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American National Standards

Call for comment on proposals listed

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

Ordering Instructions for "Call-for-Comment" Listings

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

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

* Standard for consumer products

Comment Deadline: January 27, 2019

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

Addenda

BSR/ASHRAE Addendum br 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 new engineering units, a new mandate to accept writes of NULL to non-commandable properties, and intrinsic fault reporting to Lighting Output object type; deprecates Time form of timestamps; clarifies the Multi-state object types when Number_Of_States shrinks; fixes the language for event type and message text parameters of event notifications; clarifies the object instance 4194303; extends the ReadPropertyMultiple service to support the Network Port wildcard instance treatment; and clarifies the timestamp of trend log and trend log multiple log records.

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

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

NSF (NSF International)

Revision

BSR/NSF 49-201x (i122r2), Biosafety Cabinetry - Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

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

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

Send comments (with copy to psa@ansi.org) to: Allan Rose, (734) 827-3817, arose@nsf.org

BSR/NSF 50-201x (i147r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

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

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

Send comments (with copy to psa@ansi.org) to: Jason Snider, (734) 418-6660, jsnider@nsf.org

RVIA (Recreational Vehicle Industry Association)

New Standard

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

The purpose of this recommended practice, laboratory test procedures, is to provide minimum safety criteria, through uniform testing, of exterior ladders by the ladder manufacturers and by the recreational vehicle manufacturers for exterior ladders as installed and used on recreational vehicles.

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

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

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 568.2-D-1-201x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (addenda to ANSI/TIA 568.2-D-2018)

Amendment to specify balun specifications used for testing Category 8 cabling and components described in ANSI/TIA 568.2-D

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

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

Comment Deadline: February 11, 2019

ASABE (American Society of Agricultural and Biological Engineers)

New Standard

BSR/ASABE S644 MONYEAR-201x, Performance Measures of Electromagnetic Radiation Systems for Plants (new standard)

This standard establishes appropriate performance criteria of electromagnetic radiation devices designed for horticultural applications and installed systems that use such devices. This standard requires a minimum set of criteria and recommends optional, advanced criteria. This standard also provides methodologies to compare the anticipated plant response and energy performance between alternative devices and installed systems when applied to diverse horticultural operations.

Single copy price: \$65.00

Obtain an electronic copy from: brace@asabe.org

Order from: Walter Brace, (269) 932-7009, brace@asabe.org

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

ASSP (Safety) (American Society of Safety Professionals)

New Standard

BSR/ASSP Z16.1-201x, Safety and Health Metrics and Performance Measures (new standard)

(1) Historical lagging indicators of measuring work-related injuries and illnesses. It will address clarification of guidelines used by BLS for recordability and formulas used to traditionally track employee injury/illness statistics. (2) Methodologies to utilize leading indicators to measure management effectiveness in reducing risk in the workplace. The use of leading indicators has been promoted in all systems management approaches. This portion of the standard will identify what leading indicators should be used and how to measure their effectiveness and turn such indicators into a statistical database. (3) Expanding metrics beyond the traditional tracking of employee injuries/illnesses. In this section, metrics will be developed that apply to areas such as property loss, general liability, fleet, business interruption, and other nontraditional metrics. It will also address, using financial terms, to speak the language of business in addressing such losses.

Single copy price: \$110.00

Obtain an electronic copy from: LBauerschmidt@assp.org

Order from: Lauren Bauerschmidt, (847) 768-3475, LBauerschmidt@assp.org

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

ATIS (Alliance for Telecommunications Industry Solutions)

Reaffirmation

BSR ATIS 0600413-2009 (R201x), Network to Customer Installation Interfaces - Asymmetric Digital Subscriber Line (ADSL) Metallic Interface (reaffirmation of ANSI ATIS 0600413-2009 (R2014))

This standard describes the interface between the telecommunications network and the customer installation in terms of their interaction and electrical characteristics. The requirements of this standard apply to a single asymmetric digital subscriber line (ADSL).

Single copy price: \$470.00

Obtain an electronic copy from: sbarclay@atis.org

Send comments (with copy to psa@ansi.org) to: Steve Barclay, (202) 628-6380, sbarclay@atis.org

ATIS (Alliance for Telecommunications Industry Solutions)

Stabilized Maintenance

BSR ATIS 0900002-2009 (S201x), Synchronization Standard - Physical Interconnection for Intra-Office Ethernet-Based Timing Distribution (stabilized maintenance of ANSI ATIS 0900002-2009 (R2014))

This standard addresses the interconnection between the Timing Signal Generator (TSG) and Network Elements (NE) in an intra-Central-Office environment. The principal focus of this standard is the physical layer connectivity for Ethernet signals, including the connectorization, cabling, and shielding requirements for delivering a timing reference from the Office TSG to the NE. Protection (e.g., lightning) is out of the scope of this document. The higher-layer protocols, formats, and requirements that make the Ethernet signal suitable for timing are not in the scope of this document, but are provided in an Annex for information. This standard does not obsolete timing reference distribution based on traditional twisted-pair cabling used for DS1 and composite-clock (CC) intra-office timing distribution.

Single copy price: \$145.00

Obtain an electronic copy from: sbarclay@atis.org

Send comments (with copy to psa@ansi.org) to: Steve Barclay, (202) 628-6380, sbarclay@atis.org

AWWA (American Water Works Association)

Revision

BSR/AWWA C500-201x, Metal-Seated Gate Valves for Water Supply Service (revision of ANSI/AWWA C500-2009)

This standard describes iron-body, metal-to-metal seated, nonrising-stem (NRS) gate valves, including tapping gate valves, 3-in. (75-mm) through 72-in. (1,800-mm), and outside screw and yoke (OS&Y) rising-stem gate valves, 3-in. (75-mm) NPS through 72-in. (1,650-mm), with either double-disc gates having parallel or inclined seats, or solid-wedge gates. These valves are suitable for use in approximately level settings within water systems.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

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

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

BSR/AWWA F101-201x, Contact-Molded, Fiberglass-Reinforced Plastic Wash-Water Troughs and Launderers (revision of ANSI/AWWA F101-2013)

This standard describes the minimum requirements for fiberglass-reinforced plastic wash-water troughs and launderers made by the contact-molding process, including flat-bottom, round-bottom, and V-bottom troughs and launderers. Requirements are included for materials, properties, design, construction, dimensions, tolerances, work quality, and appearance. This standard also describes the requirements for using general-purpose and chemical-resistant resins.

Single copy price: Free

Obtain an electronic copy from: ETSsupport@awwa.org

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

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

B11 (B11 Standards, Inc.)

Revision

BSR B11.22-201x, Safety Requirements for Turning Centers and Automatic, Numerically Controlled Turning Machines (revision of ANSI B11.22-2001 (R2012))

This standard specifies the safety requirements for the design, construction, operation, and maintenance (including installation, dismantling, and transport) of turning centers and automatic, numerically controlled turning machines

Single copy price: \$35.00

Obtain an electronic copy from: cfelinski@b11standards.org

Send comments (with copy to psa@ansi.org) to: Chris Felinski, (832) 446-6999, cfelinski@b11standards.org

BSR B11.23-201x, Safety Requirements for Machining Centers and Automatic, Numerically Controlled Milling, Drilling and Boring Machines (revision of ANSI B11.23-2001 (R2012))

This standard specifies the safety requirements for the design, construction, operation, and maintenance (including installation, dismantling, and transport) of machining centers and automatic numerically controlled milling, drilling, and boring machines.

Single copy price: \$35.00

Obtain an electronic copy from: cfelinski@b11standards.org

Send comments (with copy to psa@ansi.org) to: Chris Felinski, (832) 446-6999, cfelinski@b11standards.org

BSR B11.24-201x, Safety Requirements for Transfer Machines (revision of ANSI B11.24-2001 (R2012))

This standard specifies the safety requirements for the design, construction, operation, and maintenance (including installation, dismantling, and transport) of transfer machines.

Single copy price: \$35.00

Obtain an electronic copy from: cfelinski@b11standards.org

Send comments (with copy to psa@ansi.org) to: Chris Felinski, (832) 446-6999, cfelinski@b11standards.org

CSA (CSA Group)

New Standard

BSR/CSA 3.21-201x, Standard for Industrial Gas-Fired Natural Draft Heaters for Installation in Non-Hazardous and Hazardous Locations in Oil and Gas Process Applications (new standard)

CSA 3.21 is arranged in two parts. Part 1 of the Standard applies to newly produced industrial gas-fired natural draft heaters utilizing new and unused parts and materials intended for indoor and outdoor installation in non-hazardous locations in oil and gas process applications with a maximum input rating up to 12,500,000 Btu/h (3750 kW). The requirements of the Part 2 apply only to heaters produced in accordance with Part 1 of this Standard and intended for use in Zone 2 [Class 1 Div 2] Hazardous Locations.

Single copy price: Free

Obtain an electronic copy from: david.zimmerman@csagroup.org

Order from: David Zimmerman, (216) 524-4990, david.zimmerman@csagroup.org

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

CTA (Consumer Technology Association)

Reaffirmation

BSR/CTA 2006-B-2009 (R201x), Testing and Measurement Methods for Mobile Audio Amplifiers (reaffirmation of ANSI/CTA 2006-B-2009)

CTA 2006-B defines characteristics that, considered collectively, describe the performance of power amplifiers designed for use in mobile applications. Power amplifiers designed for use in mobile applications include, but are not limited to, separate single and multi-channel amplifiers, integrated amplifiers, and bandwidth-limited amplifiers that are connected to and rely solely on the vehicle's primary electrical system for power input and have output power ratings of greater than 5 watts when measured in accordance with CTA 2006-B.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

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

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

BSR/CTA 2014-B-2011 (R201x), Web-Based Protocol and Framework for Remote User Interface on UPnP Networks and the Internet (Web4CE). (reaffirmation of ANSI/CTA 2014-B-2011)

This standard defines the necessary mechanisms to allow a user interface to be remotely displayed on and controlled by devices or control points other than the one hosting the logic.

Single copy price: Free

Obtain an electronic copy from: standards@cta.tech

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

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

EOS/ESD (ESD Association, Inc.)

New Standard

BSR/ESD SP5.0-201x, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Reporting ESD Withstand Levels on Datasheets (new standard)

This document applies to ESD withstand level information in datasheets or other information publications such as reliability or qualification reports. All packaged semiconductor devices, thin film circuits, surface acoustic wave (SAW) devices, opto-electronic devices, hybrid integrated circuits (HICs), and multi-chip modules (MCMs) should have this information provided.

NOTE: This document does not apply to electrically initiated explosive devices and flammable liquids or powders.

Single copy price: \$105.00 (List)/\$75.00 (EOS/ESD Members) [hardcover]; \$130.00 (List)/\$100.00 (EOS/ESD Members) [softcover]

Obtain an electronic copy from: cearl@esda.org

Order from: Christina Earl, (315) 339-6937, cearl@esda.org

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

HL7 (Health Level Seven)

New Standard

BSR/HL7 IG UDI, R1-201x, HL7 Cross Paradigm Implementation Guide: UDI Pattern, Release 1 (new standard)

With the introduction of the Unique Device Identifier (UDI) it is important to enable health IT to exchange the UDI with or without individual components to provide access to implantable device lists, support post-market surveillance, perform recalls, and provide clinical decision support and analysis/research. Exchange across the device ecosystem needs to be enabled for manufacturing, utilization, implanting, monitoring, reporting, and other administrative and clinical uses. HL7 embarked on an effort to ensure that the UDI string, at a minimum, is represented in V2, V3, and FHIR such that implementation guide and profile developers can provide the necessary guidance for the specific use cases of how to apply the standards.

Single copy price: Free to HL7 members; free to non-members 90 days following ANSI approval and publication by HL7

Obtain an electronic copy from: Karenvan@HL7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

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

BSR/HL7 VSD, R1-201x, HL7 Specification: characteristics of a Value Set Definition, Release 1 (new standard)

Specifications of the data elements that formally define and characterize a Value Set definition. These include metadata used to identify and define its coded content, exemplary functions that can be used to construct a value-set content logical definition, and elements needed to support value-set definition versioning.

Single copy price: Free to HL7 members; free to non-members 90 days following ANSI approval and publication by HL7

Obtain an electronic copy from: www.hl7.org

Order from: Karen Van Hentenryck, (734) 677-7777, Karenvan@HL7.org

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

SCTE (Society of Cable Telecommunications Engineers)

Revision

BSR/SCTE 174-201x, Radio Frequency over Glass Fiber-to-the-Home (RfFG) Specification Extension (revision of ANSI/SCTE 174 -2010)

The specifications in this document define the performance requirements that apply to the R-ONU and are designed to allow interoperability between R-ONUs from various manufacturers.

Single copy price: \$50.00

Obtain an electronic copy from: admin@standards.scte.org

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

Send comments (with copy to psa@ansi.org) to: admin@standards.scte.org

TIA (Telecommunications Industry Association)

Addenda

BSR/TIA 1005-A-2-201x, Telecommunications - Infrastructure standard for industrial premises - Addendum 2: Performance requirements for four-pair industrial cables and cabling supporting 1000BASE-T for MICE2 and MICE3 environments (addenda to ANSI/TIA 1005-A-1-2015)

Creates an addendum to ANSI/TIA 1005-A defining enhanced performance requirements for four-pair industrial cables and cabling supporting 1000BASE-T in MICE2 and MICE3 environments. This addendum will use Connectivity already specified in ANSI/TIA -1005-A.

