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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: March 1, 2015

### AWWA (American Water Works Association)

#### Revision

BSR/AWWA C516-201x, Large Diameter Rubber-Seated Butterfly Valves Sizes 78 In. (2,000 mm) and Larger (revision of ANSI/AWWA C516-2010)

This standard establishes minimum requirements for rubber-seated butterfly valve assemblies, 78 in. (2,000 mm) diameter and larger with flanged ends for fresh and reclaimed water having a pH range from 6 -12, a temperature range from 33° - 125°F (0.6° - 52°C) suitable for a maximum steady-state fluid working pressure of 250 psig (1,724 kPa [gauge]), maximum steady-state differential pressure of 250 psi (1,724 kPa), a maximum full open fluid velocity of 16 ft/sec (4.9 m/sec).

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Olson, (303) 347-6177, [polson@awwa.org](mailto:polson@awwa.org); [vdauid@awwa.org](mailto:vdauid@awwa.org)

### HI (Hydraulic Institute)

#### New Standard

BSR/HI 6.1-6.5-201x, Standard for Reciprocating Power Pumps for Nomenclature, Definitions, Application and Operation (new standard)

This standard applies to reciprocating power pumps. It includes types and nomenclature; definitions; design and application; and installation, operation, and maintenance.

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

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

### HI (Hydraulic Institute)

#### Revision

BSR/HI 6.6-201x, Reciprocating Pump Tests (revision of ANSI/HI 6.6-201x)

This standard is for reciprocating power pumps, including controlled volume metering pumps, which are driven by power from an outside source applied to the crankshaft. It includes procedures for testing such pumps. These standards apply to test of the pump only, unless stated otherwise. The type of test performed and the auxiliary equipment to be used should be agreed on by the purchaser and manufacturer prior to the test. It is not the intent to limit or restrict tests to only those described in this standard. Variations in test procedures may exist without violating the intent of this standard.

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

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

### NSF (NSF International)

#### Revision

BSR/NSF 42-201x (i81r1), Drinking Water Treatment Units - Aesthetic Effects (revision of ANSI/NSF 42-2013)

It is the purpose of this Standard to establish minimum requirements for materials, design and construction, and performance of drinking water treatment systems that are designed to reduce specific aesthetic-related (non-health effects) contaminants in public or private water supplies. This Standard also specifies the minimum product literature and labeling information that a manufacturer shall supply to authorized representatives and system owners as well as the minimum service-related obligations that the manufacturer shall extend to system owners.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Monica Leslie, (734) 827-5643, [mleslie@nsf.org](mailto:mleslie@nsf.org)

### NSF (NSF International)

#### Revision

BSR/NSF 140-201x (i26r4), Sustainability Assessment for Carpet (revision of ANSI/NSF 140-2013)

This sustainability standard is intended to enable organizations throughout the carpet supply chain to apply performance requirements to achieve sustainable attributes and demonstrate compliance with levels of achievement through quantifiable metrics. While this Standard can be used on any carpet product, it is intended to be used for evaluation of commercial carpet products by providing a product evaluation methodology that is additive to emerging commercial green building standards. This Standard does not apply to the packaging of sustainable carpets or to the adhesive or padding products used in the installation of carpet products.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Mindy Costello, (734) 827-6819, [mcostello@nsf.org](mailto:mcostello@nsf.org)

### UL (Underwriters Laboratories, Inc.)

#### Revision

BSR/UL 96-201x, Standard for Safety for Lightning Protection Components (revision of ANSI/UL 96-2010a)

(2) Additions and revisions to Table 9.1 and Table 19.1.

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

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Mitchell Gold, (847) 664-2850, [Mitchell.Gold@ul.com](mailto:Mitchell.Gold@ul.com)

## Comment Deadline: March 16, 2015

### ANS (American Nuclear Society)

#### New Standard

BSR/ANS 2.30-201x, Criteria for Assessing Tectonic Surface Fault Rupture and Deformation at Nuclear Facilities (new standard)

This standard provides criteria and guidelines for investigations to assess potential for surface and near-surface faulting and associated near-fault deformation at nuclear facilities, referencing considerable new experience. The standard is an up-to-date compilation of techniques to evaluate fault offset potential and a valuable resource for planning and conducting site characterization studies for future nuclear facilities. It supplements a group of standards (i.e., ANS 2.26, 2.27, 2.29, ASCE 43-05) whose focus is on vibratory ground motion rather than fault offset hazard.

Single copy price: \$20.00

Obtain an electronic copy from: [scook@ans.org](mailto:scook@ans.org)

Order from: Sue Cook, (708) 579-8210, [orders@ans.org](mailto:orders@ans.org); [scook@ans.org](mailto:scook@ans.org)

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

**API (American Petroleum Institute)****Withdrawal**

ANSI/API 521-2006, Pressure-Relieving and Depressuring Systems / Petroleum and Natural Gas Industries - Pressure-Relieving and Depressuring Systems (withdrawal of ANSI/API 521-2006)

This International Standard is applicable to pressure-relieving and vapour-depressuring systems. Although intended for use primarily in oil refineries, it is also applicable to petrochemical facilities, gas plants, liquefied natural gas (LNG) facilities, and oil and gas production facilities. The information provided is designed to aid in the selection of the system that is most appropriate for the risks and circumstances involved in various installations. This International Standard is intended to supplement the practices set forth in ISO 4126 or API RP 520-I for establishing a basis of design.

