (American Society of Agricultural and Biological Engineers)

Reaffirmation

ANSI/ASABE AD4254-13-2013 (R2017), Agricultural machinery - Safety - Part 13: Large rotary mowers (reaffirmation of ANSI/ASABE AD4254-13-2013): 12/21/2017

ANSI/ASAE EP576.2-2012 (R2017), Lighting and Marking of Animal-Drawn Equipment (reaffirmation of ANSI/ASAE EP576.2-2012): 12/21/2017

* ANSI/ASAE S229.6-DEC1976 (R2017), Baling Wire for Automatic Balers (reaffirmation of ANSI/ASAE S229.6-DEC1976 (R2012)): 12/21/2017

* ANSI/ASAE S277.2-1992 (R2017), Mounting Brackets and Socket for Warning Lamp and Slow-Moving Vehicle (SMV) Identification Emblem (reaffirmation of ANSI/ASAE S277.2-1992 (R2012)): 12/22/2017

ANSI/ASAE S279.17-2013 (R2017), Lighting and Marking of Agricultural Equipment on Highways (reaffirmation of ANSI/ASAE S279.17-2013): 12/21/2017

ANSI/ASAE S515-JAN94 (R2017), Pallet Load Transfer System for Vegetable Harvesters, Shuttle Vehicles, and Road Trucks (reaffirmation of ANSI/ASAE S515-JAN94 (R2012)): 12/21/2017

* ANSI/ASAE S584.3-2013 (R2017), Agricultural Equipment: Speed Identification Symbol (SIS) (reaffirmation of ANSI/ASAE S584.3 -2013): 12/21/2017

Revision

ANSI/ASAE EP484.3-DEC2017, Diaphragm Design of Metal-Clad, Wood-Frame Rectangular Buildings (revision and redesignation of ANSI/ASAE EP484.2-AUG98 (R2012)): 12/21/2017

ATIS (Alliance for Telecommunications Industry Solutions)

Revision

ANSI/ATIS 0600005-2017, Acoustic Measurement (revision of ANSI/ATIS 0600005-2006 (R2011)): 12/21/2017

AWEA (American Wind Energy Association)

New National Adoption

ANSI/AWEA 61400-27-1-2017, Electrical simulation models - Wind turbines (identical national adoption of IEC 61400-27-1:2015): 12/21/2017

HPS (ASC N13) (Health Physics Society)

Reaffirmation

ANSI N13.54-2008 (R2018), Fetal Radiation Dose Calculations (reaffirmation of ANSI N13.54-2008): 12/21/2017

IES (Illuminating Engineering Society)

New Standard

ANSI/IES RP-38-2017, Recommended Practice for Lighting Performance for Small-to-Medium-sized Videoconferencing Rooms (new standard): 12/21/2017

ANSI/IES/ALA RP-11-2017, Recommended Practice for Lighting for Interior and Exterior Residential Environments (new standard): 12/21/2017

ISA (International Society of Automation)

Reaffirmation

ANSI/ISA 50.00.01-1975 (R2017), Compatibility of Analog Signals for Electronic Industrial Process Instruments (reaffirmation of ANSI/ISA 50.00.01-1975 (R2012)): 12/21/2017

NEMA (ASC C136) (National Electrical Manufacturers Association)

New Standard

ANSI C136.53-2017, Roadway and Area Lighting Equipment - Enclosed Pendant Mounted Luminaires (new standard): 12/21/2017

NEMA (ASC C78) (National Electrical Manufacturers Association)

Revision

* ANSI C78.5-2017, Standard for Electric Lamps - Specifications for Performance of Self-Ballasted Compact Fluorescent Lamps (revision of ANSI C78.5-2003 (R2015)): 12/21/2017

* ANSI C78.43-2017, Electric Lamps - Single-Ended Metal Halide Lamps (revision and redesignation of ANSI ANSLG C78.43-2013): 12/21/2017

NEMA (ASC C82) (National Electrical Manufacturers Association)

Revision

ANSI C82.77-5-2017, Lighting Equipment - Voltage Surge Requirements (revision of ANSI C82.77-5-2015): 12/21/2017

NSF (NSF International)

Revision

* ANSI/NSF 14-2017 (i92r1), Plastics Piping System Components and Related Materials (revision of ANSI/NSF 14-2016): 12/20/2017

* ANSI/NSF 173-2017 (i63r2), Dietary Supplements (revision of BSR/NSF 173-201x (i63r2)): 12/10/2017

* ANSI/NSF 173-2017 (i74r1), Dietary Supplements (revision of ANSI/NSF 173-2016): 12/19/2017

SCTE (Society of Cable Telecommunications Engineers)

New Standard

ANSI/SCTE 242-2-2017, Next Generation Audio Coding Constraints for Cable Systems - Part 2: AC-4 Audio Coding Constraints (new standard): 12/21/2017

ANSI/SCTE 243-1-2017, Next Generation Audio Carriage Constraints for Cable Systems - Part 1: Common Transport Signaling (new standard): 12/21/2017

ANSI/SCTE 243-2-2017, Next Generation Audio Carriage Constraints For Cable Systems - Part 2: AC-4 Audio Carriage Constraints (new standard): 12/21/2017

UL (Underwriters Laboratories, Inc.)

New Standard

ANSI/UL 60335-2-67-2017, Standard for Safety for Household and Similar Electrical Appliances - Safety - Part 2-67: Particular Requirements for Floor Treatment Machines, for Commercial Use (new standard): 12/22/2017

Reaffirmation

ANSI/UL 448B-2013 (R2017), Standard for Safety for Residential Fire Pumps Intended for One- and Two-Family Dwellings and Manufactured Homes (reaffirmation of ANSI/UL 448B-2013): 12/21/2017

Revision

ANSI/UL 586-2017, Standard for Safety for High-Efficiency, Particulate, Air Filters (revision of ANSI/UL 586-2009 (R2014)): 12/19/2017

ANSI/UL 586-2017a, Standard for Safety for High-Efficiency, Particulate, Air Filters (revision of ANSI/UL 586-2009 (R2014)): 12/19/2017

ANSI/UL 723-2017, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723 -2013): 1/21/2017

ANSI/UL 723-2017a, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723 -2013): 1/21/2017

ANSI/UL 1277-2017, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members (Proposals dated 2/3/17) (revision of ANSI/UL 1277-2013): 12/20/2017

ANSI/UL 1277-2017a, Standard for Safety for Electrical Power and Control Tray Cables with Optional Optical-Fiber Members (revision of ANSI/UL 1277-2013): 12/20/2017

ANSI/UL 1277-2017b, Standard for Safety for Electrical Power and Control Tray Cable with Optional Optical-Fiber Members (Proposal dated 11/10/17) (revision of ANSI/UL 1277-2013): 12/20/2017

* ANSI/UL 2034-2017b, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2017a): 12/21/2017

* ANSI/UL 2034-2017c, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2015a): 12/21/2017

* ANSI/UL 2034-2017d, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2015): 12/21/2017

* ANSI/UL 2034-2017e, Standard for Safety for Single and Multiple Station Carbon Monoxide Alarms (revision of ANSI/UL 2034-2017a): 12/21/2017

* ANSI/UL 2075-2017, Standard for Safety for Gas and Vapor Detectors and Sensors (revision of ANSI/UL 2075-2013): 12/21/2017

* ANSI/UL 2075-2017a, Standard for Safety for Gas and Vapor Detectors and Sensors (revision of ANSI/UL 2075-2013): 12/21/2017

ANSI/UL 6703-2017a, Standard for Safety for Connectors for Use with Photovoltaic Systems (revision of ANSI/UL 6703-2017): 12/22/2017

ANSI/UL 6703-2017b, Standard for Connectors for Use in Photovoltaic Systems (revision of ANSI/UL 6703-2017): 12/22/2017

ANSI/UL 6703-2017c, Standard for Connectors for Use in Photovoltaic Systems (revision of ANSI/UL 6703-2017): 12/22/2017

* ANSI/UL 8750-2017d, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2016): 12/18/2017

ANSI/UL 8750-2017e, Standard for Safety for Light Emitting Diode (LED) Equipment For Use In Lighting Products (Proposal dated 10 -27-17) (revision of ANSI/UL 8750-2017): 12/18/2017

Project Initiation Notification System (PINS)

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

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

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

AAMI (Association for the Advancement of Medical Instrumentation)

Office: 4301 N Fairfax Drive
Suite 301
Arlington, VA 22203-1633

Contact: *Jennifer Moyer*

Fax: (703) 276-0793

E-mail: jmoyer@aami.org

BSR/AAMI/IEC 80601-2-49-201x, Medical electrical equipment - Part 2 -49: Particular requirements for the basic safety and essential performance of multifunction patient monitors (identical national adoption of IEC 80601-2-49:2018)

Stakeholders: Regulators, medical device manufacturers, test houses.

Project Need: This document will provided needed guidance to manufacturers, regulators, and test houses for the safety requirements of multiparameter patient monitors.

Applies to the safety requirements of multifunction patient monitoring equipment. The scope is restricted to medical electrical equipment having either more than one applied part or more than one single function, intended for connection to a single patient. This document does not specify requirements for individual monitoring functions.

ADA (American Dental Association)

Office: 211 East Chicago Avenue
Chicago, IL 60611-2678

Contact: *Paul Bralower*

Fax: (312) 440-2529

E-mail: bralowerp@ada.org

BSR/ADA 165-201x, Vocabulary of Process Chain for CAD/CAM Systems (national adoption with modifications of ISO 18739:2016)

Stakeholders: Dentists and dental CAD/CAM system manufacturers.

