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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](mailto:psa@ansi.org)

\* Standard for consumer products

## Comment Deadline: September 8, 2019

### NSF (NSF International)

#### Revision

BSR/NSF 177-201x (i8r1), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2014)

It is the purpose of this Standard to establish minimum performance requirements for shower filtration systems including substance reduction performance, materials safety, and design, construction, and structural performance. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners.

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

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

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 498-201x, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2018)

This proposal for UL 498 covers: Editorial correction to change reference ANSI/PLASA E1.24 to ANSI/ESTA E1.24 throughout the standard

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Megan Monsen, (847) 664-1292, [megan.monsen@ul.org](mailto:megan.monsen@ul.org)

BSR/UL 810-201x, Standard for Safety for Capacitors (revision of ANSI/UL 810-2014)

This proposal for UL 810 covers: (1) Update of standard reference in 49.2.5.

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Megan Van Heirselee, (847) 664-2881, [Megan.M.VanHeirselee@ul.org](mailto:Megan.M.VanHeirselee@ul.org)

BSR/UL 913-201x, Standard for Safety for Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations (revision of ANSI/UL 913-2018)

This proposal for UL 913 covers: (1) Revisions addressing the use of the Seventh Edition of UL 60079-0, recently published in March 2019; (2) Revisions permitting the Group III requirements in UL 60079-0 and UL 60079-11 as an alternative to the Class II and III requirements; and (3) Revisions clarifying the use of electronic medium for required documentation.

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

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

## Comment Deadline: September 23, 2019

### AAFS (American Academy of Forensic Sciences)

#### New Standard

BSR/ASB Std 032-201x, Standards for a Bloodstain Pattern Analyst's Training Program (new standard)

This document provides minimum pre-training educational requirements for an individual currently in, or entering into, a bloodstain pattern analyst training program and the minimum training requirements that a trainee must successfully complete prior to practicing as a bloodstain pattern analyst.

Single copy price: Free

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

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

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

## **AISC (American Institute of Steel Construction)**

### **Supplement**

BSR/AISC 358-S2-201x, Supplement No. 2 to AISC 358-16 Prequalified Connections for Special and Intermediate Steel Moment Frames for Seismic Applications (supplement to ANSI/AISC 358-16; ANSI/AISC 358s1-18)

This standard specifies design, detailing, fabrication, and quality criteria for structural steel connections that are prequalified in accordance with the AISC Seismic Provisions for Structural Steel Buildings (AISC 341) for use with special moment frames (SMF) and intermediate moment frames (IMF). This supplement will expand the scope of two prequalified connections, the SidePlate moment connection and the Simpson Strong-Tie Strong Frame moment connection.

Single copy price: \$35.00

Obtain an electronic copy from: [www.aisc.org/publicreview](http://www.aisc.org/publicreview)

Order from: Rachel Jordan, [jordan@aisc.org](mailto:jordan@aisc.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [matthew@aisc.org](mailto:matthew@aisc.org), Comments may also be submitted online at [www.aisc.org/publicreview](http://www.aisc.org/publicreview)

## **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](mailto:brace@asabe.org)

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

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

## **ASTM (ASTM International)**

### **Revision**

BSR/ASTM E177-201x, Practice for Use of the Terms Precision and Bias in ASTM Test Methods (revision of ANSI/ASTM E177-2014)

[https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Laura Klineburger, (610) 832-9696, [accreditation@astm.org](mailto:accreditation@astm.org)

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

BSR/ASTM E220-201x, Test Method for Calibration of Thermocouples by Comparison Techniques (revision of ANSI/ASTM E220-2017)

[https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Laura Klineburger, (610) 832-9696, [accreditation@astm.org](mailto:accreditation@astm.org)

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

BSR/ASTM E691-201x, Practice for Conducting an Interlaboratory Study to Determine the Precision of a Test Method (revision of ANSI/ASTM E691-2018)

[https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

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

BSR/ASTM E2181-201x, Specification for Compacted Mineral-Insulated, Metal-Sheathed, Noble Metal Thermocouples and Thermocouple Cable (revision of ANSI/ASTM E2181-2017)

[https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

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

BSR/ASTM E3080-201x, Practice for Regression Analysis (revision of ANSI/ASTM E3080-2017)

[https://www.astm.org/ANSI\\_SA](https://www.astm.org/ANSI_SA)

Single copy price: Free

Obtain an electronic copy from: [cleonard@astm.org](mailto:cleonard@astm.org)

Order from: Laura Klineburger, (610) 832-9696, [accreditation@astm.org](mailto:accreditation@astm.org)

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## **CSA (CSA America Standards Inc.)**

### ***Reaffirmation***

BSR Z21.15-2009 (R201x), Manually Operated Gas Valves for Appliances, Appliance Connector Valves and Hose End Valves (same as CSA 9.1) (reaffirmation of ANSI Z21.15-2009 (R2014), ANSI Z21.15a-2012 (R2014), ANSI Z21.15b-2013 (R2014))

Details test and examination criteria for manually operated gas valves, not exceeding 4 inches (102 mm) pipe size, and pilot shut-off devices, except for hose end valves and appliance connector valves, intended to be used as part of a gas-fired appliance.

Single copy price: \$663.00

Obtain an electronic copy from: <https://store.csagroup.org/>

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

## **CSA (CSA America Standards Inc.)**

### ***Revision***

BSR LC 1-201x/CSA 6.26-201x, Fuel gas piping systems using corrugated stainless steel tubing (revision of ANSI LC 1-2018/CSA 6.26-2018)

This standard details test and examination criteria for fuel gas piping systems, using corrugated stainless steel tubing, intended for installation in residential or commercial buildings, and including all components supplied or specified by the manufacturer to convey and control fuel gas to all appliances served. This standard does not apply to gas connectors for appliances. These connectors are covered by ANSI Z21.24/CSA 6.10 and ANSI Z21.69/CSA 6.16.

Single copy price: \$376.00

Obtain an electronic copy from: [https://store.csagroup.org](https://store.csagroup.org/)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [ansi.contact@csagroup.org](mailto:ansi.contact@csagroup.org)

BSR/CSA B149.6-201x, Code for digester gas, landfill gas, and biogas generation and utilization (revision and redesignation of ANSI B149.6-2015)

Standard for safety aspect of the operation and maintenance for handling, storage and utilization of digester gas, landfill gas, and biogas.

Single copy price: Free

Obtain an electronic copy from: [ansi@csagroup.org](mailto:ansi@csagroup.org)

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

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

## **ESTA (Entertainment Services and Technology Association)**

### ***New Standard***

BSR/E1.62-201x, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events (new standard)

The standard would cover serially manufactured portable platforms, stair units and ramps used with those platforms, and choral risers. It would also cover railings provided as fall protection accessories for these units. It would not cover custom platforms or complete stage systems. It would give minimum payload and sideways force handling specifications.

Single copy price: Free

Obtain an electronic copy from: [https://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](https://tsp.esta.org/tsp/documents/public_review_docs.php)

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

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

## **HPS (ASC N43) (Health Physics Society)**

### ***Revision***

BSR N43.10-201x, Safe Design and Use of Panoramic, Dry Source Storage (Category II), Self-Contained Wet Source Storage (Category III), and Panoramic, Wet Source Storage (Category IV) Gamma Irradiators (revision of ANSI N43.10-2001 (R2010))

This standard applies to panoramic, dry-source storage gamma irradiators (Category II); self-contained, wet-source storage irradiators (Category III); and panoramic, wet-source storage irradiators (Category IV) that contain sealed gamma-emitting sources and are used for the irradiation of objects or materials. This standard establishes the criteria to be used in the proper design, fabrication, installation, use, and maintenance of these irradiators, which will ensure a high degree of radiation safety.

Single copy price: \$50.00

Obtain an electronic copy from: [nanjohns@verizon.net](mailto:nanjohns@verizon.net)

Order from: Nancy Johnson, (703) 790-1745, [nanjohns@verizon.net](mailto:nanjohns@verizon.net)

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

## **NEMA (ASC C82) (National Electrical Manufacturers Association)**

### ***New National Adoption***

BSR C82.77-7-201X, Standard for Lighting Equipment - Testing and Measurement Techniques - Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests (national adoption with modifications of IEC 61000-4-11 Edition 2.1 2017-05)

This standard is a Nationally Acknowledged International Standard (NAIS) of IEC 61000-4-11 with regional deviations.

Single copy price: \$50.00

Obtain an electronic copy from: [michael.erbesfeld@nema.org](mailto:michael.erbesfeld@nema.org)

Order from: Michael Erbesfeld, (703) 841-3262, [Michael.Erbesfeld@nema.org](mailto:Michael.Erbesfeld@nema.org)

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

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

### ***Reaffirmation***

BSR/TAPPI T 453 sp-2013 (R201x), Effect of dry heat on properties of paper and board (reaffirmation of ANSI/TAPPI T 453 sp-2013)

This practice specifies the procedure for dry heat treatment of paper or board, and the general procedure for testing the heat-treated materials. The purpose is to obtain, by an accelerated aging test, inferences regarding the aging qualities of the paper. The practice is based on work that has been done with printing and writing papers, but it may be used with discretion on other types of papers and boards.

Single copy price: Free

Obtain an electronic copy from: [standards@tappi.org](mailto:standards@tappi.org)

Order from: [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Dodson, [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 527 om-2013 (R201x), Color of paper and paperboard (d/0, C/2) (reaffirmation of ANSI/TAPPI T 527 om-2013)

This method specifies a procedure for measuring the color of paper or paperboard with tristimulus filter colorimeters or spectrophotometers incorporating diffuse/0 geometry and CIE (International Commission on Illumination) illuminant C.

Single copy price: Free

Obtain an electronic copy from: [standards@tappi.org](mailto:standards@tappi.org)

Order from: [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Dodson, [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 1200 sp-2014 (R201x), Interlaboratory evaluation of test methods to determine TAPPI repeatability and reproducibility (reaffirmation of ANSI/TAPPI T 1200 sp-2014)

This practice describes techniques for conducting and analyzing the results of intralaboratory and interlaboratory studies. The steps described in this standard will result in a good statistical design that provides sound data for formulating a broadly applicable precision statement regarding the performance of a TAPPI test method. Two values are considered: (a) repeatability, which is defined as comparison of test results within a laboratory (same material, operator, apparatus, environmental conditions, making tests in the shortest reasonable timeframe); and (b) reproducibility, which is defined as comparison of test results among laboratories (same material, but different operator, apparatus and perhaps environmental conditions). In the data chain leading to test results, there are many possible sources of variation, and one can conduct studies to isolate these other sources, e.g., same laboratory and operator using different instruments or different laboratories using a shared calibration standard etc. For the purposes of the TAPPI test methods, all of these sources of variation are to be captured in a reproducibility value.

Single copy price: Free

Obtain an electronic copy from: [standards@tappi.org](mailto:standards@tappi.org)

Order from: [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Dodson, [standards@tappi.org](mailto:standards@tappi.org)

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

### **Revision**

BSR/TAPPI T 240 om-201x1x, Consistency (concentration) of pulp suspensions (revision of ANSI/TAPPI T 240 om-2012)

This method describes the measurement of pulp consistency (concentration) of aqueous fiber suspensions.

Single copy price: Free

Obtain an electronic copy from: [standards@tappi.org](mailto:standards@tappi.org)

Order from: [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Dodson, [standards@tappi.org](mailto:standards@tappi.org)

BSR/TAPPI T 1211 sp-201x1x, Self-certification practice for organizations providing reference materials for TAPPI Standards (revision of ANSI/TAPPI T 1211 sp-2011)

This standard practice establishes acceptance procedures for the listing of organizations as calibration laboratories or providers of standardized materials in TAPPI Standards. Such organizations are involved with the maintenance of master instruments, calibration of test instruments, and the issuance of calibration materials or transfer standards.

Single copy price: Free

Obtain an electronic copy from: [standards@tappi.org](mailto:standards@tappi.org)

Order from: [standards@tappi.org](mailto:standards@tappi.org)

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Deborah Dodson, [standards@tappi.org](mailto:standards@tappi.org)

## **UL (Underwriters Laboratories, Inc.)**

### **Revision**

BSR/UL 87B-201x, Standard for Safety for Power-Operated Dispensing Devices for Diesel Fuel, Biodiesel Fuel, Diesel/Biodiesel Blends with Nominal Biodiesel Concentrations up to 20 Percent (B20), Kerosene, and Fuel Oil (revision of ANSI/UL 87B-2019)

The following topics are being proposed: (1) Adding renewable diesel and diesel/renewable diesel blends; (2) Adding zones to different divisions.

Single copy price: Free

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

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

BSR/UL 1993-201x, Standard for Safety for Self-Ballasted Lamps and Lamp Adapters (revision of ANSI/UL 1993-2018)

This proposal for UL 1993 covers: (1) Proposed copper-alloy screw bases and moist ammonia air stress cracking test option for copper alloys; (2) Proposed maximum conductive length of Edison screw bases; (3) Proposed evaluation of tack-soldered electrical connections; (4) Proposed drop impact test determination for severely damaged lamps; (5) Proposed thickness of metal G5 and G13 lamp bases; (6) Proposed lamps with movable joints; (7) Proposed revision to Type A lamps - Revisions to HF test source; (8) Proposed requirements for evaluating LED lamps as direct replacements for specific high-intensity discharge (HID) lamps; (9) Proposed Type A/B tube lamp markings; (10) Proposed requirements for Linear LED lamps; (11) Proposed revision of thermal testing requirements for self-ballasted lamps intended for use in enclosed luminaires (partially and fully enclosed) suitable for Type IC, recessed- luminaire applications; (12) Proposed revision of labeling and marking of physically small LED replacement lamps; (13) Proposed requirements for Temperature Test - LED Lamps; (14) Proposed modification to re-lamping test method to reflect risks associated with LEDs; (15) Proposed addition of Supplement SE - Special Use Lamps; (16) Proposed suggestion to remove "DC component" requirement for Type A lamp; (17) Proposed New Test, Construction, and Marking requirements for LED Lamps with Integral Rechargeable Batteries; and (18) Proposed new construction requirements for material of current carrying parts in LED tube lamps.

Single copy price: Free

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

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

BSR/UL 1996-201X, Standard for Electric Duct Heaters (revision of ANSI/UL 1996-2016)

Propose revisions to (1) the control requirements and (2) duct heaters employed in ductwork that contain flammable refrigerants.

Single copy price: Free

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

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

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Follow the instructions in the following website to enter comments into the CSDS Work Area: <https://csds.ul.com/Home/ProposalsDefault.aspx>

## Comment Deadline: October 8, 2019

Reaffirmations and withdrawals available electronically may be accessed at: [webstore.ansi.org](http://webstore.ansi.org)

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

#### *New National Adoption*

INCITS/ISO 19115-2:2019 [201x], Geographic information - Metadata - Part 2: Extensions for acquisition and processing (identical national adoption of ISO 19115-2:2019 and revision of INCITS/ISO 19115-2:2009 [R2014])

Defines the schema required for an enhanced description of the acquisition and processing of geographic information, including imagery. Included are the properties of measuring systems and the numerical methods and computational procedures used to derive geographic information from the data acquired by them. This document also provides the XML encoding for acquisition and processing metadata, thereby extending the XML schemas defined in ISO/TS 19115-3.

Single copy price: \$185.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Order from: <http://webstore.ansi.org/>

Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

INCITS/ISO 19112:2019 [201x], Geographic information - Spatial referencing by geographic identifiers (identical national adoption of ISO 19112:2019 and revision of INCITS/ISO 19112:2003 [R2014])

Defines the conceptual schema for spatial references based on geographic identifiers. It establishes a general model for spatial referencing using geographic identifiers and defines the components of a spatial reference system. It also specifies a conceptual scheme for a gazetteer. Spatial referencing by coordinates is addressed in ISO 19111. However, a mechanism for recording complementary coordinate references is included in this document. This document enables producers of data to define spatial reference systems using geographic identifiers and assists users in understanding the spatial references used in datasets. It enables gazetteers to be constructed in a consistent manner and supports the development of other standards in the field of geographic information.

Single copy price: \$138.00

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Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

INCITS/ISO/IEC 7811-7:2018 [201x], Identification cards - Recording technique - Part 7: Magnetic stripe: High coercivity, high density (identical national adoption of ISO/IEC 7811-7:2018 and revision of INCITS/ISO/IEC 7811-7:2014)

This document specifies requirements for a high coercivity magnetic stripe (including any protective overlay) on an identification card and encoding technique. It takes into consideration both human and machine aspects and states minimum requirements. Coercivity influences many of the quantities specified in this document but is not itself specified. The main characteristic of the high coercivity magnetic stripe is its improved resistance to erasure. This is achieved with minimal probability of damage to other magnetic stripes by contact while retaining read compatibility with magnetic stripes as defined in ISO/IEC 7811-2.

Single copy price: \$138.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

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Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

INCITS/ISO/IEC 7816-6:2016 [201x], Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange (identical national adoption of ISO/IEC 7816-6:2016 and revision of INCITS/ISO/IEC 7816-6:2004 [R2014])

Specifies directly or by reference, data elements, including composite data elements that may be used in interindustry interchange. It identifies the following characteristics of each data element: identifier; name; description and reference; and format and coding (if not available in other ISO standards or parts of ISO/IEC 7816).

Single copy price: \$162.00

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INCITS/ISO/IEC 7816-8:2016 [201x], Identification cards - Integrated circuit cards - Part 8: Commands and mechanisms for security operations (identical national adoption of ISO/IEC 7816-8:2016 and revision of INCITS/ISO/IEC 7816-8:2004 [R2014])

Specifies interindustry commands that may be used for security operations. This document also provides informative directives on how to construct security mechanisms with ISO/IEC 7816-4 defined commands. The choice and conditions of use of cryptographic mechanism in security operations may affect card exportability. The evaluation of the suitability of algorithms and protocols is outside the scope of this document. It does not cover the internal implementation within the card and/or the outside world.