Single copy price: Free

Order from: Stephen Crimauodo, (202) 682-8151, crimaudos@api.org

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

**ASC X9 (Accredited Standards Committee X9, Incorporated)****New Standard**

BSR X9.131-201x, Financial transaction messages - Electronic benefits transfer (EBT) - WIC retailer interface standard for smart cards (new standard)

A standard that will permit commercial card and reader manufacturers, retailer store payment and electronic cash register providers, and WIC State Agencies to program components of a WIC EBT smart card solution into their present and future systems. The cost will be reduced to participating retailers and WIC State Agencies through standardized requirements that define the components of a smart card EBT system for the WIC program. The benefits include increased competition, lower costs, and greater efficiency and service to provide EBT WIC benefits on integrated retailer cash register systems. This will also facilitate the adoption of new technology and minimize costs to adopt the technology as it evolves over time.

Single copy price: \$60.00

Obtain an electronic copy from: janet.busch@x9.org

Order from: Janet Busch, (410) 267-7707, janet.busch@x9.org

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

**ATIS (Alliance for Telecommunications Industry Solutions)****Revision**

BSR/ATIS 1000679-201x, Interworking between Session Initiation Protocol (SIP) and Bearer Independent Call Control or ISDN User Part (revision of ANSI ATIS 1000679-2013)

This Standard defines the signaling interworking between the Bearer Independent Call Control (BICC) or ISDN User Part (ISUP) protocols and SIP in order to support services that can be commonly supported by BICC or ISUP and SIP based network domains.

Single copy price: \$330.00

Obtain an electronic copy from: kconn@atis.org

Order from: Kerriane Conn, (202) 434-8841, kconn@atis.org

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

**AWWA (American Water Works Association)****Revision**

BSR/AWWA C900-201x, Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 60 In. (100 mm Through 1,500 mm) (revision, redesignation and consolidation of ANSI/AWWA C900-2007 and ANSI/AWWA C905-2010)

This standard covers PVC pipe and fabricated fittings manufactured for conveying potable water, reclaimed water, irrigation water, wastewater, or any fluid compatible with non-plasticized PVC. The standards include 8 dimension ratios (DR's) and nominal sizes ranging from 4 in. through 60 in. (100 mm through 1,500 mm). Standard pipe outside diameters (OD's) conform to the ductile iron and cast iron sizing system, referred to as cast iron or CIOD, and steel pipe, referred to as IPS.

Single copy price: \$20.00

Obtain an electronic copy from: vdauid@awwa.org

Order from: Paul Olson, (303) 347-6177, polson@awwa.org; vdauid@awwa.org

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

**NCSBN (National Council of State Boards of Nursing)****New Standard**

BSR/NCSBN 001-201x, Criminal Background Checks for Licensure as a Nurse (new standard)

The National Council of State Boards of Nursing proposes this standard, which would require a biometrics-based state and federal criminal background check for all applicants consistent with Public Law 92-544. It is the purpose of this Standard to assist each state to pass legislation consistent with Public Law 92-544 to require state and federal fingerprint-based criminal background checks. The Standard is written to allow the use of new biometric technologies as they emerge. The Standard applies specifically to applications for licensure by examination, endorsement, reactivation, reinstatement, and renewal.

Single copy price: N/A

Obtain an electronic copy from: ncsbn.org/standards-development.htm

Order from: Greg Pulaski, (312) 525-3681, gpulaski@ncsbn.org

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

**NSF (NSF International)****Revision**

BSR/NSF 49-201x (i40r1), Biosafety Cabinetry: Design, Construction, Performance, and Field Certification (revision of ANSI/NSF 49-2012)

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

Single copy price: Free

Obtain an electronic copy from: [http://standards.nsf.org/apps/group\\_public/document.php?document\\_id=26961&wg\\_abbrev=biosafety\\_jc](http://standards.nsf.org/apps/group_public/document.php?document_id=26961&wg_abbrev=biosafety_jc)

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

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

**PLASA (PLASA North America)****Reaffirmation**

BSR E1.30-4-2010 (R201x), EPI 26. Device Description Language (DDL) Extensions for DMX512 and E1.31 Devices (reaffirmation of ANSI E1.30-4-200x)

This document is part of BSR E1.30-201x, Application level equipment interoperability for control of commonly encountered entertainment technology devices using ANSI E1.17. This part defines protocol-specific extensions to ANSI E1.17's Device Description Language for describing DMX512-type devices.