Project Need: Terms and designations for individual system parts and process steps used in product descriptions and instructions for use provided by the manufacturers of dental CAD/CAD systems differ from each other, thus creating confusion among dentists and dental technicians. A standard for terminology used in the process chain for CAD/CAM systems is needed to overcome these ambiguities.

This standard specifies terms, synonyms for terms, and definitions used in the process chain for CAD/CAM systems in dentistry.

AGA (ASC Z380) (American Gas Association)

Office: 400 North Capitol Street, NW
Washington, DC 20001

Contact: *Michael Bellman*

E-mail: mbellman@aga.org

BSR GPTC Z380.1-201x, Guide for Gas Transmission, Distribution and Gathering Piping Systems (revision of ANSI GPTC Z380.1-2015 Edition, Addendum No. 8-2017)

Stakeholders: Natural and LP gas transmission, distribution, and gathering piping system operators; federal and state regulatory agencies involved in enforcement activities; manufacturers and suppliers of material and equipment to the industry.

Project Need: Update guidance material to reflect current and new regulations and industry practices; issue addenda as necessary to update the 2015 version of the standard.

The standard provides guidance to operators of natural gas and LP pipeline systems regulated under U.S. CFR 49, Parts 191 and 192.

AMCA (Air Movement and Control Association)

Office: 30 West University Drive
Arlington Heights, IL 60004-1893

Contact: *Erin Moore*

E-mail: emoore@amca.org

BSR/AMCA Standard 205-201x, Energy Efficiency Classification for Fans (revision and redesignation of ANSI/AMCA 205-2012)

Stakeholders: Manufacturers, building engineers, fan testing labs, acoustic engineers (for fans/sound), product consumers, regulatory bodies.

Project Need: This project is needed to complete the review of the Standard in accordance with our procedures. We must review a project every 5 years.

This standard defines the energy efficiency classification for fans. The scope includes fans having an impeller diameter of 125 mm (5 in.) or greater, operating with a shaft power 750 W (1 hp) and above, and having a total efficiency calculated according to one of the following fan test standards: ANSI/AMCA 210, ANSI/AMCA 230, AMCA 260, or ISO 5801. All other fans are excluded. The standard only applies to the fan, not the fan drive or the fan system.

BSR/AMCA Standard 250-201x, Laboratory Methods of Testing Jet Tunnel Fans for Performance (revision and redesignation of ANSI/AMCA 250-2012)

Stakeholders: Manufacturers, building engineers, fan testing labs, acoustic engineers (for fans/sound), product consumers, regulatory bodies.

Project Need: This project is needed to complete the review of the Standard in accordance with our procedures. We must review a project every 5 years.

This standard deals with the determination of those technical characteristics needed to describe all aspects of the performance of jet tunnel fans. It does not cover those fans designed for ducted applications nor those designed solely for air circulation, e.g., ceiling fans and table fans. The test procedures described in this standard relate to laboratory conditions. The measurement of performance under in-situ conditions is not included.

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

Office: 351 N. Williamson Boulevard
Daytona Beach, FL 32114

Contact: *Stacy Banker*

E-mail: bankers@apcointl.org

BSR/APCO 1.103.3-201x, Wireless 9-1-1 Deployment and Management Effective Practices Guide (revision and redesignation of ANSI/APCO 1.103.2-2013)

Stakeholders: Public safety users, producers, and general interest groups.

Project Need: To maintain an up to date standard for wireless 9-1-1 deployment and management effective practices.

Designed to increase the Public Safety Answering Point (PSAP) manager's understanding of the technology application and the ability to better manage wireless calls, as well as public and responder expectations.

ASNT (American Society for Nondestructive Testing)

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

Contact: *Charles Longo*

Fax: (614) 274-6899

E-mail: clongo@asnt.org

BSR/ASNT CP-189-201x Addendum, Qualification and Certification of Nondestructive Testing Personnel (supplement to ANSI/ASNT CP -189-2016)

Stakeholders: All industries using NDT.

Project Need: To provide as an addendum additional requirements and clarification to ANSI/ASNT CP-189-2016.

This standard establishes the minimum requirements for the qualification and certifying NDT personnel.

BHMA (Builders Hardware Manufacturers Association)

Office: 355 Lexington Avenue
15th Floor
New York, NY 10017

Contact: *Emily Brochstein*

Fax: (212) 370-9047

E-mail: ebrochstein@kellencompany.com

BSR/BHMA A156.4-201x, Door Controls - Closers (revision of ANSI/BHMA A156.4-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

This Standard contains requirements for door closers surface mounted, concealed in the door, overhead concealed and concealed in the floor. Also included are pivots for floor closers. Criteria for conformance include cycle, operational, closing force and finish tests. Optional tests which shall be specified separately are also included.

BSR/BHMA A156.11-201x, Cabinet Locks (revision of ANSI/BHMA A156.11-2014)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

This standard establishes requirements for cabinet locks used on doors, drawers, and furniture. Cycle tests, operational tests, strength tests and finish tests are included.

BSR/BHMA A156.12-201x, Interconnected Locks (revision of ANSI/BHMA A156.12-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

This Standard establishes performance requirements for interconnected locks and includes operational, cycle, strength, material evaluation, security, and finish tests.

BSR/BHMA A156.19-201x, Power Assist and Low Energy Power Operated Doors (revision of ANSI/BHMA A156.19-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

Requirements in this Standard apply only to swing door operators. The operator types are power-assist and low-energy-power operators, for pedestrian use, and some small vehicular use. It does not address doors, finish, or hardware. The activation of all doors described in this standard requires a knowing act. Included are provisions intended to reduce the chance of user injury or entrapment.

BSR/BHMA A156.25-201x, Electrified Locking Devices (revision of ANSI/BHMA A156.25-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

Electrified locking systems are usually comprised of four functional components: locking devices, input devices, controlling devices, and power supplies. This Standard establishes requirements for the locking devices, whose mechanical aspects are described in the applicable BHMA product Standards; in addition, where the input or controlling device or both are an integral part of the locking device, they shall also be tested with the locking device covered by this Standard. This Standard includes requirements for cyclical, security, operational, strength, and environmental tests for these products.

BSR/BHMA A156.28-201x, Recommended Practices for Mechanical Keying Systems (revision of ANSI/BHMA A156.28-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

This recommended practice is intended for building owners, security professionals and others responsible for designing, implementing, and maintaining secure keying systems. Minimize legal liability by providing industry proven guidelines. It covers system design, to provide design criteria to establish and maintain a secure keying system. The purpose of this document is to provide guidelines for the essential keying conference, establish good practices for effective key management, and give building owners the ability to extend the life of keying systems to meet future demands.

BSR/BHMA A156.31-201x, Electric Strikes and Frame Mounted Actuators (revision of ANSI/BHMA A156.31-2013)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

BHMA A156.31 establishes requirements for Electric Strikes and Frame Mounted Actuators, and includes operational and finish tests.

BSR/BHMA A156.34-201x, Bored Locks and Mortise Locks with Ligature Resistant Trim (revision of ANSI/BHMA A156.34-2016)

Stakeholders: Consumers, door and hardware manufacturers, building and construction.

Project Need: Revise the current American National Standard.

This Standard defines requirements and test methods for ligature-resistant trim on bored locks and mortise locks. These requirements apply to the exposed parts of the lockset on the face of the door in the closed position only.

CSA (CSA Group)

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BSR Z21.54-201x, Gas Hose Connectors for Portable Outdoor Gas-Fired Appliances (same as CSA 8.4) (revision of ANSI Z21.54-2014)

Stakeholders: Consumers, manufacturers, gas suppliers, certifying agencies.

Project Need: Revise the standard for safety.

Details test and examination criteria for gas hose connectors suitable for connecting portable outdoor gas-fired appliances to fixed gas supply lines containing natural, manufactured, or mixed gases; liquefied petroleum gases; or LP gas-air mixtures at pressures not in excess of 1/2 psi (3.45 kPa). These connectors are intended for use in unconcealed outdoor locations unlikely to be subject to excessive temperatures [above 200°F (93.5°C)].

CTA (Consumer Technology Association)

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Arlington, VA 22202

Contact: *Veronica Lancaster*

Fax: (703) 907-4197

E-mail: vlancaster@cta.tech

* BSR/CTA 2010-C-201x, Standard Method of Measurement for Powered Subwoofers (revision and redesignation of ANSI/CTA 2010-B-2014)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To revise ANSI/CTA 2010-B.

This standard defines a method for measuring the audio performance of subwoofers, both passive and powered. The standard is being revised in order to incorporate new rating methods and to make additional edits as needed.

* BSR/CTA 2034-B-201x, Standard Method of Measurement for In-Home Loudspeakers (revision and redesignation of ANSI/CTA 2034-A-2015)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To revise ANSI/CTA-2034-A.

This standard describes how to determine the frequency response, directivity and maximum output capability of a residential loudspeaker. It is intended to determine the audio performance of a loudspeaker, not the loudspeaker's ability to survive a given input signal. The standard is being revised to incorporate new rating methods and to make additional edits as needed. This standard applies only to loudspeaker systems, and not to raw transducers.

* BSR/CTA 2076-201x, Inclusive, Audio-based, Network Navigation Systems for All Persons Including Those Blind/Low Vision (new standard)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To specify requirements for the design of inclusive audio-based network navigation systems (IABNNS), which are technologies used to augment the physical environment by delivering sufficient audio, haptic, visual instructions or instructions in other formats as may be required.

This standard specifies requirements for the design of inclusive audio-based network navigation systems (IABNNS), which are technologies used to augment the physical environment by delivering sufficient audio, haptic, visual instructions or instructions in other formats as may be required. This standard helps design professionals achieve an inclusive environment through IABNNSs that augment the physical environment by the provision of aural information about environments for users. NOTE: This Recommendation does not consider the specialized requirements of people who are deaf or hard of hearing.