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INCITS/ISO/IEC 7816-9:2017 [201x], Identification cards - Integrated circuit cards - Part 9: Commands for card management (identical national adoption of ISO/IEC 7816-9:2017 and revision of INCITS/ISO/IEC 7816-9:2004 [R2014])

Specifies interindustry commands for card, file, and other structure management, i.e., data object and security object. These commands cover the entire life cycle of the card and therefore some commands are used before the card has been issued to the cardholder or after the card has expired. For details on record life cycle status, refer to ISO/IEC 7816-4. This standard is not applicable to the internal implementation within the card and/or the outside world.

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INCITS/ISO/IEC 7816-11:2017 [201x], Identification cards - Integrated circuit cards - Part 11: Personal verification through biometric methods (identical national adoption of ISO/IEC 7816-11:2017 and revision of INCITS/ISO/IEC 7816-11:2004 [R2014])

Specifies security-related interindustry commands to be used for personal verification through biometric methods in integrated circuit cards. It also defines the data structure and data access methods for use of the card as a carrier of the biometric reference and/or as the device to perform the verification of the cardholder's biometric probe (on-card biometric comparison). Identification of persons using biometric methods is outside the scope of this document.

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INCITS/ISO/IEC 7816-15:2016 [201x], Identification cards - Integrated circuit cards - Part 15: Cryptographic information application (identical national adoption of ISO/IEC 7816-15:2016 and revision of INCITS/ISO/IEC 7816-15:2004 [R2014]), INCITS/ISO/IEC 7816-15:2004/AM 2:2008 [R2016], INCITS/ISO/IEC 7816-15:2004/AM 1:2007 [R2016]

Specifies an application in a card. This application contains information on cryptographic functionality. This part of ISO/IEC 7816 defines a common syntax and format for the cryptographic information and mechanisms to share this information whenever appropriate.

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INCITS/ISO/IEC 8824-1:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation (identical national adoption of ISO/IEC 8824-1:2015 and revision of INCITS/ISO/IEC 8824-1:2008 [2014])

Provides a standard notation called Abstract Syntax Notation One (ASN.1) that is used for the definition of data types, values, and constraints on data types. Defines a number of simple types, with their tags, and specifies a notation for referencing these types and for specifying values of these types; defines mechanisms for constructing new types from more basic types, and specifies a notation for defining such types and assigning them tags, and for specifying values of these types; defines character sets (by reference to other Recommendations and/or International Standards) for use within ASN.1.

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INCITS/ISO/IEC 8824-2:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Information object specification (identical national adoption of ISO/IEC 8824-2:2015 and revision of INCITS/ISO/IEC 8824-2:2008 [2014])

Provides notation for specifying information object classes, information objects, and information object sets.

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INCITS/ISO/IEC 8824-3:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Constraint specification (identical national adoption of ISO/IEC 8824-3:2015 and revision of INCITS/ISO/IEC 8824-3:2008 [2014])

Provides notation for specifying user-defined constraints, table constraints, and contents constraints.

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INCITS/ISO/IEC 8824-4:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications (identical national adoption of ISO/IEC 8824-4:2015 and revision of INCITS/ISO/IEC 8824-4:2008 [2014])

Defines notation for parameterization of ASN.1 specifications.

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INCITS/ISO/IEC 8825-1:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) (identical national adoption of ISO/IEC 8825-1:2015 and revision of INCITS/ISO/IEC 8825-1:2008 [2014])

Specifies a set of basic encoding rules that may be used to derive the specification of a transfer syntax for values of types defined using the notation specified in Rec. ITU-T X.680 | ISO/IEC 8824-1, Rec. ITU-T X.681 | ISO/IEC 8824-2, Rec. ITU-T X.682 | ISO/IEC 8824-3, and Rec. ITU-T X.683 | ISO/IEC 8824-4, collectively referred to as Abstract Syntax Notation One or ASN.1. These basic encoding rules are also to be applied for decoding such a transfer syntax in order to identify the data values being transferred. It also specifies a set of canonical and distinguished encoding rules that restrict the encoding of values to just one of the alternatives provided by the basic encoding rules.

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INCITS/ISO/IEC 8825-2:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER) (identical national adoption of ISO/IEC 8825-2:2015 and revision of INCITS/ISO/IEC 8825-2:2008 [2014])

Specifies a set of Packed Encoding Rules that may be used to derive a transfer syntax for values of types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1. These Packed Encoding Rules are also to be applied for decoding such a transfer syntax in order to identify the data values being transferred.

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INCITS/ISO/IEC 8825-3:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Encoding Control Notation (ECN) (identical national adoption of ISO/IEC 8825-3:2015 and revision of INCITS/ISO/IEC 8825-3:2008 [2014])

Defines a notation for specifying encodings of ASN.1 types or of parts of types. It provides several mechanisms for such specification, including: direct specification of the encoding using standardized notation; specification of the encoding by reference to standardized encoding rules; specification of the encoding of an ASN.1 type by reference to an encoding structure; and specification of the encoding using non-ECN notation. It also provides the means to link the specification of encodings to the type definitions to which they are to be applied.

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INCITS/ISO/IEC 8825-4:2015 [201x], Information technology - ASN.1 encoding rules: XML Encoding Rules (XER) (identical national adoption of ISO/IEC 8825-4:2015 and revision of INCITS/ISO/IEC 8825-4:2008 [2014])

Specifies a set of basic XML Encoding Rules (BASIC-XER) that may be used to derive a transfer syntax for values of types defined in Rec. ITU-T X.680 | ISO/IEC 8824-1 and Rec. ITU-T X.681 | ISO/IEC 8824-2. This Recommendation | International Standard also specifies a set of Canonical XML Encoding Rules (CXER) which provide constraints on the basic XML Encoding Rules and produce a unique encoding for any given ASN.1 value. This Recommendation | International Standard further specifies a set of extended XML Encoding Rules (EXTENDED-XER) which adds further encoders options, and also allows the ASN.1 specifier to vary the encoding that would be produced by BASIC-XER. It is implicit in the specification of these encoding rules that they are also used for decoding.

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INCITS/ISO/IEC 9798-3:2019 [201x], IT Security techniques - Entity authentication - Part 3: Mechanisms using digital signature techniques (identical national adoption of ISO/IEC 9798-3:2019 and revision of INCITS/ISO/IEC 9798-3:1998 [R2014])

This document specifies entity authentication mechanisms using digital signatures based on asymmetric techniques. A digital signature is used to verify the identity of an entity. Ten mechanisms are specified in this document. The first five mechanisms do not involve an on-line trusted third party and the last five make use of on-line trusted third parties. In both of these two categories, two mechanisms achieve unilateral authentication and the remaining three achieve mutual authentication.

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INCITS/ISO/IEC 10118-1:2016 [201x], Information technology - Security techniques - Hash-functions - Part 1: General (identical national adoption of ISO/IEC 10118-1:2016 and revision of INCITS/ISO/IEC 10118-1:2000 [R2014])

Specifies hash-functions and is therefore applicable to the provision of authentication, integrity, and non-repudiation services. Hash-functions map strings of bits of variable (but usually upper bounded) length to fixed-length strings of bits, using a specified algorithm.

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INCITS/ISO/IEC 10118-3:2018 [201x], IT Security techniques - Hash-functions - Part 3: Dedicated hash-functions (identical national adoption of ISO/IEC 10118-3:2018 and revision of INCITS/ISO/IEC 10118-3:2004 [R2014], INCITS/ISO/IEC 10118-3:2004/AM1:2006 [R2014])

Specifies dedicated hash-functions, i.e., specially designed hash-functions. The hash-functions in this document are based on the iterative use of a round-function. Distinct round-functions are specified, giving rise to distinct dedicated hash-functions. The use of Dedicated Hash-Functions 1, 2, and 3 in new digital signature implementations is deprecated.

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INCITS/ISO/IEC 11770-2:2018 [201x], IT Security techniques - Key management - Part 2: Mechanisms using symmetric techniques (identical national adoption of ISO/IEC 11770-2:2018 and revision of INCITS/ISO/IEC 11770-2:2008 [R2014])

Document defines key establishment mechanisms using symmetric cryptographic techniques. Addresses three environments for the establishment of keys: Point-to-Point, Key Distribution Centre (KDC), and Key Translation Centre (KTC). It describes the required content of messages which carry keying material or are necessary to set up the conditions under which the keying material can be established. This document does not indicate other information which can be contained in the messages or specify other messages such as error messages. The explicit format of messages is not within the scope of this document.

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INCITS/ISO/IEC 11770-6:2016 [201x], Information technology - Security techniques - Key management - Part 6: Key derivation (identical national adoption of ISO/IEC 11770-6:2016)

Specifies key derivation functions, i.e., functions which take secret information and other (public) parameters as input and output one or more "derived" secret keys. Key derivation functions based on MAC algorithms and on hash-functions are specified.

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INCITS/ISO/IEC 11889-1:2015 [201x], Information technology - Trusted platform module library - Part 1: Architecture (identical national adoption of ISO/IEC 11889-1:2015 and revision of INCITS/ISO/IEC 11889-1:2009 [R2014])

Defines the architectural elements of the Trusted Platform Module (TPM), a device which enables trust in computing platforms in general. Some TPM concepts are explained adequately in the context of the TPM itself. Other TPM concepts are explained in the context of how a TPM helps establish trust in a computing platform. When describing how a TPM helps establish trust in a computing platform, ISO/IEC 11889-1:2015 provides some guidance for platform requirements. However, the scope of ISO/IEC 11889 is limited to TPM requirements.

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INCITS/ISO/IEC 11889-2:2015 [201x], Information technology - Trusted Platform Module Library - Part 2: Structures (identical national adoption of ISO/IEC 11889-2:2015 and revision of INCITS/ISO/IEC 11889-2:2009 [R2014])

Contains the definitions of the constants, flags, structure, and union definitions used to communicate with the TPM. Values defined in ISO/IEC 11889-2:2015 are used by the TPM commands defined in ISO/IEC 11889-3 and by the functions in ISO/IEC 11889-4.

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INCITS/ISO/IEC 11889-3:2015 [201x], Information technology - Trusted Platform Module Library - Part 3: Commands (identical national adoption of ISO/IEC 11889-3:2015 and revision of INCITS/ISO/IEC 11889-3:2009 [R2014])

Contains the definitions of the Trusted Platform Module (TPM) commands. These commands make use of the constants, flags, structures, and union definitions defined in ISO/IEC 11889-2.

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INCITS/ISO/IEC 11889-4:2015 [201x], Information technology - Trusted Platform Module Library - Part 4: Supporting Routines (identical national adoption of ISO/IEC 11889-4:2015 and revision of INCITS/ISO/IEC 11889-4:2009 [R2014])

Contains C code that describes the algorithms and methods used by the command code in ISO/IEC 11889-3. The code in ISO/IEC 11889-4:2015 augments ISO/IEC 11889-2 and ISO/IEC 11889-3 to provide a complete description of a TPM, including the supporting framework for the code that performs the command actions.

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INCITS/ISO/IEC 13818-1:2019 [201X], Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems (identical national adoption of ISO/IEC 13818-1:2019 and revision of INCITS/ISO/IEC 13818-1:2013 [2014])

Specifies the system layer of the coding. It was developed principally to support the combination of the video and audio coding methods defined in Parts 2 and 3 of ISO/IEC 13818. The system layer supports six basic functions: the synchronization of multiple compressed streams on decoding; the interleaving of multiple compressed streams into a single stream; the initialization of buffering for decoding start up; continuous buffer management; time identification; multiplexing and signalling of various components in a system stream.

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INCITS/ISO/IEC 14496-11:2015 [201x], Information technology - Coding of audio-visual objects - Part 11: Scene description and application engine (identical national adoption of ISO/IEC 14496-11:2015 and revision of INCITS/ISO/IEC 14496-11:2005 [R2014] and INCITS/ISO/IEC 14496-11:2005/AM5:2007 [R2014])

Specifies the coded representation of the spatio-temporal positioning of audio-visual objects as well as their behavior in response to interaction (scene description); the Extensible MPEG-4 Textual (XMT) format, a textual representation of the multimedia content described in ISO/IEC 14496 using the Extensible Markup Language (XML); and a system-level description of an application engine (format, delivery, lifecycle, and behavior of downloadable Java byte code applications).

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INCITS/ISO/IEC 14496-12:2015 [201x], Information technology - Coding of audio-visual objects - Part 12: ISO base media file format (identical national adoption of ISO/IEC 14496-12:2015 and revision of INCITS/ISO/IEC 14496-12:2012 [2014])

Specifies the ISO base media file format, which is a general format forming the basis for a number of other more specific file formats. This format contains the timing, structure, and media information for timed sequences of media data, such as audio-visual presentations. ISO/IEC 14496-12:2015 is applicable to MPEG-4, but its technical content is identical to that of ISO/IEC 15444-12, which is applicable to JPEG 2000.

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INCITS/ISO/IEC 14496-15:2017 [201x], Information technology - Coding of audio-visual objects - Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format (identical national adoption of ISO/IEC 14496-15:2017 and revision of INCITS/ISO/IEC 14496-15:2014 [2014])

Specifies the storage format for streams of video that is structured as NAL units, such as AVC (ISO/IEC 14496-10) and HEVC (ISO/IEC 23008-2) video streams.

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INCITS/ISO/IEC 14496-22:2019 [201x], Information technology - Coding of audio-visual objects - Part 22: Open Font Format (identical national adoption of ISO/IEC 14496-22:2019 and revision of INCITS/ISO/IEC 14496-22:2009 [2014])

Specifies the Open Font Format (OFF) specification, including the TrueType and Compact Font Format (CFF) outline formats. Many references to both TrueType and PostScript exist throughout this document, as Open Font Format fonts combine the two technologies. The document defines data structures for various font tables, and provides the necessary details for developers to build a font rendering and text layout/shaping engines in compliance with this document.

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INCITS/ISO/IEC 15444-1:2016 [201x], Information technology - JPEG 2000 image coding system: Core coding system (identical national adoption of ISO/IEC 15444-1:2016 and revision of INCITS/ISO/IEC 15444-1:2004 [R2015], INCITS/ISO/IEC 15444-1:2004/AM1:2006 [R2014])

Defines a set of lossless (bit-preserving) and lossy compression methods for coding bi-level, continuous-tone grey-scale, palletized color, or continuous-tone color digital still images.

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INCITS/ISO/IEC 15444-5:2015 [201x], Information technology - JPEG 2000 image coding system: Reference software (identical national adoption of ISO/IEC 15444-5:2015 and revision of INCITS/ISO/IEC 15444-5:2003 [R2014] and INCITS/ISO/IEC 15444-5:2003/AM1:2003 [R2014])

Defines a set of lossless and lossy compression methods for coding continuous-tone, bi-level, greyscale, or color digital still images. This Recommendation | International Standard provides three independently created software reference implementations of Rec. ITU-T T.800 | ISO/IEC 15444-1, in order to assist implementers of Rec. ITU-T T.800 | ISO/IEC 15444-1 in testing and understanding its content. The packages are JASPER, JJ2000, and OPENJPEG.

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INCITS/ISO/IEC 18013-1:2018 [201x], Information technology - Personal identification - ISO-compliant driving license - Part 1: Physical characteristics and basic data set (identical national adoption of ISO/IEC 18013-1:2018 and revision of INCITS/ISO/IEC 18013-1:2005 [R2014])

Establishes guidelines for the design format and data content of an ISO-compliant driving licence (IDL) in regard to both visual human-readable features and ISO machine-readable technologies. It creates a common basis for international use and mutual recognition of the IDL without impeding individual national/community/regional motor vehicle authorities in taking care of their specific needs.

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INCITS/ISO/IEC 18041-4:2016 [201x], Information technology - Computer graphics, image processing and environmental data representation - Environmental Data Coding Specification (EDCS) language bindings - Part 4: C (identical national adoption of ISO/IEC 18041-4:2016 and revision of INCITS/ISO/IEC 18041-4:2007 [R2014])

Specifies the binding of the application programming interface (API) defined in ISO/IEC 18025 to the C programming language.

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INCITS/ISO/IEC 18370-1:2016 [201x], Information technology - Security techniques - Blind digital signatures - Part 1: General (identical national adoption of ISO/IEC 18370-1:2016)

Specifies principles, including a general model, a set of entities, a number of processes, and general requirements for blind digital signature mechanisms, as well as the following variants of blind digital signature mechanisms: blind signature mechanisms with partial disclosure; blind signature mechanisms with selective disclosure; and traceable blind signature mechanisms. It also contains terms, definitions, abbreviated terms, and figure elements that are used in all parts of ISO/IEC 18370. See Annex A in the standard for a comparison on the blind digital signature mechanisms.

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INCITS/ISO/IEC 19592-1:2016 [201x], Information technology - Security techniques - Secret sharing - Part 1: General (identical national adoption of ISO/IEC 19592-1:2016)

Specifies cryptographic secret sharing schemes and their properties. This document defines the parties involved in a secret sharing scheme, the terminology used in the context of secret sharing schemes, and the parameters and the properties of such a scheme.

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INCITS/ISO/IEC 19592-2:2017 [201x], Information technology - Security techniques - Secret sharing - Part 2: Fundamental mechanisms (identical national adoption of ISO/IEC 19592-2:2017)

Specifies cryptographic secret sharing schemes.

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INCITS/ISO/IEC 19776-2:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 2: Classic VRML encoding (identical national adoption of ISO/IEC 19776-2:2015 and revision of INCITS/ISO/IEC 19776-2:2008 [R2014])

Defines a system that integrates 3D graphics and multimedia. Conceptually, each X3D file is a 3D time-based space that contains graphic and aural objects that can be dynamically modified through a variety of mechanisms. This part of ISO/IEC 19776 defines a mapping of the abstract objects in X3D to a specific encoding using the technique defined in ISO/IEC 14772, Virtual Reality Modeling Language (VRML).