Single copy price: Free

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

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

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

**UL (Underwriters Laboratories, Inc.)****New Standard**

BSR/UL 248-19-201X, Standard for Safety for Low-Voltage Fuses - Part 19: Photovoltaic Fuses (Proposal dated 1-30-15) (new standard)

The following changes are being proposed: Proposed First Edition of UL 248-19, the Standard for Safety for Photovoltaic Fuses.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

**UL (Underwriters Laboratories, Inc.)****New Standard**

BSR/UL 4248-19-201X, Standard for Safety for Fuseholders - Part 19: Photovoltaic Fuseholders (Proposal dated 1-30-15) (new standard)

The following changes are being proposed: Proposed First Edition of UL 4248-19, Safety for Fuseholders - Part 19: Photovoltaic Fuseholders.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

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

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

BSR/UL 521-2010 (R201x), Standard for Safety for Heat Detectors for Fire Protective Signaling Systems (reaffirmation of ANSI/UL 521-2010)

Reaffirmation of current ANS, which covers heat detectors for fire-protective signaling systems intended to be installed in ordinary indoor and outdoor locations in accordance with the Standard for Automatic Fire Detectors, NFPA 72E.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Paul Lloret, (408) 754-6618, [Paul.E.Lloret@ul.com](mailto:Paul.E.Lloret@ul.com)

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

BSR/UL 923-201x, Standard for Safety for Microwave Cooking Appliances (revision of ANSI/UL 923-2013a)

(1) Addition of requirements for polymeric materials; (2) Standardization of UL 923 for Commercial Microwave Ovens with UL 197 for Commercial Electric Cooking Appliances; (3) Deletion of the maximum temperature rise of diodes.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Amy Walker, (847) 664-2023, [Amy.K.Walker@ul.com](mailto:Amy.K.Walker@ul.com)

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

BSR/UL 1004-1-201x, Standard for Safety for Rotating Electrical Machines - General Requirements (Proposal dated 1-30-15) (revision of ANSI/UL 1004-1-2013a)

The following is proposed: (1) Revised definitions for air-over motors and continuous duty motors; (2) Revised temperature test method to include SF; (3) Temperature test stabilization requirement; (4) Revisions to direct-support material properties for universal motors; and (5) Alternative method to evaluate materials used as splice insulation.

Single copy price: Contact comm2000 for pricing and delivery options

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

Order from: comm2000

Send comments (with copy to [psa@ansi.org](mailto:psa@ansi.org)) to: Jonette Herman, (919) 549-1479, [Jonette.A.Herman@ul.com](mailto:Jonette.A.Herman@ul.com)

**Projects Withdrawn from Consideration**

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

**API (American Petroleum Institute)**

BSR/API Standard 2000-200x, Venting Atmospheric and Low-Pressure Storage Tanks, Nonrefrigerated and Refrigerated (identical national adoption of ISO 28300:2008)

**NSF (NSF International)**

BSR/NSF 455-3-201x, Good Manufacturing Practices for Medical Devices (new standard)

Inquiries may be directed to Rachel Brooker, (734) 827-6866, [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

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

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

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

ANSI/IEEE 16-2004, Standard for Electrical and Electronic Control Apparatus on Rail Vehicles

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

ANSI/IEEE 122-1992 (R2003), Recommended Practice for Functional and Performance Characteristics of Control Systems for Steam Turbine-Generator Units

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

ANSI/IEEE 211-1997 (R2003), Standard Definitions of Terms for Radio Wave Propagation

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

ANSI/IEEE 259-1999 (R2004), Standard Test Procedure for Evaluation of Systems of Insulation for Dry-Type Specialty and General-Purpose Transformers

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

ANSI/IEEE 280-1985 (R2003), Standard Letter Symbols for Quantities Used in Electrical Science and Electrical Engineering

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

ANSI/IEEE 303-2004, Recommended Practice for Auxiliary Devices for Rotating Electrical Machines in Class I, Division 2 and Zone 2 Locations

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

ANSI/IEEE 317-1983 (R2003), Standard for Electric Penetration Assemblies in Containment Structures for Nuclear Power Generating Stations

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

ANSI/IEEE 400.2-2004, Guide for Field Testing of Shielded Power Cable Systems Using Very Low Frequency (VLF)

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

ANSI/IEEE 421.4-2004, Guide for the Preparation of Excitation System Specifications

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

ANSI/IEEE 524-2003, Guide to the Installation of Overhead Transmission Line Conductors

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

ANSI/IEEE 577-2004, Standard Requirements for Reliability Analysis in the Design and Operation of Safety Systems for Nuclear Facilities

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

ANSI/IEEE 802.2-1990 (R2004), Standard for Information Technology - Telecommunications and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements - Part 2: Logical Link Control

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

ANSI/IEEE 802.17a-2004, Standard for Local and Metropolitan Area Networks: Media Access Control (MAC) Bridges - Amendment 3: Bridging of 802.17

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

ANSI/IEEE 958-2003, Guide for Application of AC Adjustable-Speed Drives on 2,400 to 13,800 Volt Auxiliary Systems in Electric Power Generating Stations

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

ANSI/IEEE 979-1994 (R2004), Guide for Substation Fire Protection

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

ANSI/IEEE 1003.1-2002/Cor 2-2004, Standard for Information Technology - Portable Operating System Interface (POSIX) - Technical Corrigendum Number 2

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

ANSI/IEEE 1019-2004, Recommended Practice for Specifying Electric Submersible Pump Cable - Polypropylene Insulation

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

ANSI/IEEE 1050-2004, Guide for Instrumentation and Control Equipment Grounding in Generating Stations

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

ANSI/IEEE 1061-1998 (R2004), Standard for a Software Quality Metrics Methodology

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

ANSI/IEEE 1073.1.1.1-2004, Standard for Health Informatics - Point-of-Care Medical Device Communication - Nomenclature