* BSR/CTA 2077-201x, Recommendations for Portable Power Packs (new standard)

Stakeholders: Consumers, manufacturers, and retailers.

Project Need: To establish a common terminology and overall grading system/evaluation criteria that addresses portable power packs.

This document establishes a common terminology and overall grading system/evaluation criteria that addresses portable power packs.

EOS/ESD (ESD Association, Inc.)

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BSR/ESD S11.4-201x, ESD Association Standard for the Protection of Electrostatic Discharge Susceptible Items - Static Control Bags (revision of ANSI/ESD S11.4-2013)

Stakeholders: Electronics industry including telecom, consumer, medical, automotive, and industrial.

Project Need: This standard establishes performance limits for bags that are intended to protect electronic parts and products from damage due to static electricity and moisture during common electronic manufacturing industry transport and storage applications.

This standard applies to bags used to package electronic devices and assemblies. It does not address bags for volatile materials, chemicals, explosives, or munitions. NOTE: Some bag applications may require the consideration of additional material or cleanliness controls, including particle level, nonvolatile residue, ionic substances, outgassing, or polycarbonate stress. These parameters are beyond the scope of this standard.

HL7 (Health Level Seven)

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E-mail: Karenvan@HL7.org

BSR/V2IG CDS VMR R1-201x, HL7 Version 2 Implementation Guide: Implementing the Virtual Medical Record for Clinical Decision Support (vMR-CDS), Release 1 (new standard)

Stakeholders: Healthcare.

Project Need: In order to enable scalable and interoperable clinical decision support (CDS), there is a critical need for the definition and adoption of a common CDS information model, which has generally been referred to as a virtual medical record (vMR). The objective of this project is to address this need by establishing a standard information model for representing the data that are analyzed and/or produced by clinical decision support (CDS) engines.

A Virtual Medical Record (vMR) is a data model for representing the data that are analyzed and/or produced by clinical decision support (CDS) engines. The purpose of a vMR is to support scalable, interoperable CDS. The specification undergoing ballot consists of a guide for implementing the vMR using HL7 v2 messages.

IAPMO (ASSE Chapter) (ASSE International Chapter of IAPMO)

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BSR/ASSE Series 7000-201x, PQ Standard for Residential Potable Water Fire Protection Systems Installers and Inspectors for One and Two Family Dwellings (revision of ANSI/ASSE Series 7000-2013)

Stakeholders: Home owners, AHJs, plumbers, sprinkler fitters, home builders.

Project Need: The revision is in accordance with the normal revision cycle.

This standard applies to an individual who provides layout, detail, and calculations for residential potable-water fire-protection systems for one- and two-family dwellings and installs such systems. It also applies to an individual who inspects residential potable-water fire-protection systems for one- and two-family dwellings.

BSR/ASSE Series 13000-201x, Professional Qualifications Standard for Plumbing and Residential Mechanical Service Personnel (revision of ANSI/ASSE Series 13000-2015)

Stakeholders: Home owners, light commercial, AHJs, plumbers, HVAC technicians.

Project Need: This series of standards will be broadened to include those individuals who service, maintain, and repair both plumbing and residential mechanical systems.

This standard applies to an individual who services, maintains, and repairs plumbing systems or residential mechanical systems.

NEMA (ASC C78) (National Electrical Manufacturers Association)

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Rosslyn, VA 22209

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* BSR C78.54-201X, Standard for Electric Lamps - Specification Sheet for Tubular Fluorescent Replacement and Retrofit LED Lamps (new standard)

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

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

The purpose is to standardize the Tubular LED (TLED) Lamp specification sheet, or data reporting format, as the means of communication of critical lamp characteristics such as:
- intended use ballasts (if applicable);
- reference circuit (if applicable); and
- identify input voltage requirements (for use with mains voltage).

Other characteristics may include physical dimensions and/or temperature ratings for operation. This standard will cover all types of fluorescent replacement and retrofit TLED systems. The minimum defined contents and format of the specification sheet will be provided. Manufacturers can include additional information.

NEMA (ASC C8) (National Electrical Manufacturers Association)

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* BSR ICEA S-108-720-201x, Standard for Extruded Insulation Power Cables Rated above 46 through 500 KV AC (revision of ANSI ICEA S-108-720-2012)

Stakeholders: Cable industry.

Project Need: To revise the existing standard for extruded insulation power cables rated above 46 through 500 kV AC.

This standard applies to materials, constructions, and testing of crosslinked polyethylene (XLPE) and ethylene propylene rubber (EPR) insulated single-conductor shielded-power cables rated above 46 to 500 kV ac used for the transmission of electrical energy.

TAPPI (Technical Association of the Pulp and Paper Industry)

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Peachtree Corners, GA 30092

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Fax: (770) 446-6947

E-mail: standards@tappi.org

BSR/TAPPI T 812 om-2013 (R201x), Ply separation of solid and corrugated fiberboard (wet) (reaffirmation of ANSI/TAPPI T 812 om -2013)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to revise it if needed to address new technology or correct errors.

This method describes a laboratory test for evaluating the resistance to ply separation of solid or corrugated fiberboard after exposure to water. It is intended primarily to distinguish between boards fabricated with weather-resistant adhesives and those with non-weather-resistant adhesives.

BSR/TAPPI T 826 om-2013 (R201x), Short span compressive strength of containerboard (reaffirmation of ANSI/TAPPI T 826 om-2013)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to revise it if needed to address new technology or correct errors.

This method describes a procedure for determining the compressive resistance of containerboard. This method is intended for containerboard having a span-to-thickness ratio of 5 or less. This is equivalent to a grammage of between approximately 100 g/m2 (20 lb/1000 ft2) (1) and 440 g/m2 (90 lb/1000 ft2).

BSR/TAPPI T 836 om-2013 (R201x), Bending stiffness, four point method (reaffirmation of ANSI/TAPPI T 836 om-2013)

Stakeholders: Manufacturers of pulp, paper, packaging, or related products; consumers or converters of such products; and suppliers of equipment, supplies, or raw materials for the manufacture of such products.

Project Need: To conduct required five-year review of an existing TAPPI/ANSI standard in order to revise it if needed to address new technology or correct errors.

This procedure specifies the method of determining the bending stiffness, also called flexural rigidity, in the machine and cross directions, of corrugated board using four-point loading. The procedure may also be used for solid boards and paperboard. The method is applicable to boards with a bending stiffness of 0.5 - 200 Nm (4.4 - 1770 lbf • in.).

American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

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

ANSI-Accredited Standards Developers Contact Information

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

AAMI
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ADA (Organization)
American Dental Association

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Web: www.ada.org

AGA (ASC Z380)
American Gas Association

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AISI
American Iron and Steel Institute

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Phone: (202) 452-7100
Fax: (202) 452-1039
Web: www.steel.org

AMCA
Air Movement and Control Association

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Web: www.amca.org

ANS
American Nuclear Society

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La Grange Park, IL 60526
Phone: (708) 579-8268
Fax: (708) 579-8248
Web: www.ans.org

APCO
Association of Public-Safety Communications Officials-International

351 N. Williamson Boulevard
Daytona Beach, FL 32114
Phone: (920) 579-1153
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ASABE
American Society of Agricultural and Biological Engineers

2950 Niles Road
Saint Joseph, MI 49085
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ASHRAE
American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

1791 Tullie Circle, NE
Atlanta, GA 30329
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ASNT
American Society for Nondestructive Testing

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Columbus, OH 43228-0518
Phone: (800) 222-2768 ext 241
Fax: (614) 274-6899
Web: www.asnt.org

ASTM
ASTM International

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

ATIS
Alliance for Telecommunications Industry Solutions

1200 G Street NW
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Washington, DC 20005
Phone: (202) 434-8840
Web: www.atis.org

AWEA
American Wind Energy Association

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Washington, DC 20005
Phone: (202) 580-6458
Web: www.awea.org

BHMA
Builders Hardware Manufacturers Association

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CSA
CSA Group

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CTA
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EOS/ESD
ESD Association

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ESTA
Entertainment Services and Technology Association

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HL7
Health Level Seven

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HPS (ASC N13)
Health Physics Society

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IAPMO (ASSE Chapter)
ASSE International Chapter of IAPMO

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IES
Illuminating Engineering Society

120 Wall St. 17th Floor
New York, NY 10005
Phone: (212) 248-5000
Web: www.ies.org

ISA (Organization)
International Society of Automation

67 Alexander Drive
Research Triangle Park, NC 27709
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Fax: (919) 549-8288
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NEMA (ASC C136)
National Electrical Manufacturers Association

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NEMA (ASC C78)
National Electrical Manufacturers Association

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NEMA (ASC C8)
National Electrical Manufacturers Association

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NEMA (ASC C82)
National Electrical Manufacturers Association

1300 N 17th St
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NETA
InterNational Electrical Testing Association

3050 Old Centre
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Portage, MI 49024
Phone: (269) 488-6382
Fax: (269) 488-3683
Web: www.netaworld.org

NSF
NSF International

789 N. Dixboro Road
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Web: www.nsf.org

PGMA
Portable Generator Manufacturers Association

1300 Sumner Avenue
Cleveland, OH 44115-2851
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SCTE
Society of Cable Telecommunications Engineers

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TAPPI
Technical Association of the Pulp and Paper Industry

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UL
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Web: www.ul.com

ISO & IEC Draft International Standards

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

Comments

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

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

AIR QUALITY (TC 146)

ISO/DIS 17735, Workplace atmospheres - Determination of total isocyanate groups in air using 1-(9-anthracenylmethyl)piperazine (MAP) reagent and liquid chromatography - 3/11/2018, $98.00