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INCITS/ISO/IEC 19896-1:2018 [201x], IT security techniques - Competence requirements for information security testers and evaluators - Part 1: Introduction, concepts and general requirements (identical national adoption of ISO/IEC 19896-1:2018)

Defines terms and establishes an organized set of concepts and relationships to understand the competency requirements for information security assurance conformance-testing and evaluation specialists, thereby establishing a basis for shared understanding of the concepts and principles central to the ISO/IEC 19896 series across its user communities. It provides fundamental information to users of the ISO/IEC 19896 series.

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INCITS/ISO/IEC 19896-2:2018 [201x], IT security techniques - Competence requirements for information security testers and evaluators - Part 2: Knowledge, skills and effectiveness requirements for ISO/IEC 19790 testers (identical national adoption of ISO/IEC 19896-2:2018)

Provides the minimum requirements for the knowledge, skills, and effectiveness requirements of individuals performing testing activities for a conformance scheme using ISO/IEC 19790 and ISO/IEC 24759.

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INCITS/ISO/IEC 19896-3:2018 [201x], IT security techniques - Competence requirements for information security testers and evaluators - Part 3: Knowledge, skills and effectiveness requirements for ISO/IEC 15408 evaluators (identical national adoption of ISO/IEC 19896-3:2018)

Provides the specialized requirements to demonstrate competence of individuals in performing IT product security evaluations in accordance with ISO/IEC 15408 (all parts) and ISO/IEC 18045.

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INCITS/ISO/IEC 24709-1:2017 [201x], Information technology - Conformance testing for the biometric application programming interface (BioAPI) - Part 1: Methods and procedures (identical national adoption of ISO/IEC 24709-1:2017 and revision of INCITS/ISO/IEC 24709-1:2007 [R2014])

Specifies the concepts, framework, test methods, and criteria required to test conformity of biometric products claiming conformance to BioAPI (see ISO/IEC 19784-1). Guidelines for specifying BioAPI conformance test suites, writing test assertions, and defining procedures to be followed during the conformance testing are provided. ISO/IEC 24709-1:2017 is concerned with conformance testing of biometric products claiming conformance to BioAPI (see ISO/IEC 19784-1). It is not concerned with testing other characteristics of biometric products or other types of testing of biometric products (i.e., acceptance, performance, robustness, security, etc.). Testing by means of test methods, which are specific to particular biometric products, are not the subject of ISO/IEC 24709-1:2017.

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INCITS/ISO/IEC 24752-1:2014 [201x], Information technology - User interfaces - Universal remote console - Part 1: General framework (identical national adoption of ISO/IEC 24752-1:2014 and revision of INCITS/ISO/IEC 24752-1:2008 [R2014])

Defines a framework of components that combine to enable remote user interfaces and remote control of network-accessible electronic devices and services through a universal remote console (URC). It provides an overview of the URC framework and its components.

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INCITS/ISO/IEC 24752-2:2014 [201x], Information technology - User interfaces - Universal remote console - Part 2: User interface socket description (identical national adoption of ISO/IEC 24752-2:2014 and revision of INCITS/ISO/IEC 24752-2:2008 [R2014])

Defines a user interface socket. This is an abstract user interface that describes the functionality and state of a device or service (target) in a machine-interpretable manner that is independent of presentation and input capabilities of a user interaction device. This part of ISO/IEC 24752 defines an Extensible Markup Language (XML)-based language for describing a user interface socket.

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INCITS/ISO/IEC 24752-4:2014 [201x], Information technology - User interfaces - Universal remote console - Part 4: Target description (identical national adoption of ISO/IEC 24752-4:2014 and revision of INCITS/ISO/IEC 24752-4:2008 [R2014])

Defines an extensible markup language (XML)-based language for the description of targets, as used within the universal remote console framework for discovery purposes. A document conforming to this language is a target description.

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INCITS/ISO/IEC 24752-5:2014 [201x], Information technology - User interfaces - Universal remote console - Part 5: Resource description (identical national adoption of ISO/IEC 24752-5:2014 and revision of INCITS/ISO/IEC 24752-5:2008 [R2014])

Defines syntax and semantics for describing atomic resources, resource sheets, groupings, and grouping sheets relevant to the user interface of a device or service ("target").

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INCITS/ISO/IEC 27034-3:2018 [201x], Information technology - Application security - Part 3: Application security management process (identical national adoption of ISO/IEC 27034-3:2018)

Provides a detailed description and implementation guidance for the Application Security Management Process.

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INCITS/ISO/IEC 27034-5:2017 [201x], Information technology - Security techniques - Application security - Part 5: Protocols and application security controls data structure (identical national adoption of ISO/IEC 27034-5:2017)

Outlines and explains the minimal set of essential attributes of ASCs and details the activities and roles of the Application Security Life Cycle Reference Model (ASLCRM).

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INCITS/ISO/IEC 27034-6:2016 [201x], Information technology - Security techniques - Application security - Part 6: Case studies (identical national adoption of ISO/IEC 27034-6:2016)

Provides usage examples of ASCs for specific applications.

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INCITS/ISO/IEC 27034-7:2018 [201x], Information technology - Application security - Part 7: Assurance prediction framework (identical national adoption of ISO/IEC 27034-7:2018)

Describes the minimum requirements when the required activities specified by an Application Security Control (ASC) are replaced with a Prediction Application Security Rationale (PASR). The ASC mapped to a PASR define the Expected Level of Trust for a subsequent application. In the context of an Expected Level of Trust, there is always an original application where the project team performed the activities of the indicated ASC to achieve an Actual Level of Trust. The use of Prediction Application Security Rationales (PASRs), defined by this document, is applicable to project teams which have a defined Application Normative Framework (ANF) and an original application with an Actual Level of Trust.

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INCITS/ISO/IEC 27035-1:2016 [201x], Information technology - Security techniques - Information security incident management - Part 1: Principles of incident management (identical national adoption of ISO/IEC 27035-1:2016)

Presents basic concepts and phases of information security incident management and combines these concepts with principles in a structured approach to detecting, reporting, assessing, and responding to incidents, and applying lessons learnt.

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INCITS/ISO/IEC 27035-2:2016 [201x], Information technology - Security techniques - Information security incident management - Part 2: Guidelines to plan and prepare for incident response (identical national adoption of ISO/IEC 27035-2:2016)

Provides the guidelines to plan and prepare for incident response. The guidelines are based on the "Plan and Prepare" phase and the "Lessons Learned" phase of the "Information security incident management phases" model presented in ISO/IEC 27035-1. The principles given in this part of ISO/IEC 27035 are generic and intended to be applicable to all organizations, regardless of type, size, or nature. Organizations can adjust the guidance given in this part of ISO/IEC 27035 according to their type, size, and nature of business in relation to the information security risk situation. This part of ISO/IEC 27035 is also applicable to external organizations providing information security incident management services.

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INCITS/ISO/IEC 27036-1:2014 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27036-1:2014)

Provides an overview of the guidance intended to assist organizations in securing their information and information systems within the context of supplier relationships. It also introduces concepts that are described in detail in the other parts of ISO/IEC 27036. ISO/IEC 27036-1:2014 addresses perspectives of both acquirers and suppliers.

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INCITS/ISO/IEC 27036-2:2014 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 2: Requirements (identical national adoption of ISO/IEC 27036-2:2014)

Specifies fundamental information security requirements for defining, implementing, operating, monitoring, reviewing, maintaining, and improving supplier and acquirer relationships. These requirements cover any procurement and supply of products and services, such as manufacturing or assembly, business process procurement, software and hardware components, knowledge process procurement, Build-Operate-Transfer, and cloud computing services.

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INCITS/ISO/IEC 27036-3:2013 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 3: Guidelines for information and communication technology supply chain security (identical national adoption of ISO/IEC 27036-3:2013)

Provides product and service acquirers and suppliers in the information and communication technology (ICT) supply chain.

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INCITS/ISO/IEC 27036-4:2016 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 4: Guidelines for security of cloud services (identical national adoption of ISO/IEC 27036-4:2016)

Provides cloud service customers and cloud service providers with guidance on gaining visibility into the information security risks associated with the use of cloud services and managing those risks effectively, and responding to risks specific to the acquisition or provision of cloud services that can have an information security impact on organizations using these services. The scope of this standard is to define guidelines supporting the implementation of information security management for the use of cloud services.

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INCITS/ISO/IEC 27050-1:2016 [201x], Information technology - Security techniques - Electronic discovery - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27050-1:2016)

Defines related terms and describes the concepts, including, but not limited to, identification, preservation, collection, processing, review, analysis, and production of ESI. This document also identifies other relevant standards (e.g., ISO/IEC 27037) and how they relate to, and interact with, electronic discovery activities. This standard is relevant to both non-technical and technical personnel involved in some or all of the electronic discovery activities, and it is not intended to contradict or supersede local jurisdictional laws and regulations, so exercise care to ensure compliance with the prevailing jurisdictional requirements.

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INCITS/ISO/IEC 27050-2:2018 [201x], Information technology - Electronic discovery - Part 2: Guidance for governance and management of electronic discovery (identical national adoption of ISO/IEC 27050-2:2018)

Provides guidance for technical and non-technical personnel at senior management levels within an organization, including those with responsibility for compliance with statutory and regulatory requirements, and industry standards. It describes how such personnel can identify and take ownership of risks related to electronic discovery, set policy, and achieve compliance with corresponding external and internal requirements. It also suggests how to produce such policies in a form which can inform process control. Furthermore, it provides guidance on how to implement and control electronic discovery in accordance with the policies.

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INCITS/ISO/IEC 29109-5:2019 [201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 5: Face image data (identical national adoption of ISO/IEC 29109-5:2019 and revision of INCITS/ISO/IEC 29109-5:2014 [2014])

Specifies elements of conformance testing methodology, test assertions, and test procedures as applicable to two-dimensional face images defined in the ISO/IEC 19794-5:2005 biometric data interchange format standard for face image data. Establishes test assertions of the structure of the face image data format as specified in ISO/IEC 19794-5:2005 (Type A Level 1 as defined in ISO/IEC 29109-1:2009), and test assertions of internal consistency by checking the types of values that may be contained within each field (Type A Level 2 as defined in ISO/IEC 29109-1:2009).

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INCITS/ISO/IEC 14492:2019 [201x], Information technology - Lossy/lossless coding of bi-level images (identical national adoption of ISO/IEC 14492:2019 and revision of INCITS/ISO/IEC 14492:2001 [R2017], INCITS/ISO/IEC 14492:2001/AM1:2004 [R2014], and INCITS/ISO/IEC 14492:2001/AM2:2003 [R2014])

Defines methods for coding bi-level images and sets of images (documents consisting of multiple pages). It is particularly suitable for bi-level images consisting of text and dithered (half-tone) data.

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INCITS/ISO/IEC 15414:2015 [201x], Information technology - Open distributed processing - Reference model - Enterprise language (identical national adoption of ISO/IEC 15414:2015 and revision of INCITS/ISO/IEC 15414:2006 [R2014])

Provides: (a) a language (the enterprise language) comprising concepts, structures, and rules for developing, representing and reasoning about a specification of an ODP system from the enterprise viewpoint (as defined in Rec. ITU-T X.903 | ISO/IEC 10746-3); and (b) rules which establish correspondences between the enterprise language and the other viewpoint languages (defined in Rec. ITU-T X.903 | ISO/IEC 10746-3) to ensure the overall consistency of a specification.

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INCITS/ISO/IEC 16963:2017 [201x], Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of lifetime of optical disks for long-term data storage (identical national adoption of ISO/IEC 16963:2017 and revision of INCITS/ISO/IEC 16963:2011 [2014])

Specifies an accelerated aging test method for estimating the lifetime of the retrievability of information stored on recordable or rewritable optical disks. The method is based on the theoretical assumption that the lifetime of data recorded on an optical disk has a lognormal distribution. Detailed testing is specified for the following formats: DVD-R/RW/RAM disks, +R/+RW disks, CD-R/RW disks, and BD recordable/rewritable disks.

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INCITS/ISO/IEC 20889:2018 [201x], Privacy enhancing data de-identification terminology and classification of techniques (identical national adoption of ISO/IEC 20889:2018)

Provides a description of privacy-enhancing data de-identification techniques, to be used to describe and design de-identification measures in accordance with the privacy principles in ISO/IEC 29100. In particular, this document specifies terminology, a classification of de-identification techniques according to their characteristics, and their applicability for reducing the risk of re-identification. This document is applicable to all types and sizes of organizations, including public and private companies, government entities, and not-for-profit organizations, that are PII controllers or PII processors acting on a controller's behalf, implementing data de-identification processes for privacy enhancing purposes.

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INCITS/ISO/IEC 27004:2016 [201x], Information technology - Security techniques - Information security management - Monitoring, measurement, analysis and evaluation (identical national adoption of ISO/IEC 27004:2016)

Provides guidelines intended to assist organizations in evaluating the information security performance and the effectiveness of an information security management system in order to fulfill the requirements of ISO/IEC 27001:2013, 9.1. It establishes: (a) the monitoring and measurement of information security performance; (b) the monitoring and measurement of the effectiveness of an information security management system (ISMS) including its processes and controls; and (c) the analysis and evaluation of the results of monitoring and measurement. Is applicable to all types and sizes of organizations.

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INCITS/ISO/IEC 27005:2018 [201x], Information technology - Security techniques - Information security risk management (identical national adoption of ISO/IEC 27005:2018)

Provides guidelines for information security risk management. This document supports the general concepts specified in ISO/IEC 27001 and is designed to assist the satisfactory implementation of information security based on a risk management approach. Knowledge of the concepts, models, processes, and terminologies described in ISO/IEC 27001 and ISO/IEC 27002 is important for a complete understanding of this document.

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INCITS/ISO/IEC 27007:2017 [201x], Information technology - Security techniques - Guidelines for information security management systems auditing (identical national adoption of ISO/IEC 27007:2017 and revision of INCITS/ISO/IEC 27007:2011 [R2017])

Provides guidance on managing an information security management system (ISMS) audit program, on conducting audits, and on the competence of ISMS auditors, in addition to the guidance contained in ISO 19011:2011. ISO/IEC 27007 is applicable to those needing to understand or conduct internal or external audits of an ISMS or to manage an ISMS audit program.

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INCITS/ISO/IEC 27011:2016 [201x], Information technology - Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations (identical national adoption of ISO/IEC 27011:2016 and revision of INCITS/ISO/IEC 27011:2008 [R2014])

Define guidelines supporting the implementation of information security controls in telecommunications organizations. Adoption will allow telecommunications organizations to meet baseline information security management requirements of confidentiality, integrity, availability, and any other relevant security property.

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INCITS/ISO/IEC 27018:2019 [201x], Information technology - Security techniques - Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors (identical national adoption of ISO/IEC 27018:2019)

Establishes commonly accepted control objectives, controls, and guidelines for implementing measures to protect Personally Identifiable Information (PII) in line with the privacy principles in ISO/IEC 29100 for the public cloud computing environment. In particular, this document specifies guidelines based on ISO/IEC 27002, taking into consideration the regulatory requirements for the protection of PII which can be applicable within the context of the information security risk environment(s) of a provider of public cloud services.

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INCITS/ISO/IEC 29101:2018 [201x], Information technology - Security techniques - Privacy architecture framework (identical national adoption of ISO/IEC 29101:2018)

Defines a privacy architecture framework that: specifies concerns for ICT systems that process PII; lists components for the implementation of such systems; and provides architectural views contextualizing these components. This document is applicable to entities involved in specifying, procuring, architecting, designing, testing, maintaining, administering, and operating ICT systems that process PII. It focuses primarily on ICT systems that are designed to interact with PII principals.

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INCITS/ISO/IEC 29121:2018 [201x], Information technology - Digitally recorded media for information interchange and storage - Data migration method for optical disks for long-term data storage (identical national adoption of ISO/IEC 29121:2018 and revision of INCITS/ISO/IEC 29121:2013 [2014])

Specifies the data migration method for DVD-R, DVD-RW, DVD-RAM, +R, +RW, CD-R, CD-RW, BD Recordable, and BD Rewritable disks for long-term data storage. By applying this document for information storage, digital data can be migrated to a next new disk without loss from the present disk as long as data errors are completely corrected before and during the migration and provided copying of the data is allowed.

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INCITS/ISO/IEC 29134:2017 [201x], Information technology - Security techniques - Guidelines for privacy impact assessment (identical national adoption of ISO/IEC 29134:2017)

Guidelines for a process on privacy impact assessments, and a structure and content of a PIA report. It is applicable to all types and sizes of organizations, including public companies, private companies, government entities, and not-for-profit organizations. This standard is relevant to those involved in designing or implementing projects, including the parties operating data processing systems and services that process PII.

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INCITS/ISO/IEC 29146:2016 [201x], Information technology - Security techniques - A framework for access management (identical national adoption of ISO/IEC 29146:2016)

Defines and establishes a framework for access management (AM) and the secure management of the process to access information and Information and Communications Technologies (ICT) resources, associated with the accountability of a subject within some context. Provides concepts, terms, and definitions applicable to distributed access management techniques in network environments. Provides explanations about related architecture, components, and management functions. The subjects involved in access management might be uniquely recognized to access information systems, as defined in ISO/IEC 24760.

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INCITS/ISO/IEC 29147:2018 [201x], Information technology - Security techniques - Vulnerability disclosure (identical national adoption of ISO/IEC 29147:2018)

Provides requirements and recommendations to vendors on the disclosure of vulnerabilities in products and services. Vulnerability disclosure enables users to perform technical vulnerability management as specified in ISO/IEC 27002:2013, 12.6.1. Vulnerability disclosure helps users protect their systems and data, prioritize defensive investments, and better assess risk. The goal of vulnerability disclosure is to reduce the risk associated with exploiting vulnerabilities. Coordinated vulnerability disclosure is especially important when multiple vendors are affected.