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

ANSI/IEEE 1073.1.2.1-2004, Standard for Health Informatics - Point-of-Care Medical Device Communication - Domain Information Model

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

ANSI/IEEE 1125-1994 (R2004), Guide for Moisture Measurement and Control in SF6 Gas-Insulated Equipment

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

ANSI/IEEE 1159.3-2003, Recommended Practice for the Transfer of Power Quality Data

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

ANSI/IEEE 1193-2003, Guide for Measurement of Environmental Sensitivities of Standard Frequency Generators

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

ANSI/IEEE 1204-1997 (R2003), Guide for Planning DC Links Terminating at AC Locations Having Low Short-Circuit Capacities

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

ANSI/IEEE 1210-2004, Standard Tests for Determining Compatibility of Cable-Pulling Lubricants with Wire and Cable

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

ANSI/IEEE 1283-2004, Guide for Determining the Effects of High Temperature Operation on Conductors, Connectors, and Accessories

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

ANSI/IEEE 1307-2004, Standard for Fall Protection for Utility Work

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

ANSI/IEEE 1310-2004, Recommended Practice for Thermal Cycle Testing of Form-Wound Stator Bars and Coils for Large Generators

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

ANSI/IEEE 1312-1993 (R2004), Standard Preferred Voltage Ratings for Alternating-Current Electrical Systems and Equipment Operating at Voltages above 230 kV Nominal

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

ANSI/IEEE 1363a-2004, Specifications for Public-Key Cryptography - Amendment 1: Additional Techniques

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

ANSI/IEEE 1366-2003, Guide for Electric Power Distribution Reliability Indices

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

ANSI/IEEE 1375-1998 (R2004), Guide for the Protection of Stationary Battery Systems

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

ANSI/IEEE 1416-2004, Recommended Practice for the Interface of New Gas-Insulated Equipment in Existing Gas-Insulated Substations

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

ANSI/IEEE 1451.4-2004, Standard for a Smart Transducer Interface for Sensors and Actuators - Mixed-Mode Communication Protocols and Transducer Electronic Data Sheet (TEDS) Formats

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

ANSI/IEEE 1477-2003, Standard for Passenger Information System for Rail Transit Vehicles

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

ANSI/IEEE 1528-2003, Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques

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

ANSI/IEEE 1558-2005, Standard for Software Documentation for Rail Equipment and Systems

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

ANSI/IEEE 1573-2003, Recommended Practice for Electronic Power Subsystems: Parameters, Interfaces, Elements, and Performance

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

ANSI/IEEE 1584a-2004, Guide for Performing Arc-Flash Hazard Calculations - Amendment

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

ANSI/IEEE 1641-2005, Standard for Signal and Test Definition

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

ANSI/IEEE 11073-20101-2004, Standard for Health Informatics - Point-of-Care Medical Device Communication - Application Profiles - Base Standard

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

ANSI/IEEE 1299/C62.22.1-1996 (R2003), Guide for the Connection of Surge Arresters to Protect Insulated, Shielded Electric Power Cable Systems

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

ANSI/IEEE C37.11-1997 (R2004), Standard Requirements for Electrical Control for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis

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

ANSI/IEEE C37.60-2003/Cor1-2004, Standard Requirements for Overhead Pad-Mounted, Dry Vault, and Submersible Automatic Circuit Reclosers and Fault Interrupters for Alternating Current Systems Up to 38 kV - Corrigendum 1

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

ANSI/IEEE C37.74-2003, Standard Requirements for Subsurface, Vault, and Padmounted Load-Interrupter Switchgear and Fused Load-Interrupter Switchgear for Alternating Current Systems up to 38 kV

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

ANSI/IEEE C37.115-2003, Standard Test Method for Use in the Evaluation of Message Communications Between Intelligent Electronic Devices in an Integrated Substation Protection, Control and Data Acquisition System

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

ANSI/IEEE C57.18.10-1998 (R2003), Standard Practices and Requirements for Semiconductor Power Rectifier Transformers

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

ANSI/IEEE C57.91-2004, Guide for Loading Mineral-Oil-Immersed Transformers

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

ANSI/IEEE C57.96-1999 (R2004), Guide for Loading Dry-Type Distribution and Power Transformers

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

BSR/IEEE 1018-2004, Recommended Practice for Specifying Electric Submersible Pump Cable - Ethylene-Propylene Rubber Insulation

**SSCI (ASC MH2) (Steel Shipping Container Institute)**

ANSI MH2-2004, Materials Handling (Containers) - Steel Drums and Pails

# 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.

---

## **ISEA (International Safety Equipment Association)**

**Office:** 1901 North Moore Street  
Suite 808  
Arlington, VA 22209

**Contact:** *Cristine Fargo*

**Phone:** (703) 525-1695

**Fax:** (703) 525-1698

**E-mail:** cfargo@safetysafetyequipment.org

BSR/ISEA 201-201x, Classification of Insulating Apparel Used in Cold Work Environments (revision of ANSI/ISEA 201-2012)