COSMETICS (TC 217)

ISO/DIS 11930, Cosmetics - Microbiology - Evaluation of the antimicrobial protection of a cosmetic product - 3/15/2018, $88.00

DENTISTRY (TC 106)

ISO/DIS 13017, Dentistry - Magnetic attachments - 1/21/2018, $53.00

ISO/DIS 27020, Dentistry - Brackets and tubes for use in orthodontics - 3/16/2018, $62.00

FLUID POWER SYSTEMS (TC 131)

ISO/DIS 4411, Hydraulic fluid power - Valves - Determination of pressure differential/flow characteristics - 1/22/2018, $53.00

GAS CYLINDERS (TC 58)

ISO/DIS 15995, Gas cylinders - Specifications and testing of LPG cylinder valves - Manually operated - 1/21/2018, $88.00

GEOGRAPHIC INFORMATION/GEOMATICS (TC 211)

ISO/DIS 19112, Geographic information - Spatial referencing by geographic identifiers - 1/22/2018, $71.00

HYDROGEN ENERGY TECHNOLOGIES (TC 197)

ISO/DIS 19884, Gaseous hydrogen - Cylinders and tubes for stationary storage - 3/12/2018, $134.00

ISO/DIS 22734, Hydrogen generators using water electrolysis process - Industrial, commercial, and residential applications - 3/15/2018, $119.00

ISO/DIS 19880-1, Gaseous hydrogen - Fuelling stations - Part 1: General requirements - 3/15/2018, $185.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/DIS 18828-5, Industrial automation systems and integration - Standardized procedures for production systems engineering - Part 5: Manufacturing change management - 3/15/2018, $88.00

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

ISO/DIS 29001, Petroleum, petrochemical and natural gas industries - Sector-specific quality management systems - Requirements for product and service supply organizations - 3/17/2018, $119.00

MECHANICAL VIBRATION AND SHOCK (TC 108)

ISO/DIS 14839-1, Mechanical vibration - Vibration of rotating machinery equipped with active magnetic bearings - Part 1: Vocabulary - 1/22/2018, $71.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 8299, Nuclear fuel technology - Determination of the isotopic and elemental uranium and plutonium concentrations of nuclear materials in nitric acid solutions by thermal-ionization mass spectrometry - 1/22/2018, $93.00

OPTICS AND OPTICAL INSTRUMENTS (TC 172)

ISO/DIS 9345, Microscopes - Interfacing dimensions for imaging components - 3/16/2018, $62.00

PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)

ISO 16900-5/DAmd1, Respiratory protective devices - Methods of test and test equipment - Part 5: Breathing machine, metabolic simulator, RPD headforms and torso, tools and verification tools - Amendment 1 - 3/16/2018, $29.00

PLASTICS (TC 61)

ISO/DIS 16770, Plastics - Determination of environmental stress cracking (ESC) of polyethylene - Full-notch creep test (FNCT) - 3/11/2018, $77.00

ISO/DIS 11359-3, Plastics - Thermomechanical analysis (TMA) - Part 3: Determination of penetration temperature - 12/9/2018, $33.00

PULLEYS AND BELTS (INCLUDING VEEBELTS) (TC 41)

ISO/DIS 5289, Agricultural machinery - Endless hexagonal belts and groove sections of corresponding pulleys - 1/19/2018, $40.00

ROAD VEHICLES (TC 22)

ISO/DIS 6621-5, Internal combustion engines - Piston rings - Part 5: Quality requirements - 3/11/2018, $67.00

SERVICE ACTIVITIES RELATING TO DRINKING WATER SUPPLY SYSTEMS AND WASTEWATER SYSTEMS - QUALITY CRITERIA OF THE SERVICE AND PERFORMANCE INDICATORS (TC 224)

ISO/DIS 20325, Service activities relating to drinking water supply and wastewater systems - Stormwater management - Guidelines for stormwater management in urban areas - 1/22/2018, $125.00

SMALL CRAFT (TC 188)

ISO/DIS 11812, Small craft - Watertight or quick draining recesses and cockpits - 3/17/2018, $107.00

TEXTILES (TC 38)

ISO/DIS 18692-1, Fibre ropes for offshore stationkeeping - Part 1: General specification - 3/15/2018, $112.00

TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)

ISO/DIS 11783-2, Tractors and machinery for agriculture and forestry - Serial control and communications data network - Part 2: Physical layer - 3/11/2018, $134.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/DIS 24102-1, Intelligent transport systems - ITS station management - Part 1: Local management - 3/17/2018, $125.00

ISO/DIS 24102-2, Intelligent transport systems - ITS station management - Part 2: Remote management of ITS-station communication units (ITS-SCUs) - 3/17/2018, $112.00

ISO/DIS 24102-3, Intelligent transport systems - ITS station management - Part 3: Service access points - 3/17/2018, $134.00

ISO/DIS 24102-4, Intelligent transport systems - ITS station management - Part 4: Station-internal management communications - 3/17/2018, $119.00

WATER QUALITY (TC 147)

ISO/DIS 21676, Water quality - Determination of selected active pharmaceutical ingredients, transformation products and other organic substances in water and treated waste water - Method using high performance liquid chromatography and mass spectrometric detection (HPLC-MS/MS or - HRMS) after direct injection - 1/21/2018, $102.00

WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 13588, Non-destructive testing of welds - Ultrasonic testing - Use of automated phased array technology - 3/17/2018, $93.00

ISO/IEC JTC 1, Information Technology

ISO/IEC 14443-2/DAmd3, Identification cards - Contactless integrated circuit cards - Proximity cards - Part 2: Radio frequency power and signal interface - Amendment 3: Dynamic power level management - 3/17/2018, $33.00

ISO/IEC DIS 18520, Information technology - Computer graphics, image processing and environmental data representation - Benchmarking of vison-based spatial registration and tracking methods for Mixed and Augmented Reality (MAR) - 3/15/2018, $125.00

ISO/IEC DIS 9798-2, Information technology - Security techniques - Entity authentication - Part 2: Mechanisms using authenticated encryption - 3/16/2018, $62.00

IEC Standards

2/1886/CDV, IEC 60034-18-41/AMD1 ED1: Amendment 1 - Rotating electrical machines - Part 18-41: Partial discharge free electrical insulation systems (Type I) used in electrical rotating machines fed from voltage converters - Qualification and quality control tests, 2018/3/23

26/646/CD, IEC 60974-1/AMD1 ED5: Arc welding equipment - Part 1: Welding power sources, 2018/3/23

26/647/CD, IEC 60974-10 ED4: Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, 2018/3/23

34/466/CDV, IEC 62386-220 ED1: Digital addressable lighting interface - Part 220: Particular requirements for control gear - Centrally Supplied Emergency Operation (device type 19), 2018/3/23

47A/1041/NP, PNW 47A-1041: Future 62228-7: Integrated circuits - EMC evaluation of transceivers - Part 7: CXPI transceivers, 2018/3/23

47A/1040/CD, IEC 62228-3 ED1: Integrated circuits - EMC evaluation of transceivers - Part 3: CAN transceivers, 2018/3/23

47A/1037/CDV, IEC 61967-1 ED2: Integrated circuits - Measurement of electromagnetic emissions - Part 1: General conditions and definitions, 2018/3/23

59/675/CDV, IEC 60704-3 ED3: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 3: Procedure for determining and verifying declared noise emission values, 2018/3/23

65E/574/CDV, IEC 62769-115-2 ED1: Field Device Integration (FDI) - Part 115-2: Profiles - Modbus-RTU, 2018/3/23

86B/4109/CDV, IEC 60869-1 ED5: Fibre optic interconnecting devices and passive components - Fibre optic passive power control devices - Part 1: Generic specification, 2018/3/23

91/1481/CDV, IEC 61191-1 ED3: Printed board assemblies - Part 1: Generic specification - Requirements for soldered electrical and electronic assemblies using surface mount and related assembly technologies, 2018/3/23

100/3011/CDV, IEC 62680-1-3 ED3: Universal serial bus interfaces for data and power - Part 1-3: Common components - USB Type-CTM Cable and Connector Specification, 2018/3/23

119/202/CD, IEC 62899-204 ED1: Printed electronics - Part 204: Materials - Insulator ink, 2018/2/23

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

Membership in the SCTE Standards Program is open to all directly ad 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

Truss Plate Institute (TPI)

The reaccreditation of the Truss Plate Institute (TPI), an ANSI member and Accredited Standards Developer (ASD) has been approved at the direction of ANSI's Executive Standards Council, under its recently revised operating procedures for documenting consensus on TPI-sponsored American National Standards, effective December 28, 2017. For additional information, please contact: Mr. Jay P. Jones, P.E., Technical Director, Truss Plate Institute, 281 North Lee Street, Suite 312, Alexandria, VA 22314; phone: 703.683.1010; e-mail: jpjones@tpinst.org.

Reaccreditation

IEEE

Comment Deadline: February 5, 2018

IEEE, an ANSI Organizational Member, has submitted revisions to its currently accredited IEEE-SA Standards Board Operating Manual and IEEE-SA Standards Board Bylaws for documenting consensus on IEEE-sponsored American National Standards, under which it was last reaccredited in 2017. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. David Ringle, Director, SA Governance, IEEE Standards Association, 445 Hoes Lane, Piscataway, NJ 08854-4141; phone: 732.562.3806; e-mail: d.ringle@ieee.org. You may view/download a copy of the revisions during the public review period at the following URL: www.ansi.org/accredPR Please submit any public comments on the revised procedures to IEEE by February 5, 2018, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: Jthompso@ANSI.org).