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

TIA (Telecommunications Industry Association)

Revision

BSR/TIA 102.BAEG-A-201x, Mobile Data Peripheral Interface (revision and redesignation of ANSI/TIA 102.BAEG-2013)

The Mobile Data Peripheral Interface specifies the protocols utilized on the interface between the Subscriber Unit and the Mobile Data Peripheral. The information necessary to enable interoperable services and functionality on this interface is provided in this document or referenced in other documents as appropriate.

Single copy price: \$88.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

BSR/TIA 102.BAEJ-A-201x, Conventional Management Service Specification for Packet Data (revision and redesignation of ANSI/TIA 102.BAEJ-2013)

The objective of this document is to provide a specification of Conventional Management Service (CMS) for Packet Data. The information necessary to enable interoperable CMS functionality for Packet Data is provided in this document or referenced in other documents as appropriate. The purpose of this revision is to address errata comments on the current published document.

Single copy price: \$95.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

BSR/TIA 102.BAJC-B-201x, Tier 2 Location Services Specification (revision and redesignation of ANSI/TIA 102.BAJC-A-2015)

The Tier 2 Location Service provides a location request/response protocol that allows a Location Service Host to make a request for location information from an SU or MDP, providing parameters that control the transmission of location information. Immediate or periodic reports can be requested, and reports can be requested base on triggering events. The service can be used between SUs in the Direct Data or Repeated Data configurations, or between an SU and a Host in the Conventional FNE Data or Trunked FNE Data configurations. The location information is provided in an XML-based protocol and is compressed using the W3C EXI recommendation.

Single copy price: \$256.00

Obtain an electronic copy from: standards@tiaonline.org

Order from: TIA; standards@tiaonline.org

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

Comment Deadline: February 26, 2019

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

ANS (American Nuclear Society)

Revision

BSR/ANS 58.8-201x, Time Response Criteria for Manual Actions at Nuclear Power Plants (revision of ANSI/ANS 58.8-1994 (R2017))

This standard establishes criteria and methods for identifying, calculating, validating, tracking, and documenting time requirements for the performance of nuclear power plant time-limited manual actions that are associated with either design basis events or licensing basis.

Single copy price: \$20.00

Obtain an electronic copy from: pschroeder@ans.org

Order from: Patricia Schroeder, (708) 579-8269, pschroeder@ans.org

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

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
Suite 301
Arlington, VA 22203-1633

Contact: *Will Vargas*

Phone: (703) 647-2779

E-mail: wvargas@aami.org

BSR/AAMI 2700-1-201x, Medical devices and medical systems - Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) - Part 1: General requirements and conceptual model (new standard)

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 320-201x, Laboratory Method of Sound Testing of Fans Using Sound Intensity (revision and redesignation of ANSI/AMCA 320-2013)

BSR/AMCA Standard 540-201x, Test Method for Louvers Impacted by Wind-Borne Debris (revision and redesignation of ANSI/AMCA 540-2013)

ASSP (Safety) (American Society of Safety Professionals)

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

Contact: *Lauren Bauerschmidt*

Phone: (847) 768-3475

E-mail: LBauerschmidt@assp.org

BSR/ASSP Z16.1-201x, Safety and Health Metrics and Performance Measures (new standard)

BSR/ASSP Z590.4-201x, Occupational Safety and Health (OSH) Audit Standard for Use and Implementation when Evaluating Organizations for Potential Merger and/or Acquisition (new standard)

CTA (Consumer Technology Association)

Office: 1919 South Eads Street
Arlington, VA 22202

Contact: *Veronica Lancaster*

Phone: (703) 907-7697

E-mail: vlancaster@cta.tech

BSR/CTA 766-D-201X, U.S. and Canadian Rating Region Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information using ATSC Program and System Information Protocol (PSIP) (revision of ANSI/CTA 766-D-2013)

BSR/CTA 2006-B-2009 (R201x), Testing and Measurement Methods for Mobile Audio Amplifiers (reaffirmation of ANSI/CTA 2006-B-2009)

BSR/CTA 2014-B-2011 (R201x), Web-based Protocol and Framework for Remote User Interface on UPnP Networks and the Internet (Web4CE). (reaffirmation of ANSI/CTA 2014-B-2011)

EOS/ESD (ESD Association, Inc.)

Office: 7900 Turin Rd., Bldg. 3
Rome, NY 13440

Contact: *Christina Earl*

Phone: (315) 339-6937

E-mail: cearl@esda.org

BSR/ESD SP5.0-201x, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - Reporting ESD Withstand Levels on Datasheets (new standard)

IES (Illuminating Engineering Society)

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

Contact: *Patricia McGillicuddy*

Phone: (917) 913-0027

E-mail: pmcgillicuddy@ies.org

BSR/IES RP-39-201x, Off-Roadway Sign Luminance (new standard)

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

Office: 1101 K Street NW
Suite 610
Washington, DC 20005-3922

Contact: *Deborah Spittle*

Phone: (202) 737-8888

E-mail: comments@standards.incits.org

INCITS 137-1988 [S2018], Information Systems - One- and Two-Sided, Unformatted, 90-mm (3.5-in), 5.3-tpmm (135-tpi) Flexible Disk Cartridge for 7958 BPR Use - General, Physical, and Magnetic Requirements (stabilized maintenance of INCITS 137-1988 (R2004))

INCITS 148-1988 [S2018], Fiber Distributed Data Interface (FDDI) Physical Layer (PHY) (stabilized maintenance of INCITS 148-1988 (R2004))

INCITS 224-1994 [S2018], Extended Tape Format for Information Interchange, (18-Track, Parallel, 12.65 mm (0.50 in), 1491 cpmm (37 871 cpi), Group-Coded Recording) (stabilized maintenance of INCITS 224-1994 (R2004))

INCITS 225-1994 [S2018], Compaction Algorithm, Binary Arithmetic Coding (stabilized maintenance of INCITS 225-1994 (R2004))

INCITS 226-1994 [S2018], Programming Language Common Lisp (stabilized maintenance of INCITS 226-1994 (R2004))

INCITS 229-1994 [S2018], Fiber Distributed Data Interface (FDDI) Station Management (SMT) (stabilized maintenance of INCITS 229-1994 (R2004))

INCITS 231-1994 [S2018], Fiber Distributed Data Interface (FDDI) Physical Layer Protocol - 2 (PHY-2) (stabilized maintenance of INCITS 231-1994 (R2004))

INCITS 239-1994 [S2018], FDDI - Media Access Control-2 (MAC-2) (stabilized maintenance of INCITS 239-1994 (R2004))

INCITS 241-1994 [S2018], Data Compression Method, Adaptive Coding with Sliding Window for Information Interchange (stabilized maintenance of INCITS 241-1994 (R2004))

INCITS 242-1994 [S2018], Magnetic Tape Cartridge for Information Interchange, .50 in (12.65 mm) Serial Serpentine, 48-Track, 42 500 bpi (1 673 bpmm), DLT1 Format (stabilized maintenance of INCITS 242-1994 (R2004))

INCITS/ISO/IEC 9160-1988 [S2018], Information Processing - Data Encipherment - Physical Layer Interoperability Requirements (stabilized maintenance of INCITS/ISO/IEC 9160-1988 (R2004))

INCITS/ISO/IEC 9171-2:1990 [S2018], Information Technology - 130 mm Optical Disk Cartridge, Write Once, for Information Interchange - Part 2: Recording Format (stabilized maintenance of INCITS/ISO/IEC 9171-2:1990 (R2004))

INCITS/ISO/IEC 10536-2:1995 [S2018], Identification Cards - Contactless Integrated Circuit(s) Cards - Part 2: Dimensions and Location of Coupling Areas (stabilized maintenance of INCITS/ISO/IEC 10536-2:1995 (R2004))

INCITS/ISO/IEC 11557:1992 [S2018], Information Technology - 3.81 mm Wide Magnetic Tape Cartridge for Information Interchange - Helical Scan Recording - DDS-DC Format using 60 m and 90 m Length Tapes (stabilized maintenance of INCITS/ISO/IEC 11557-1992 (R2004))

NEMA (ASC C136) (National Electrical Manufacturers Association)

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

Contact: *David Richmond*

Phone: (703) 841-3234

E-mail: David.Richmond@nema.org

BSR C136.25-201X, Roadway and Area Lighting Equipment - Ingress Protection for Luminaire Enclosures and Devices (revision of ANSI C136.25-2013)

NSF (NSF International)

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

Contact: *Allan Rose*

Phone: (734) 827-3817

E-mail: arose@nsf.org

BSR/NSF 49-201x (i122r2), Biosafety Cabinetry - Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2016)

BSR/NSF 50-201x (i147r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017)

PDA (Parenteral Drug Association)

Office: Bethesda Towers, 4350 East-West Highway
Bethesda, MD 20814

Contact: *Christine Alston-Roberts*

Phone: (301)-656-5900-ext.106

E-mail: roberts@pda.org

BSR/PDA Standard 03-201x, Standard Practice for Quality Risk Management of Aseptic Processes (new standard)

TIA (Telecommunications Industry Association)

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

Contact: *Teesha Jenkins*

Phone: (703) 907-7706

E-mail: standards@tiaonline.org

BSR/TIA 102.BAJC-B-201x, Tier 2 Location Services Specification (revision and redesignation of ANSI/TIA 102.BAJC-A-2015)

BSR/TIA 102.BAEG-A-201x, Mobile Data Peripheral Interface (revision and redesignation of ANSI/TIA 102.BAEG-2013)

BSR/TIA 102.BAEJ-A-201x, Conventional Management Service Specification for Packet Data (revision and redesignation of ANSI/TIA 102.BAEJ-2013)

BSR/TIA 455-82-C-201x, FOTP-82 - Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable (new standard)

BSR/TIA 568.2-D-1-201x, Balanced Twisted-Pair Telecommunications Cabling and Components Standard (addenda to ANSI/TIA 568.2-D-2018)

BSR/TIA 920.130-B-1-201x, Telecommunications - Telephone Terminal Equipment - Transmission Requirements for Digital Telephones with Headsets (addenda to ANSI/TIA 920.130-B-2018)

BSR/TIA 920.140-201x, Telecommunications - Communications Products - Advanced Audio Processing Requirements for Digital Interface Communications Devices (new standard)

BSR/TIA 1005-A-2-201x, Telecommunications - Infrastructure Standard for Industrial Premises - Addendum 2: Performance requirements for four-pair industrial cables and cabling supporting 1000BASE-T for MICE2 and MICE3 environments (addenda to ANSI/TIA 1005-A-1-2015)

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.

ASTM (ASTM International)

New Standard

ANSI/ASTM D2661-2018, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe and Fittings (new standard): 12/18/2018

ANSI/ASTM D2665-2018, Specification for Poly(Vinyl Chloride) (PVC) Plastic Drain, Waste, and Vent Pipe and Fittings (new standard): 12/18/2018

ANSI/ASTM D3139-2018, Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals (new standard): 12/18/2018

ANSI/ASTM F628-2018, Specification for Acrylonitrile-Butadiene-Styrene (ABS) Schedule 40 Plastic Drain, Waste, and Vent Pipe with a Cellular Core (new standard): 12/18/2018

ANSI/ASTM F714-2018, Specification for Polyethylene (PE) Plastic Pipe (DR-PR) Based on Outside Diameter (new standard): 12/18/2018

ANSI/ASTM F1498-2018, Specification for Taper Pipe Threads 60 for Thermoplastic Pipe and Fittings (new standard): 12/18/2018

ANSI/ASTM F1733-2018, Specification for Butt Heat Fusion Polyamide (PA) Plastic Fitting for Polyamide (PA) Plastic Pipe and Tubing (new standard): 12/18/2018

UL (Underwriters Laboratories, Inc.)

Reaffirmation

ANSI/UL 60745-2-3-2013 (R2018), Standard for Safety for Hand-Held Motor-Operated Electric Tools - Safety - Part 2: Particular Requirements for Grinders, Polishers, and Disk-Type Sanders (reaffirmation of ANSI/UL 60745-2-3-2013): 12/11/2018

Revision

ANSI/UL 1254-2018, Standard for Pre-Engineered Dry and Wet Chemical Extinguishing System Units (revision of ANSI/UL 1254-2017): 12/17/2018

ANSI/UL 1254-2018a, Standard for Pre-Engineered Dry Chemical Extinguishing System Units (revision of ANSI/UL 1254-2017): 12/17/2018

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)

Contact: *Hae Choe, (703) 253-8268, standards@aami.org; HChoe@aami.org*
4301 N. Fairfax Drive, Suite 301, Suite 301, Arlington, VA 22203-1633

New National Adoption

BSR/AAMI/ISO 11607-1-201x, Packaging for terminally sterilized medical devices - Part 1: Requirements for materials, sterile barrier systems and packaging (identical national adoption of ISO 11607-1 and revision of ANSI/AAMI/ISO 11607-1-2006 (R2010))

Stakeholders: Medical packaging manufacturers, users, regulatory agencies, hospital and health care workers.