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INCITS/ISO/IEC 18031:2011/AM 1:2017 [201x], Information technology - Security techniques - Random bit generation - Amendment 1: Deterministic random bit generation (identical national adoption of ISO/IEC 18031:2011/Amd 1:2017)

Amendment 1 to ISO/IEC 18031:2011.

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INCITS/ISO/IEC 27011:2016/COR 1:2018 [201x], Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for telecommunications organizations - Technical corrigendum 1 (identical national adoption of ISO/IEC 27011:2016/Cor 1:2018)

Technical Corrigendum 1 to ISO/IEC 27011:2016.

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INCITS/ISO/IEC 29100:2011/AM1:2018 [201x], Information technology - Security techniques - Privacy framework - Amendment 1: Clarifications (identical national adoption of ISO/IEC 29100:2011/AM1:2018)

Amendment 1 to ISO/IEC 29100:2011.

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## **UL (Underwriters Laboratories, Inc.)**

### **Revision**

BSR/UL 1059-201x, Standard for Safety for Terminal Blocks (revision of ANSI/UL 1059-2017)

This proposal for UL 1059 covers: (1) A new spacing option in accordance with spacing provisions in the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750; (2) An alternative marking of terminal blocks through the use of QR-code; and (3) Revisions of requirements to Supplement SA.

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Send comments (with optional copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Megan Monsen, (847) 664-1292, [megan.monsen@ul.org](mailto:megan.monsen@ul.org)

## **Project Withdrawn**

In accordance with clause 4.2.1.3.3 Discontinuance of a standards project of the ANSI Essential Requirements, an accredited standards developer may abandon the processing of a proposed new or revised American National Standard or portion thereof if it has followed its accredited procedures. The following projects have been withdrawn accordingly:

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

BSR/ASME PTC 19.7-201x, Measurement of Shaft Power (new standard)

Document describes the function, characteristics, advantages, disadvantages, and accuracy of equipment and techniques currently available for the measurement of shaft power of rotating machines.

Inquiries may be directed to Mayra Santiago, (212) 591-8521, [ansibox@asme.org](mailto:ansibox@asme.org)

## **UL (Underwriters Laboratories, Inc.)**

BSR/UL 1419-201x, Standard for Professional Video and Audio Equipment (revision of ANSI/UL 1419-2011 (R2016))

1.1 These requirements cover video and audio equipment operated and maintained by trained personnel under the conditions of controlled access. 1.2 These requirements cover such equipment as video tape recorders, audio/video editing equipment, audio/video receiving and processing equipment, signal transmission equipment, television cameras, video digitizers, video monitors, metering equipment and similar equipment. 1.3 This Standard also covers auxiliary equipment and accessories which by themselves may not perform the desired function of the equipment outlined in 1.2 but are used in addition to or as a supplement to the basic equipment (remote controls, convertors, stands, etc.). 1.4 These requirements cover equipment rated 600 volts or less for use in accordance with the National Electrical Code, ANSI/NFPA 70.

Inquiries may be directed to Theresa Espejo, (416) 288-2212, [theresa.espejo@ul.org](mailto:theresa.espejo@ul.org)

# Call for Members (ANS Consensus Bodies)

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

## ECIA (Electronic Components Industry Association)

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

**Contact:** Laura Donohoe

**Phone:** (571) 323-0294

**E-mail:** ldonohoe@ecianow.org

BSR/EIA 364-23D-201x, Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-23C-2006 (R2017))

## 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/ESDA/JEDEC JS-002-201x, ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Charged Device Model (CDM) - Device Level (revision of ANSI/ESDA/JEDEC JS-002-2018)

## IIAR (International Institute of Ammonia Refrigeration)

**Office:** 1001 North Fairfax Street  
Alexandria, VA 22314

**Contact:** Tony Lundell

**Phone:** (703) 312-4200

**E-mail:** tony\_lundell@iiar.org

BSR/IIAR 2-202x, Safety Standard for Design of Closed-Circuit Ammonia Refrigeration Systems (revision, redesignation and consolidation of ANSI/IIAR 2-2014 and ANSI/IIAR 2-2014 Addendum A-2019)

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

**Office:** 700 K Street NW  
Suite 600  
Washington, DC 20001

**Contact:** Lynn Barra

**Phone:** (202) 737-8888

**E-mail:** comments@standards.incits.org

INCITS/ISO 19115-2:2019 [201x], Geographic information - Metadata - Part 2: Extensions for acquisition and processing (identical national adoption of ISO 19115-2:2019 and revision of INCITS/ISO 19115-2:2009 [R2014])

INCITS/ISO 19112:2019 [201x], Geographic information - Spatial referencing by geographic identifiers (identical national adoption of ISO 19112:2019 and revision of INCITS/ISO 19112:2003 [R2014])

INCITS/ISO/IEC 5138-2:1980 [S2019], Information technology - Office Machines - Vocabulary - Part 02: Duplicators (stabilized maintenance of INCITS/ISO/IEC 5138-2-1980 (R2004))

INCITS/ISO/IEC 7811-7:2018 [201x], Identification cards - Recording technique - Part 7: Magnetic stripe: High coercivity, high density (identical national adoption of ISO/IEC 7811-7:2018 and revision of INCITS/ISO/IEC 7811-7:2014)

INCITS/ISO/IEC 7816-6:2016 [201x], Identification cards - Integrated circuit cards - Part 6: Interindustry data elements for interchange (identical national adoption of ISO/IEC 7816-6:2016 and revision of INCITS/ISO/IEC 7816-6:2004 [R2014])

INCITS/ISO/IEC 7816-8:2016 [201x], Identification cards - Integrated circuit cards - Part 8: Commands and mechanisms for security operations (identical national adoption of ISO/IEC 7816-8:2016 and revision of INCITS/ISO/IEC 7816-8:2004 [R2014])

INCITS/ISO/IEC 7816-9:2017 [201x], Identification cards - Integrated circuit cards - Part 9: Commands for card management (identical national adoption of ISO/IEC 7816-9:2017 and revision of INCITS/ISO/IEC 7816-9:2004 [R2014])

INCITS/ISO/IEC 7816-11:2017 [201x], Identification cards - Integrated circuit cards - Part 11: Personal verification through biometric methods (identical national adoption of ISO/IEC 7816-11:2017 and revision of INCITS/ISO/IEC 7816-11:2004 [R2014])



- INCITS/ISO/IEC 7816-15:2016 [201x], Identification cards - Integrated circuit cards - Part 15: Cryptographic information application (identical national adoption of ISO/IEC 7816-15:2016 and revision of INCITS/ISO/IEC 7816-15:2004 [R2014]), INCITS/ISO/IEC 7816-15:2004/AM 2:2008 [R2016], and INCITS/ISO/IEC 7816-15:2004/AM 1:2007 [R2016]
- INCITS/ISO/IEC 8824-1:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Specification of basic notation (identical national adoption of ISO/IEC 8824-1:2015 and revision of INCITS/ISO/IEC 8824-1:2008 [2014])
- INCITS/ISO/IEC 8824-2:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Information object specification (identical national adoption of ISO/IEC 8824-2:2015 and revision of INCITS/ISO/IEC 8824-2:2008 [2014])
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- INCITS/ISO/IEC 8824-4:2015 [201x], Information technology - Abstract Syntax Notation One (ASN.1): Parameterization of ASN.1 specifications (identical national adoption of ISO/IEC 8824-4:2015 and revision of INCITS/ISO/IEC 8824-4:2008 [2014])
- INCITS/ISO/IEC 8825-1:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Basic Encoding Rules (BER), Canonical Encoding Rules (CER) and Distinguished Encoding Rules (DER) (identical national adoption of ISO/IEC 8825-1:2015 and revision of INCITS/ISO/IEC 8825-1:2008 [2014])
- INCITS/ISO/IEC 8825-2:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Packed Encoding Rules (PER) (identical national adoption of ISO/IEC 8825-2:2015 and revision of INCITS/ISO/IEC 8825-2:2008 [2014])
- INCITS/ISO/IEC 8825-3:2015 [201x], Information technology - ASN.1 encoding rules: Specification of Encoding Control Notation (ECN) (identical national adoption of ISO/IEC 8825-3:2015 and revision of INCITS/ISO/IEC 8825-3:2008 [2014])
- INCITS/ISO/IEC 8825-4:2015 [201x], Information technology - ASN.1 encoding rules: XML Encoding Rules (XER) (identical national adoption of ISO/IEC 8825-4:2015 and revision of INCITS/ISO/IEC 8825-4:2008 [2014])
- INCITS/ISO/IEC 9798-3:2019 [201x], IT Security techniques - Entity authentication - Part 3: Mechanisms using digital signature techniques (identical national adoption of ISO/IEC 9798-3:2019 and revision of INCITS/ISO/IEC 9798-3:1998 [R2014])
- INCITS/ISO/IEC 10118-1:2016 [201x], Information technology - Security techniques - Hash-functions - Part 1: General (identical national adoption of ISO/IEC 10118-1:2016 and revision of INCITS/ISO/IEC 10118-1:2000 [R2014])
- INCITS/ISO/IEC 10118-3:2018 [201x], IT Security techniques - Hash-functions - Part 3: Dedicated hash-functions (identical national adoption of ISO/IEC 10118-3:2018 and revision of INCITS/ISO/IEC 10118-3:2004 [R2014] and INCITS/ISO/IEC 10118-3:2004/AM1:2006 [R2014])
- INCITS/ISO/IEC 11770-2:2018 [201x], IT Security techniques - Key management - Part 2: Mechanisms using symmetric techniques (identical national adoption of ISO/IEC 11770-2:2018 and revision of INCITS/ISO/IEC 11770-2:2008 [R2014])
- INCITS/ISO/IEC 11770-6:2016 [201x], Information technology - Security techniques - Key management - Part 6: Key derivation (identical national adoption of ISO/IEC 11770-6:2016)
- INCITS/ISO/IEC 11889-1:2015 [201x], Information technology - Trusted platform module library - Part 1: Architecture (identical national adoption of ISO/IEC 11889-1:2015 and revision of INCITS/ISO/IEC 11889-1:2009 [R2014])
- INCITS/ISO/IEC 11889-2:2015 [201x], Information technology - Trusted Platform Module Library - Part 2: Structures (identical national adoption of ISO/IEC 11889-2:2015 and revision of INCITS/ISO/IEC 11889-2:2009 [R2014])
- INCITS/ISO/IEC 11889-3:2015 [201x], Information technology - Trusted Platform Module Library - Part 3: Commands (identical national adoption of ISO/IEC 11889-3:2015 and revision of INCITS/ISO/IEC 11889-3:2009 [R2014])
- INCITS/ISO/IEC 11889-4:2015 [201x], Information technology - Trusted Platform Module Library - Part 4: Supporting Routines (identical national adoption of ISO/IEC 11889-4:2015 and revision of INCITS/ISO/IEC 11889-4:2009 [R2014])
- INCITS/ISO/IEC 13818-1:2019 [201x], Information technology - Generic coding of moving pictures and associated audio information - Part 1: Systems (identical national adoption of ISO/IEC 13818-1:2019 and revision of INCITS/ISO/IEC 13818-1:2013 [2014])
- INCITS/ISO/IEC 14496-11:2015 [201x], Information technology - Coding of audio-visual objects - Part 11: Scene description and application engine (identical national adoption of ISO/IEC 14496-11:2015 and revision of INCITS/ISO/IEC 14496-11:2005 [R2014] and INCITS/ISO/IEC 14496-11:2005/AM5:2007 [R2014])
- INCITS/ISO/IEC 14496-12:2015 [201x], Information technology - Coding of audio-visual objects - Part 12: ISO base media file format (identical national adoption of ISO/IEC 14496-12:2015 and revision of INCITS/ISO/IEC 14496-12:2012 [2014])
- INCITS/ISO/IEC 14496-15:2017 [201x], Information technology - Coding of audio-visual objects - Part 15: Carriage of network abstraction layer (NAL) unit structured video in the ISO base media file format (identical national adoption of ISO/IEC 14496-15:2017 and revision of INCITS/ISO/IEC 14496-15:2014 [2014])
- INCITS/ISO/IEC 14496-22:2019 [201x], Information technology - Coding of audio-visual objects - Part 22: Open Font Format (identical national adoption of ISO/IEC 14496-22:2019 and revision of INCITS/ISO/IEC 14496-22:2009 [2014])

- INCITS/ISO/IEC 15444-1:2016 [201x], Information technology - JPEG 2000 image coding system: Core coding system (identical national adoption of ISO/IEC 15444-1:2016 and revision of INCITS/ISO/IEC 15444-1:2004 [R2015] and INCITS/ISO/IEC 15444-1:2004/AM1:2006 [R2014])
- INCITS/ISO/IEC 15444-5:2015 [201x], Information technology - JPEG 2000 image coding system: Reference software (identical national adoption of ISO/IEC 15444-5:2015 and revision of INCITS/ISO/IEC 15444-5:2003 [R2014] and INCITS/ISO/IEC 15444-5:2003/AM1:2003 [R2014])
- INCITS/ISO/IEC 18013-1:2018 [201x], Information technology - Personal identification - ISO-compliant driving license - Part 1: Physical characteristics and basic data set (identical national adoption of ISO/IEC 18013-1:2018 and revision of INCITS/ISO/IEC 18013-1:2005 [R2014])
- INCITS/ISO/IEC 18041-4:2016 [201x], Information technology - Computer graphics, image processing and environmental data representation - Environmental Data Coding Specification (EDCS) language bindings - Part 4: C (identical national adoption of ISO/IEC 18041-4:2016 and revision of INCITS/ISO/IEC 18041-4:2007 [R2014])
- INCITS/ISO/IEC 18370-1:2016 [201x], Information technology - Security techniques - Blind digital signatures - Part 1: General (identical national adoption of ISO/IEC 18370-1:2016)
- INCITS/ISO/IEC 19592-1:2016 [201x], Information technology - Security techniques - Secret sharing - Part 1: General (identical national adoption of ISO/IEC 19592-1:2016)
- INCITS/ISO/IEC 19592-2:2017 [201x], Information technology - Security techniques - Secret sharing - Part 2: Fundamental mechanisms (identical national adoption of ISO/IEC 19592-2:2017)
- INCITS/ISO/IEC 19776-2:2015 [201x], Information technology - Computer graphics, image processing and environmental data representation - Extensible 3D (X3D) encodings - Part 2: Classic VRML encoding (identical national adoption of ISO/IEC 19776-2:2015 and revision of INCITS/ISO/IEC 19776-2:2008 [R2014])
- INCITS/ISO/IEC 19896-1:2018 [201x], IT security techniques - Competence requirements for information security testers and evaluators - Part 1: Introduction, concepts and general requirements (identical national adoption of ISO/IEC 19896-1:2018)
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- INCITS/ISO/IEC 24752-1:2014 [201x], Information technology - User interfaces - Universal remote console - Part 1: General framework (identical national adoption of ISO/IEC 24752-1:2014 and revision of INCITS/ISO/IEC 24752-1:2008 [R2014])
- INCITS/ISO/IEC 24752-2:2014 [201x], Information technology - User interfaces - Universal remote console - Part 2: User interface socket description (identical national adoption of ISO/IEC 24752-2:2014 and revision of INCITS/ISO/IEC 24752-2:2008 [R2014])
- INCITS/ISO/IEC 24752-4:2014 [201x], Information technology - User interfaces - Universal remote console - Part 4: Target description (identical national adoption of ISO/IEC 24752-4:2014 and revision of INCITS/ISO/IEC 24752-4:2008 [R2014])
- INCITS/ISO/IEC 24752-5:2014 [201x], Information technology - User interfaces - Universal remote console - Part 5: Resource description (identical national adoption of ISO/IEC 24752-5:2014 and revision of INCITS/ISO/IEC 24752-5:2008 [R2014])
- INCITS/ISO/IEC 27034-3:2018 [201x], Information technology - Application security - Part 3: Application security management process (identical national adoption of ISO/IEC 27034-3:2018)
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- INCITS/ISO/IEC 27034-7:2018 [201x], Information technology - Application security - Part 7: Assurance prediction framework (identical national adoption of ISO/IEC 27034-7:2018)
- INCITS/ISO/IEC 27035-1:2016 [201x], Information technology - Security techniques - Information security incident management - Part 1: Principles of incident management (identical national adoption of ISO/IEC 27035-1:2016)
- INCITS/ISO/IEC 27035-2:2016 [201x], Information technology - Security techniques - Information security incident management - Part 2: Guidelines to plan and prepare for incident response (identical national adoption of ISO/IEC 27035-2:2016)
- INCITS/ISO/IEC 27036-1:2014 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27036-1:2014)