U.S. Technical Advisory Groups

Approval of Accreditation

U.S. TAG to ISO/JTC 1/SC 34 – Document Description and Processing Languages

ANSI's Executive Standards Council (ExSC) has formally approved the accreditation of the U.S. Technical Advisory Group to ISO/JTC 1/SC 34, Document Description and Processing Languages under the Model Operating Procedures for U.S. Technical Advisory Groups to ANSI for ISO Activities (Annex A of the ANSI International Procedures) with the National Information Standards Organization (NISO) serving as TAG Administrator, effective January 3, 2018. For additional information, please contact: Mr. Todd Carpenter, Executive Director, National Information Standards Organization, 3600 Clipper Mill Road, Suite 302, Baltimore, MD 21212; phone: 301.654.2512; e-mail: tcarpenter@niso.org.

Approval of Reaccreditation

U.S. TAG to ISO TC 215 – Health Informatics

The reaccreditation of the U.S. TAG to ISO TC 215, Health Informatics, has been approved at the direction of ANSI's Executive Standards Council, under the TAG's recently revised operating procedures, effective December 28, 2017. For additional information, please contact: Ms. Diana Warner, MS, RHIA, CHPS, FAHIMA, Director, Informatics, Information Governance & Standards, American Health Information Management Association, 233 N. Michigan Avenue, 21st Floor, Chicago, IL 60601; phone: 312.233.1519; e-mail: diana.warner@ahima.org.

Withdrawal of Accreditation

U.S. TAG to ISO TC 279 – Innovation Management

As no commitment of interest was received in response to the October 20, 2017 announcement of the relinquishment by the American Society for Quality of its role as TAG Administrator to the U.S. Technical Advisory Group to ISO/TC 279, Innovation Management, the accreditation of the U.S. TAG to ISO/TC 279 is formally withdrawn, effective December 28, 2017. For additional information, please contact ANSI's ISO Team at isot@ansi.org.

Changes for RP-16-10 (reaffirmed 2017), *Nomenclature and Definitions for Illuminating Engineering*

New terms:

2.19 Mie scatter

Dispersion of electromagnetic radiation by particles that are larger than the wavelength of the radiation. Mie scatter is nearly wavelength independent (i.e., all wavelengths are scattered equally).

In Mie scatter, the amount of forward scatter (in the direction of propagation) is much greater than the amount of backward scatter. In the human eye, most of the scattered light is from Mie Scatter.

Also known as *large-particle scatter*.

2.20 Rayleigh scatter

Dispersion of electromagnetic radiation by particles that are much smaller than the wavelength of the radiation. The amount of scatter varies inversely as the fourth power of the wavelength, resulting in short wavelengths being scattered far more than longer wavelengths.

In Rayleigh scatter, the relative amounts of forward scatter (in the direction of propagation) and backward scatter are nearly equal.

Also known as *small-particle scatter*.)

4.3.1.18 gamut area index

Gamut area index (GAI), introduced by Rea et al.,* is based on the area of the polygon formed by the eight test-color samples (TCSs) in the CIE 1976 uniform color space under the light source of interest, relative to the polygon formed by the TCSs when illuminated by an equal energy spectrum (EES) light source.

* Rea MS, Freysinnier-Nova JP. Color rendering: A tale of two metrics. Color Research and Application. 2008;33(3):192-202. doi:10.1002/col.20399

4.7.2 centroid wavelength (λ_c)

The wavelength at the weighted center of the spectrum of a monochromatic device under test (DUT); this is the weighted average of each wavelength and is defined by:

$$\lambda_c = \left(\int_{\lambda_1}^{\lambda_2} \lambda \cdot S(\lambda)\,\mathrm{d}\lambda\right) / \left(\int_{\lambda_1}^{\lambda_2} S(\lambda)\mathrm{d}\lambda\right),$$

where λ is the wavelength and $P(\lambda)$ is the spectral power distribution of the monochromatic DUT.

5.9.11.4.3 threshold increment (TI)

A measure of disability glare expressed as the percentage increase in contrast required between an object and its background for the object to be seen equally well with a source of glare present.

Note: Higher values of TI correspond to greater disability glare.

5.9.11.9 equivalent veiling luminance

The luminance that would need to be superimposed on a scene in object space to reduce the scene's contrast by an amount equal to the added retinal illuminance from scattered light on the scene's retinal

image. It is most commonly used to describe the contrast-reducing effect of a glare source in the field of view. Sometimes also called v*eiling luminance* or *disability glare*.

6.3.1.5 halogen infrared (HIR)

Lamp technology that improves the efficiency of a halogen filament lamp by employing a film on the halogen capsule that directs heat from the filament back onto the filament, resulting in improved lamp efficacy.

6.11 organic light emitting diode (OLED)

A thin-film light emitting diode composed of carbon-based material layered between two electrode surfaces and which serves as a diffuse area source.

7.2.2 bidirectional scatter distribution function (BSDF)

The general mathematical function or matrix of data that describes the directional scattering of light by a surface or complex glazing system through both reflection and transmission across input and output angles.

In practice, this phenomenon is usually split into the reflected and transmitted components, which are quantified in a BRDF (bidirectional reflectance distribution function) and BTDF (bidirectional transmittance distribution function). (See **Sections 7.3.3.17** and **7.5.3.16**, respectively.)

7.5 3.17 visible transmittance (VT or T_{vis})

The fraction of incident luminous flux that is transmitted through a material.

In daylighting: The fraction of luminous flux in the solar spectrum that is transmitted through a material or glazing system.

Also sometimes known as *visible light transmittance (VLT)*.

8.5.1 colorimeter

An instrument that measures color in units specific to a color space such as the CIE 1931 Chromaticity Diagram, the CIE 1964 Chromaticity Diagram, CIELAB, or CIELUV. (See **Sections 4.6.3.1, 4.10.2, and 4.10.1**.)

8.6.4.3 center-beam candlepower (CBCP)

The luminous intensity along the geometric centerline of a directional light source. The assumption in application is usually that the centerline candlepower is also the maximum candlepower. Also called *center-beam intensity*.)

8.6.5 isoluminance line

A line on a surface that shows all the points where the luminance is the same for a given position of an observer and light source(s) in relation to the surface.

9.4.10 luminaire efficacy

The total luminous flux (lumens) emitted by a luminaire divided by the input wattage of the luminaire, expressed in lumens per watt.

10.3.14 reflected direct luminaires

A class of luminaires that make use of light reflecting off the interior surface of a recessed housing from concealed or obscured sources.

Typically, these luminaires, which are similar in performance to lensed or diffused luminaires, have perforated metal baskets backed with diffuse acrylic to hide the lamps from direct view and to direct light onto the upper reflector surface. The upper reflector is commonly a smooth surface with a matte, high-reflectance finish.

Also called *recessed indirect*, *direct-indirect troffer*, or *basket fixture*.

10.3.15 track lighting

A lighting equipment system consisting of an electrified power channel (track) and removable luminaires (lamp holders, track heads) that can be mechanically attached anywhere along the power channel. The luminaires can be repositioned and re-aimed as desired.

10.5.16 annual sunlight exposure

In daylighting: The fraction or percentage of the horizontal work plane that exceeds a specified direct sunlight illuminance level more than a specified number of hours per year over a specified daily schedule with all operable shading devices retracted.*

* IES LM-83-12, *IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE)*. New York: Illuminating Engineering Society; 2012.

10.5.17 spatial daylight autonomy (sDA)

A measure of daylight illuminance sufficiency for a given area, reporting a percentage of floor area that exceeds a specified illuminance (e.g., 300 lux) for a specified percentage of the analysis period.*

* IES LM-83-12, *IES Spatial Daylight Autonomy (sDA) and Annual Sunlight Exposure (ASE)*. New York: Illuminating Engineering Society; 2012.

10.7 interior lighting control

10.7.1 adaptive lighting

Lighting with the ability to automatically adjust light level and spectral content based on environmental conditions in order to optimize space, human, and building performance.

10.7.2 lighting zone

Any number of individual luminaires in a space that, when combined, form a logical control group. (Sometimes called a *channel* or a *lighting control zone*.)

10.7.3 occupancy sensor

A control device that detects occupant presence and automatically turns luminaires and/or other equipment on and, after a preset delay during which no presence is detected, turns them off. Also called a *motion detector*.

10.7.4 vacancy sensor

A type of occupancy sensor that requires the luminaires to be turned on manually. (See also **Section 10.7.3 occupancy sensor**.)

11.7 exterior lighting control

11.7.1 light trespass

The encroachment of light, typically across property boundaries, causing annoyance, loss of privacy, or other nuisance.

11.7.2 Lighting Zone

One of several categories (descriptive and/or prescriptive) that designate outdoor ambient light levels. (Refer to lighting zone guidelines in the Model Lighting Ordinance User Guide, http://www.darksky.org/our-work/public-policy/mlo/.)

Changing seven existing terms and definitions:

3.10.2 ~~values of spectral luminous efficiency for photopic vision, *V*(λ)~~ CIE photopic luminous efficiency function, *V*(λ) *[replacing the term and its definition]*

~~Values at 10-nm intervals were adopted by the International Commission on Illumination in 1924 and by the International Committee for Weights and Measures (CIPM) in 1933 as a basis for the establishment of photometric standards of types of sources differing from the primary standard in spectral distribution of radiant flux. Definitive values at one-nanometer intervals were obtained by interpolation, extrapolation, and smoothing, and were adopted by the CIE in 1970[42] and by the CIPM in 1970. These values are identical to those of the color matching function y-bar ($\bar{y}$) of the CIE 1931 Standard Colorimetric Observer.~~

~~*Note:* These standard values of spectral luminous efficiency were determined by observations with a two-degree photometric field having a moderately high luminance; consequently, photometric evaluations based upon them do not apply exactly to other conditions of observation. Watts weighted in accord with these standard values are often referred to as *light-watts*.~~

The spectral luminous efficiency function for photopic vision. It was adopted in 1924 by the International Commission on Illumination (CIE) and in 1970 by the International Committee of Weights and Measures (CIPM).[42] It is based on a 2° viewing field and principles of heterochromatic photometry and was incorporated into the CIE 1931 Colorimetric Observer as the $\bar{y}$ function.