## **NEMA (ASC C78) (National Electrical Manufacturers Association)**

**Office:** 1300 North 17th Street  
Suite 1752  
Rosslyn, VA 22209

**Contact:** *Karen Willis*

**Phone:** (703) 841-3277

**Fax:** (703) 841-3377

**E-mail:** Karen.Willis@nema.org

BSR C78.81-201x, Electric Lamps - Double-Capped Fluorescent Lamps - Dimensional and Electrical Characteristics (revision and redesignation of ANSI ANSLG C78.81-2014)

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

**Office:** 455 E Trimble Road  
San Jose, CA 95131-1230

**Contact:** *Paul Lloret*

**Phone:** (408) 754-6618

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**E-mail:** Paul.E.Lloret@ul.com

BSR/UL 521-2010 (R201x), Standard for Safety for Heat Detectors for Fire Protective Signaling Systems (reaffirmation of ANSI/UL 521-2010)

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



# Final Actions on American National Standards

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

## ADA (American Dental Association)

### New National Adoption

- \* ANSI/ADA Standard 136-2015, Products for External Tooth Bleaching (identical national adoption of ISO 28399:2011): 1/29/2015
  - \* ANSI/ADA Standard No. 119-2015, Manual Toothbrushes (national adoption of ISO 20126:2012 and ISO 22254:2005 with modifications and revision of ANSI/ADA Specification No. 119-2008): 1/29/2015
- ANSI/ADA Standard No. 128-2015, Hydrocolloid Impression Materials (identical national adoption of ISO 21563:2013 and revision of ANSI/ADA Specification No. 82-1998 (R2009)): 1/29/2015

## ASA (ASC S12) (Acoustical Society of America)

### Reaffirmation

ANSI/ASA S12.53-1999/Part 2 (R2015)/ISO 3743-2-1994 (R2015), Acoustics - Determination of sound power levels of noise sources using sound pressure - Engineering methods for small, movable sources in reverberant fields - Part 2: Methods for special reverberation test rooms. (reaffirmation of ANSI/ASA S12.53 -1999/Part 2 (R2009)/ISO 3743-2-1994 (R2009)): 1/26/2015

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

### Reaffirmation

- ANSI/ASABE AD23205:2006 FEB2010 (R2015), Agricultural tractors - Instructional seat (reaffirmation of ANSI/ASABE AD23205-2010): 1/28/2015
- ANSI/ASAE EP389.2 JUN1993 (R2015), Auger Flighting Design Considerations (reaffirmation of ANSI/ASAE EP389.2-JAN94 (R2010)): 1/28/2015
- ANSI/ASAE EP545 MAR1995 (R2015), Loads Exerted by Free-Flowing Grain on Shallow Storage Structures (reaffirmation of ANSI/ASAE EP545-FEB96 (R2010)): 1/26/2015
- ANSI/ASAE S276.7 W/Corr.1 SEP2010 (R2014), Slow Moving Vehicle Identification Emblem (SMV Emblem) (reaffirmation of ANSI/ASAE S276.7-2010): 1/28/2015
- ANSI/ASAE S376.2 JAN1998 (R2015), Design, Installation and Performance of Underground, Thermoplastic Irrigation Pipelines (reaffirmation of ANSI/ASAE S376.2-JAN98 (R2010)): 1/28/2015

## AWWA (American Water Works Association)

### Revision

- ANSI/AWWA B112-2015, Microfiltration and Ultrafiltration Membrane Systems (revision and partition of ANSI/AWWA B110-2009): 1/21/2015
- ANSI/AWWA B512-2015, Sulfur Dioxide (revision of ANSI/AWWA B512-2008): 1/28/2015
- ANSI/AWWA G200-2015, Distribution Systems Operation and Management (revision of ANSI/AWWA G200-2009): 1/28/2015

## CEA (Consumer Electronics Association)

### New Standard

- \* ANSI/CEA J-STD 710-2015, Audio, Video and Control Architectural Drawing Symbols Standard (new standard): 1/22/2015

### Revision

- \* ANSI/CEA 2034-A-2015, Standard Method of Measurement for In-Home Loudspeakers (revision and redesignation of ANSI/CEA 2034-2013): 1/29/2015

## CEMA (Conveyor Equipment Manufacturers Association)

### Reaffirmation

- ANSI/CEMA 401-2003 (R2015), Roller Conveyors - Non-Powered (reaffirmation of ANSI/CEMA 401-2003 (R2009)): 1/28/2015
- ANSI/CEMA 402-2003 (R2015), Belt Conveyors (reaffirmation of ANSI/CEMA 402-2003 (R2009)): 1/28/2015
- ANSI/CEMA 403-2003 (R2015), Belt Driven Live Roller Conveyors (reaffirmation of ANSI/CEMA 403-2003 (R2009)): 1/28/2015
- ANSI/CEMA 404-2003 (R2015), Chain Driven Live Roller Conveyors (reaffirmation of ANSI/CEMA 404-2003 (R2009)): 1/28/2015
- ANSI/CEMA 405-2003 (R2015), Slat Conveyors (reaffirmation of ANSI/CEMA 405-2003 (R2009)): 1/28/2015
- ANSI/CEMA 406-2003 (R2015), Lineshaft Driven Live Roller Conveyors (reaffirmation of ANSI/CEMA 406-2003 (R2009)): 1/28/2015
- ANSI/CEMA 550-2003 (R2015), Classification and Definition of Bulk Materials (reaffirmation of ANSI/CEMA 550-2003 (R2009)): 1/28/2015