- INCITS/ISO/IEC 27036-2:2014 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 2: Requirements (identical national adoption of ISO/IEC 27036-2:2014)
- INCITS/ISO/IEC 27036-3:2013 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 3: Guidelines for information and communication technology supply chain security (identical national adoption of ISO/IEC 27036-3:2013)
- INCITS/ISO/IEC 27036-4:2016 [201x], Information technology - Security techniques - Information security for supplier relationships - Part 4: Guidelines for security of cloud services (identical national adoption of ISO/IEC 27036-4:2016)
- INCITS/ISO/IEC 27050-1:2016 [201x], Information technology - Security techniques - Electronic discovery - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27050-1:2016)
- INCITS/ISO/IEC 27050-2:2018 [201x], Information technology - Electronic discovery - Part 2: Guidance for governance and management of electronic discovery (identical national adoption of ISO/IEC 27050-2:2018)
- INCITS/ISO/IEC 29109-5:2019 [201x], Information technology - Conformance testing methodology for biometric data interchange formats defined in ISO/IEC 19794 - Part 5: Face image data (identical national adoption of ISO/IEC 29109-5:2019 and revision of INCITS/ISO/IEC 29109-5:2014 [2014])
- INCITS/ISO/IEC 14492:2019 [201x], Information technology - Lossy/lossless coding of bi-level images (identical national adoption of ISO/IEC 14492:2019 and revision of INCITS/ISO/IEC 14492:2001 [R2017], INCITS/ISO/IEC 14492:2001/AM1:2004 [R2014], and INCITS/ISO/IEC 14492:2001/AM2:2003 [R2014])
- INCITS/ISO/IEC 15414:2015 [201x], Information technology - Open distributed processing - Reference model - Enterprise language (identical national adoption of ISO/IEC 15414:2015 and revision of INCITS/ISO/IEC 15414:2006 [R2014])
- INCITS/ISO/IEC 16963:2017 [201x], Information technology - Digitally recorded media for information interchange and storage - Test method for the estimation of lifetime of optical disks for long-term data storage (identical national adoption of ISO/IEC 16963:2017 and revision of INCITS/ISO/IEC 16963:2011 [2014])
- INCITS/ISO/IEC 20889:2018 [201x], Privacy enhancing data de-identification terminology and classification of techniques (identical national adoption of ISO/IEC 20889:2018)
- INCITS/ISO/IEC 27004:2016 [201x], Information technology - Security techniques - Information security management - Monitoring, measurement, analysis and evaluation (identical national adoption of ISO/IEC 27004:2016)
- INCITS/ISO/IEC 27005:2018 [201x], Information technology - Security techniques - Information security risk management (identical national adoption of ISO/IEC 27005:2018)
- INCITS/ISO/IEC 27007:2017 [201x], Information technology - Security techniques - Guidelines for information security management systems auditing (identical national adoption of ISO/IEC 27007:2017 and revision of INCITS/ISO/IEC 27007:2011 [R2017])
- INCITS/ISO/IEC 27011:2016 [201x], Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for telecommunications organizations (identical national adoption of ISO/IEC 27011:2016 and revision of INCITS/ISO/IEC 27011:2008 [R2014])
- INCITS/ISO/IEC 27018:2019 [201x], Information technology - Security techniques - Code of practice for protection of personally identifiable information (PII) in public clouds acting as PII processors (identical national adoption of ISO/IEC 27018:2019)
- INCITS/ISO/IEC 29101:2018 [201x], Information technology - Security techniques - Privacy architecture framework (identical national adoption of ISO/IEC 29101:2018)
- INCITS/ISO/IEC 29121:2018 [201x], Information technology - Digitally recorded media for information interchange and storage - Data migration method for optical disks for long-term data storage (identical national adoption of ISO/IEC 29121:2018 and revision of INCITS/ISO/IEC 29121:2013 [2014])
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- INCITS/ISO/IEC 29147:2018 [201x], Information technology - Security techniques - Vulnerability disclosure (identical national adoption of ISO/IEC 29147:2018)
- INCITS/ISO/IEC 18031:2011/AM 1:2017 [201x], Information technology - Security techniques - Random bit generation - Amendment 1: Deterministic random bit generation (identical national adoption of ISO/IEC 18031:2011/Amd 1:2017)
- INCITS/ISO/IEC 27011:2016/COR 1:2018 [201x], Information technology - Security techniques - Code of practice for Information security controls based on ISO/IEC 27002 for telecommunications organizations - Technical corrigendum 1 (identical national adoption of ISO/IEC 27011:2016/Cor 1:2018)
- INCITS/ISO/IEC 29100:2011/AM1:2018 [201x], Information technology - Security techniques - Privacy framework - Amendment 1: Clarifications (identical national adoption of ISO/IEC 29100:2011/AM1:2018)

**NEMA (ASC C82) (National Electrical Manufacturers Association)**

**Office:** 1300 N 17th St  
Rosslyn, VA 22209

**Contact:** Michael Erbesfeld

**Phone:** (703) 841-3262

**E-mail:** Michael.Erbesfeld@nema.org

BSR C82.77-7-201X, Standard for Lighting Equipment - Testing and Measurement Techniques - Voltage Dips, Short Interruptions and Voltage Variations Immunity Tests (national adoption with modifications of IEC 61000-4-11 Edition 2.1 2017-05)

**NSF (NSF International)**

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

**Contact:** Monica Leslie

**Phone:** (734) 827-5643

**E-mail:** mleslie@nsf.org

BSR/NSF 177-201x (i8r1), Shower Filtration Systems - Aesthetic Effects (revision of ANSI/NSF 177-2014)

# Call for Members (ANS Consensus Bodies)

## GBI (Green Building Initiative)

**Office:** 7805 SW 40th Ave. #80010, Portland, OR 97219

**Contact:** Emily Marx, Manager of Standards and Program Support

**Phone:** 503.274.0448, x103

**E-mail:** [marx@thegbi.org](mailto:marx@thegbi.org)

ANSI GBI 01-2019, Green Globes Assessment Protocol for Commercial Buildings

GBI is reconstituting its Consensus Body for the new Continuous Maintenance process and invites members of the former Consensus Body to reapply and any additional interested parties to apply by August 26, 2019. GBI is looking for members in the following interest categories: Producer, Users and General Interest. For more information and to apply for a Consensus Body or Task Group, please use the appropriate form located at <https://www.thegbi.org/ansi>. You can send completed Consensus Body and/or Task Group applications to Emily Marx, Manager of Standards and Program Support, at [marx@thegbi.org](mailto:marx@thegbi.org).

## **Call for Members (ANS Consensus Bodies)**

### **Call for Committee Members**

#### **ASC O1 – Safety Requirements for Woodworking Machinery**

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

- General Interest
- Government
- Producer
- User

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

## ACMA (American Composites Manufacturers Association)

### Revision

ANSI/ACMA UEF-1-2019, Estimating Emission Factors from Open Molding and Other Composite Processes (revision of ANSI/ACMA UEF-1-2011a): 7/31/2019

## AGA (ASC Z380) (American Gas Association)

### Addenda

ANSI GPTC Z380.1-2018, Addendum No. 4, Guide for Transmission, Distribution and Gathering Piping Systems (addenda to ANSI GPTC Z380.1-2018): 7/31/2019

## AIAA (American Institute of Aeronautics and Astronautics)

### Reaffirmation

ANSI/AIAA-S-120A-2015 (R2019), Mass Properties Control for Space Systems (reaffirmation of ANSI/AIAA-S-120A-2015): 7/31/2019

## ASA (ASC S3) (Acoustical Society of America)

### Reaffirmation

ANSI/ASA S3.45-2009 (R2019), Procedures for Testing Basic Vestibular Function (reaffirmation of ANSI/ASA S3.45-2009 (R2014)): 8/1/2019

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

### Addenda

ANSI/ASHRAE/ASHE Addendum a to ANSI/ASHRAE/ASHE Standard 189.3-2019, Design, Construction, and Operation of Sustainable High-Performance Health Care Facilities (addenda to ANSI/ASHRAE/ASHE Standard 189.3-2017): 7/30/2019

## ASME (American Society of Mechanical Engineers)

### Reaffirmation

ANSI/ASME B89.1.5-1998 (R2019), Measurement of Plain External Diameters for Use as Master Discs or Cylindrical Plug Gages (reaffirmation of ANSI/ASME B89.1.5-1998 (R2014)): 8/1/2019

ANSI/ASME B89.3.4-2010 (R2019), Axes of Rotation: Methods for Specifying and Testing (reaffirmation of ANSI/ASME B89.3.4-2010 (R2015)): 8/1/2019

ANSI/ASME B89.7.2-2014 (R2019), Dimensional Measurement Planning (reaffirmation of ANSI/ASME B89.7.2-2014): 8/1/2019

ANSI/ASME B89.7.3.1-2001 (R2019), Guidelines for Decision Rules: Considering Measurement Uncertainty in Determining Conformance to Specifications (reaffirmation of ANSI/ASME B89.7.3.1-2001 (R2011)): 8/1/2019

## ATIS (Alliance for Telecommunications Industry Solutions)

### Revision

ANSI/ATIS 0300094-2019, Trouble Type Codes in Support of ATIS Trouble Administration Standards (revision of ANSI/ATIS 0300094-2015): 7/31/2019

ANSI/ATIS 0300218-2019, ISDN Management - Data-Link and Network Layers (revision of ANSI ATIS 0300218-2013): 7/31/2019

ANSI/ATIS 0300231.01-2019, Digital Subscriber Line (DSL) - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.01-2013): 7/31/2019

ANSI/ATIS 0300231.02-2019, DS1 - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.02-2013): 7/31/2019

ANSI/ATIS 0300231.03-2019, DS3 - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.03-2013): 7/31/2019

ANSI/ATIS 0300231.04-2019, SONET - Layer 1 In-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231.04-2013): 7/31/2019

ANSI/ATIS 0300231-2019, Digital Hierarchy - Layer 1 in-Service Digital Transmission Performance Monitoring (revision of ANSI ATIS 0300231-2013): 7/31/2019

ANSI/ATIS 0300245-2019, Directory Services for Telecommunications Management Network (TMN) and Synchronous Optical Network (SONET) (revision of ANSI ATIS 0300245-2013): 7/31/2019

## AWS (American Welding Society)

### Addenda

ANSI/AWS B2.1/B2.1M:2014-ADD1-2019, Specification for Welding Procedure and Performance Qualification (addenda to ANSI/AWS B2.1/B2.1M:2014-AMD1-2015): 7/31/2019

### New Standard

ANSI/AWS B2.1-1-001-2019, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 3/4 inch [19 mm], E7016 and E7018, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard): 7/31/2019

ANSI/AWS B2.1-1-232-2019, Standard Welding Procedure Specification (SWPS) for 75% Argon Plus 25% Carbon Dioxide Shielded Gas Metal Arc Welding (Short Circuiting Transfer Mode) followed by 75% Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER70S-3 and E71T-X, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard): 7/31/2019

ANSI/AWS B2.1-1-233-2019, Standard Welding Procedure Specification (SWPS) for 75% Argon Plus 25% Carbon Dioxide Shielded Gas Metal Arc Welding (Short Circuiting Transfer Mode) followed by 98% Argon Plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER70S-3, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard): 7/31/2019

ANSI/AWS B2.1-1-234-2019, Standard Welding Procedure Specification (SWPS) for 75% Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E7XT-X, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard): 7/31/2019

ANSI/AWS B2.1-1-235-2019, Standard Welding Procedure Specification (SWPS) for 98% Argon Plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER70S-3, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard): 7/31/2019

## CSA (CSA America Standards Inc.)

### *New Standard*

ANSI/CSA C22.2 No. 273-2019, Cablebus (new standard): 7/31/2019

## ECIA (Electronic Components Industry Association)

### *New Standard*

ANSI/EIA 198-3-9-F-2019, High Voltage Ceramic Capacitors, Conformally Coated and Multilayer Surface Mount (new standard): 7/31/2019

ANSI/EIA 364-120-2019, Electrolytic Erosion Test Procedure for Electrical Connectors (new standard): 7/31/2019

## HL7 (Health Level Seven)

### *New Standard*

ANSI/HL7 FHIR® OBS R1-2019, HL7 FHIR R4 Observation, Release 1 (new standard): 7/31/2019

ANSI/HL7 FHIR R4 TERMINOLOGY R1-2019, HL7 FHIR R4 Terminology & Conformance, Release 1 (new standard): 7/31/2019

### *Reaffirmation*

ANSI/HL7 Arden V2.10-2014 (R2019), Health Level Seven Arden Syntax for Medical Logic Systems, Version 2.10-2019 (reaffirmation of ANSI/HL7 Arden V2.10-2014): 7/31/2019

ANSI/HL7 EHR BHFP, R1-2008 (R2019), HL7 EHR Behavioral Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR BHFP, R1-2008 (R2014)): 8/1/2019

ANSI/HL7 EHR CHFP, R1-2008 (R2019), HL7 EHR Child Health Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CHFP, R1-2008 (R2014)): 8/1/2019

ANSI/HL7 EHR CRFP, R1-2009 (R2019), HL7 EHR Clinical Research Functional Profile, Release 1 (reaffirmation of ANSI/HL7 EHR CRFP, R1-2009 (R2014)): 8/1/2019

ANSI/HL7 V3 CSP, R1-2014 (R2019), HL7 Version 3 Standard: Clinical Statement Pattern, Release 1 (reaffirmation of ANSI/HL7 V3 CSP, R1-2014): 8/1/2019

ANSI/HL7 V3 ECG, R1-2004 (R2019), HL7 Version 3 Standard: Regulated Studies - Annotated ECG, Release 1 (reaffirmation of ANSI/HL7 V3 ECG, R1-2004 (R2014)): 8/1/2019

ANSI/HL7 V3XMLITS STRUCT4WFCR1DT, R1-2014 (R2019), HL7 Version 3 Standard: XML: Implementation Technology Specification - V3 Structures for Wire Format Compatible Release 1 Data Types, Release 1-2019 (reaffirmation of ANSI/HL7 V3XMLITS STRUCT4WFCR1DT, R1-2014): 7/31/2019

ANSI/HL7 V3XMLITS WFCR1DT, R1-2014 (R2019), HL7 Version 3 Standard: XML Implementation Technology Specification - Wire Format Compatible Release 1 Data Types, Release 1 (reaffirmation of ANSI/HL7 V3XMLITS WFCR1DT, R1-2014): 7/31/2019

## NSF (NSF International)

### *New Standard*

ANSI/NSF 385-2019 (i1r11), Disinfection Mechanics (new standard): 7/30/2019

### *Revision*

ANSI/NSC 373-2019 (i5r1), Sustainability Assessment Natural Dimension Stone (revision of ANSI/NSC 373-2017): 7/28/2019

ANSI/NSF 49-2019 (i146r1), Biosafety Cabinetry - Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2018): 8/1/2019

ANSI/NSF 50-2019 (i138r5), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017): 7/31/2019

ANSI/NSF 50-2019 (i147r1), Equipment and Chemicals for Swimming Pools, Spas, Hot Tubs, and Other Recreational Water Facilities (revision of ANSI/NSF 50-2017): 8/2/2019

ANSI/NSF 55-2019 (i49r1), Ultraviolet Microbiological Water Treatment Systems (revision of ANSI/NSF 55-2018): 7/29/2019

ANSI/NSF 330-2019 (i10r2), Glossary of Drinking Water Treatment Unit Terminology (revision of ANSI/NSF 330-2018): 8/2/2019

ANSI/NSF/CAN 61-2019 (i142r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF/CAN 61-2018): 7/30/2019

ANSI/NSF/CAN 61-2019 (i151r1), Drinking Water System Components - Health Effects (revision of ANSI/NSF 61-2018): 7/31/2019

## UL (Underwriters Laboratories, Inc.)

### *New National Adoption*

ANSI/UL 61010-2-081-2019, Standard for Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-081: Particular Requirements for Automatic and Semi-Automatic Laboratory Equipment for Analysis and Other Purposes (identical national adoption of IEC 61010-2-081 and revision of ANSI/UL 61010-2-081-2015): 7/31/2019

ANSI/UL 61010-2-091-2019, Standard for Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-091: Particular Requirements for Cabinet X-Ray Systems (identical national adoption of IEC 61010-2-091 and revision of ANSI/UL 61010-2-091-2014 (R2018)): 7/31/2019

ANSI/UL 61010-2-101-2019, Standard for Safety Requirements for Electrical Equipment for Measurement, Control and Laboratory Use - Part 2-101: Particular Requirements for In Vitro Diagnostic (IVD) Medical Equipment (identical national adoption of IEC 61010-2-101 and revision of ANSI/UL 61010-2-101-2015): 7/31/2019

### *New Standard*

ANSI/UL 2218A-2019, Standard for Safety for Impact Resistance of Roofing Systems (new standard): 8/2/2019



**Revision**

ANSI/UL 498A-2019b, Standard for Safety for Current Taps and Adapters  
(revision of ANSI/UL 498A-2019a): 8/2/2019

ANSI/UL 746B-2019, Standard for Safety for Polymeric Materials - Long Term  
Property Evaluations (revision of ANSI/UL 746B-2018): 8/2/2019

ANSI/UL 1238-2019, Standard for Safety for Control Equipment for Use with  
Flammable Liquid Dispensing Devices (revision of ANSI/UL 1238-2016):  
8/1/2019

ANSI/UL 1450-2019, Standard for Safety for Motor-Operated Air  
Compressors, Vacuum Pumps, and Painting Equipment (revision of  
ANSI/UL 1450-2013): 8/5/2019

ANSI/UL 1450-2019A, Standard for Safety for Motor-Operated Air  
Compressors, Vacuum Pumps, and Painting Equipment (revision of  
ANSI/UL 1450-2013): 8/5/2019

ANSI/UL 1821-2019, Thermoplastic Sprinkler Pipe and Fittings for Fire  
Protection Service (revision of ANSI/UL 1821-2017): 7/30/2019

ANSI/UL 2703-2019, Standard for Safety for Mounting Systems, Mounting  
Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-  
Plate Photovoltaic Modules and Panels (revision of ANSI/UL 2703-2019):  
8/1/2019

ANSI/UL 2703-2019A, Standard for Safety for Mounting Systems, Mounting  
Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-  
Plate Photovoltaic Modules and Panels (revision of ANSI/UL 2703-2015):  
8/1/2019

ANSI/UL 8750-2019, Standard for Safety for Light Emitting Diode (LED)  
Equipment for Use in Lighting Products (Proposal dated 5-17-19) (revision  
of BSR/UL 8750-201X): 7/30/2019

ANSI/UL 8750-2019A, Standard for Safety for Light Emitting Diode (LED)  
Equipment for Use in Lighting Products (Proposal dated 9-14-18) (revision  
of ANSI/UL 8750-2018): 7/30/2019

# Project Initiation Notification System (PINS)

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

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

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

## ASME (American Society of Mechanical Engineers)

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

### **New Standard**

BSR/ASME V&V 40.WG1.1-201x, Using Historical Clinical Data as a Validation Comparator (new standard)

Stakeholders: Designers, general interest, laboratory, producers/manufacturers, regulatory/government, consultants, and users.