Project Need: This proposed standard revises the current standard and serves as the first part of the series. This standard is needed to specify the requirements and test methods used in packaging of the medical devices.

Specifies the requirements and test methods for materials, preformed sterile barrier systems, sterile barrier systems, and packaging systems that are intended to maintain sterility of terminally sterilized medical devices to the point of use.

BSR/AAMI/ISO 11607-2-201x, Packaging for terminally sterilized medical devices - Part 2: Validation requirements for forming, sealing and assembly processes (identical national adoption of ISO 11607-2 and revision of ANSI/AAMI/ISO 11607-2-2006 (R2010))

Stakeholders: Medical packaging manufacturers, users, regulatory agencies, hospitals and health care workers.

Project Need: This proposed standard revises the current standard and completes the series. This standard is needed to specify the requirements for validation in packaging of the medical devices.

Specifies the requirements for development and validation of processes for packaging medical devices that are terminally sterilized and maintain sterility to the point of use. These processes include forming, sealing, and assembly of preformed sterile barrier systems, sterile barrier systems, and packaging systems.

AAMI (Association for the Advancement of Medical Instrumentation)

Contact: *Will Vargas, (703) 647-2779, wvargas@aami.org*
4301 N. Fairfax Drive, Suite 301, Suite 301, Arlington, VA 22203-1633

New Standard

BSR/AAMI 2700-1-201x, Medical devices and medical systems - Essential safety requirements for equipment comprising the patient-centric integrated clinical environment (ICE) - Part 1: General requirements and conceptual model (new standard)

Stakeholders: Medical device manufactures, health care delivery organizations.

Project Need: This standard establishes requirements for a medical system that is intended to have greater error resistance and improved patient safety, treatment efficacy, and workflow efficiency than can be achieved with independently used medical devices.

This standard specifies general requirements, a model and framework for integrating equipment to create an integrated clinical environment (ICE), as defined in 3.6 of this standard. This standard specifies the characteristics necessary for the safe integration of medical devices and other equipment, via an electronic interface, from different manufacturers into a single medical system for the care of a single high-acuity patient. This standard establishes requirements for a medical system that is intended to have greater error resistance and improved patient safety, treatment efficacy and workflow efficiency than can be achieved with independently used medical devices. This series of standards establishes requirements for design, verification, and validation processes of a model-based integration system for an integrated clinical environment. This series of standards is intended to define the requirements essential for safety and thereby facilitate regulatory acceptance.

ACCA (Air Conditioning Contractors of America)

Contact: *Danny Halel, (618) 402-4440, danny.halel@acca.org*
 2800 Shirlington Road, Suite 300, Arlington, VA 22206

Revision

BSR/ACCA 3 Manual S-201X, Residential Equipment Selection (revision of ANSI/ACCA 3 Manual S-2014)

Stakeholders: Designers, engineers, specifying engineers, service personnel, and installers.

Project Need: This revised standard establishes the procedures to be used to select and size residential cooling equipment, furnaces, and heat pumps. This standard includes the explanation of why “certification ratings” should not be used for selecting equipment.

This manual provides procedures for selecting and sizing residential cooling equipment, heat pumps, electric heating coils, furnaces, boilers, ancillary dehumidification equipment, humidification equipment, equipment tested and rated according to retail appliance standards, and direct-evaporative cooling equipment. These procedures emphasize the importance of using performance data that correlates sensible and latent cooling capacity with all the variables that affect performance. Similar principles apply to heat-pump selection and sizing, and to furnace and boiler selection and sizing. All procedures produce installed design condition capacity that is appropriate for the applicable building loads, but is less than or equal to the over-sizing limit allowed for a given type of equipment.

AMCA (Air Movement and Control Association)

Contact: *Erin Moore, (847) 704-6285, emoore@amca.org*
 30 West University Drive, Arlington Heights, IL 60004-1893

Revision

BSR/AMCA Standard 320-201x, Laboratory Method of Sound Testing of Fans Using Sound Intensity (revision and redesignation of ANSI/AMCA 320-2013)

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

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 establishes a method of determining the octave-band sound power levels of a fan. The method is reproducible when all requirements of the method are met. In this standard, sound power levels are determined using sound intensity measurements on a measurement surface that encloses the sound source. Guidelines are provided on suitable test environment acoustical characteristics, the measurement surface, and the number of intensity measurements.

BSR/AMCA Standard 540-201x, Test Method for Louvers Impacted by Wind-Borne Debris (revision and redesignation of ANSI/AMCA 540-2013)

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

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.

The purpose of this standard is to establish uniform methods for laboratory testing of louvers that are impact tested with the large missile described in ASTM E1996-04 and E1886-05. The scope of this standard is for impact testing of louvers used on the outside of buildings as required by the ICC International Building Code and the ICC International Residential Code.

ANS (American Nuclear Society)

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

New Standard

BSR/ANS 3.5.1-201x, Nuclear Power Plant Simulators for Use in Simulation-Assisted Engineering and Non-Operator Training (new standard)

Stakeholders: NPP/NNB Departments: Operations, engineering, emergency preparedness, maintenance, training, and the like; NPP/NNB designers and simulator vendors; nuclear industry regulators.

Project Need: Nuclear Power Plants (NPPs), Nuclear New Builds (NNBs), and simulator vendors are using simulators for purposes other than operator training and examination (already covered by the ANSI/ANS 3.5 standard).

This standard establishes the requirements for the use of nuclear power plant control room simulators in applications other than operator training and examination. Applications considered in this Standard include plant engineering design and modification verification and validation, engineering design optimization, plant performance optimization, control loop tuning, trip risk reduction, power uprate/downrate pre-testing, human-factors engineering, safety assessment studies, procedure development and verification, and training of plant personnel other than operators. This standard does not establish criteria for the use of simulators in operator training programs.

ASABE (American Society of Agricultural and Biological Engineers)

Contact: *Walter Brace, (269) 932-7009, brace@asabe.org*
2920 Niles Rd., Saint Joseph, MI 49085

Revision

BSR/ASABE S642.1 MONYEAR-201x, Recommended Methods for Measurement and Testing of LED Products for Plant Growth and Development (revision and redesignation of ANSI/ASABE S642-SEPT2018)

Stakeholders: LED and LED lighting manufacturers, testing labs, plant growers, research organizations, government, and other specification agencies.

Project Need: Currently, LED radiation products have been widely used in the plant growth and development applications. These products have demonstrated higher effectiveness and energy-saving potentials. However, there are no standardized methods of measurements for these products. In order to recognize the benefits of these products, reliable, repeatable, and consistent testing and measurements methods must be established. The current lighting standards are based on human perception of light, while light (radiation) perception by plants is quite different and thus new standards are needed. Standards need to be refined to give clear information to plant growers about the light provided within the plant growth spectrum. In particular, the measurements and testing standards developed by other standardization bodies are often LED specific. This document will be based on these specifics and add the plant growth and application-related requirements. The measurements include the product characteristics and long-term change behaviors (lifetime performance). This revision will address the following: (a) Establish recommended test methods for actively cooled products; (b) Establish recommendations for the use of portable spectroradiometers to make irradiance and SPD measurements; (c) Establish recommendations for far-field modeling using existing data format.

This document describes methods for measurement and testing of LED packages and arrays or modules, LED lamps, and any other LED optical radiation devices, with a spectral range between 280 nm and 800 nm, used for plant growth and development. These methods are necessary to obtain information about device characteristics and long-term change behaviors.

ASME (American Society of Mechanical Engineers)

Contact: *Mayra Santiago, (212) 591-8521, ansibox@asme.org*
Two Park Avenue, New York, NY 10016-5990

Revision

BSR/ASME Y14.44-201x, Reference Designations for Electrical and Electronics Parts and Equipments (revision of ANSI/ASME Y14.44-2008 (R2014))

Stakeholders: Manufacturers that develop designs for electrical diagrams (Aerospace, automotive, medical, and the like).

Project Need: Document is being updated to for better consistency with latest Y14 standards being published (e.g., Y14.41, Y14.47) to provide guidance on use of 3D models for electrical components

This standard covers the formation and application of reference designations of electrical and electronics parts and equipment for uniquely identifying and locating discrete items on diagrams and in a set; for correlating items in a set; graphic symbols on diagrams; and items in parts lists, circuit descriptions, and instructions.

ASSP (Safety) (American Society of Safety Professionals)

Contact: *Lauren Bauerschmidt, (847) 768-3475, LBauerschmidt@assp.org*
520 N. Northwest Hwy, Park Ridge, IL 60068

New Standard

BSR/ASSP Z590.4-201x, Occupational Safety and Health (OSH) Audit Standard for Use and Implementation When Evaluating Organizations for Potential Merger and/or Acquisition (new standard)

Stakeholders: OSH professionals.

Project Need: There are a significant number of standards addressing OSH Management and with the new ISO 45001 there is also an accompanying document for 45001 audits. However, there does not appear to be an audit document created and meant for auditing and reviewing OSH performance management from the perspective of review for acquisitions and mergers.

This standard sets forth a procedure for conducting occupational safety and health due diligence. This practice is intended primarily as a reasonable and prudent approach to conducting an assessment designed to identify risks in connection with a transaction, including safety and health concerns, regulatory gaps, human capital issues and underfunded liabilities.

ASTM (ASTM International)

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

New Standard

BSR/ASTM WK66071-201x, New Guide for Use of Fire Performance Data in Materials Property Determination (new standard)

Stakeholders: Fire Safety Engineering industry.

Project Need: The use of fire performance data for input into fire safety calculations is becoming prevalent so this draft document will present guidance for how to interpret this data for other purposes.

Present guidance for how to use data from fire performance tests in determining materials properties for engineering calculations or modeling.

BSR/ASTM WK66174-201x, New Guide for Work of Fracture Measurements on Small Nuclear Graphite Specimens (new standard)

Stakeholders: Manufactured Carbon and Graphite Products industry.

Project Need: Structural integrity assessments typically use values of strength and elastic modulus to predict crack initiation in graphite components and there is a suite of ASTM standards to cover the measurement of these properties.

This guide provides general tutorial information and best practice for measuring the work of fracture on manufactured graphite and carbon specimens. Although applicable to all carbon and graphite materials, this guide is aimed specifically at measurements required on nuclear graphites, where there may be constraints on the geometry and/or volume of the test specimen.

BSR/ASTM WK66202-201x, New Test Method for a Portable Instrumented Surface Indenter for Measurement of Firmness and Stability (new standard)

Stakeholders: Miscellaneous Playing Surfaces industry.

Project Need: The following Instrumented Surface Indenter (ISI) Surface Test Method addresses the need for a means to objectively measure Firmness and Stability.

This Surface Test Method specifies a test method for determining the Firmness and Stability of ground and floor surfaces using an instrumented surface indenter.

ATIS (Alliance for Telecommunications Industry Solutions)

Contact: *Steve Barclay, (202) 628-6380, sbarclay@atis.org*
1200 G Street NW, Suite 500, Washington, DC 20005

Revision

BSR/ATIS 0300094-201x, Trouble Type Codes in Support of ATIS Trouble Administration Standards (revision of ANSI/ATIS 0300094-2015)

Stakeholders: Communications industry.

Project Need: The standard is to be revised in order to provide updated references and add Trouble Type Code 1241 for bouncing in ATIS 0300094.2015, Trouble Type Codes in Support of ATIS Trouble Administration Standards.

This document contains a canonical listing of Trouble Type Codes to be used in the Electronic Bonding process as specified in ATIS 0300003.

BSR/ATIS 0300218-201x, ISDN Management - Data-Link and Network Layers (revision of ANSI ATIS 0300218-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This document covers maintenance of the Layer 2 (data-link-layer) and Layer 3 (network-layer) peer relationships between the exchange termination (ET) and the customer equipment.

BSR/ATIS 0300231.01-201x, DSL - Layer 1 In-Service Digital Transmission (revision of ANSI ATIS 0300231.01-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard provides performance monitoring functions and requirements applicable to DSL digital transmission lines. This standard provides functional requirements to support maintenance and is not meant to be an equipment specification. This standard is one of a set of standards for specific applications utilizing the common criteria as specified in ATIS 0300231.

BSR/ATIS 0300231.02-201x, DS1 - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.02-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard provides performance monitoring functions and requirements applicable to DS1 digital transmission signals. This standard provides functional requirements to support maintenance and is not meant to be an equipment specification. This standard is one of a set of standards that are applications utilizing the common criteria as specified in ATIS 0300231.

BSR/ATIS 0300231.03-201x, DS3 - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.03-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard provides performance monitoring (PM) functions and requirements applicable to DS3 digital transmission. This standard provides functional requirements to support maintenance and is not meant to be an equipment specification. This standard is one of a set of standards that are applications utilizing the common criteria as specified in ATIS 0300231.

BSR/ATIS 0300231.04-201x, SONET - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.04-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard provides performance monitoring (PM) functions and requirements applicable to SONET digital transmission. This standard provides functional requirements to support maintenance and is not meant to be an equipment specification. This standard is one of a set of standards that are applications utilizing the common criteria as specified in ATIS 0300231.