### Revision

- ANSI/CEMA 300-2015, Screw Conveyor Dimensional Standards (revision of ANSI/CEMA 300-2009): 1/28/2015
- ANSI/CEMA 350-2015, Screw Conveyors for Bulk Materials (revision of ANSI/CEMA 350-2009): 1/28/2015
- ANSI/CEMA 501.1-2015, Welded Steel Wing Pulleys (revision of ANSI/CEMA 501.1-2003 (R2009)): 1/28/2015

## CSA (CSA Group)

### Reaffirmation

- \* ANSI Z21.77-2005 (R2015), Standard for Manually-Operated Piezo-Electric Spark Gas Ignition Systems and Components (same as CSA 6.23) (reaffirmation of ANSI Z21.77-2005 (R2010)): 1/28/2015
- \* ANSI Z21.35-2005 (R2015), ANSI Z21.35a-2010 (R2015), Standard for Pilot Gas Filters (same as CSA 6.8) (reaffirmation of ANSI Z21.35-2005 (R2010) and ANSI Z21.35a-2010): 1/28/2015

## ECIA (Electronic Components Industry Association)

### Revision

- ANSI/EIA 364-105B-2015, Altitude - Low Temperature Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-105-A-2008): 1/26/2015

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

### New Standard

- \* ANSI/ASSE 1037-2015/ASME A112.1037-2015/CSA B125.37-2015, Performance Requirements for Pressurized Plumbing Devices for Plumbing Fixtures (new standard): 1/21/2015

**IEEE (ASC C63) (Institute of Electrical and Electronics Engineers)****Revision**

ANSI C63.7-2015, Standard Guide for Construction of Test Sites for Performing Radiated Emission Measurements (revision of ANSI C63.7-2005): 1/29/2015

**IIAR (International Institute of Ammonia Refrigeration)****New Standard**

ANSI/IIAR 4-2015, Installation of Closed-Circuit Ammonia Refrigeration Systems (new standard): 1/26/2015

ANSI/IIAR 8-2015, Decommissioning of Closed-Circuit Ammonia Refrigeration Systems (new standard): 1/26/2015

**IS&T (The Society for Imaging Science & Technology)****New Standard**

\* ANSI/IS&T IT10.2000-2015, Photography - Digital still cameras - JPEG 2000 DSC profile (new standard): 1/28/2015

\* ANSI/IS&T IT10.7000-2015, Photography - Digital still cameras - Guidelines for reporting pixel-related specifications (new standard): 1/28/2015

**ISA (International Society of Automation)****New Standard**

ANSI/ISA 75.10.03-2015, Installed Face-to-Face Dimensions for Shell and Tube Flanged Pinch Valves (new standard): 1/21/2015

**ITI (INCITS) (InterNational Committee for Information Technology Standards)****New National Adoption**

INCITS/ISO/IEC 7811-1:2014 [2015], Identification cards - Recording technique - Part 1: Embossing (identical national adoption of ISO/IEC 7811-1:2014 and revision of INCITS/ISO/IEC 7811-1:2002 [R2013]): 1/29/2015

INCITS/ISO/IEC 7811-6:2014[2015], Identification cards - Recording technique - Part 6: Magnetic stripe - High coercivity (identical national adoption of ISO/IEC 7811-6:2014 and revision of INCITS/ISO/IEC 7811-6:2008 [2011]): 1/29/2015

**New Standard**

INCITS 492-2015, Information technology - SAS Protocol Layer - 3 (SPL-3) (new standard): 1/26/2015

INCITS 512-2015, Information technology - Fibre Channel - Switch Fabric - 6 (FC-SW-6) (new standard): 1/28/2015

**ITSDF (Industrial Truck Standards Development Foundation, Inc.)****New Standard**

ANSI/ITSDF B56.11-8-2015, Safety Standard for Seat Belt (Lap-Type) Anchorage Systems for Powered Industrial Trucks (new standard): 1/21/2015

**NCPDP (National Council for Prescription Drug Programs)****New Standard**

ANSI/NCPDP Benefit Integration Standard v10-2015, NCPDP Benefit Integration Implementation Guide Standard v10 (new standard): 1/21/2015

**Revision**

ANSI/NCPDP FB v43-2015, NCPDP Formulary and Benefit Standard v4.3 (revision and redesignation of ANSI/NCPDP FB v4.2-2014): 1/21/2015

**NEMA (ASC C78) (National Electrical Manufacturers Association)****Reaffirmation**

\* ANSI C78.20-2003 (R2015), Electric Lamps - A, G, PS, and Similar Shapes with E26 Medium Screw Bases (reaffirmation of ANSI C78.20-2003 (R2007)): 1/21/2015

**NISO (National Information Standards Organization)****Reaffirmation**

ANSI/NISO Z39.14-1997 (R2015), Guidelines for Abstracts (reaffirmation of ANSI/NISO Z39.14-1997 (R2009)): 1/21/2015

**Stabilized Maintenance**

ANSI/NISO Z39.41-1997 (S2015), Placement Guidelines for Information on Spines (stabilized maintenance of ANSI/NISO Z39.41-1997 (R2009)): 1/22/2015