Project Need: Clinically observed issues for an implantable device or group of devices can provide important information and insights into in vivo loads. It is therefore desirable for computational models of the clinical device to demonstrate consistency with the clinical issue. This project seeks to critically review the level of validation that consistency with a clinical issue provides to a computational model and discuss conclusions that may be drawn from such models.

The standard will use tibial tray fracture (which is known clinical occurrence) to motivate examples and discussion of validation within the V&V 40 framework. Uncertainties of various computational analyses that incorporate multiple computational designs will be reviewed.

## ASTM (ASTM International)

Contact: *Laura Klineburger, (610) 832-9744, accreditation@astm.org*  
*100 Barr Harbor Drive, West Conshohocken, PA 19428-2959*

### **New Standard**

BSR/ASTM WK69284-201x, New Specification for UL100 Unleaded Aviation Gasoline (new standard)

Stakeholders: Spark and Compression Ignition Aviation Engine Fuels industry.

Project Need: A motion to ballot the aforementioned specification was approved at the December 2018 ASTM meeting in Atlanta, GA. The research report associated with this UL100 unleaded avgas formulation was the subject of two administrative ballots. The most recent administrative ballot was D02.J0 (17-04) Item 002. The research report included a draft version of the specification. Ballot results were 75 affirmative, 0 negative, and 267 abstain. Five comments were received. The specification is being submitted in a stand-alone ballot. There are a few changes between this specification and the draft specification which was attached to the research report in 2017.

This specification covers formulating specifications for purchases of a UL100 unleaded aviation gasoline under contract and is intended solely for use by purchasing agencies for testing purposes.

BSR/ASTM WK69286-201x, New Specification for Standard Specification for Steel Skeleton Reinforced Polyethylene (PE) Composite Pipe and Fittings (new standard)

Stakeholders: Composite industry.

Project Need: These products are well-established steel-reinforced polyethylene piping and fittings for the transport of crude oil, gas, and hazardous chemicals in the People's Republic of China. These products have been in production and in use for 25 years or longer in China. An ASTM International standard was requested by end-users/customers for these piping products in the Middle East.

This specification covers requirements and test methods for materials, dimensions, workmanship, and markings for steel-skeleton-reinforced polyethylene composite pipe and fittings. It covers nominal sizes 75 mm through 630 mm (3 in. through 25 in.). These products are intended for the transport of crude oil, natural gas, water, and hazardous liquids.

**AWS (American Welding Society)**

Contact: Stephen Hedrick, (305) 443-9353, [steveh@aws.org](mailto:steveh@aws.org)  
8669 NW 36 Street, #130, Miami, FL 33166

**Revision**

BSR/AWS B2.4-201x, Specification for Welding Procedure and Performance Qualification for Thermoplastics (revision of ANSI/AWS B2.4-2012)

Stakeholders: Personnel involved in all aspects of thermoplastic welding.

Project Need: This document is needed for qualification of thermoplastic welding procedures and thermoplastic welders.

This specification provides the requirements for qualification of welding procedure specifications, welders, and welding operators for manual, semiautomatic, mechanized, and automatic welding. The welding processes included are electrofusion, hot gas, socket fusion, butt contact fusion, infrared, extrusion welding, flow fusion welding, and solvent cement welding. Base materials, filler materials, qualification variables, and testing requirements are also included.

**CSA (CSA America Standards Inc.)**

Contact: David Zimmerman, (216) 524-4990, [david.zimmerman@csagroup.org](mailto:david.zimmerman@csagroup.org)  
8501 E. Pleasant Valley Road, Cleveland, OH 44131

**Revision**

BSR Z83.26-201x, Gas-fired outdoor infrared patio heaters (same as CSA 2.37) (revision of ANSI Z83.26-2014)

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

Project Need: Revise current American National Standard.

Patio heaters for heating residential or nonresidential outdoor spaces. Outdoor heaters may be suspended overhead, angle mounted overhead, wall mounted, or floor mounted. Floor mounted heaters may be free-standing or portable. Outdoor heaters may be connected to a fixed fuel piping system or connection to an integral self-contained LP gas supply. Cylinder size shall be limited to 20 lb of fuel.

**ECIA (Electronic Components Industry Association)**

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

**Revision**

BSR/EIA 364-23D-201x, Low Level Contact Resistance Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-23C-2006 (R2017))

Stakeholders: Electronics, Electrical, and Telecommunications industries.

Project Need: Revise and redesignate current American National Standard.

This test procedure may apply to any type or combination of current carrying members such as pin and socket contacts, relay contacts, wire and crimp connectors, or printed circuit board and contact.

**EOS/ESD (ESD Association, Inc.)**

Contact: Christina Earl, (315) 339-6937, [cearl@esda.org](mailto:cearl@esda.org)  
7900 Turin Rd., Bldg. 3, Rome, NY 13440

**Revision**

BSR/ESDA/JEDEC JS-002-201x, ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Charged Device Model (CDM) - Device Level (revision of ANSI/ESDA/JEDEC JS-002-2018)

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

Project Need: The purpose (objective) of this document is to establish a test method that will replicate CDM failures and provide reliable, repeatable CDM ESD test results from tester to tester, regardless of device type. Repeatable data will allow accurate classifications and comparisons of CDM ESD sensitivity levels.

This document establishes the procedure for testing, evaluating, and classifying devices and microcircuits according to their susceptibility (sensitivity) to damage or degradation by exposure to a defined field-induced charged device model (CDM) electrostatic discharge (ESD). All packaged semiconductor devices, thin film circuits, surface acoustic wave (SAW) devices, opto-electronic devices, hybrid integrated circuits (HICs), and multi-chip modules (MCMs) containing any of these devices are to be evaluated according to this standard. To perform the tests, the devices must be assembled into a package similar to that expected in the final application. This CDM document does not apply to socketed discharge model testers. This test method combines the main features of JEDEC JESD22-C101 and ANSI/ESD S5.3.1. New verification procedures and test condition definitions have been introduced to facilitate this combination.

## **ESTA (Entertainment Services and Technology Association)**

Contact: Karl Ruling, (212) 244-1505, [standards@esta.org](mailto:standards@esta.org)  
630 Ninth Avenue, Suite 609, New York, NY 10036-3748

### **Revision**

BSR E1.23-201x, Entertainment Technology - Design, Execution, and Maintenance of Atmospheric Effects (revision of ANSI E1.23-2010 (R2015))

Stakeholders: Fog effects designers, technicians, performers, members of the audience.

Project Need: Guidance is needed on how to develop a strategy to maintain an effect over the months or years of a long-running show or an extended motion-picture shoot. The existing standard also needs revision to more obviously address motion-picture production, as well as live performance.

The E1.23 document offers advice on the planning execution and maintenance of theatrical effects using glycol, glycerin, or white mineral oil fogs or mists in theaters, arenas, motion picture studios, and other places of public assembly or motion picture production. The guidance is offered to help effects designers and technicians create effects that can be executed repeatedly and reliably, and so that they can avoid excessive exposure to the fog materials and other foreseeable hazards.

## **IIAR (International Institute of Ammonia Refrigeration)**

Contact: Tony Lundell, (703) 312-4200, [tony\\_lundell@iiar.org](mailto:tony_lundell@iiar.org)  
1001 North Fairfax Street, Alexandria, VA 22314

### **Revision**

BSR/IIAR 2-201x, Safety Standard for Design of Closed-Circuit Ammonia Refrigeration Systems (revision of ANSI/IIAR 2-2014)

Stakeholders: Designers/installers/servicers, manufacturers, owners/operators, and general interest.

Project Need: This standard is open for full review and revision as needed by consensus for periodic maintenance essential requirements.

This standard provides the minimum requirements for designing safe closed-circuit ammonia refrigeration systems.

## **NEMA (ASC C12) (National Electrical Manufacturers Association)**

Contact: Paul Orr, (703) 841-3227, [Pau\\_orr@nema.org](mailto:Pau_orr@nema.org)  
1300 North 17th Street, Suite 900, Rosslyn, VA 22209

### **Reaffirmation**

BSR C12.9-2014 (R201x), Test Switches and Plugs for Transformer-Rated Meters (reaffirmation of ANSI C12.9-2014)

Stakeholders: Meter manufacturers, meter socket manufacturers, electric utilities.

Project Need: Periodic maintenance of an American National Standard.

This standard is intended to encompass the dimensions and functions of meter test switches used with transformer-rated watt-hour meters in conjunction with instrument transformers and test plugs used in conjunction with the test switch.

### **Revision**

BSR C12.7-201x, Requirements for Watt-hour Meter Sockets (revision of ANSI C12.7-2005 (R2014))

Stakeholders: Meter socket manufacturers, meter manufacturers, electric utilities.

Project Need: Revise standard to redraw figures and add definition of "Test Block" and other changes.

This standard covers the general requirements and pertinent dimensions applicable to watt-hour meter sockets rated up to and including 600 V and up to and including 320 A continuous duty per socket opening.

BSR C12.19-201x, Utility Industry End Device Data Tables (revision of ANSI C12.19-2014)

Stakeholders: Electricity meter manufacturers and electric utilities.

Project Need: Revise to update standard for needs of industry and utilities.

This standard defines a table structure for utility application data to be passed between an end device and any other device. It neither defines device design criteria nor specifies the language or protocol used to transport that data. The tables defined in this standard represent a data structure that shall be used to transport the data, not necessarily the data storage format used inside the end device.

# 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](http://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](http://www.ansi.org/publicreview)

Alternatively, you may contact the Procedures & Standards Administration department (PSA) at [psa@ansi.org](mailto: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](mailto:standact@ansi.org).

|  |  |   |  |
|--|--|---|--|
| <p><b>AAFS</b><br/>American Academy of Forensic Sciences<br/>410 North 21st Street<br/>Colorado Springs, CO 80904<br/>Phone: (719) 453-1036<br/>Web: <a href="http://www.aafs.org">www.aafs.org</a></p>                                  | <p><b>ASABE</b><br/>American Society of Agricultural and Biological Engineers<br/>2920 Niles Rd.<br/>Saint Joseph, MI 49085<br/>Phone: (269) 932-7009<br/>Web: <a href="http://www.asabe.org">www.asabe.org</a></p>                            | <p><b>ECIA</b><br/>Electronic Components Industry Association<br/>13873 Park Center Road<br/>Suite 315<br/>Herndon, VA 20171<br/>Phone: (571) 323-0294<br/>Web: <a href="http://www.ecianow.org">www.ecianow.org</a></p>  | <p><b>ITI (INCITS)</b><br/>InterNational Committee for Information Technology Standards<br/>700 K Street NW<br/>Suite 600<br/>Washington, DC 20001<br/>Phone: (202) 737-8888<br/>Web: <a href="http://www.incits.org">www.incits.org</a></p>   |
| <p><b>ACMA</b><br/>American Composites Manufacturers Association<br/>3033 Wilson Boulevard, Suite 420<br/>Arlington, VA 22201<br/>Phone: (740) 928-3286<br/>Web: <a href="http://www.icpa-hq.org">www.icpa-hq.org</a></p>                | <p><b>ASHRAE</b><br/>American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.<br/>1791 Tullie Circle NE<br/>Atlanta, GA 30329<br/>Phone: (678) 539-2114<br/>Web: <a href="http://www.ashrae.org">www.ashrae.org</a></p> | <p><b>EOS/ESD</b><br/>ESD Association, Inc.<br/>7900 Turin Rd., Bldg. 3<br/>Rome, NY 13440<br/>Phone: (315) 339-6937<br/>Web: <a href="http://www.esda.org">www.esda.org</a></p>  | <p><b>NEMA (ASC C12)</b><br/>National Electrical Manufacturers Association<br/>1300 North 17th Street<br/>Suite 900<br/>Rosslyn, VA 22209<br/>Phone: (703) 841-3227<br/>Web: <a href="http://www.nema.org">www.nema.org</a></p>                |
| <p><b>AGA (ASC Z380)</b><br/>American Gas Association<br/>400 North Capitol Street, NW<br/>Suite 450<br/>Washington, DC 20001<br/>Phone: (202) 824-7339<br/>Web: <a href="http://www.aga.org">www.aga.org</a></p>                        | <p><b>ASME</b><br/>American Society of Mechanical Engineers<br/>Two Park Avenue<br/>New York, NY 10016-5990<br/>Phone: (212) 591-8521<br/>Web: <a href="http://www.asme.org">www.asme.org</a></p>  | <p><b>ESTA</b><br/>Entertainment Services and Technology Association<br/>630 Ninth Avenue<br/>Suite 609<br/>New York, NY 10036-3748<br/>Phone: (212) 244-1505<br/>Web: <a href="http://www.esta.org">www.esta.org</a></p> | <p><b>NEMA (ASC C82)</b><br/>National Electrical Manufacturers Association<br/>1300 N 17th St<br/>Rosslyn, VA 22209<br/>Phone: (703) 841-3262<br/>Web: <a href="http://www.nema.org">www.nema.org</a></p>                                      |
| <p><b>AIAA</b><br/>American Institute of Aeronautics and Astronautics<br/>12700 Sunrise Valley Drive, Suite 200<br/>Reston, VA 20191-5807<br/>Phone: (703) 264-7546<br/>Web: <a href="http://www.aiaa.org">www.aiaa.org</a></p>          | <p><b>ASTM</b><br/>ASTM International<br/>100 Barr Harbor Drive<br/>West Conshohocken, PA 19428-2959<br/>Phone: (610) 832-9696<br/>Web: <a href="http://www.astm.org">www.astm.org</a></p>   | <p><b>HL7</b><br/>Health Level Seven<br/>3300 Washtenaw Avenue<br/>Suite 227<br/>Ann Arbor, MI 48104<br/>Phone: (734) 677-7777<br/>Web: <a href="http://www.hl7.org">www.hl7.org</a></p>                                  | <p><b>NSF</b><br/>NSF International<br/>789 N. Dixboro Road<br/>Ann Arbor, MI 48105-9723<br/>Phone: (734) 827-5643<br/>Web: <a href="http://www.nsf.org">www.nsf.org</a></p>   |
| <p><b>AISC</b><br/>American Institute of Steel Construction<br/>130 E. Randolph Street, Suite 2000<br/>Chicago, IL 60601<br/>Phone: (314) 601-5420<br/>Web: <a href="http://www.aisc.org">www.aisc.org</a></p>                           | <p><b>ATIS</b><br/>Alliance for Telecommunications Industry Solutions<br/>1200 G Street NW<br/>Suite 500<br/>Washington, DC 20005<br/>Phone: (202) 628-6380<br/>Web: <a href="http://www.atis.org">www.atis.org</a></p>                        | <p><b>HPS (ASC N43)</b><br/>Health Physics Society<br/>1313 Dolley Madison Blvd #402<br/>McLean, VA 22101<br/>Phone: (703) 790-1745<br/>Web: <a href="http://www.hps.org">www.hps.org</a></p>                             | <p><b>TAPPI</b><br/>Technical Association of the Pulp and Paper Industry<br/>15 Technology Parkway South<br/>Suite 115<br/>Peachtree Corners, GA 30092<br/>Phone: (770) 209-7278<br/>Web: <a href="http://www.tappi.org">www.tappi.org</a></p> |
| <p><b>ASA (ASC S3)</b><br/>Acoustical Society of America<br/>1305 Walt Whitman Road<br/>Suite 300<br/>Melville, NY 11747<br/>Phone: (631) 390-0215<br/>Web: <a href="http://www.acousticalsociety.org">www.acousticalsociety.org</a></p> | <p><b>AWS</b><br/>American Welding Society<br/>8669 NW 36 Street, #130<br/>Miami, FL 33166<br/>Phone: (305) 443-9353<br/>Web: <a href="http://www.aws.org">www.aws.org</a></p>   | <p><b>IIAR</b><br/>International Institute of Ammonia Refrigeration<br/>1001 North Fairfax Street<br/>Alexandria, VA 22314<br/>Phone: (703) 312-4200<br/>Web: <a href="http://www.iiar.org">www.iiar.org</a></p>          | <p><b>UL</b><br/>Underwriters Laboratories, Inc.<br/>333 Pfingsten Road<br/>Northbrook, IL 60062<br/>Phone: (847) 664-1292<br/>Web: <a href="http://www.ul.com">www.ul.com</a></p>   |
|  | <p><b>CSA</b><br/>CSA America Standards Inc.<br/>8501 E. Pleasant Valley Road<br/>Cleveland, OH 44131<br/>Phone: (216) 524-4990<br/>Web: <a href="http://www.csagroup.org">www.csagroup.org</a></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

### **ADDITIVE MANUFACTURING (TC 261)**

ISO/ASTM DIS 52921, Additive manufacturing - General principles - Standard practice for part positioning, coordinates and orientation - 10/21/2019, \$58.00

### **ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)**

ISO/DIS 80601-2-70, Medical electrical equipment - Part 2-70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment - 10/21/2019, \$125.00

### **BUILDING CONSTRUCTION (TC 59)**

ISO/DIS 23658, Buildings and civil engineering works - Sealants - Testing of adhesion properties using a bead peel test - 10/19/2019, \$40.00

### **EARTH-MOVING MACHINERY (TC 127)**

ISO/DIS 24410, Earth-moving machinery - Coupling of attachments to skid steer loaders - 10/25/2019, \$58.00

### **ENVIRONMENTAL MANAGEMENT (TC 207)**

ISO/DIS 14050, Environmental management - Vocabulary - 10/19/2019, \$155.00

### **MACHINE TOOLS (TC 39)**

ISO/DIS 28881, Machine tools - Safety - Electrical discharge machines - 10/14/2019, \$125.00

### **MICROBEAM ANALYSIS (TC 202)**

ISO/DIS 13067, Microbeam analysis - Electron backscatter diffraction - Measurement of average grain size - 10/21/2019, \$82.00

### **OPTICS AND OPTICAL INSTRUMENTS (TC 172)**

ISO/DIS 19986, Lasers and laser-related equipment - Test method for angle resolved scattering - 10/18/2019, \$62.00