Unless other indicated, the values used for spectral luminous efficiency in photopic vision are the values agreed upon internationally in 1924 by the CIE, completed by interpolation and extrapolation, and recommended by the CIPM in 1972.

3.10.2.1 CIE 1988 2° modified spectral luminous efficiency function for photopic vision, $V_M(\lambda)$ *[replacing the definition]*

~~A luminous efficiency function that closely represents the average color-normal observer based on the V_{os} modification of Judd's modification to the V (λ) function. $V_M(\lambda)$ is a supplement to, and not a replacement of, the V(λ) function and differs from V(λ) only at wavelengths below 460 nm.[42] (see **Table 13.9**) This function principally is of interest in the visual sciences.~~

A supplemental modification of V(λ), adopted by the International Commission on Illumination (CIE) in 1990.[42] This function is principally of interest in the visual sciences. (See **Table 13.9**.)

3.10.3 ~~values of spectral luminous efficiency for scotopic vision, *V'*(λ)~~ CIE scotopic luminous efficiency function, *V'*(λ) *[replacing the term and its definition]*

~~Values at 10-nm intervals (see **Table 13.7**) were provisionally adopted by the International Commission on Illumination in 1951.~~

~~*Note:* These values of spectral luminous efficiency were determined by observation by young dark-adapted observers using extra-foveal vision at near-threshold luminance.~~

The spectral luminous efficiency function for scotopic vision, adopted by the International Commission on Illumination (CIE) in 1951. (See **Table 13.7**.)

4.10 ~~CIE uniform color spaces~~ color space *[The previous term was just a heading; it had no definition. Now it is a general term with a definition. The terms that follow it, defining specific color spaces, remain unchanged.]*

A mathematical and/or graphical representation of colors. Color spaces can be devised that represent all perceivable colors or only those colors that can be realized on a particular display or print medium (usually called "gamut"). The loci of colors may be expressed in different formats, such as chromaticity coordinates (CIE) or perceptual descriptors (e.g., hue, saturation, brightness; or hue, chroma, luminance).

9.4.8 luminaire efficiency *[replacing the definition]*

~~The ratio of luminous flux (lumens) emitted by a luminaire to that emitted by the lamp or lamps used therein.~~

The luminous flux emitted by a luminaire, divided by the luminous flux emitted by the source(s). Sometimes called *light output ratio (LOR)*.

10.3.12 low bay lighting *[change in details]*

Interior lighting where the roof trusses or ceiling height is approximately ~~7.6~~ 6.1meters (~~25~~ 20 feet) or less above the floor.

10.3.13 high bay lighting *[change in details]*

Interior lighting where the roof trusses or ceiling height is greater than approximately ~~7.6~~ 6.1 meters (~~25~~ 20 feet) above the floor.

Add to Index:

blackbody curve, see *blackbody (Planckian) locus*

contrast sensitivity, *see luminance contrast sensitivity*

contrast threshold, see *brightness contrast threshold*

light output ratio, see *luminaire efficiency*

motion detector, see *occupancy sensor*

NETA ETT-20XX Standard for Certification of Electrical Testing Technicians

D2 – List of Substantive Changes Resulting from Initial Ballot and Public Review

Notes regarding revisions:

1. Where sections are added or deleted and the addition or deletion impacts the numbering of remaining sections following the insertion or deletion, the remaining sections have been renumbered accordingly.
2. Strikethrough indicates deletion of text.
3. Underline indicates insertion of text.

2. Definitions and Acronyms

RLC Acronym for resistive, inductive, capacitive.

3.2 ETT Certified Assistant Level 2

The ETT Certified Assistant Level 2 performs limited testing and service work while generally requiring direct supervision. The individual has sufficient knowledge and experience to be qualified for assuring the safety of him/herself. Safety knowledge includes an understanding of lockout/tagout procedures and requirements, arc-flash and shock ~~hazard analyses~~ risk assessments, and other facets of hazardous electrical energy control procedures.

3.2.5 Tables 1 and~~,~~ 2~~, 3, and 4~~ contain specific requirements. Requirements for each level of certification are inclusive of previous levels.

3.3.5 Tables 1, 2, and 3~~, and 4~~ contain specific requirements. Requirements for each level of certification are inclusive of previous levels.

3.4 The ETT Senior Certified Level 4 is capable of supervising~~es~~ large projects and multiple crews and can work independently. Individual performs complex investigations, tests, and evaluations, and prepares written reports as needed.

3.4.5 Tables 1, 2, 3, and 4 contain specific requirements. Requirements for each level of certification are inclusive of previous levels.

4.2.2 Representative training curricula shall include, but not be limited to, the subjects contained in Tables 1 and 2.

4.3.4 Representative training curricula shall include, but not be limited to, the subjects contained in Tables 1, 2, and 3.

7.1.2 The certifying body ~~S~~shall detail its policies and procedures in documents available in electronic or print format. These documents shall be reviewed on a regular basis with a record of such review maintained.

~~**7.1.4** The certifying body shall have no ownership of the company which employs the certified individual.~~

7.1.5~~4~~ The certifying body shall not be owned in whole ~~and/~~or in part by the company which employs the certified individual.

~~**7.1.6 1.** The certifying body shall meet the standards set forth in *Principles of Fairness: An Examining Guide for Credentialing Boards.*~~ [Renumber remaining sections accordingly.]

Table 1 Profile of Electrical Testing Technicians, Certified Technician Level 3, Typical Activities

- ~~Test for de-energized equipment~~

Table 2 Level 2 Certified Assistant Technician, Knowledge, Skill and Ability Requirements

1.D.1 Recognize and assess Arc-Flash ~~Hazard/Risk~~PPE Categories and Shock Protection Boundaries
1.D.2 Apply correct use, storage, inspection, and testing of personal protective equipment

Table 3 Level 3 Certified Technician, Knowledge, Skill, and Ability Requirements in Addition to Level 2

1.D.1 Recognize and assess Arc-Flash ~~Hazard/Risk~~PPE Categories and Shock Protection Boundaries
1.D.2 Apply correct use, storage, inspection, and testing of personal protective equipment
1.I.3 Apply technical requirements of ANSI/NETA ~~Acceptance and Maintenance Testing S~~standards

NETA ETT-20XX Standard for Certification of Electrical Testing Technicians

D2 – List of Substantive Changes Resulting from Initial Ballot and Public Review

Table 4 Level 4 Certified Senior Technician, Knowledge, Skill, and Ability Requirements in Addition to Levels 2 and 3

1.D.1 Recognize and assess Arc-Flash ~~Hazard/Risk~~PPE Categories and Shock Protection Boundaries

1.D.2 Apply correct use, storage, inspection, and testing of personal protective equipment

1.I.3 Apply technical requirements of ANSI/NETA ~~Acceptance and Maintenance Testing S~~standards

Appendix B References

The following references include ANSI/NETA standards, which offer additional reference lists of relevant industry standards.

Appendix B References

Principles of Fairness: An Examination Guide for Credentialing & Registration Boards
The Council on Licensure, Enforcement & Regulation (CLEAR)
108 Wind Haven Drive, Suite A
Nicholasville, KY 40356
859.269.1289
www.clearhq.org

Global Changes

Capitalize all instances of Electrical Testing Technician(s) and Electrical Test Technician(s).

NSF/ANSI 14-2016b - Plastics piping system components and related materials

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9 Quality assurance

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Table 9.37 – PEX geothermal pipe and fittings frequency

Test	Pipe[1]	Fittings[2]	U-bends
hydrostatic pressure test	—	—	annually
chemical resistance	annually	—	—
thermocyclic	annually	annually	—
pressure test	annually	annually	—
constant tensile load joint test	annually	annually	—
product standard	NSF 358-3	NSF 358-3	NSF 358-3

[1]PEX pipe shall conform to ASTM F876 or CSA B137.5 and follow the respective QC requirements.

[2]PEX fittings shall conform to ASTM F877, ASTM F1055, ASTM F1807, ASTM F1960, ASTM F1961, ASTM F2080, ASTM F2159, ASTM F2159, or CSA B137.5. and follow the respective QC requirements

BSR/UL 263, Standard for Safety for Fire Tests of Building Construction and Materials

1. (A) Removal of the use of thermometers to measure temperatures on the unexposed surfaces, (B) Introduction of the use of a cotton pad test to determine conditions sufficient to ignite cotton waste on unexposed surfaces and (C) Expansion of the requirement to reference compliance with ASTM E2749 in reports describing fire tests on beam assemblies

PROPOSAL

5.4A.8 The cotton pad test shall not be conducted when the temperature on the unexposed surface, in the vicinity of the opening, has exceeded 572°F (300°C).

2. Introduction of tests on ceiling membranes

PROPOSAL

3.3 Temperatures of unexposed surfaces of floors, roofs, walls, ~~and~~ partitions, and ceilings

16.1 Application

16.1.1 This test is applicable to ceiling membranes and requires application of the fire exposure to the underside of the specimen under test.