BSR/ATIS 0300231-201x, Digital Hierarchy - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard provides performance monitoring (PM) functions and requirements applicable to Layer 1 transmission signals for the covered levels of the North American transmission hierarchy. This standard provides functional requirements to support maintenance and is not meant to be an equipment specification.

BSR/ATIS 0300245-201x, Directory Services for Telecommunications Management Network (TMN) and Synchronous Optical Network (SONET) (revision of ANSI ATIS 0300245-2013)

Stakeholders: Communications industry.

Project Need: This standard is to be revised in order to provide updated references.

This standard specifies the usage of the X.500 Directory, protocols, and services for communications between Directory Users and Directory Servers. These specifications are for use of the Directory in support of management communications within the Telecommunications Management Network (TMN) and for specific technologies, such as Synchronous Optical Network (SONET).

AWS (American Welding Society)

Contact: *Stephen Borrero, (305) 443-9353, sborrero@aws.org*
8669 NW 36th Street, Suite 130, Doral, FL 33166

Revision

BSR/AWS D1.4/D1.4M-201x, Structural Welding Code - Steel Reinforcing Bars (revision of ANSI/AWS D1.4/D1.4M-2018)

Stakeholders: Engineers within the welding industry.

Project Need: Update the technological advances for reinforcing steel bars.

This code covers the requirements for welding reinforcing steel in most reinforced concrete applications. It contains a body of rules for the regulations of welding reinforcing steel and provides suitable acceptance criteria for such welds.

CTA (Consumer Technology Association)

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

Revision

BSR/CTA 766-D-201X, U.S. and Canadian Rating Region Tables (RRT) and Content Advisory Descriptors for Transport of Content Advisory Information Using ATSC Program and System Information Protocol (PSIP) (revision of ANSI/CTA 766-D-2013)

Stakeholders: Consumers, manufacturers, retailers.

Project Need: Revise ANSI/CTA 776-D.

This standard augments ATSC A/65 [A65] and designates (a) the RRT which provides the receiver with the definition of the rating system and (b) the Content Advisory Descriptors which provide the receiver with the specific program rating for each program. Specifically, this standard specifies the exact syntax to be used to define the U.S. and Canadian Rating Region Tables (RRT) in accordance with ATSC A/65 [A65] Section 6.4, as well as the exact syntax to be used in the Content Advisory Descriptors.

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

Contact: Conrad Jahrling, (708) 995-3017, conrad.jahrling@asse-plumbing.org
18927 Hickory Creek Dr Suite 220, Mokena, IL 60448

Revision

BSR/ASSE 1055-201x, Chemical Dispensing Systems with Integral Backflow Protection (revision of ANSI/ASSE 1055-2018)

Stakeholders: Plumbing manufacturers, plumbing inspectors, backflow preventer, janitorial or custodian services, surface disinfection, and chemical dispensing equipment manufacturers.

Project Need: Goal is to revise the standard in order to jointly release it with IAPMO through their SCC-accredited standards development process. The full, formal designation of the standard will likely be: ANSI/CAN/IAPMO/ASSE 1055.

Chemical dispensing systems (referred to as the "device" in this standard) provide a means of mixing potable water with chemicals to provide the user with a chemical solution that is ready for use. This standard applies to those devices classified as chemical-dispensing systems having integral backflow protection.

IES (Illuminating Engineering Society)

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

New Standard

BSR/IES RP-39-201x, Off-Roadway Sign Luminance (new standard)

Stakeholders: General public (drivers), sign manufacturers and owners, sign lighting engineers, lighting practitioners.

Project Need: The recommendations apply to signs, including billboards, that are off the right-of-way, and includes signs that are internally and externally lighted.

This recommended practice contains guidelines for restricting the brightness of signs by limiting their luminance as seen by drivers on nearby streets and roads.

NEMA (ASC C136) (National Electrical Manufacturers Association)

Contact: David Richmond, (703) 841-3234, David.Richmond@nema.org
1300 North 17th Street, Suite 900, Rosslyn, VA 22209

Revision

BSR C136.25-201X, Roadway and Area Lighting Equipment - Ingress Protection for Luminaire Enclosures and Devices (revision of ANSI C136.25-2013)

Stakeholders: Producers, users, test labs, and specifiers.

Project Need: This revision is needed to update the standard to reflect current industry practices.

This standard details the requirements for ingress protection of luminaires and related devices in roadway and area lighting equipment, installed for their intended use, and specified by the end user. While these requirements are suitable for most types of lighting equipment, it should not be assumed that all the listed degrees of protection are applicable to a particular type of equipment. The manufacturer of the equipment should be consulted to determine the degrees of protection available.

PDA (Parenteral Drug Association)

Contact: Christine Alston-Roberts, (301)-656-5900-ext.106, roberts@pda.org
Bethesda Towers, 4350 East-West Highway, Bethesda, MD 20814

New Standard

BSR/PDA Standard 03-201x, Standard Practice for Quality Risk Management of Aseptic Processes (new standard)

Stakeholders: Quality assurance, quality control, quality engineering, operations, production and manufacturing, MSAT and process development, engineering and maintenance, validation, regulatory, international health authority reviewers and inspectors.

Project Need: Global Health Authority representatives have expressed concern that companies are not using quality risk management principles correctly or effectively in risk assessments. In addition, aseptic processing has unique risk challenges including the level of failure severity, difficulty in detection, rare failure occurrence rates, correlation between failure occurrence and cause, and lack of quantifiable data. A standard approach to the use of quality risk management principles designed to specifically address the challenges of aseptic processing would be beneficial to the industry, regulators, and patients, as it would help improve aseptic processes and reduce risk to product sterility.

Create a practical standard to guide industry and regulators seeking to apply or evaluate Quality Risk Management principles in decisions related to the planning, design, qualification, operation, monitoring, and investigation of various aspects of Aseptic Processing.

TIA (Telecommunications Industry Association)

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

Addenda

BSR/TIA 920.130-B-1-201x, Telecommunications - Telephone Terminal Equipment - Transmission Requirements for Digital Telephones with Headsets (addenda to ANSI/TIA 920.130-B-2018)

Stakeholders: Users, manufacturers, and purchasers of digital telephones and other communications devices.

Project Need: Update standard.

Document is being revised to swap figures 4.4.3 and 4.4.4 as they are incorrect based on the heading and caption titles.

New Standard

BSR/TIA 455-82-C-201x, FOTP-82 - Fluid Penetration Test for Fluid-Blocked Fiber Optic Cable (new standard)

Stakeholders: Users of optical fiber such as optical fiber cable manufacturers and their customers, optical fiber transmission and test equipment manufacturers, specifiers of optical fiber and cable such as telecommunications companies and standards.

Project Need: Create new standard.

Revise ANSI/TIA 455-82B to: (1) update the default test length for water penetration samples from 1m to 3m, (2) update the sample length for retest from 3 m to 40 m), and (3) consider the impact of the length change on test duration. Update the treatment of dry water blocked cable.

BSR/TIA 920.140-201x, Telecommunications - Communications Products - Advanced Audio Processing Requirements for Digital Interface Communications Devices (new standard)

Stakeholders: Manufacturers and users of digital communication devices.

Project Need: Create new standard.

Current digital communication devices are missing requirements and test methodology covered in other industry standards for non-linear aspects, including but not limited to double-talk, ambient background noise canceling, speech quality, and AGC performance.

UL (Underwriters Laboratories, Inc.)

Contact: Megan Van Heirsele, (847) 664-2881, Megan.M.VanHeirsele@ul.com
333 Pflingsten Road, Northbrook, IL 60062-2096

Revision

BSR/UL 9540-201x, Standard for Safety for Energy Storage Systems and Equipment (revision of ANSI/UL 9540-2016)

Stakeholders: Energy storage systems and equipment manufacturers, building owners, insurance companies, regulatory agencies/AHJs, local building and electrical inspectors, municipalities, first responders, fire experts, consumers, retailers.

Project Need: To revise relevant stakeholders.

These requirements cover energy storage systems that are intended to receive energy and then to store the energy received in some form so that the energy storage system can provide electrical energy to loads or to the local/area electric power system (EPS) when needed. The types of energy storage covered under this standard include electrochemical, chemical, mechanical, and thermal. The energy storage system shall be constructed either as one unitary complete piece of equipment or as matched assemblies, that when connected, form the system. The systems covered by this standard include those intended to be used in a standalone mode (e.g., islanded) including "self-supply" systems to provide electrical energy and those used in parallel with an electric power system or electric utility grid such as "grid-supply" systems, or applications that perform ancillary operational modes associated with power generation such as, voltage support and regulation, frequency support and regulation, volt-var, capacity reserve, energy shifting or other utility grid support services. Energy storage systems are intended for installation and use in accordance with the National Electrical Code, NFPA 70, the Canadian Electrical Code, Part I: Safety Standard for Electrical Installations, C22.1; the National Electrical Safety Code, IEEE C2; the International Fire Code, IFC; the International Residential Code, IRC; the National Fire Code of Canada, NRC NFC; and the Fire Code, NFPA 1. Requirements for installation, with the exception of installation manuals and documents for installation provided with the system are outside the scope of this standard.

American National Standards Maintained Under Continuous Maintenance

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

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

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

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

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

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

ANSI-Accredited Standards Developers Contact Information

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

<p>AAMI Association for the Advancement of Medical Instrumentation 4301 N. Fairfax Drive, Suite 301 Suite 301 Arlington, VA 22203-1633 Phone: (703) 253-8268 Web: www.aami.org</p>	<p>ASME American Society of Mechanical Engineers Two Park Avenue New York, NY 10016-5990 Phone: (212) 591-8521 Web: www.asme.org</p>	<p>CSA CSA Group 8501 E. Pleasant Valley Road Cleveland, OH 44131 Phone: (216) 524-4990 Web: www.csagroup.org</p>	<p>NSF NSF International 789 N. Dixboro Road Ann Arbor, MI 48105-9723 Phone: (734) 827-3817 Web: www.nsf.org</p>
<p>ACCA Air Conditioning Contractors of America 2800 Shirlington Road Suite 300 Arlington, VA 22206 Phone: (618) 402-4440 Web: www.acca.org</p>	<p>ASSP (Safety) American Society of Safety Professionals 520 N. Northwest Hwy Park Ridge, IL 60068 Phone: (847) 768-3475 Web: www.assp.org</p>	<p>CTA Consumer Technology Association 1919 South Eads Street Arlington, VA 22202 Phone: (703) 907-7697 Web: www.cta.tech</p>	<p>PDA Parenteral Drug Association Bethesda Towers, 4350 East-West Highway Bethesda, MD 20814 Phone: (301) 656-5900-ext.106 Web: www.pda.org</p>
<p>AMCA Air Movement and Control Association 30 West University Drive Arlington Heights, IL 60004-1893 Phone: (847) 704-6285 Web: www.amca.org</p>	<p>ASTM ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 Phone: (610) 832-9696 Web: www.astm.org</p>	<p>EOS/ESD ESD Association, Inc. 7900 Turin Rd., Bldg. 3 Rome, NY 13440 Phone: (315) 339-6937 Web: www.esda.org</p>	<p>RVIA Recreational Vehicle Industry Association 1896 Preston White Drive P.O. Box 2999 Reston, VA 20191-4363 Phone: (703) 620-6003 Web: www.rvia.org</p>
<p>ANS American Nuclear Society 555 North Kensington Avenue La Grange Park, IL 60526-5592 Phone: (708) 579-8269 Web: www.ans.org</p>	<p>ATIS Alliance for Telecommunications Industry Solutions 1200 G Street NW Suite 500 Washington, DC 20005 Phone: (202) 628-6380 Web: www.atis.org</p>	<p>HL7 Health Level Seven 3300 Washtenaw Avenue Suite 227 Ann Arbor, MI 48104 Phone: (734) 677-7777 Web: www.hl7.org</p>	<p>SCTE Society of Cable Telecommunications Engineers 140 Philips Rd Exton, PA 19341 Phone: (800) 542-5040 Web: www.scte.org</p>
<p>ASABE American Society of Agricultural and Biological Engineers 2920 Niles Rd. Saint Joseph, MI 49085 Phone: (269) 932-7009 Web: www.asabe.org</p>	<p>AWS American Welding Society 8669 NW 36th Street Suite 130 Doral, FL 33166 Phone: (305) 443-9353 Web: www.aws.org</p>	<p>IAPMO (ASSE Chapter) ASSE International Chapter of IAPMO 18927 Hickory Creek Dr Suite 220 Mokena, IL 60448 Phone: (708) 995-3017 Web: www.asse-plumbing.org</p>	<p>TIA Telecommunications Industry Association 1320 North Courthouse Road Suite 200 Arlington, VA 22201 Phone: (703) 907-7706 Web: www.tiaonline.org</p>
<p>ASHRAE American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc. 1791 Tullie Circle, NE Atlanta, GA 30329 Phone: (404) 636-8400 Web: www.ashrae.org</p>	<p>AWWA American Water Works Association 6666 W. Quincy Ave. Denver, CO 80235 Phone: (303) 347-6178 Web: www.awwa.org</p>	<p>IES Illuminating Engineering Society 120 Wall Street, Floor 17 New York, NY 10005 Phone: (917) 913-0027 Web: www.ies.org</p>	<p>UL Underwriters Laboratories, Inc. 333 Pfingsten Road Northbrook, IL 60062-2096 Phone: (847) 664-2881 Web: www.ul.com</p>
	<p>B11 B11 Standards, Inc. P.O. Box 690905 Houston, TX 77269 Phone: (832) 446-6999</p>	<p>NEMA (ASC C136) National Electrical Manufacturers Association 1300 North 17th Street Suite 900 Rosslyn, VA 22209 Phone: (703) 841-3234 Web: www.nema.org</p>	



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 IEC documents must be submitted electronically in the approved ISO template and as a Word document as other formats will not be accepted.