### **OTHER**

ISO/DGuide 84, Guidelines for addressing climate change in standards - 11/21/2019, \$68.00

### **PAINTS AND VARNISHES (TC 35)**

ISO/DIS 4625-1, Binders for paints and varnishes - Determination of softening point - Part 1: Ring-and-ball method - 12/27/2035, \$53.00

ISO/DIS 16474-3, Paints and varnishes - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps - 10/20/2019, \$67.00

### **PERSONAL SAFETY - PROTECTIVE CLOTHING AND EQUIPMENT (TC 94)**

ISO/DIS 12609-1, Eye and face protection against intense light sources used on humans and animals for cosmetic and medical applications - Part 1: Specification for products - 10/19/2019, \$67.00

### **PLASTICS (TC 61)**

ISO/DIS 19679, Plastics - Determination of aerobic biodegradation of non-floating plastic materials in a seawater/sediment interface - Method by analysis of evolved carbon dioxide - 10/25/2019, \$58.00

### **REFRACTORIES (TC 33)**

ISO/DIS 22605, Refractories - Determination of dynamic Youngs modulus(MOE) at elevated temperatures by impulse excitation of vibration - 10/17/2019, \$58.00

### **ROAD VEHICLES (TC 22)**

ISO/DIS 5011, Inlet air cleaning equipment for internal combustion engines and compressors - Performance testing - 10/20/2019, \$119.00

### **ROLLING BEARINGS (TC 4)**

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

### **SHIPS AND MARINE TECHNOLOGY (TC 8)**

ISO/DIS 19018, Ships and marine technology - Terms, abbreviations, graphical symbols and concepts on navigation - 10/17/2019, \$77.00

### **TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

ISO/DIS 12140-1, Agricultural machinery - Agricultural trailers and trailed equipment - Drawbar jacks - Part 1: Design safety, test methods and acceptance criteria - 10/19/2019, \$58.00

ISO/DIS 12140-2, Agricultural machinery - Agricultural trailers and trailed equipment - Drawbar jacks - Part 2: Application safety, test methods and acceptance criteria - 10/19/2019, \$40.00

### TRADITIONAL CHINESE MEDICINE (TC 249)

ISO/DIS 22213, Traditional Chinese medicine - Traditional glass cupping device - 10/17/2019, \$46.00

### TYRES, RIMS AND VALVES (TC 31)

ISO/DIS 3739-1, Industrial tyres and rims - Part 1: Pneumatic tyres (metric series) on 5 degrees tapered or flat base rims - Designation, dimensions and marking - 10/24/2019, \$58.00

### WELDING AND ALLIED PROCESSES (TC 44)

ISO/DIS 18496, Brazing - Fluxes for brazing - Classification and technical delivery conditions - 10/17/2019, \$53.00

## ISO/IEC JTC 1, Information Technology

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

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

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

## IEC Standards

3D/329/DC, IEC Common Data Dictionary (IEC CDD): C00081 - Operating means for switching device, audible signalling device and control stations, 2019/9/13

7/688/CD, IEC TR 61597 ED2: Overhead electrical conductors - Calculation methods for stranded bare conductors, /2019/10/2

10/1084/CDV, IEC 60296 ED5: Fluids for electrotechnical applications - Mineral insulating oils for electrical equipment, /2019/10/2

22G/394/CDV, IEC 61800-2 ED3: Adjustable speed electrical power drive systems - Part 2: General requirements - Rating specifications for adjustable speed a.c. power drive systems, /2019/10/2

29/1028/CD, IEC 60263 ED4: Scales and sizes for plotting frequency characteristics and polar diagrams, 2019/9/27

40/2690/CD, IEC 60115-2 ED4: Fixed resistors for use in electronic equipment - Part 2: Sectional specification: Leaded fixed low power film resistors, /2019/10/2

45A/1285/FDIS, IEC/IEEE 63260 ED1: IEEE Guide for incorporating human reliability analysis into probabilistic risk assessments for nuclear power generating stations and other nuclear facilities, 2019/9/13

46F/484/NP, PNW 46F-484: Part XX: Sectional specification for series SMP3 RF coaxial connectors, /2019/10/2

46F/483/NP, PNW 46F-483: Radio-frequency connectors - Part XX: Sectional specification for RF coaxial connectors with inner diameter of outer conductor 5,0 mm - Characteristic impedance 50Ω Ohms (type NEX10®), /2019/10/2

57/2128/DTR, IEC TR 61850-90-9 ED1: Communication networks and systems for power utility automation - Part 90-9: Use of IEC 61850 for Electrical Energy Storage Systems, 2019/9/27

62B/1138/CDV, IEC 60336 ED5: Medical electrical equipment - X-ray tube assemblies for medical diagnosis - Characteristics of focal spots, /2019/10/2

65E/663/NP, PNW 65E-663: Automation engineering of modular systems in the process industry - General concept and interfaces, /2019/10/2

76/636/CD, IEC 60825-18: Guided beam delivery systems, 2019/9/27  
77/546/DC, Amendment of standards IEC 61000-6-1 Ed. 3 and IEC 61000-6-2 Ed. 3 - Performance criteria, 2019/9/27

82/1617/DTS, IEC TS 62257-12-1 ED3: Renewable energy and hybrid systems for rural electrification - Part 12-1: Recommendations for selection of lamps and lighting appliances for off-grid electricity systems, /2019/10/2

86B/4227/CD, IEC 61755-3-2 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-2: Connector parameters of dispersion unshifted single mode physically contacting fibres - Angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules, core location variant 1, 2019/9/27

86B/4226/CD, IEC 61755-3-1 ED2: Fibre optic interconnecting devices and passive components - Connector optical interfaces - Part 3-1: Connector parameters of dispersion unshifted single mode physically contacting fibres - Non-angled 2,5 mm and 1,25 mm diameter cylindrical full zirconia ferrules, core location variant 1, 2019/9/27

91/1604/CD, IEC 61188-6-2 ED1: Printed boards and printed board assemblies - Design and use - Part 6-2: Land pattern design - Description of land pattern for the most common surface mounted components (SMD), 2019/9/27

91/1597/FDIS, IEC 62878-1 ED1: Device embedding assembly technology - Part 1: Generic specification for device embedded substrates, 2019/9/13

97/202/CDV, IEC 63067 ED1: Electrical installations for lighting and beaconing of aerodromes - Connecting devices - General requirements and tests, /2019/10/2

110/1109/CDV, IEC 62906-5-3 ED1: Laser display devices - Part 5-3: Measuring methods of image quality for laser projection displays, /2019/10/2

110/1134/FDIS, IEC 62341-5-3 ED2: Organic light emitting diode (OLED) displays - Part 5-3: Measuring methods of image sticking and lifetime, 2019/9/13

110/1135/CD, IEC 62977-3-5 ED1: Electronic displays - Part 3-5: Evaluation of optical performances - Colour capabilities, 2019/9/27

114/326/DTS, IEC TS 62600-3 ED1: Marine energy - Wave, tidal and other water current converters - Part 3: Measurement of mechanical loads, /2019/10/2

121B/89/DTS, IEC TS 63107 ED1: Integration of arcing fault mitigation devices into power switchgear and controlgear assemblies (PSC-ASSEMBLIES) according to IEC 61439-2, /2019/10/2

CIS/A/1300/CDV, CISPR 16-1-6/AMD2 ED1: Amendment 2 - Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-6: Radio disturbance and immunity measuring apparatus - EMC antenna calibration, /2019/10/2





# Newly Published ISO & IEC Standards

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

## ISO Standards

### ADDITIVE MANUFACTURING (TC 261)

[ISO/ASTM 52902:2019](#), Additive manufacturing - Test artifacts -

Geometric capability assessment of additive manufacturing systems, \$185.00

[ISO/ASTM 52904:2019](#), Additive manufacturing - Process characteristics and performance - Practice for metal powder bed fusion process to meet critical applications, \$68.00

[ISO/ASTM 52911-1:2019](#), Additive manufacturing - Design - Part 1: Laser-based powder bed fusion of metals, \$138.00

### ANAESTHETIC AND RESPIRATORY EQUIPMENT (TC 121)

[ISO 5356-2/Amd1:2019](#), Anaesthetic and respiratory equipment -

Conical connectors - Part 2: Screw-threaded weight-bearing connectors - Amendment 1, \$19.00

### CAST IRON AND PIG IRON (TC 25)

[ISO 185:2019](#), Grey cast irons - Classification, \$138.00

### DOCUMENT IMAGING APPLICATIONS (TC 171)

[ISO 22550:2019](#), Document management - AFP interchange for PDF, \$162.00

### EARTH-MOVING MACHINERY (TC 127)

[ISO 17757:2019](#), Earth-moving machinery and mining - Autonomous and semi-autonomous machine system safety, \$185.00

### FINE CERAMICS (TC 206)

[ISO 20504:2019](#), Fine ceramics (advanced ceramics, advanced technical ceramics) - Mechanical properties of ceramic composites at room temperature - Determination of compressive properties, \$103.00

### FLOOR COVERINGS (TC 219)

[ISO 24334:2019](#), Laminate floor coverings - Determination of locking strength for mechanically assembled panels, \$68.00

### FLUID POWER SYSTEMS (TC 131)

[ISO 5783:2019](#), Hydraulic fluid power - Code for identification of valve mounting surfaces and cartridge valve cavities, \$45.00

### GRAPHICAL SYMBOLS (TC 145)

[ISO 7010:2019](#), Graphical symbols - Safety colours and safety signs - Registered safety signs, \$232.00

### INFORMATION AND DOCUMENTATION (TC 46)

[ISO 21110:2019](#), Information and documentation - Emergency preparedness and response, \$209.00

### LEATHER (TC 120)

[ISO 15115:2019](#), Leather - Vocabulary, \$45.00

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

[ISO 20074:2019](#), Petroleum and natural gas industry - Pipeline transportation systems - Geological hazard risk management for onshore pipeline, \$209.00

### METALLIC AND OTHER INORGANIC COATINGS (TC 107)

[ISO 28763:2019](#), Vitreous and porcelain enamels - Regenerative, enamelled and packed panels for air-gas and gas-gas heat exchangers - Specifications, \$68.00

### OPTICS AND OPTICAL INSTRUMENTS (TC 172)

[ISO 8600-3:2019](#), Endoscopes - Medical endoscopes and endotherapy devices - Part 3: Determination of field of view and direction of view of endoscopes with optics, \$68.00

### PIGMENTS, DYESTUFFS AND EXTENDERS (TC 256)

[ISO 787-13:2019](#), General methods of test for pigments and extenders - Part 13: Determination of water-soluble sulphates, chlorides and nitrates, \$45.00

[ISO 787-15:2019](#), General methods of test for pigments and extenders - Part 15: Comparison of resistance to light of coloured pigments of similar types, \$68.00

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

[ISO 8483:2019](#), Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods to prove the design of bolted flange joints, \$103.00

[ISO 8533:2019](#), Glass-reinforced thermosetting plastics (GRP) pipes and fittings - Test methods to prove the design of cemented or wrapped joints, \$103.00

### POWDER METALLURGY (TC 119)

[ISO 3252:2019](#), Powder metallurgy - Vocabulary, \$45.00

### ROAD VEHICLES (TC 22)

[ISO 16505:2019](#), Road vehicles - Ergonomic and performance aspects of Camera Monitor Systems - Requirements and test procedures, \$232.00

[ISO 19072-1:2019](#), Road vehicles - Connection interface for pyrotechnic devices, two-way and three-way connections - Part 1: Pocket interface definition, \$68.00

### RUBBER AND RUBBER PRODUCTS (TC 45)

[ISO 1656:2019](#), Rubber, raw natural, and rubber latex, natural - Determination of nitrogen content, \$138.00

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

[ISO 46001:2019](#), Water efficiency management systems - Requirements with guidance for use, \$185.00

**SUSTAINABLE DEVELOPMENT IN COMMUNITIES (TC 268)**

[ISO 37158:2019](#), Smart community infrastructures - Smart transportation using battery-powered buses for passenger services, \$68.00

**TOBACCO AND TOBACCO PRODUCTS (TC 126)**

[ISO 8454/Amd2:2019](#), Cigarettes - Determination of carbon monoxide in the vapour phase of cigarette smoke - NDIR method - Amendment 2, \$19.00

[ISO 2965:2019](#), Materials used as cigarette papers, filter plug wrap and filter joining paper, including materials having a discrete or oriented permeable zone and materials with bands of differing permeability - Determination of air permeability, \$162.00

[ISO 20193:2019](#), Tobacco and tobacco products - Determination of the width of the strands of cut tobacco, \$68.00

**TOURISM AND RELATED SERVICES (TC 228)**

[ISO 21417:2019](#), Recreational diving services - Requirements for training on environmental awareness for recreational divers, \$68.00

**TRACTORS AND MACHINERY FOR AGRICULTURE AND FORESTRY (TC 23)**

[ISO 8437-1:2019](#), Snow throwers - Safety requirements and test procedures - Part 1: Terminology and common tests, \$103.00

[ISO 8437-2:2019](#), Snow throwers - Safety requirements and test procedures - Part 2: Pedestrian-controlled snow throwers, \$103.00

[ISO 8437-3:2019](#), Snow throwers - Safety requirements and test procedures - Part 3: Ride-on snow throwers, \$138.00

[ISO 8437-4:2019](#), Snow throwers - Safety requirements and test procedures - Part 4: Additional national and regional requirements, \$103.00

**TYRES, RIMS AND VALVES (TC 31)**

[ISO 18807:2019](#), Tyres and rims for logging and forestry service, \$138.00

[ISO 4251-1:2019](#), Code designated diagonal tyres (ply rating marked series) for agricultural tractors, trailers and machines - Part 1: Tyre designation and dimensions, and approved rim contours, \$138.00

[ISO 4251-2:2019](#), Code designated diagonal tyres (ply rating marked series) for agricultural tractors, trailers and machines - Part 2: Tyre load ratings, \$138.00

**WELDING AND ALLIED PROCESSES (TC 44)**

[ISO 3821:2019](#), Gas welding equipment - Rubber hoses for welding, cutting and allied processes, \$103.00

**ISO Technical Specifications****CLINICAL LABORATORY TESTING AND IN VITRO DIAGNOSTIC TEST SYSTEMS (TC 212)**

[ISO/TS 20914:2019](#), Medical laboratories - Practical guidance for the estimation of measurement uncertainty, \$209.00

**ISO/IEC JTC 1, Information Technology**

[ISO/IEC 23091-2:2019](#), Information technology - Coding-independent code points - Part 2: Video, \$138.00

[ISO/IEC/IEEE 8802-1CM:2019](#), Telecommunications and information exchange between information technology systems - Requirements for local and metropolitan area networks - Part 1CM: Time-sensitive networking for fronthaul, \$185.00

**IEC Standards****ENVIRONMENTAL CONDITIONS, CLASSIFICATION AND METHODS OF TEST (TC 104)**

[IEC 60068-2-52 Ed. 3.0 b:2017](#), Environmental testing - Part 2-52: Tests - Test Kb: Salt mist, cyclic (sodium chloride solution), \$82.00

**INDUSTRIAL-PROCESS MEASUREMENT AND CONTROL (TC 65)**

[IEC 62734 Amd.1 Ed. 1.0 b:2019](#), Amendment 1 - Industrial networks - Wireless communication network and communication profiles - ISA 100.11a, \$47.00

[IEC 62734 Ed. 1.1 b:2019](#), Industrial networks - Wireless communication network and communication profiles - ISA 100.11a, \$586.00

**MAGNETIC COMPONENTS AND FERRITE MATERIALS (TC 51)**

[IEC 61333 Ed. 2.0 b:2019](#), Marking on ferrite cores, \$47.00

**POWER SYSTEM CONTROL AND ASSOCIATED COMMUNICATIONS (TC 57)**

[IEC 62325-451-4 Ed. 2.0 b:2017](#), Framework for energy market communications - Part 451-4: Settlement and reconciliation business process, contextual and assembly models for European market, \$317.00

**IEC Technical Reports****PROCESS MANAGEMENT FOR AVIONICS (TC 107)**

[IEC/TR 63238-1 Ed. 1.0 en:2019](#), Process management for avionics - Electronics design - Part 1: Electrical signal properties, naming conventions and interface control document (ICD), \$82.00

# Proposed Foreign Government Regulations

## Call for Comment

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

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

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

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

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

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

# Information Concerning

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## 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](mailto: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](http://www.scte.org) or by e-mail from [standards@scte.org](mailto:standards@scte.org).

## ANSI Accredited Standards Developers

### Reaccreditation

#### ASSE International Chapter of IAPMO

#### Comment Deadline: September 9, 2019

The ASSE International Chapter of IAPMO, an ANSI member and Accredited Standards Developer (ASD), has submitted revisions to its currently accredited operating procedures for documenting consensus on ASSE/IAPMO-sponsored American National Standards, under which it was last reaccredited in 2016. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copy of the revised procedures or to offer comments, please contact: Mr. Conrad L. Jahrling, Staff Engineering Supervisor/Product Listing Coordinator, ASSE International, 18927 Hickory Creek Drive, Suite 220, Mokena, IL 60448; phone: 708.995.3017; e-mail: [conrad.jahrling@asse-plumbing.org](mailto:conrad.jahrling@asse-plumbing.org). You may view/download a copy of the revisions during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR). Please submit any public comments on the revised procedures to ASSE/IAPMO by September 9, 2019, with a copy to the ExSC Recording Secretary in ANSI's New York Office (e-mail: [jthomps@ANSI.org](mailto:jthomps@ANSI.org)).

## International Organization for Standardization (ISO)

### ISO Proposal for a New Field of ISO Technical Activity

#### Machinery to be Used with Foodstuffs

#### Comment Deadline: September 6, 2019

DIN, the ISO member body for Germany, has submitted to ISO a proposal for a new field of ISO technical activity on Machinery for use with foodstuffs, with the following scope statement:

Standardization of individual machine types and their accessories used in the foodstuffs supply chain, as well as processing systems and complete production lines consisting of these machines.