~~16.1.2 Ceiling membranes consist of panels or tile, their support and mounting elements such as screws, adhesive and grid system as well as any service penetrations and their elements that are tested independently for fire-resistance.~~

~~16.1.3 A Ceiling Membrane classification obtained by this test based is applicable to a ceiling membrane when it is used with a ceiling assembly that does not retard heat flowing through the ceiling membrane more than the conditions with which it was tested.~~

~~16.1.4 A ceiling assembly includes the basic components of the overhead structure including the ceiling membrane, the structure above the membrane, insulation and any elements on the top side of the structural elements such as the roof or flooring.~~

16.2.4 The perimeter of the test specimen shall be secured to the walls of the furnace or

a furnace test frame with all provisions for expansion relief located within the area of the sample.

16.3.1.1 The fire test shall be conducted in accordance with Section 3, Control of Fire Tests with the thermocouple pads ~~furnace pressure~~ in accordance with 16.3.2.

3. Introduction of measuring and reporting furnace pressure

PROPOSAL

~~APPENDIX D~~

~~AD1 Rationale for Measuring and Reporting Furnace Pressure~~

~~The measuring and reporting of furnace pressure were introduced in 2017. The inclusion of these requirements was in response to the potential expanded use of data from UL 263 in applications beyond the USA. The measurement and reporting of furnace pressure is similar to requirements in Standard CAN/ULC-S101-07.~~

~~A minimum of two pressure probes are specified for both horizontal and vertical specimens. The minimum of two pressure probes provides a means to improve the confidence in the measurements. It is reported in ISO 834-1 that a linear pressure gradient of approximately 0.03 inches of water (8 Pa) per 39 inches (1 m) exists in furnaces.~~

~~Furnace pressure is specified in standards similar to UL 263 in Asia, Australia and Europe. For example, Standard ISO 834-1:1999, Fire-resistance tests — Elements of building construction — Part 1: General requirements, contains the following requirements for furnace pressure:~~

~~For vertical elements - The furnace shall be operated such that a pressure of zero is established at a height of 20 inches (500 mm) above the notional floor level. However the pressure at the top of the test specimen shall not be greater than 0.08 inches of water (20 Pa), and the height of the neutral pressure plane shall be adjusted accordingly.~~

~~For horizontal elements - The furnace shall be operated such that a pressure of 0.08 inches of water (20 Pa) is established at a position 4 inches (100 mm) below the underside of the test specimen or the notional ceiling level when testing beams.~~

~~The addition of the measurement and reporting requirements will ensure, that should a proposal to specify a furnace magnitude develop, a data base and operating experience will be available to assess the merits of the proposal.~~

BSR/UL 1598, Standard for Safety for Luminaires

1. Revise requirements for combination HID/incandescent lamp replacement marking for remote ballasted HID luminaires

Table 20.1.1
List of required markings

Note - The following table only includes entries being revised. Table 20.1.1 is not shown in its entirety.

Item	User maintenance	Text	Format	Clause reference
3.14.1	**CAUTION - RISK OF FIRE. FOR USE WITH:**		S24-L1	9.6.3.1
	[ ] HID (In the brackets insert HID Lamp replacement marking required by Clause 9.)			
	[ ] Incandescent - USE __ W MAX TYPE __ (In the brackets insert incandescent lamp replacement marking required by Clause ~~9~~ 7.)			

2. Revise requirements for Rain and Sprinkler Test Methods

16.5.2.7 Immediately after the rain test, the luminaire shall:

(a) withstand the dielectric voltage-withstand test of Clause 17.1;

(b) not have permitted water to enter and accumulate in quantities sufficient to interfere with the operation of the luminaire or to create a hazard; and

(c) not have permitted water to contact electrical parts, except lamps or components suitable for the condition. Drops of water ~~might~~ are permitted to be present on the insulation of non-braided thermoplastic insulated wire. The insulation on non-braided thermoplastic insulated wire shall not be in a pool of water unless the insulation is identified as suitable for immersion.

16.5.3.8 Immediately after the sprinkler test, the luminaire shall:

(a) withstand the dielectric voltage-withstand test of Clause 17.1;

(b) not have permitted water to enter and accumulate in quantities sufficient to interfere with the operation of the luminaire or to create a hazard; and

(c) not have permitted water to contact electrical parts, except lamps or components suitable for the condition. Drops of water ~~might~~ are permitted to be present on the insulation of non-braided thermoplastic insulated wire. The insulation on non-braided thermoplastic insulated wire shall not be in a pool of water unless the insulation is identified as suitable for immersion.

3. Add requirements for luminaires for use in clothes closets in Clause 12.7 (USA)

12.7.1.1 (USA) In the United States, the requirements in Clause 12.7 (USA) apply to both fluorescent and LED surface-mounted luminaires for use in clothes closet~~s~~ storage spaces.

12.7.2.1.1 (USA) In the United States, fluorescent and LED surface-mounted luminaires intended for use in clothes closet storage spaces shall comply with the surface ceiling temperature test of Clause 14.2 with glass fibre insulation batting positioned over and in contact with the entire luminaire exposed surface. The insulation batting shall be Rsi 1.4 to Rsi 1.9 (R8 to R11), in any convenient thickness.

12.7.2.1.2 (USA) In the United States, the glass fibre batting shall be secured in a manner that does not compress the insulation. The insulation may be cut or applied in sections to provide contact with the full exterior surface of the luminaire ~~provided that there is a minimum 216 mm (8.5 in) applied thickness~~.

7. Revise polymeric material requirements for LED optics

~~5.7.1.2.1 The optic or lens of an LED luminaire that serves as an enclosure shall comply with the minimum flammability requirement in Clause 5.7.1.2(a), or the minimum enclosure flammability requirement for LED optics for fixed equipment in accordance with UL 8750 and CSA C22.2 No. 250.13.~~

9. Clarify requirements for the use of flexible cord and attachment plugs for connecting luminaires to the branch circuit

6.15.1.1 A luminaire shall be provided with a means of connection to a single branch circuit and shall have one or more of the following:

(a) conductors, when mounted on or over an outlet box;

(b) provision for connection of conduit as specified in Clause 6.15.2;

(c) a length of a flexible cord as specified in Clause 10.6;

(d) tap conductors as specified in Clause 11.6.2;

(e) a pressure or screw terminal block;

(f) provision for a proprietary wiring system, and be marked in accordance with Table 20.1.1, Item 1.12, or installation instructions in accordance with Table 20.1.1, Item 1.33; ~~or~~

(g) provision for connection of cable~~;~~ or

(h) (CAN) a length of flexible cord as specified in Clause 8.3.3 (CAN).

10.6.3 A fluorescent, HID, or LED pendant luminaire designed for a chain, cable, hook, or similar means of suspension and intended to be mounted directly below an outlet ~~box may~~ is permitted to be provided with~~:~~ a flexible power cord.

~~(a) a flexible cord of at least a hard-usage type, terminating in a grounding type attachment plug; or~~

~~(b) a jacketed flexible cord of at least a not-for-hard-usage type, provided with a strain relief and a canopy.~~

10.6.4 Flexible cord provided with an attachment plug cap shall be at least of hard-usage type.

10.6.6 A luminaire that can be adjusted, after installation, to change the angle of light, and where the supply connection point is on the adjustable portion, ~~may~~ is permitted to be provided with one of the following:

(a) a cord bushing and a length of flexible cord of hard-usage type or heavier for connection to branch circuit conductors;

(b) a length of flexible cord of hard-usage type or heavier with a grounding type attachment plug or cord connector; or

(c) a junction box cord grip bushing without a length of flexible cord.

10. Add requirements for recessed luminaires for installation in air-handling spaces

11.1.5 A recessed luminaire with polymeric ~~enclosure, housing, or junction box~~ parts intended to be installed where these parts are exposed to air-handling spaces* ~~and marked in accordance with Clause 11.8.5.3~~ within a building shall comply with the heat and smoke release requirements in UL 2043 and ~~the requirements~~ marked in accordance with Clause ~~11.8.5.2~~ 11.8.5.3.

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

11.8.5.2 A luminaire that is provided with a polymeric recessed housing shall be marked: "For use in non-fire-rated installations only" and "For use in one- and two-family dwellings only" ~~or "Not for use in environmental air-handling spaces"~~, in accordance with Table 20.1.1, Items 1.26 and 1.39.

11.8.5.3 A luminaire that is provided with ~~a~~ polymeric ~~recessed enclosure, housing, or junction box that complies~~ parts intended to be installed where these parts are exposed to air-handling spaces within a building and in compliance with Clause 11.1.5 ~~shall~~ is permitted to be marked: ~~"For use in non-fire-rated installations only" and~~ "Exposed non-metallic materials suitable for use in air-handling spaces", in accordance with Table 20.1.1, Items ~~1.26 and 1.39~~.1.

Table 20.1.1
List of required markings

Note - The following table only includes entries being revised. Table 20.1.1 is not shown in its entirety.

Item	Installation instructions	Text	Format	Clause reference
1.39	**FOR USE IN ONE- AND TWO-FAMILY DWELLINGS ONLY** ~~or **NOT FOR USE IN ENVIRONMENTAL AIR-HANDLING SPACES**~~		S16-L3	11.8.5.2
1.39.1	**EXPOSED NON-METALLIC MATERIALS SUITABLE FOR USE IN AIR-HANDLING SPACES**		S16-L3	11.8.5.3

11. Add supplementary requirements for LED luminaires

9A.3.1 A printed wiring board shall comply ~~with requirements in Clause 4.1 and shall additionally comply~~ with the requirements in UL 8750 and CSA C22.2 No. 250.13.