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

Ordering Instructions

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

ISO Standards

ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

ISO 5356-2/DAMd1, Anaesthetic and respiratory equipment - Conical connectors - Part 2: Screw-threaded weight-bearing connectors - Amendment 1 - 1/13/2019, \$29.00

BASES FOR DESIGN OF STRUCTURES (TC 98)

ISO/DIS 22111, Bases for design of structures - General requirements - 3/11/2019, \$107.00

BUILDING ENVIRONMENT DESIGN (TC 205)

ISO/DIS 19455-1, Planning for functional performance testing for building commissioning - Part 1: Secondary hydronic pump, system and associated controls - 3/11/2019, \$71.00

CYCLES (TC 149)

ISO/DIS 8090, Cycles - Terminology - 3/15/2019, \$185.00

ENERGY MANAGEMENT AND ENERGY SAVINGS (TC 301)

ISO/DIS 50004, Energy management systems - Guidance for the implementation, maintenance and improvement of an energy management system - 3/8/2019, \$107.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO/DIS 14063, Environmental management - Environmental communication - Guidelines and examples - 1/14/2019, \$98.00

FINE BUBBLE TECHNOLOGY (TC 281)

ISO/DIS 23016-2, Fine bubble technology - Agricultural applications - Part 2: Test method for evaluating the promotion of the germination of barley seeds - 1/12/2019, \$62.00

INTERNAL COMBUSTION ENGINES (TC 70)

ISO/DIS 8178-5, Reciprocating internal combustion engines - Exhaust emission measurement - Part 5: Test fuels - 3/7/2019, \$125.00

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

ISO/DIS 13680, Petroleum and natural gas industries - Corrosion-resistant alloy seamless tubulars for use as casing, tubing and coupling stock - Technical delivery conditions - 3/11/2019, \$175.00

MEDICAL DEVICES FOR INJECTIONS (TC 84)

ISO/DIS 23907-2, Sharps injury protection - Requirements and test methods - Part 2: Reusable sharps containers - 3/9/2019, \$71.00

NUCLEAR ENERGY (TC 85)

ISO/DIS 2889, Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities - 3/9/2019, \$165.00

ISO/DIS 20785-2, Dosimetry for exposures to cosmic radiation in civilian aircraft - Part 2: Characterization of instrument response - 3/11/2019, \$107.00

PAINTS AND VARNISHES (TC 35)

ISO/DIS 8504-2, Preparation of steel substrates before application of paints and related products - Surface preparation methods - Part 2: Abrasive blast-cleaning - 1/10/2019, \$71.00

REFRIGERATION (TC 86)

ISO/DIS 916, Testing of refrigerating systems - 1/10/2019, \$71.00

RUBBER AND RUBBER PRODUCTS (TC 45)

ISO/DIS 4660, Rubber, raw natural - Colour index test - 3/8/2019, \$40.00

STEEL (TC 17)

ISO/DIS 9647, Steels - Determination of vanadium content - Flame atomic absorption spectrometric method (FAAS) - 3/7/2019, \$67.00

ISO/DIS 11971, Steel and iron castings - Visual testing of surface quality - 1/11/2019, \$33.00

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

ISO/DIS 6414, Technical product documentation (TPD) - Technical drawings for glassware - 1/14/2019, \$67.00

TEXTILES (TC 38)

- ISO/DIS 105-A03, Textiles - Tests for colour fastness - Part A03: Grey scale for assessing staining - 3/1/2019, \$29.00
- ISO/DIS 1833-15, Textiles - Quantitative chemical analysis - Part 15: Mixtures of jute with certain animal fibres (method by determining nitrogen content) - 3/10/2019, \$33.00
- ISO/DIS 18692-3, Fibre ropes for offshore stationkeeping - Part 3: High modulus polyethylene (HMPE) - 3/8/2019, \$62.00

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

- ISO 11040-4/DAmD1, Prefilled syringes - Part 4: Glass barrels for injectables and sterilized subassembled syringes ready for filling - Amendment 1 - 3/11/2019, \$33.00
- ISO/DIS 8871-2, Elastomeric parts for parenterals and for devices for pharmaceutical use - Part 2: Identification and characterization - 3/10/2019, \$71.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

- ISO/DIS 21219-2, Intelligent transport systems - Traffic and travel information (TTI) via transport protocol experts group, generation 2 (TPEG2) - Part 2: UML modelling rules (TPEG2-UMR) - 1/13/2019, \$112.00

ISO/IEC JTC 1, Information Technology

- ISO/IEC 9594-1/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 1: Overview of concepts, models and services - Amendment 1 - 3/11/2019, \$29.00
- ISO/IEC 9594-2/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 2: Models - Amendment 1: Password policy support - 3/11/2019, \$46.00
- ISO/IEC 9594-3/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 3: Abstract service definition - Amendment 1: Password policy support - 3/11/2019, \$33.00
- ISO/IEC 9594-4/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 4: Procedures for distributed operation - Amendment 1: Password policy support - 3/11/2019, \$29.00
- ISO/IEC 9594-5/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 5: Protocol specifications - Amendment 1: Password policy support - 3/11/2019, \$40.00
- ISO/IEC 9594-6/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 6: Selected attribute types - Amendment 1: Password policy support - 3/11/2019, \$33.00
- ISO/IEC 9594-7/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 7: Selected object classes - Amendment 1: Password policy support - 3/11/2019, \$29.00
- ISO/IEC 9594-8/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 8: Public-key and attribute certificate frameworks - Amendment 1: Password policy support - 3/11/2019, \$53.00
- ISO/IEC 9594-9/DAmD1, Information technology - Open Systems Interconnection - The Directory - Part 9: Replication - Amendment 1: Password policy support - 3/11/2019, \$29.00
- ISO/IEC DIS 26561, Software and systems engineering - Methods and tools for product line technical probe - 1/11/2019, \$107.00
- ISO/IEC DIS 26562, Software and systems engineering - Methods and tools for product line transition management - 1/11/2019, \$102.00
- ISO/IEC DIS 23092-3, Information Technology - ISO/IEC 23092 - Part 3: Genomic information metadata and application programming interfaces (APIs) - 1/13/2019, \$165.00
- ISO/IEC DIS 39794-4, Information technology - Extensible biometric data interchange formats - Part 4: Finger image data - 3/16/2019, \$155.00

IEC Standards

- 2/1931/CDV, IEC 60034-18-42/AMD1 ED1: Amendment 1 - Rotating electrical machines - Part 18-42: Partial discharge resistant electrical insulation systems (Type II) used in rotating electrical machines fed from voltage converters - Qualification tests, 2019/3/15
- 3/1390/FDIS, IEC/IEEE 82079-1 ED2: Preparation of information for use (instructions for use) of products - Part 1: Principles and general requirements, 019/2/1/
- 3D/323/DC, IEC Common Data Dictionary (IEC CDD): C00074 - Safety position switches, 019/2/1/
- 9/2467/FDIS, IEC 61991 ED2: Railway applications - Rolling stock - Protective provisions against electrical hazards, 019/2/1/
- 22E/196/FDIS, IEC 62909-2 ED1: Bi-directional grid-connected power converters - Part 2: Interface of GCPC and distributed energy resources, 019/2/1/
- 22G/383/CD, IEC 61800-5-3 ED1: Adjustable speed electrical power drive systems - Part 5-3: Safety requirements for encoders - Functional, Electrical and Environmental, 2019/3/15
- 23/830/CDV, IEC 63172 ED1: Methodology for determining the energy efficiency class of electrical accessories, 2019/3/15
- 27/1101/CDV, IEC 60519-1 ED6: Safety in installations for electroheating and electromagnetic processing - Part 1: General requirements, 2019/3/15
- 32B/684/CD, IEC 60269-7 ED1: Low-voltage fuses - Part 7: Fuse links for the protection of batteries, 2019/3/15
- 32B/685/CD, IEC TR 60269-5/AMD1 ED2: Low-voltage fuses - Part 5: Guidance for the application of low-voltage fuses, 2019/3/15
- 34/588/CD, IEC 63129 ED1: Determination of inrush current characteristics of lighting products, 2019/3/15
- 37A/316/CDV, IEC 61643-12 ED3: Low-voltage surge protective devices - Part 12: Surge protective devices connected to low-voltage power systems - Selection and application principles, 2019/3/15
- 45A/1257/CD, IEC 63160 ED1: Nuclear facilities - Instrumentation, control and electrical power systems important to safety - Common cause failure, system analysis and diversity, 2019/2/15
- 45A/1255/CD, IEC/IEEE 60980-344 ED1: Nuclear facilities - Equipment important to safety - Seismic qualification, 2019/2/15
- 45A/1256/CD, IEC 63096 ED1: Nuclear power plants - Instrumentation, control and electrical power systems - Security controls, 2019/2/15
- 45B/920/CDV, IEC 63121 ED1: Radiation protection instrumentation - Vehicle-mounted mobile systems for the detection of illicit trafficking of radioactive materials, 2019/3/15
- 47/2534/FDIS, IEC 62951-5 ED1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 5: Test method for thermal characteristics of flexible materials, 019/2/1/
- 47/2533/FDIS, IEC 62951-7 ED1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 7: Test method for characterizing the barrier performance of thin film encapsulation for flexible organic semiconductor, 019/2/1/
- 47A/1072/CD, IEC 61967-4 ED2: Integrated circuits - Measurement of electromagnetic emissions - Part 4: Measurement of conducted emissions, 1 ohm/150 ohm direct coupling method, 2019/3/15

- 47F/320/CDV, IEC 62047-35 ED1: Semiconductor devices - Micro-electromechanical devices - Part 35: Test method of electrical characteristics under bending deformation for flexible and foldable electro-mechanical devices, 2019/3/15
- 48B/2712/CD, IEC 63171-2/ED.1: Connectors for electrical and electronic equipment - Part 2: Detail specification for 2-way, shielded or unshielded, free and fixed connectors: mechanical mating information, pin assignment and additional requirements for type 2, 2019/3/15
- 48B/2711/FDIS, IEC 61076-3-124/Ed1: Connectors for electrical and electronic equipment - Product requirements - Part 3-124: Rectangular connectors - Detail specification for 10-way, shielded, free and fixed connectors for I/O and data transmission with frequencies up to 500 MHz, 019/2/1/
- 48B/2713/CD, IEC 60603-7 ED4: Connectors for electronic equipment - Part 7: Detail specification for 8-way, unshielded, free and fixed connectors, 2019/3/15
- 51/1265/FDIS, IEC 63093-4 ED1: Ferrite cores - Guidelines on dimensions and the limits of surface irregularities - Part 4: RM-cores, 019/2/1/
- 55/1748/CD, IEC 60317-27-1 ED1: Specifications for particular types of winding wires - Part 27-1: Paper tape covered round copper wire, 2019/3/15
- 55/1749/CD, IEC 60317-27-2 ED1: Specifications for particular types of winding wires - Part 27-2: Paper tape covered round aluminum wire, 2019/3/15
- 55/1750/CD, IEC 60317-27-4 ED1: Specifications for particular types of winding wires - Part 27-4: Paper tape covered rectangular aluminum wire, 2019/3/15
- 56/1825/CDV, IEC 61163-2 ED2: Reliability stress screening - Part 2: Components, 2019/3/15
- 59L/168/CDV, IEC 60704-2-7 ED2: Household and similar electrical appliances - Test code for the determination of airborne acoustical noise - Part 2-7: Particular requirements for fans, 2019/3/15
- 62D/1660/CD, IEC 80601-2-87 ED1: Medical electrical equipment - Part 2-87: Particular requirements for the basic safety and essential performance of high frequency critical care ventilators, 2019/2/15
- 64/2358/CD, IEC TS 61200-102 ED1: Electrical installation guide - Part 102: Application guide on Low Voltage direct current electrical installation not intended to be connected to Public Distribution Network, 2019/3/15
- 65/735/FDIS, IEC 62443-4-2 ED1: Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components, 019/2/1/
- 65B/1144/CD, IEC 60751 ED3: Industrial platinum resistance thermometers and platinum temperature sensors, 2019/3/15
- 65B/1145/CD, IEC 60584-3 ED3: Thermocouples - Part 3: Extension and compensating cables - Tolerances and identification system, 2019/3/15
- 69/636/CD, IEC TS 61851-3-3 ED1: Electric vehicles conductive power supply system - Part 3-3: Requirements for Light Electric Vehicles (LEV) battery swap systems, 2019/3/15
- 69/634/FDIS, ISO 15118-1 ED2: Road vehicles - Vehicle to grid communication interface - Part 1: General information and use case definition, 019/2/1/
- 80/910/CD, IEC 63173 ED1: Maritime navigation and radiocommunication equipment and systems - Data Interface - Part 1: S-421 Route Plan Based on S-100, 2019/2/15
- 86B/4167/FDIS, IEC 61300-2-46 ED2: Fibre optic interconnecting devices and passive components - Basic test and measurement procedures - Part 2-46: Tests - Damp heat, cyclic, 019/2/1/
- 86B/4168/CD, IEC 61755-3-11 Fibre Optic Interconnecting Devices and Passive Components - Connector Optical Interfaces - Part 3-11: Connector parameters for connections of non-dispersion shifted single mode physically contacting fibres - Non-angled cylindrical full zirconia ferrules, core location variant 3, 2019/3/15
- 86B/4169/CD, IEC 61755-3-12 Fibre Optic Interconnecting Devices and Passive Components - Connector Optical Interfaces - Part 3-12: Connector parameters for connections of non-dispersion shifted single mode physically contacting fibres - Angled cylindrical full zirconia ferrules, core location variant 3, 2019/3/15
- 86C/1572/DTR, IEC TR 61282-14 ED2: Fibre optic communication system design guides - Part 14: Determination of the uncertainties of attenuation measurements in fibre plants, 2019/2/15
- 86C/1573/DTR, IEC TR 61282-5 ED2: Fibre optic communication system design guides - Part 5: Accommodation and compensation of chromatic dispersion, 2019/2/15
- 94/446/CD, IEC 61810-4 ED1: Electromechanical elementary relays - Part 4: Reed relays - General and safety requirements, 2019/2/15
- 110/1072/CD, IEC 62595-2-4 ED1: Display Lighting Unit - Part 2-4: Electro-optical measuring methods of laser module, 2019/2/15
- 111/512/NP, PNW 111-512: Determination of certain substances in electrotechnical products - Part 3-4: Screening of Phthalates in polymers of electrotechnical products by Fourier transform infrared spectroscopy (FT-IR), high performance liquid chromatography with ultraviolet detector (HPLC-UV), and thermal desorption mass spectrometry (TD-MS), 2019/3/15
- 111/513/NP, PNW 111-513: Determination of certain substances in electrotechnical products - Part 12: Simultaneous determination - Polybrominated biphenyls, polybrominated diphenyl ethers and phthalates in polymers by gas chromatography-mass spectrometry, 2019/3/15
- 121A/259/CDV, IEC 60947-4-2 ED4: Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - Semiconductor motor controllers, starters and soft-starters, 2019/3/15
- CIS/A/1282/CD, CISPR TR 16-4-5/AMD2 ED1: Specification for radio disturbance and immunity measuring apparatus and methods - Part 4-5: Uncertainties, statistics and limit modelling - Conditions for the use of alternative test methods, 2019/3/15
- JTC1-SC25/2842/CDV, ISO/IEC 14543-3-10 ED2: Information technology - Home electronic system (HES) architecture - Part 3-10: Wireless short-packet (WSP) protocol optimised for energy harvesting - Architecture and lower layer protocols, 2019/3/15