All these machines process various raw materials and ingredients into intermediate food products and/or ready-to-eat food.

The standards to be created in this TC deal with specific and typical aspects of machines used in the food industry. These aspects include – but are not limited to – health and safety at work for operators (safety of food machinery) and consumer health and safety (food safety). Standards of this TC also focus on hygienic design principles.

Excluded are the fields covered by ISO/TC 23 (Tractors and machinery for agriculture and forestry), ISO/TC 283 (Occupational health and safety management) and ISO/TC 293 (Feed machinery).

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team ([isot@ansi.org](mailto:isot@ansi.org)), with a submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, September 6, 2019.

## Natural and Engineered Stones

### Comment Deadline: August 30, 2019

UNI, the ISO member body for Italy, has submitted to ISO a proposal for a new field of ISO technical activity standard on natural and engineered stones, with the following scope statement:

Definitions, requirements and test methods for natural stones relating to rough blocks, slabs, semi-finished and finished products intended for use in building and for monuments and for engineered stones with resin or cement binders or a combination of the two, intended for use in countertops and vanities, floor and wall coverings, ancillary uses, for interior and exterior.

Anyone wishing to review the proposal can request a copy by contacting ANSI's ISO Team (isot@ansi.org), with a submission of comments to Steve Cornish (scornish@ansi.org) by close of business on Friday, August 30, 2019.

## Meeting Notices

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

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

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

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

Please register on line at [www.aga.org](http://www.aga.org). For more information, contact Jeff Meyers, [jmeyers@aga.org](mailto:jmeyers@aga.org).

## National Waste and Recycling Association (NW&RA)

The National Waste and Recycling Association (NW&RA) serves as the secretariat for the ANSI Z245 Committee on Equipment Technology and Operations for Waste and Recyclable Materials. The next meeting will be August 26, 27, and 28th; the Z245.8 Landfill Safety sub-committee will meet at 2:00pm on August 26; the Z245.1 Mobile Equipment sub-committee will participate in a tour of the American Center of Mobility on August 27 at 8:30; and on August 28th the following sub-committees will meet; Z245.2/.5 Compactors and Balers at 8:00am; Z245.4 at noon; and the Z245.3/.6 Waste Containers at 3:00pm. The location of the meeting is at the [Ann Arbor Marriot Ypsilanti at Eagle Crest](#). Those interested in participating can contact Kirk Sander at [ksander@wasterecycling.org](mailto:ksander@wasterecycling.org) or register at : <https://mx.wasterecycling.org/Events/EventDetails.aspx?MeetingId=%7bB0BA6AEA-F186-E911-80FE-000D3A011CEC%7d>.

## Robotic Industries Association

### ANSI-Accredited Standards Committee: R15.08, Industrial Mobile Robot Safety

Meeting Format & Location: In Person, in Louisville, KY.

Purpose: Resolve comments for R15.08 Part 1, Guidance to Manufacturers; refine Part 1 to ballotable status following the meeting.

Day/Date/Time: Monday, September 16, 2019, 8:00 AM - 5:00 PM Eastern time; Wednesday Sept. 18, 2019, 8:00 AM – 5:00 PM ET; Thursday, Sept. 19, 2019, 7:00 AM – 3:00 PM ET.

For More Information: Contact Carole Franklin, [cfranklin@robotics.org](mailto:cfranklin@robotics.org).

### ANSI-Accredited Standards Committee: R15.06, Industrial Robot Safety

Meeting Format & Location: In Person, in Indianapolis, IN.

Purpose: Continue work on draft TR 906. Begin work on U.S. national adoptions of ISO/TR 20218-1 and 20218-2.

Day/Date/Time: Friday, October 18, 2019, 7:00 AM – 3:00 PM, Eastern Time.

For More Information: Contact Carole Franklin, [cfranklin@robotics.org](mailto:cfranklin@robotics.org).

## **B65 Committee seeks expert participants to revise its safety standards**

The Association for PRINT Technologies (APTech) encourages print industry subject matter experts to participate in the ANSI-Accredited Standards Committee (ASC) B65 to revise existing B65 safety standards.

The B65 Committee develops ANSI safety standards for:

- printing presses and press systems
- binding/finishing equipment and systems
- bindery cutting machines
- platen presses
- ink making equipment

These standards address:

- design, arrangement, designation, and color scheme of controls and signaling devices
- guarding and interlocking of guards
- mechanical safety devices
- symbology
- safe practices as they apply to printing equipment

The request stems from work being done by the ISO Technical Committee for Graphic Technology (TC130) Working Group 5 (WG5). WG5 is currently revising the ISO 12643-series of safety requirements for graphic technology equipment and systems. These ISO projects include –

ISO/DIS 12643-1 Graphic technology — Safety requirements for graphic technology equipment and systems — Part 1: General requirements

ISO/DIS 12643-2 Graphic technology — Safety requirements for graphic technology equipment and systems — Part 2: Prepress and press equipment and systems

ISO/CD 12643-3 Graphic technology — Safety requirements for graphic technology equipment and systems — Part 3: Binding and finishing equipment and systems

ISO/CD 12643-4 Graphic technology — Safety requirements for graphic technology equipment and systems — Part 4: Converting equipment and systems

ISO/AWI 12643-5 Graphic technology -- Safety requirements for graphic technology equipment and systems -- Part 5: Manually-fed standalone platen presses

The [B65 Standards](#) (B65-1, B65-2, B65-3 and B65-5) are modified national adoptions of the ISO 12643-series now under revision by ISO. The current B65 standards include a supplemental Annex that is specific to US manufacturers. An effort has been made to include the US requirements in the updated ISO series. Once published, the B65 Committee will review the ISO standards to identify any national differences as well as determine the appropriate method of adoption (identical, modified).

Anyone with an interest is welcome to participate. Potential stakeholders can contact Debbie Orf, Senior Director of ICC and Standards at [dorf@aptech.org](mailto:dorf@aptech.org) for more information on the B65 Committee and/or ISO TC130/WG5. A response by the end of September will ensure that you will be included in the revision process when it begins.

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

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

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

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

Please also visit Standards Boost Business at [www.standardsboostbusiness.org](http://www.standardsboostbusiness.org) for resources about why standards matter, testimonials, case studies, FAQs and more.

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



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

## NSF/ANSI Standard for Drinking Water Treatment Units –

# Shower Filtration Systems – Aesthetic Effects

## 4 Materials

### 4.1 Materials in contact with shower water

Materials in contact with shower water shall not contain lead as an intentional ingredient, except brass meeting the definition of “lead free” under the specific provisions of the Safe Drinking Water Act of the United States, as amended in 1986. Materials in contact with shower water shall not be solvent bonded.

**4.1.1** Complete formulation information on any material not certified as specifically compliant with the sections of the U.S. Code of Federal Regulations, Title 21, listed in table 1, shall be reviewed to determine whether the material contains lead as an intentional ingredient. As a minimum level of information for those materials requiring submission of formulation information, the complete chemical identity and ingredient sources of supply shall be provided.

**4.1.2** Production methods shall be reviewed to determine whether materials in contact with shower water are solvent bonded.

**4.1.3** If the system does not incorporate any materials that contain lead as an intentional ingredient, except brass meeting the definition of “lead free” under the specific provisions of the Safe Drinking Water Act of the United States, as amended in 1986, or incorporate solvent bonding of materials in contact with shower water, the systems shall meet the requirements of this Standard.

*Rationale: NSF/ANSI 177 Section 4 with respect to material evaluation is not in line with the remaining DWTU standards. As it stands, the standard can make it prohibitive for some manufacturers as complete formulation from lower tier suppliers can be extremely difficult to obtain. Language for the other DWTU standards had been clarified, however NSF/ANSI 177 was not.*

## BSR/UL 498, Standard for Safety for Attachment Plugs and Receptacles

### 1. Editorial correction to change reference ANSI/PLASA E1.24 to ANSI/ESTA E1.24 throughout the standard

7.2 The PLASA configurations of various attachment plugs and receptacle combinations referenced in this Standard are in accordance with Entertainment Technology Dimensional Requirements for Stage Pin Connectors, ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24.

15.3.1 A general-use device, including any configuration illustrated in Wiring Devices - Dimensional Specifications, ANSI/NEMA WD6, the Standard for Wiring Device Configurations, [UL 1681](#), or the Entertainment Technology Dimensional Requirements for Stage Pin Connectors, ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24, shall be constructed so that electrical continuity between respective and similarly marked terminals is established automatically when the mating plug and outlet device are connected together.

15.3.3

c) Any of the configurations identified in Entertainment Technology Dimensional Requirements for Stage Pin Connectors, ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24;

15.3.4

c) Entertainment Technology Dimensional Requirements for Stage Pin Connectors, ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24, or

15.3.5

*Exception No. 4: Devices of the ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24 Standard, Type 5 configurations (5T20, 5T30, 5T60 and 5T100) are identified as dual-rated voltage devices ("125 - 250 V"). These configurations are only intended for use on grounded-neutral electrical circuits.*

92.3 Devices of the ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24 Standard, Type 5 configurations (5T20, 5T30, 5T60 and 5T100) shall be subjected to all the applicable tests at a voltage rating of 250V. All other ~~ANSI/PLASA E.1.24~~ANSI/ESTA E1.24 Standard configurations shall be subjected to all applicable tests at their identified and marked voltage rating.

110.3 Devices of the ~~ANSI/PLASA E1.24~~ANSI/ESTA E1.24 Standard, Type 5 configurations (5T20, 5T30, 5T60 and 5T100) shall be subjected to all the applicable tests at a voltage rating of 250V. All other ~~ANSI/PLASA E.1.24~~ANSI/ESTA E1.24 Standard configurations shall be subjected to all applicable tests at their identified and marked voltage rating.

**Table 193.1***Markings and instructions applicable to attachment plugs*

|   |    |   |  |
|---|----|---|--|
| Stage plugs complying with ANSI/PLASA E1.24 ANSI/ESTA E1.24 dimensional requirements (See <a href="#">15.3</a> ). | 13 | "ANSI E1.24" configuration and "type" where "type" is as identified in Annex A of ANSI E1.24, or an equivalent wording. | On the device.   |
| Stage plugs of the configurations 5T20, 5T30, 5T60 and 5T100 complying with ANSI/PLASA E1.24 ANSI/ESTA E1.24.     | 14 | "CAUTION: Risk of Electric Shock - only intended for use on grounded-neutral electrical circuits "                      | On the device where visible during installation, or on the smallest unit container, or on a stuffer sheet provided with each device. |

**Table 193.2***Markings and instructions applicable to inlets (motor attachment plugs)*

|  |    |   |  |
|--|----|---|--|
| Stage inlets complying with ANSI/PLASA E1.24 ANSI/ESTA E1.24 dimensional requirements (See <a href="#">15.3</a> ). | 9  | "ANSI E1.24" configuration and "type" where "type" is as identified in Annex A of ANSI E1.24, or an equivalent wording. | On the device.   |
| Stage inlets of the configurations 5T20, 5T30, 5T60 and 5T100 complying with ANSI/PLASA E1.24 ANSI/ESTA E1.24.     | 10 | "CAUTION: Risk of Electric Shock - only intended for use on grounded-neutral electrical circuits "                      | On the device where visible during installation, or on the smallest unit container, or on a stuffer sheet provided with each device. |

**Table 193.3***Marking and instructions applicable to cord connectors*

|   |    |   |  |
|---|----|---|--|
| Stage cord connectors complying with ANSI/PLASA E1.24 ANSI/ESTA E1.24 dimensional requirements (See <a href="#">15.3</a> ). | 13 | "ANSI E1.24" configuration and "type" where "type" is as identified in Annex A of ANSI E1.24, or an equivalent wording. | On the device.                                   |
| Stage connectors of the configurations 5T20, 5T30,  | 14 | "CAUTION: Risk of Electric Shock - only   | On the device where visible during installation, |

|  |  |  |   |
|--|--|--|---|
| 5T60 and 5T100 complying with <u>ANSI/PLASA E1.24</u> <u>ANSI/ESTA E1.24</u> . |  | intended for use on grounded-neutral electrical circuits " | or on the smallest unit container, or on a stuffer sheet provided with each device. |
|--|--|--|---|

**Table 193.4***Marking and instructions applicable to receptacles*

|   |    |   |  |
|---|----|---|--|
| Stage receptacles complying with <u>ANSI/PLASA E1.24</u> <u>ANSI/ESTA E1.24</u> dimensional requirements (See <a href="#">15.3</a> ). | 36 | "ANSI E1.24" configuration and "type" where "type" is as identified in Annex A of ANSI E1.24, or an equivalent wording. | On the device.   |
| Stage receptacles of the configurations 5T20, 5T30, 5T60 and 5T100 complying with <u>ANSI/PLASA E1.24</u> <u>ANSI/ESTA E1.24</u> .    | 37 | "CAUTION: Risk of Electric Shock - only intended for use on grounded-neutral electrical circuits "                      | On the device where visible during installation, or on the smallest unit container, or on a stuffer sheet provided with each device. |

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**BSR/UL 810, Standard for Safety for Capacitors****1. Update of standard reference in 49.2.5.**

49.2.5 With reference to 49.2.3 and 49.2.4, other finishes, including paint, special metallic finishes, and combinations of the two may be accepted when comparative tests with galvanized sheet steel - without annealing, wiping, or other surface treatment - complying with 49.2.3 (a) or 49.2.4 (a), as applicable, indicate they provide equivalent protection. Among the factors that are taken into consideration when judging the suitability of such coating systems are exposure to the Salt Spray (Fog) Test, the Moist Carbon-Dioxide/Sulfur-Dioxide Air Test, mixtures, moist hydrogen-sulfide air mixtures, ultraviolet and the Light and Water Test for Clear Coatings in accordance with the Standard for Organic Coatings for Steel Enclosures for Outdoor Use Electrical Equipment, UL 1332. See Supplement B to the Standard for Industrial Control Equipment, UL 508, for Investigation of Component Coatings.

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**BSR/UL 913, Standard for Safety for *Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations***

**1. Revisions addressing the use of the Seventh Edition of UL 60079-0 recently published in March 2019.**

**PROPOSAL**

5.5 Apparatus for Class I, Division 1, Groups A and/or B locations, shall comply with all the applicable requirements in UL 60079-0:2013 and UL 60079-11:2013 for Group IIC, level of protection "ia".

*Exception: Marking of the apparatus shall meet the requirements of Section 10.*

5.6 Apparatus for Class I, Division 1, Group C locations, shall comply with all the applicable requirements in UL 60079-0:2013 and UL 60079-11:2013 for Group IIB, level of protection "ia".

*Exception: Marking of the apparatus shall meet the requirements of Section 10.*

5.7 Apparatus for Class I, Division 1, Group D locations, shall comply with all the applicable requirements in UL 60079-0:2013 and UL 60079-11:2013 for Group IIA, level of protection "ia".

*Exception: Marking of the apparatus shall meet the requirements of Section 10.*

**2. Revisions permitting the Group III requirements in UL 60079-0 and UL 60079-11 as an alternative to the Class II and III requirements.**

**PROPOSAL**

7.1.1 Intrinsically safe apparatus and associated wiring for Class II and Class III locations shall comply with the requirements in Sections 1 - 5 in this standard, as applicable and shall also comply with the requirements of 7.1.2 and either 7.1.3 or 7.1.4.

*Exception: Intrinsically safe apparatus and associated apparatus for Class II and Class III locations may comply with the following as applicable, except that the marking shall meet the requirements of Section 10:*

*a) For Class II, Division 1, Group E marking: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIC, level of protection "ia".*



*b) For Class II, Division 1, Group F, Group G or both Groups F and G marking: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIB or IIIC, level of protection "ia".*


*c) For Class III locations: The applicable requirements from UL 60079-0 and UL 60079-11 for Group IIIA, IIIB or IIIC, level of protection "ia", and with a temperature class of not greater than T120°C (for equipment that may be overloaded) or not greater than T165°C (for equipment not subject to overloading).*


### 3. Revisions clarifying the use of electronic medium for required documentation

#### PROPOSAL

12.2 This required instructional material may be provided by electronic media under the following conditions:

- a) Where all required instructional material is provided by electronic media, there shall be marking on the apparatus that contains the international symbol  (Reference No. 0434B of ISO 7000), along with the document number, revision level and location of the electronic documentation (e.g. URL, QRcode).
- b) Where only some of the required instructional material is provided by electronic media and some is printed:
  - 1) there shall be marking on the apparatus that contains the international symbol  (Reference No. 0434B of ISO 7000), along with the document number, revision level and location of the electronic documentation (e.g. URL, QRcode); and
  - 2) the printed instructions provided with the apparatus shall clearly identify that additional information is available electronically, along with the document number, revision level and location of this electronic documentation (e.g. URL, QRcode).

*Exception: For small electrical apparatus where some or all of the instructional material is to be provided by electronic media, and where there is limited space for both the international symbol  (Reference No. 0434B of ISO 7000) and the document number, revision level and location of the electronic documentation (e.g. URL, QRcode):*

- a) the international symbol  (Reference No. 0434B of ISO 7000) shall be marked on the apparatus; and
- b) printed instructions shall be provided with the apparatus that, as a minimum, indicates the document number, revision level and location of the electronic documentation (e.g. URL, QRcode).

NOTE When electronic documentation is referenced either on the device or on the printed instructions, the location given can be the specific location for the required instructions (e.g. direct link to the specific instructions), or can be a more general location. (e.g. the URL for the overall manufacturer's website). It is the manufacturer's responsibility to assure that the location of the required instructions can be readily located is accessible by the user.

12.3 Where a QRcode is used to provide the required instructional material, and the QRcode contains all the required instructional material (as opposed to merely referencing a URL that contains the required instructional material), a document number and revision level need not be indicated.

12.4 Where some or all of the required instructional material is provided by electronic media, the required instructional material shall be available in printed format upon request of the user.

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