**NSF (NSF International)****Revision**

ANSI/NSF 3-A 14159-3-2015 (i3r1), Hygiene Requirements for the Design of Mechanical Belt Conveyors Used in Meat and Poultry Processing (revision of ANSI/NSF/3-A 14159-3-2010): 1/23/2015

\* ANSI/NSF 14-2015 (i69r1), Plastics piping system components and related materials (revision of ANSI/NSF 14-2014): 1/16/2015

\* ANSI/NSF 14-2015 (i70r1), Plastics piping system components and related materials (revision of ANSI/NSF 14-2014): 1/15/2015

**PLASA (PLASA North America)****New Standard**

ANSI E1.39-2015, Entertainment Technology - Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry (new standard): 1/28/2015

**SCTE (Society of Cable Telecommunications Engineers)****Revision**

ANSI/SCTE 194-2-2014, DTS-HD Audio System - Part 2: Constraints for Carriage over MPEG-2 Transport (revision of ANSI/SCTE 194-2-2010): 1/28/2015

**TIA (Telecommunications Industry Association)****Supplement**

ANSI/TIA 968-B-2-2015, Telecommunications - Telephone Terminal Equipment - Technical Requirements for Connection of Terminal Equipment to the Telephone Network - Addendum 2 (supplement to ANSI/TIA 968-B-1-2012): 1/21/2015

**UL (Underwriters Laboratories, Inc.)****New National Adoption**

ANSI/UL 61010-2-010-2015, Standard for Safety for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 010: Particular Requirements for Laboratory Equipment for Heating of Materials (identical national adoption of IEC 61010-2-010): 1/15/2015

**New Standard**

ANSI/UL 1650-2015, Standard for Safety for Portable Power Cable (Proposal dated 12/12/14) (new standard): 1/28/2015

ANSI/UL 2703-2015, Standard for Mounting Systems, Mounting Devices, Clamping/Retention Devices, and Ground Lugs for Use with Flat-Plate Photovoltaic Modules and Panels (new standard): 1/28/2015

### **Reaffirmation**

ANSI/UL 5C-2010 (R2015), Standard for Safety for Surface Raceways and Fittings for Use with Data, Signal, and Control Circuits (reaffirmation of ANSI/UL 5C-2010): 1/27/2015

ANSI/UL 252A-2010 (R2015), Standard for Safety for Compressed Gas Regulator Accessories (reaffirmation of ANSI/UL 252A-2010): 1/16/2015

ANSI/UL 1424-2010 (R2015), Standard for Safety for Cables for Power-Limited Fire-Alarm Circuits (reaffirmation of ANSI/UL 1424-2010): 1/22/2015

ANSI/UL 1425-2010 (R2015), Standard for Safety for Non-Power-Limited Fire-Alarm Circuits (reaffirmation of ANSI/UL 1425-2010): 1/26/2015

ANSI/UL 60079-2-2010 (R2015), Standard for Safety for Explosive Atmospheres - Part 2: Equipment Protection by Pressurized Enclosures "p" (reaffirmation and redesignation of ANSI/ISA 60079-2 (12.04.01)-2010): 1/16/2015

\* ANSI/UL 60745-2-16-2009 (R2015), Standard for Hand-Held Motor-Operated Electric Tools - Safety - Part 2-16: Particular Requirements for Tackers (reaffirmation of ANSI/UL 60745-2-16-2009): 1/26/2015

### **Revision**

ANSI/UL 25A-2015, Standard for Safety for Meters for Gasoline and Gasoline/Ethanol Blends with Nominal Ethanol Concentrations up to 85 Percent (E0 - E85) (revision of ANSI/UL 25A-2014): 1/21/2015

ANSI/UL 25B-2015, Standard for Safety for Meters 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 25B-2014): 1/21/2015

ANSI/UL 252-2015, Standard for Safety for Compressed Gas Regulators (revision of ANSI/UL 252-2013): 1/28/2015

ANSI/UL 1577-2015, Standard for Safety for Optical Isolators (Proposals dated 10/10/14) (revision of ANSI/UL 1577-2014): 1/23/2015

ANSI/UL 1641-2015, Standard for Safety for Installation and Classification of Residential Burglar Alarm Systems (Proposal dated 11/7/14) (revision of ANSI/UL 1641-2005 (R2010)): 1/26/2015

ANSI/UL 6703-2015, Standard for Safety for Connectors for Use with Photovoltaic Systems (revision of ANSI/UL 6703-2014a): 1/16/2015

# Project Initiation Notification System (PINS)

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

Following is a list of proposed actions and new ANS that have been received recently from ASDs. Please also review the section in Standards Action entitled "American National Standards Maintained Under Continuous Maintenance" for additional or comparable information with regard to standards maintained under the continuous maintenance option. To view information about additional standards for which a PINS has been submitted and to search approved ANS, please visit [www.NSSN.org](http://www.NSSN.org), which is a database of standards information. Note that this database is not exhaustive.

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

## ADA (American Dental Association)

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Chicago, IL 60611

**Contact:** Kathy Medic

**Fax:** (312) 440-2529

**E-mail:** [medick@ada.org](mailto:medick@ada.org)

BSR/ADA No. 106-201x, Amalgam Capsules (national adoption with modifications of ISO 13897:2003)

Stakeholders: Dental patients, dentists, dental staff, dental manufacturers.