Newly Published ISO Standards

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

ISO/IEC JTC 1 Technical Reports

ISO/IEC TR 23186:2018, Information technology - Cloud computing - Framework of trust for processing of multi-sourced data, \$103.00

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

ISO 15195:2018, Laboratory medicine - Requirements for the competence of calibration laboratories using reference measurement procedures, \$68.00

COMMON NAMES FOR PESTICIDES AND OTHER AGROCHEMICALS (TC 81)

ISO 257:2018, Pesticides and other agrochemicals - Principles for the selection of common names, \$103.00

ENVIRONMENTAL MANAGEMENT (TC 207)

ISO 14064-1:2018, Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals, \$185.00

FLUID POWER SYSTEMS (TC 131)

ISO 6150:2018, Pneumatic fluid power - Cylindrical quick-action couplings for maximum working pressures of 1 MPa, 1,6 MPa, and 2,5 MPa (10 bar, 16 bar, and 25 bar) - Plug connecting dimensions, specifications, application guidelines and testing, \$103.00

HUMAN RESOURCE MANAGEMENT (TC 260)

ISO 30414:2018, Human resource management - Guidelines for internal and external human capital reporting, \$162.00

IMPLANTS FOR SURGERY (TC 150)

ISO 18192-1/Amd1:2018, Implants for surgery - Wear of total intervertebral spinal disc prostheses - Part 1: Loading and displacement parameters for wear testing and corresponding environmental conditions for test - Amendment 1, \$19.00

LEARNING SERVICES FOR NON-FORMAL EDUCATION AND TRAINING (TC 232)

ISO 29992:2018, Assessment of outcomes of learning services - Guidance, \$103.00

OTHER

ISO 5398-4:2018, Leather - Chemical determination of chromic oxide content - Part 4: Quantification by inductively coupled plasma (ICP), \$45.00

ISO 17226-1:2018, Leather - Chemical determination of formaldehyde content - Part 1: Method using high performance liquid chromatography, \$68.00

ISO 17226-2:2018, Leather - Chemical determination of formaldehyde content - Part 2: Method using colorimetric analysis, \$68.00

PAPER, BOARD AND PULPS (TC 6)

ISO 21400:2018, Pulp - Determination of cellulose nanocrystal sulfur and sulfate half-ester content, \$138.00

PLASTICS (TC 61)

ISO 294-4:2018, Plastics - Injection moulding of test specimens of thermoplastic materials - Part 4: Determination of moulding shrinkage, \$68.00

ISO 9994:2018, Lighters - Safety specifications, \$162.00

ISO 22702:2018, Utility lighters - Safety specifications, \$138.00

QUALITY MANAGEMENT AND CORRESPONDING GENERAL ASPECTS FOR MEDICAL DEVICES (TC 210)

ISO 18250-7:2018, Medical devices - Connectors for reservoir delivery systems for healthcare applications - Part 7: Connectors for intravascular infusion, \$162.00

ROAD VEHICLES (TC 22)

ISO 3888-1:2018, Passenger cars - Test track for a severe lane-change manoeuvre - Part 1: Double lane-change, \$45.00

TEXTILES (TC 38)

ISO 18254-2:2018, Textiles - Method for the detection and determination of alkylphenol ethoxylates (APEO) - Part 2: Method using NPLC, \$103.00

TOURISM AND RELATED SERVICES (TC 228)

ISO 21401:2018, Tourism and related services - Sustainability management system for accommodation establishments - Requirements, \$162.00

TRADITIONAL CHINESE MEDICINE (TC 249)

ISO 21315:2018, Traditional Chinese medicine - Ganoderma lucidum fruiting body, \$103.00

WATER RE-USE (TC 282)

ISO 20670:2018, Water reuse - Vocabulary, \$45.00

ISO Technical Reports

NANOTECHNOLOGIES (TC 229)

ISO/TR 12885:2018, Nanotechnologies - Health and safety practices in occupational settings, \$232.00

SAFETY OF MACHINERY (TC 199)

ISO/TR 22100-4:2018, Safety of machinery - Relationship with ISO 12100 - Part 4: Guidance to machinery manufacturers for consideration of related IT-security (cyber security) aspects, \$103.00

TRANSPORT INFORMATION AND CONTROL SYSTEMS (TC 204)

ISO/TR 21190:2018, Electronic fee collection - Investigation of charging policies and technologies for future standardization, \$209.00

ISO Technical Specifications

APPLICATIONS OF STATISTICAL METHODS (TC 69)

ISO/TS 28038:2018, Determination and use of polynomial calibration functions, \$209.00

EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

ISO/TS 21805:2018, Guidance on design, selection and installation of vents to safeguard the structural integrity of enclosures protected by gaseous fire-extinguishing systems, \$162.00

INDUSTRIAL AUTOMATION SYSTEMS AND INTEGRATION (TC 184)

ISO/TS 10303-1129:2018, Industrial automation systems and integration - Product data representation and exchange - Part 1129: Application module: External properties, \$68.00

Proposed Foreign Government Regulations

Call for Comment

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

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

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

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

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

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

Information Concerning

American National Standards

Call for Members

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

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

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

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

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

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

Society of Cable Telecommunications

ANSI Accredited Standards Developer

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

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

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

ANSI Accredited Standards Developers

Approval of Accreditation as an ANSI ASD

Aerospace Industries Association (AIA)

ANSI's Executive Standards Council has approved the Aerospace Industries Association (AIA), an ANSI member, as an ANSI Accredited Standards Developer (ASD) under its proposed operating procedures for documenting consensus on AIA-sponsored American National Standards, effective December 21, 2018. For additional information, please contact: Mr. Christopher Carnahan, Director, Standardization, Aerospace Industries Association, 1000 Wilson Boulevard, Suite 1700, Arlington, VA 22032; phone: 703.358.1052; e-mail: chris.carnahan@aia-aerospace.org.

Approval of Reaccreditation

Steel Joist Institute (SJI)

The reaccreditation of the Steel Joist Institute (SJI), 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 SJI-sponsored American National Standards, effective December 21, 2018. For additional information, please contact: Mr. J. Kenneth Charles III, Managing Director, Steel Joist Institute, 234 W. Cheves Street, Florence, SC 29501; phone: 843.407.4091; e-mail: kcharles@steeljoist.org.

Information Concerning

International Organization for Standardization (ISO)

Call for U.S. TAG Administrators TC 114 – *Horology*

There is currently no ANSI-accredited U.S. TAG Administrator for TC 114, TC 114/SC 3, TC 114/SC 12, TC 114/SC 13, TC 114/SC 14, and therefore ANSI is not a member of these committees. The Secretariats for these committees are currently held by Switzerland (SNV) for TC 114, TC 114,SC 3, TC 114/SC 13; by Japan (JISC) for TC 114/SC 12; and by China (SAC) for TC 114/SC 14.

TC 114 operates under the following scope:

Standardization in the field of instruments of small and large size intended for measuring time and time keeping :

- *terminology;*
- *technical definitions;*
- *standardization of overall dimensions;*
- *any other questions which may be proposed in the future*

TC 114/SC 3 operates under the following scope:

Water-resistant watches

TC 114/SC 12 operates under the following scope:

Antimagnetism

TC 114/SC 13 operates under the following scope:

Watch-glasses

TC 114/SC 14 operates under the following scope:

Table and wall clocks

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

2018 Summary of Complaints and Appeals Concerning the American National Standards (ANS) Process

Below is a summary of appeals and complaint decisions issued in 2018. Questions may be directed to psa@ansi.org.

- **ANSI Executive Standards Council (ExSC)**

1. Appeal filed jointly by BlackBerry Limited, Ericsson Inc., Koninklijke Philips N.V., Dolby Laboratories and Orange of an ANSI Executive Standards Council (ExSC) decision concerning the ANSI patent policy. Appeal denied.
2. Appeal filed jointly by Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e. V. and Fraunhofer USA, Inc. of an ANSI Executive Standards Council (ExSC) decision concerning the ANSI patent policy. Appeal denied.
3. Complaint filed by PGMA of UL's approval, as an Audited Designator, of UL 2201 *Standard for Tests for Determining CO Emission Rate of Portable Generators* as an ANS. Complaint dismissed. (Appeal pending at the ANSI Appeals Board level.)

- **ANSI Board of Standards Review (BSR)**

1. Withdrawal for cause request filed jointly by NFSI, Ehlinger & Associates, P.C., Traction Auditing, L.L.C., Mr. Marc Adelman and Mr. Steve Spencer (collectively "NFSI Joint Request") to withdraw for cause *ANSI A137.1-2017 Standard Specifications for Ceramic Tile* and *ANSI A326.3-2017 Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials* as American National Standards (ANS). Withdrawal request denied.
2. Withdrawal for cause request filed by George Willingmyre of five IEEE standards approved as American National Standards (ANS): *IEEE 802.11n-2009 Standard for Local and Metropolitan Area Networks - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) - Amendment: Enhancements for Higher Throughput*; *IEEE 802.16-2009 Standard for Local and Metropolitan Area Networks - Part 16: Air Interface for Fixed and Mobile Broadband Wireless Access Systems*; *IEEE 1901-2010 Standard for Broadband over Power Line Networks: Medium Access Control and Physical Layer Specifications*; *IEEE 802.11z-2010 Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 11: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment 7: Extensions to Direct Link Setup (DLS)*; and *IEEE 802.11v-2011 Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Networks - Specific Requirements - Part II: Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications - Amendment: IEEE 802.11 Wireless Network Management*. Withdrawal request denied.
3. Appeal filed by Techtronic Industries Power Equipment (TTi) with the ANSI Board of Standards Review (BSR) in connection with its decision to approve the revision of *PGMA G300-2018 Safety and Performance of Portable Generators* as an American National Standard (ANS). Appeal denied.
4. Withdrawal for cause request filed by Eaton Corporation of *ANSI/NETA ATS-2017 Standard for Acceptance Testing Specifications for Electrical Power Equipment and Systems* as an American National Standard (ANS). Withdrawal request granted in part and rejected in part, but ANS approval stands pending compliance with the decision. (Appeals filing period open at the ANSI Appeals Board level.)