~~**9A.4 LED drivers, LED arrays (modules), LED control modules, and LED packages**~~

~~9A.4.1 An LED driver, LED array (module), LED control module, and LED package shall comply with the requirements in Clause 4.1.~~

14. Add standard references to Annex A

Table A.1
UL, CSA, IEC, NMX, and NOM Standards for components
Note - The following table only includes entries being revised. Table A.1 is not shown in its entirety.

Component type	UL Standard	CSA Standard	IEC Publication (shall be replaced by UL and/or CSA Standard)	NMX or NOM Standard	Clause reference
LED drivers, LED arrays (modules), LED control modules, and LED packages	*Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products* UL 8750	C22.2 No. 250.13 *Light Emitting Diode (LED) Equipment for Lighting Applications*			~~9A.4.1~~

15. Add requirements for LED Type Non-IC inherently protected recessed luminaires

Table 11.7.1.1
Recessed luminaire temperature tests
(See Clauses 11.7.1.1 and 11.7.1.6)

Type	Fluorescent		Incandescent and LED				HID		
	Non-IC	IC	Non-IC	Non-IC marked spacings	IC	IC inherently protected/ LED non-IC inherently protected	Non-IC	Non-IC marked spacings	IC
Normal temperature tests									
Test Clause	14.5	14.7	14.5	14.6	14.7	14.8	14.5	14.6	14.7
Abnormal temperature tests									
Insulation test			~~15.2~~	15.3.1*			15.2	15.3.1	
Reduced spacings test				15.3.2*				15.3.2	
Overlamping test					15.4.2*				
Mislamping test					15.4.3*				

* These tests apply to incandescent recessed luminaires only.

19. Revise flammability requirements for an LED lens and diffuser

5.7.1.2 An enclosure of polymeric material where all live parts are insulated or permanently spaced more than 0.8 mm (0.032 in) from the enclosure shall:

(a) have a minimum ~~V-0~~ 5VA flammability rating or comply with the five-inch flame test of Clause 16.3;

(b) have a temperature rating equal to or greater than its maximum operating temperature in the luminaire;

(c) comply with the polymeric impact test of Clause 16.41 for the parts that can be subject to impact after installation;

(d) comply with the mold stress-relief test of Clause 16.4 for molded or formed thermoplastic material;

(e) comply with the abnormal overlamping operation test in Clause 15.5; and

(f) be resistant to UV radiation where the material is exposed to the sun or to fluorescent or unjacketed metal halide light sources. The material shall be UV rated, tested in accordance with the UV exposure test of Clause 16.5.5, or comply with the exposure to UV light test of UL 746C.

5.7.1.2.2 An LED lens or diffuser that serves as an enclosure where all live parts are insulated or spaced more than 0.8 mm (0.032 in) from the lens or diffuser shall have a minimum V-0 flammability rating or comply with the V-0 flame test of Clause 16.26 and shall comply with the minimum flammability requirement in Clause 5.7.1.2~~(a)~~ (b) through (d).

21. Add requirements for luminaires for use in clothes closets in Clause 12.8 (CAN)

12.8.2.1.7 (CAN) In Canada, the pass criterion is if the temperature is stabilized at ~~60 °C (140 °F)~~ 90 °C (194 °F) or less.

26. Revise requirements for factory production-line tests and dielectric voltage-withstand testing (DVWT)

Annex I ~~(CAN)~~ (informative)
Factory Production Tests

I.1.8 The insulation resistance measurement of Clause I.1.7 should be made using a dc insulation tester capable of delivering the appropriate open circuit voltage (i.e., ~~250 or~~ 500 V dc), or other suitable equipment. The test voltage should be applied for a minimum duration of 1 s. The measured resistance should not be less than 2 MΩ. For safety reasons, the test should be performed with the luminaire disconnected from the power supply.

Standards Action Publishing Schedule for 2018, Volume No. 49

*The "Submit End" deadline applies to forms received by Monday, 5:00 PM ET

Based on the dates below, an ANSI-Developer can anticipate that a request made between the SUBMIT START date and the *SUBMIT END 5 PM date will appear in ANSI Standards Action on the SA PUBLISHED date.
The last three columns display the 30, 45 & 60-DAY PR (Public Review) END dates

ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
1	12/19/2017	12/25/2017	Jan-5	2/4/2018	2/19/2018	3/6/2018
2	12/26/2017	1/1/2018	Jan-12	2/11/2018	2/26/2018	3/13/2018
3	1/2/2018	1/8/2018	Jan-19	2/18/2018	3/5/2018	3/20/2018
4	1/9/2018	1/15/2018	Jan-26	2/25/2018	3/12/2018	3/27/2018
5	1/16/2018	1/22/2018	Feb-2	3/4/2018	3/19/2018	4/3/2018
6	1/23/2018	1/29/2018	Feb-9	3/11/2018	3/26/2018	4/10/2018
7	1/30/2018	2/5/2018	Feb-16	3/18/2018	4/2/2018	4/17/2018
8	2/6/2018	2/12/2018	Feb-23	3/25/2018	4/9/2018	4/24/2018
9	2/13/2018	2/19/2018	Mar-2	4/1/2018	4/16/2018	5/1/2018
10	2/20/2018	2/26/2018	Mar-9	4/8/2018	4/23/2018	5/8/2018
11	2/27/2018	3/5/2018	Mar-16	4/15/2018	4/30/2018	5/15/2018
12	3/6/2018	3/12/2018	Mar-23	4/22/2018	5/7/2018	5/22/2018
13	3/13/2018	3/19/2018	Mar-30	4/29/2018	5/14/2018	5/29/2018
14	3/20/2018	3/26/2018	Apr-6	5/6/2018	5/21/2018	6/5/2018
15	3/27/2018	4/2/2018	Apr-13	5/13/2018	5/28/2018	6/12/2018
16	4/3/2018	4/9/2018	Apr-20	5/20/2018	6/4/2018	6/19/2018
17	4/10/2018	4/16/2018	Apr-27	5/27/2018	6/11/2018	6/26/2018
18	4/17/2018	4/23/2018	May-4	6/3/2018	6/18/2018	7/3/2018
19	4/24/2018	4/30/2018	May-11	6/10/2018	6/25/2018	7/10/2018
20	5/1/2018	5/7/2018	May-18	6/17/2018	7/2/2018	7/17/2018
21	5/8/2018	5/14/2018	May-25	6/24/2018	7/9/2018	7/24/2018
22	5/15/2018	5/21/2018	Jun-1	7/1/2018	7/16/2018	7/31/2018
23	5/22/2018	5/28/2018	Jun-8	7/8/2018	7/23/2018	8/7/2018
24	5/29/2018	6/4/2018	Jun-15	7/15/2018	7/30/2018	8/14/2018
25	6/5/2018	6/11/2018	Jun-22	7/22/2018	8/6/2018	8/21/2018
26	6/12/2018	6/18/2018	Jun-29	7/29/2018	8/13/2018	8/28/2018
27	6/19/2018	6/25/2018	Jul-6	8/5/2018	8/20/2018	9/4/2018
28	6/26/2018	7/2/2018	Jul-13	8/12/2018	8/27/2018	9/11/2018
29	7/3/2018	7/9/2018	Jul-20	8/19/2018	9/3/2018	9/18/2018
30	7/10/2018	7/16/2018	Jul-27	8/26/2018	9/10/2018	9/25/2018
31	7/17/2018	7/23/2018	Aug-3	9/2/2018	9/17/2018	10/2/2018

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ISSUE	SUBMIT START	*SUBMIT END 5 PM	SA PUBLISHED	30-DAY PR END	45-DAY PR END	60-DAY PR END
32	7/24/2018	7/30/2018	Aug-10	9/9/2018	9/24/2018	10/9/2018
33	7/31/2018	8/6/2018	Aug-17	9/16/2018	10/1/2018	10/16/2018
34	8/7/2018	8/13/2018	Aug-24	9/23/2018	10/8/2018	10/23/2018
35	8/14/2018	8/20/2018	Aug-31	9/30/2018	10/15/2018	10/30/2018
36	8/21/2018	8/27/2018	Sep-7	10/7/2018	10/22/2018	11/6/2018
37	8/28/2018	9/3/2018	Sep-14	10/14/2018	10/29/2018	11/13/2018
38	9/4/2018	9/10/2018	Sep-21	10/21/2018	11/5/2018	11/20/2018
39	9/11/2018	9/17/2018	Sep-28	10/28/2018	11/12/2018	11/27/2018
40	9/18/2018	9/24/2018	Oct-5	11/4/2018	11/19/2018	12/4/2018
41	9/25/2018	10/1/2018	Oct-12	11/11/2018	11/26/2018	12/11/2018
42	10/2/2018	10/8/2018	Oct-19	11/18/2018	12/3/2018	12/18/2018
43	10/9/2018	10/15/2018	Oct-26	11/25/2018	12/10/2018	12/25/2018
44	10/16/2018	10/22/2018	Nov-2	12/2/2018	12/17/2018	1/1/2019
45	10/23/2018	10/29/2018	Nov-9	12/9/2018	12/24/2018	1/8/2019
46	10/30/2018	11/5/2018	Nov-16	12/16/2018	12/31/2018	1/15/2019
47	11/6/2018	11/12/2018	Nov-23	12/23/2018	1/7/2019	1/22/2019
48	11/13/2018	11/19/2018	Nov-30	12/30/2018	1/14/2019	1/29/2019
49	11/20/2018	11/26/2018	Dec-7	1/6/2019	1/21/2019	2/5/2019
50	11/27/2018	12/3/2018	Dec-14	1/13/2019	1/28/2019	2/12/2019
51	12/4/2018	12/10/2018	Dec-21	1/20/2019	2/4/2019	2/19/2019
52	12/11/2018	12/17/2018	Dec-28	1/27/2019	2/11/2019	2/26/2019