- **ANSI Appeals Board**

1. Appeal filed by Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e. V. and Fraunhofer USA, Inc. (collectively "Fraunhofer") appealing a decision of a Panel of the ANSI Executive Standards Council (ExSC) concerning the ANSI patent policy. Appeal denied.
2. Appeal filed by Ericsson Inc., Koninklijke Philips N.V., Dolby Laboratories and Orange (collectively "Ericsson") appealing a decision of a Panel of the ANSI Executive Standards Council (ExSC) concerning the ANSI patent policy. Appeal denied.
3. Appeal filed jointly by NFSI, Ehlinger & Associates, P.C., Traction Auditing, L.L.C., Mr. Marc Adelman and Mr. Steve Spencer (collectively "NFSI Joint Requesters") of the ANSI BSR's decision to dismiss the withdrawal for cause of *ANSI A137.1-2017 Standard Specifications for Ceramic Tile* and *ANSI A326.3-2017 Test Method for Measuring Dynamic Coefficient of Friction of Hard Surface Flooring Materials* as American National Standards (ANS). Appeal dismissed.
4. Appeal filed by PGMA of the ANSI ExSC's decision to dismiss its complaint against UL's approval, as an Audited Designator, of UL 2201 *Standard for Tests for Determining CO Emission Rate of Portable Generators* as an ANS. Appeal pending before the ANSI Appeals Board.

Notice of Continued Stabilized Maintenance of INCITS ANS

On July 26, 2018, the INCITS Executive Board completed their approval for the 10-year stabilized maintenance action for the standards listed below and determined in connection with this approval that these standards stabilized in 2008 shall continue to be maintained under the stabilized maintenance option in accordance with section 4.7.3 *Stabilized maintenance of American National Standards of the ANSI Essential Requirements* (www.ansi.org/essentialrequirements). Questions may be directed to comments@standards.incits.org.

Approved ANS	Title of Standard
INCITS/ISO/IEC 10536-2:1995 (S2018)	Identification cards - Contactless integrated circuit(s) cards - Part 2: Dimensions and location of coupling areas
INCITS 137-1988 (S2018)	Information Systems - One- and Two-sided, Unformatted, 90-mm (3.5-in), 5.3-tpmm (135-tpi) Flexible Disk Cartridge for 7958 BPR Use - General, Physical, and Magnetic Requirements
INCITS 148-1988 (S2018)	Information Systems - Fiber Distributed Data Interface (FDDI) - Token Ring Physical Layer Protocol (PHY)
INCITS 224-1994 (S2018)	Information Systems - Extended Magnetic Tape Format for Information Interchange (18-Track, Parallel, 12.65 mm (0.50 in), 1491 cpmm (37 871 cpi), Group-Coded Recording)
INCITS 225-1994 (S2018)	Information Systems - Compaction Algorithm - Binary Arithmetic Coding
INCITS 226-1994 (S2018)	Information Technology - Programming Language - Common Lisp
INCITS 229-1994 (S2018)	Information Systems - Fibre Distributed Data interface (FDDI) - Station Management (SMT)
INCITS 231-1994 (S2018)	Information Systems - Fiber Distributed Data Interface (FDDI) - Physical Layer Protocol (PHY-2)
INCITS 239-1994 (S2018)	Information Systems - Fibre Distributed Data Interface (FDDI) - Token Ring Media Access Control-2 (MAC-2)
INCITS 241-1994 (S2018)	Information Systems - Data Compression Method - Adaptive Coding with Sliding Window for Information Interchange
INCITS 242-1994 (S2018)	Information Systems - Magnetic Tape Cartridge for Information Interchange - 0.50 in (12.65 mm), Serial Serpentine, 48-Track, 42 500 bpi (1 673 bpmm) DLT1 Format
INCITS/ISO/IEC 11557:1992 (S2018)	Information Technology - 3.81 mm Wide Magnetic Tape Cartridge for Information Interchange - Helical Scan Recording - DDS-DC Format Using 60 m and 90 m Length Tapes
INCITS/ISO/IEC 9160:1998 (S2018)	Information Processing - Data Encipherment - Physical Layer Interoperability Requirements
INCITS/ISO/IEC 9171-2:1990 (S2018)	Information Technology - 130 mm Optical Disk Cartridge, Write Once, for Information Interchange - Part 2: Recording Format





**BSR/ASHRAE Addendum br to
ANSI/ASHRAE Standard 135-2016**

Public Review Draft

Proposed Addendum br to Standard 135-2016, BACnet[®] - A Data Communication Protocol for Building Automation and Control Networks

**First Publication Public Review (December 2018)
(Draft shows Proposed Changes to Current Standard)**

This draft has been recommended for public review by the responsible project committee. To submit a comment on this proposed standard, go to the ASHRAE website at www.ashrae.org/standards-research--technology/public-review-drafts and access the online comment database. The draft is subject to modification until it is approved for publication by the Board of Directors and ANSI. Until this time, the current edition of the standard (as modified by any published addenda on the ASHRAE website) remains in effect. The current edition of any standard may be purchased from the ASHRAE Online Store at www.ashrae.org/bookstore or by calling 404-636-8400 or 1-800-727-4723 (for orders in the U.S. or Canada).

This standard is under continuous maintenance. To propose a change to the current standard, use the change submittal form available on the ASHRAE website, www.ashrae.org.

The appearance of any technical data or editorial material in this public review document does not constitute endorsement, warranty, or guaranty by ASHRAE of any product, service, process, procedure, or design, and ASHRAE expressly disclaims such.

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ASHRAE, 1791 Tullie Circle, NE, Atlanta GA 30329-2305

[This foreword and the “rationales” on the following pages are not part of this standard. They are merely informative and do not contain requirements necessary for conformance to the standard.]

FOREWORD

The purpose of this addendum is to present a proposed change for public review. These modifications are the result of change proposals made pursuant to the ASHRAE continuous maintenance procedures and of deliberations within Standing Standard Project Committee 135. The proposed changes are summarized below.

135-2016*br*-1. Add new engineering units, p. 3.

135-2016*br*-2. Add mandate to accept writes of NULL to non-commandable properties, p. 4.

135-2016*br*-3. Add intrinsic fault reporting to Lighting Output object type, p. 6.

135-2016*br*-4. Deprecate Time form of timestamps, p. 10

135-2016*br*-5. Clarify the Multi-state object types when Number_Of_States shrinks, p. 12

135-2016*br*-6. Fix the language for event type and message text parameters of event notifications, p. 14

135-2016*br*-7. Clarify the object instance 4194303, p. 16

135-2016*br*-8. Wildcard instance for Network Port objects in ReadPropertyMultiple requests, p. 17

135-2016*br*-9. Clarify the timestamp of trend log and trend log multiple log records, p. 18

In the following document, language to be added to existing clauses of ANSI/ASHRAE Standard 135-2016 and Addenda is indicated through the use of *italics*, while deletions are indicated by ~~strike through~~. Where entirely new subclauses are proposed to be added, plain type is used throughout. Only this new and deleted text is open to comment at this time. All other material in this addendum is provided for context only and is not open for public review comment except as it relates to the proposed changes.

This is a review of Independent Substantive Changes that were made since the last public review. Areas where substantive changes have been made are highlighted in gray. In these areas, text that was removed from the previous public review is provided for reference but is shown in ~~double-strikeout~~ and text that has been added is shown with double underlines. This notation allows changes between reviewed versions to be indicated while preserving the traditional meaning of italics and single strikeout to indicate changes to the standard.

Only the changes highlighted in gray are open to comment at this time. All other material in this addendum is provided for context only and is not open for public review comment except as it relates to the proposed changes.

The use of placeholders like XX, YY, ZZ, X1, X2, NN, x, n, etc., should not be interpreted as literal values of the final published version. These placeholders will be assigned actual numbers/letters only after final publication approval of the addendum.

135-2016br-6. Fix the language for event type and message text parameters of event notifications.**Rationale**

In Table 13-3, the 'Event Type' parameter in the Acknowledgment Transition column is contradicting the structure of the ConfirmedEventNotification request in Clause 13.8.1 and the structure of the UnconfirmedEventNotification request in Clause 13.9.1

The definition of the 'Event Type' parameter in Clauses 13.8.1.1.7 and 13.9.1.1.7 does not mention the 'Event Type' for transitions to the FAULT event state and from the FAULT event state.

Also for the 'Message Texts' parameter of these services, clarify their requirement to derive the value from the value configured in the corresponding transition in the Event_Message_Texts_Config property, if that property exists, and to place the value into the corresponding Event_Message_Texts, if that property exists.

[Change **Clause 13.2.5.2**, p. 599]

13.2.5.2 Service Parameters of Event Notification Service Requests

...

Table 13-3. Event Notification Service Parameter Values

Service Parameter	Event State Transition (all transitions)	Acknowledgment Transition
...
Event Type	When 'To State' or 'From State' is FAULT, set to CHANGE_OF_RELIABILITY, Otherwise the value associated with the event-initiating object's <i>configured</i> event algorithm.	Not present When 'To State' is FAULT, set to CHANGE_OF_RELIABILITY. When 'To State' is NORMAL, and the device can determine reporting acknowledgement of a transition from FAULT, set to CHANGE_OF_RELIABILITY. Otherwise the value associated with the event-initiating object's <i>configured</i> event algorithm.
Message Text	Optional The value is <i>derived from the value in the Event_Message_Texts_Config property configured in the entry corresponding to the transition, if the property exists. Otherwise the value is a local matter. The Message Text transmitted</i> is reflected into the Event_Message_Texts array, if the property exists.	Optional The value is a local matter.
...

[Change **Clause 13.8.1.1.7 and 13.8.1.1.8**, p. 644]

13.8.1.1.7 Event Type

This parameter, of type BACnetEventType, shall specify the type of event that has occurred.

If 'Notify Type' is ALARM or EVENT when ~~When~~ the 'To State' parameter is FAULT, then this parameter shall have a value of CHANGE_OF_RELIABILITY. The Event Type CHANGE_OF_RELIABILITY shall be used for reporting a transition from FAULT. Otherwise, this parameter shall have the value associated with the event-initiating object's configured event algorithm.

If 'Notify Type' is ACK_NOTIFICATION when 'To State' is FAULT, the Event Type shall be CHANGE_OF_RELIABILITY. When 'To State' is NORMAL, and the device can determine reporting acknowledgement of a transition from FAULT, the Event Type shall be CHANGE_OF_RELIABILITY. Otherwise, the Event Type shall be the value associated with the event-initiating object's configured event algorithm.

13.8.1.1.8 Message Text

This optional parameter, of type CharacterString, shall convey a string of printable characters. This parameter may be used to convey a message to be logged or displayed, which pertains to the occurrence of the event.

If 'Notify Type' is ALARM or EVENT, the ~~The~~ content of the message is a local matter. text shall be derived from the value in the Event_Message_Texts_Config entry corresponding to the transition, if the property exists. Otherwise, the value is a local matter. If the optional property Event_Message_Texts is present in the event-initiating ~~generating~~ object, the text conveyed in this Message Text parameter shall be stored in the respective field of the Event_Message_Texts array.

If 'Notify Type' is ACK_NOTIFICATION, the value is a local matter.

[Change **Clause 13.9.1.1.7 and 13.9.1.1.8** p. 647]

13.9.1.1.7 Event Type

This parameter, of type BACnetEventType, shall specify the type of event that has occurred.

If 'Notify Type' is ALARM or EVENT when ~~When~~ the 'To State' parameter is FAULT, then this parameter shall have a value of CHANGE_OF_RELIABILITY. The Event Type CHANGE_OF_RELIABILITY shall be used for reporting a transition from FAULT. Otherwise, this parameter shall have the value associated with the event-initiating object's configured event algorithm.

If 'Notify Type' is ACK_NOTIFICATION when 'To State' is FAULT, the Event Type shall be CHANGE_OF_RELIABILITY. When 'To State' is NORMAL, and the device can determine reporting acknowledgement of a transition from FAULT, the Event Type shall be CHANGE_OF_RELIABILITY. Otherwise, the Event Type shall be the value associated with the event-initiating object's configured event algorithm.

13.9.1.1.8 Message Text

This optional parameter, of type CharacterString, shall convey a string of printable characters. This parameter may be used to convey a message to be logged or displayed, which pertains to the occurrence of the event.

If 'Notify Type' is ALARM or EVENT, the ~~The~~ content of the message is a local matter. text shall be derived from the value in the Event_Message_Texts_Config property entry corresponding to the transition, if the property exists. Otherwise, the value is a local matter. If the optional property Event_Message_Texts is present in the event-initiating ~~generating~~ object, the text conveyed in this Message Text parameter shall be stored in the respective field of the Event_Message_Texts array.

If 'Notify Type' is ACK_NOTIFICATION, the value is a local matter.

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

NSF/ANSI International Standard for Biosafety Cabinetry —

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

-
-
-

Annex F (normative)

Field tests

-
-
-

F.12.1 Certification label

Biosafety cabinets field tested to this standard shall include the following information:

- date of certification;
- date cabinet should be recertified: no later than _____;
- certifier's report number (reference document showing tests performed and results);
- name ~~address, and telephone number~~ of certifying company, company website and telephone number. A street address shall be used if a website is not available; ~~and~~
- unit serial number, certifier's report number (reference document showing tests performed and results); and
- printed name and signature of the person who performed the field certification tests.

Rationale: information is now easy to access on the internet, and this change will open up more space on labels making it easier to display the important immediate information like model, serial number, due date, etc.

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

NSF/ANSI Standard

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

Evaluation criteria for materials, components, products, equipment, and systems for use at recreational water facilities

-
-
-

14 Ultraviolet (UV) light process equipment

-
-
-

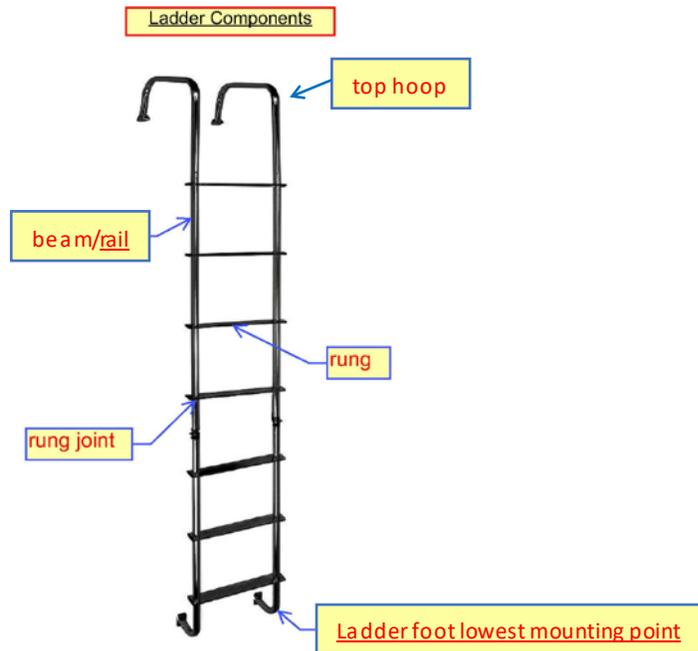
14.5 Performance indication

Each system shall incorporate on the control panel a constantly visible readout of the actual flow (in US GPM), the actual calculated dose (in mJ/cm^2) and the actual lamp intensity (in ~~w/cm^2~~ w/m^2).

12/7/2018

2018 ANSI/RVIA EXTLAD-1 Code Change Proposals

1.1.3 Figure A-3 Revise the term “beam” in Figure A-3 to read “beam/rail”



6.1.2 Rungs shall be corrugated, serrated, knurled, dimpled, or coated with a slip and skid-resistant material.

6.1.3 The ladder standoffs for attaching to the recreational vehicle wall shall be of such length to provide no less than 7 3-1/2 inches (177 89 mm) minimum clearance between the ladder rungs and the wall surface behind the ladder.

6.1.4 Ladder rungs, ~~cleats and steps~~ shall be parallel, level and uniformly equally spaced.

6.1.5 Rungs, cleats and steps shall be vertically spaced no less than 10 inches (254 mm) apart, and not more than ~~14 inches (355 mm)~~ 15 inches (380mm) apart, as measured from center to center of the rungs along the full length of the ladder.

To be published as ANSI/TIA-568.2-D-1

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Balun requirements for Category 8 testing

FOREWORD **ii**

Introduction..... **3**

 1 Scope 4

 2 Balun requirements 4

LIST OF TABLES

Table 1 - Test balun performance characteristics 1 MHz to 2 GHz 4

DRAFT

11 FOREWORD

12 (This forward is not a part of this Addendum.)

13

14 This project was initiated to serve a need to accurately measure Category 8 and better cabling and
15 components using balun transformers in the measurement path. The scope of the project includes
16 frequencies above 500 MHz and up to 2.0 GHz with balun requirements to ensure accuracy of
17 measurement. The requirements of baluns between 500 MHz and 2000 MHz are enhanced to
18 assure accurate measurements.

19

20 This Addendum was developed by TIA Subcommittee TR-42.7.

21

22 Approval of this Addendum

23 This Addendum was approved by TIA Sub-Committee TR-42.7, TIA Engineering Committee TR-42,
24 and the American National Standards Institute (ANSI).

25

26 ANSI/TIA reviews standards every 5 years. At that time, standards are reaffirmed, rescinded, or
27 revised according to the submitted updates. Updates to be included in the next revision should be
28 sent to the committee chair or to ANSI/TIA.

29

30 Contributing Organizations

31 More than 30 organizations within the telecommunications industry contributed their expertise to
32 the development of this Addendum (including manufacturers, consultants, end users, and other
33 organizations).

34

35 Annexes

36 There are no annexes in this Addendum.

37

To be published as ANSI/TIA-568.2-D-1

38 **Introduction**

39 This addendum describes balun requirements for obtaining performance measurements of passive
40 devices designed for differential signal transmission. The measurements are generally aimed at swept
41 frequency response measurements where the source signal is provided by test equipment. A network
42 analyzer is typically used for these types of measurements. The primary enhancement of these
43 requirements relative to balun specifications in the main body of the TIA 568.2-D standard is enhanced
44 properties at frequencies above 500 MHz and up to 2 GHz. These frequencies of are generally covered
45 using balunless measurement methods described in ANSI/TIA 1183-A.

46 **Purpose**

47 Enhanced balun requirements ensure measurement accuracy at frequencies above 500 MHz and up to
48 2 GHz when using baluns in the measurement path as opposed to balunless methods.

49 **Specification of criteria**

50 Two categories of criteria are specified; mandatory and advisory. The mandatory requirements are
51 designated by the word "shall"; advisory requirements are designated by the words "should", "may", or
52 "desirable" which are used interchangeably in this Addendum.

53
54 Mandatory criteria apply to performance and compatibility; they specify the absolute minimum acceptable
55 requirements. Advisory or desirable criteria are presented when their attainment will enhance the general
56 performance of the testing platform in all its contemplated applications.

57
58 A note in the text, table, or figure is used for emphasis or offering informative suggestions.

59 **Metric equivalents of US customary units**

60 The majority of the metric dimensions in this Addendum are metric with soft conversions to US customary
61 units; e.g., 4 inches (in) is the soft conversion of 100 millimeters (mm).

62 **Life of the Addendum**

63 This Addendum is a living document. The criteria contained in this Addendum are subject to revisions
64 and updating as warranted by advances in telecommunications technology.

To be published as ANSI/TIA-568.2-D-1

65 **1 Scope**

66 Balun requirements are defined for measurement of transmission parameters of differential pair devices.
 67 These balun requirements have been shown to facilitate measurement of transmission parameters up to
 68 2 GHz. Specifications up to 2 GHz are provided by this document.

69 **2 Balun requirements**

70 Replace Table C.1 with the updated table C.1 below.
 71

72 **Table C.1 - Test balun performance characteristics 1 MHz to 2 GHz**

Parameter	Frequency (MHz)	Value
Impedance, primary ¹⁾	$1 \leq f \leq 2000$	50 Ω unbalanced
Impedance, secondary	$1 \leq f \leq 2000$	100 Ω balanced
Insertion loss	$1 \leq f \leq 2000$	2.0 dB maximum
Return loss, bi-directional ²⁾	$1 \leq f < 15$ $15 \leq f \leq 2000$	12 dB minimum 20 dB minimum
Return loss, common mode ²⁾	$1 \leq f < 15$ $15 \leq f < 400$ $400 \leq f \leq 2000$	15 dB minimum 20 dB minimum 15 dB minimum
Power rating	$1 \leq f \leq 2000$	0.1 watt minimum
Longitudinal balance ²⁾	$1 \leq f < 100$ $100 \leq f \leq 2000$	60 dB minimum) 50 dB minimum
Output signal balance ²⁾	$1 \leq f \leq 2000$	50 dB minimum
Common mode rejection ²⁾	$1 \leq f \leq 2000$	50 dB minimum
1) Primary impedance may differ, if necessary, to accommodate analyzer outputs other than 50 Ω .		
2) Measured per ITU-T (formerly CCITT) Recommendation G.117 with the network analyzer calibrated using a 50 Ω load.		

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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	12/18/2018	12/24/2018	Jan-4	2/3/2019	2/18/2019	3/5/2019
2	12/25/2018	12/31/2018	Jan-11	2/10/2019	2/25/2019	3/12/2019
3	1/1/2019	1/7/2019	Jan-18	2/17/2019	3/4/2019	3/19/2019
4	1/8/2019	1/14/2019	Jan-25	2/24/2019	3/11/2019	3/26/2019
5	1/15/2019	1/21/2019	Feb-1	3/3/2019	3/18/2019	4/2/2019
6	1/22/2019	1/28/2019	Feb-8	3/10/2019	3/25/2019	4/9/2019
7	1/29/2019	2/4/2019	Feb-15	3/17/2019	4/1/2019	4/16/2019
8	2/5/2019	2/11/2019	Feb-22	3/24/2019	4/8/2019	4/23/2019
9	2/12/2019	2/18/2019	Mar-1	3/31/2019	4/15/2019	4/30/2019
10	2/19/2019	2/25/2019	Mar-8	4/7/2019	4/22/2019	5/7/2019
11	2/26/2019	3/4/2019	Mar-15	4/14/2019	4/29/2019	5/14/2019
12	3/5/2019	3/11/2019	Mar-22	4/21/2019	5/6/2019	5/21/2019
13	3/12/2019	3/18/2019	Mar-29	4/28/2019	5/13/2019	5/28/2019
14	3/19/2019	3/25/2019	Apr-5	5/5/2019	5/20/2019	6/4/2019
15	3/26/2019	4/1/2019	Apr-12	5/12/2019	5/27/2019	6/11/2019
16	4/2/2019	4/8/2019	Apr-19	5/19/2019	6/3/2019	6/18/2019
17	4/9/2019	4/15/2019	Apr-26	5/26/2019	6/10/2019	6/25/2019
18	4/16/2019	4/22/2019	May-3	6/2/2019	6/17/2019	7/2/2019
19	4/23/2019	4/29/2019	May-10	6/9/2019	6/24/2019	7/9/2019
20	4/30/2019	5/6/2019	May-17	6/16/2019	7/1/2019	7/16/2019
21	5/7/2019	5/13/2019	May-24	6/23/2019	7/8/2019	7/23/2019
22	5/14/2019	5/20/2019	May-31	6/30/2019	7/15/2019	7/30/2019
23	5/21/2019	5/27/2019	Jun-7	7/7/2019	7/22/2019	8/6/2019
24	5/28/2019	6/3/2019	Jun-14	7/14/2019	7/29/2019	8/13/2019
25	6/4/2019	6/10/2019	Jun-21	7/21/2019	8/5/2019	8/20/2019
26	6/11/2019	6/17/2019	Jun-28	7/28/2019	8/12/2019	8/27/2019
27	6/18/2019	6/24/2019	Jul-5	8/4/2019	8/19/2019	9/3/2019
28	6/25/2019	7/1/2019	Jul-12	8/11/2019	8/26/2019	9/10/2019
29	7/2/2019	7/8/2019	Jul-19	8/18/2019	9/2/2019	9/17/2019



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30	7/9/2019	7/15/2019	Jul-26	8/25/2019	9/9/2019	9/24/2019
31	7/16/2019	7/22/2019	Aug-2	9/1/2019	9/16/2019	10/1/2019
32	7/23/2019	7/29/2019	Aug-9	9/8/2019	9/23/2019	10/8/2019
33	7/30/2019	8/5/2019	Aug-16	9/15/2019	9/30/2019	10/15/2019
34	8/6/2019	8/12/2019	Aug-23	9/22/2019	10/7/2019	10/22/2019
35	8/13/2019	8/19/2019	Aug-30	9/29/2019	10/14/2019	10/29/2019
36	8/20/2019	8/26/2019	Sep-6	10/6/2019	10/21/2019	11/5/2019
37	8/27/2019	9/2/2019	Sep-13	10/13/2019	10/28/2019	11/12/2019
38	9/3/2019	9/9/2019	Sep-20	10/20/2019	11/4/2019	11/19/2019
39	9/10/2019	9/16/2019	Sep-27	10/27/2019	11/11/2019	11/26/2019
40	9/17/2019	9/23/2019	Oct-4	11/3/2019	11/18/2019	12/3/2019
41	9/24/2019	9/30/2019	Oct-11	11/10/2019	11/25/2019	12/10/2019
42	10/1/2019	10/7/2019	Oct-18	11/17/2019	12/2/2019	12/17/2019
43	10/8/2019	10/14/2019	Oct-25	11/24/2019	12/9/2019	12/24/2019
44	10/15/2019	10/21/2019	Nov-1	12/1/2019	12/16/2019	12/31/2019
45	10/22/2019	10/28/2019	Nov-8	12/8/2019	12/23/2019	1/7/2020
46	10/29/2019	11/4/2019	Nov-15	12/15/2019	12/30/2019	1/14/2020
47	11/5/2019	11/11/2019	Nov-22	12/22/2019	1/6/2020	1/21/2020
48	11/12/2019	11/18/2019	Nov-29	12/29/2019	1/13/2020	1/28/2020
49	11/19/2019	11/25/2019	Dec-6	1/5/2020	1/20/2020	2/4/2020
50	11/26/2019	12/2/2019	Dec-13	1/12/2020	1/27/2020	2/11/2020
51	12/3/2019	12/9/2019	Dec-20	1/19/2020	2/3/2020	2/18/2020
52	12/10/2019	12/16/2019	Dec-27	1/26/2020	2/10/2020	2/25/2020