Project Need: This standard will benefit dentists and their staff by providing criteria for capsules that are safe and effective. It will benefit manufacturers by providing criteria against which to evaluate their pre-dosed capsules.

This standard will specify requirements and test methods for pre-dosed capsules used for mixing dental amalgam alloys and mercury.

BSR/ADA Specification No. 41-201x, Evaluation of Biocompatibility of Medical Devices Used in Dentistry (national adoption of ISO 7405:2008 with modifications and revision of ANSI/ADA Specification No. 41-2005)

Stakeholders: Dental manufacturers, dental laboratories and dental professionals.

Project Need: Revise to align with ISO 7405:2008.

This standard covers standard practices for the biological evaluation of the safety of medical devices used in dentistry. In addition, this document covers biological evaluation of the device component of combination products, including those with a pharmacological agent or biologic component as an integral part of the device. This standard does not cover testing of materials and devices that do not come into direct or indirect contact with the patient's body.

## ASTM (ASTM International)

**Office:** 100 Barr Harbor Drive  
West Conshohocken, PA 19428-2959

**Contact:** Corice Leonard

**Fax:** (610) 834-3683

**E-mail:** [accreditation@astm.org](mailto:accreditation@astm.org)

BSR/ASTM WK48407-201x, New Specification for Throat Protective Equipment for Hockey Goaltenders (new standard)

Stakeholders: Ice Hockey industry.

Project Need: This specification covers performance requirements and test methods for throat protectors marketed, sold, and intended for ice hockey goalkeepers.

<http://www.astm.org/DATABASE.CART/WORKITEMS/WK48407.htm>

## ATIS (Alliance for Telecommunications Industry Solutions)

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**E-mail:** [kconn@atis.org](mailto:kconn@atis.org)

BSR/ATIS 1000013.v2-201x, Lawfully Authorized Electronic Surveillance (LAES) for Internet Access and Services, Version 2 (revision of ANSI/ATIS 1000013.v2-2014)

Stakeholders: Communications industry.

Project Need: To make corrections to Lawfully Authorized Electronic Surveillance (LAES) For Internet Access and Services, Version 2.

Internet Access and Services can be obtained by establishing a subscription-based arrangement. This standard provides capabilities to lawfully intercept communications of subscription-based Internet Access and Services arrangements.

## AWS (American Welding Society)

**Office:** 8669 NW 36th Street  
Miami, FL 33166

**Contact:** Efram Abrams

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**E-mail:** [eabrams@aws.org](mailto:eabrams@aws.org)

BSR/AWS D8.14M-201X, Specification for Automotive Weld Quality - Arc Welding of Aluminum (revision of ANSI/AWS D8.14M-2008)

Stakeholders: Automotive community.

Project Need: Developments in industry since the 2008 edition was published has created the need for a revision to the standard to be developed.

The purpose of this specification is to provide the minimum acceptance criteria for arc welding of various types of automotive parts made of aluminum.

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

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

**Contact:** *Christina Earl*

**Fax:** (315) 339-6793

**E-mail:** [cearl@esda.org](mailto:cearl@esda.org)

BSR/ESD SP5.1.3-201x, ESD Association Standard Practice For Electrostatic Discharge Sensitivity Testing - Human Body Model (HBM) - Component Level - Alternative Test Method: Statistical Pin Pair Testing (new standard)

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

Project Need: The objective of this standard practice is to establish a test method that will replicate HBM failures and provide reliable, repeatable HBM ESD test results from tester to tester, regardless of component type. The stress combinations are statistically selected but repeatable for each device. The results obtained by applying this Standard Practice may or may not be identical to the results obtained by JS-001.

This standard practice establishes an alternative procedure for testing, evaluating, and classifying components and microcircuits according to their susceptibility (sensitivity) to damage or degradation by exposure to a defined human body model (HBM) electrostatic discharge (ESD).

BSR/ESD SP5.4.1-201x, ESD Association Standard Practice for Electrostatic Discharge Sensitivity Testing - ESDA/JEDEC Joint Standard for Electrostatic Discharge Sensitivity Testing - Latch-up Sensitivity Testing of CMOS/BI-CMOS Integrated Circuits - Component Level (new standard)

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

Project Need: This standard practice will address all building blocks that are required to perform TLU testing under well-defined conditions. The test methods will enable the user to perform a repeatable TLU characterization with reliable and verified test set-ups that will address the needs of a specific application.

This standard practice will define application-specific characterization methods for latch-up sensitivity of integrated circuits triggered by fast transients. Transient latch-up (TLU) is defined as a state in which a low-impedance path, resulting from a transient overstress that triggers a parasitic thyristor structure or bipolar structure or combinations of both, persists at least temporarily after removal or cessation of the triggering condition. The rise time of the transient overstress causing TLU is, by definition, shorter than 5  $\mu$ s (minimum rise time of static latch-up).

**ISEA (International Safety Equipment Association)**

**Office:** 1901 North Moore Street  
Suite 808  
Arlington, VA 22209

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**E-mail:** [cfargo@safetysafetyequipment.org](mailto:cfargo@safetysafetyequipment.org)

BSR/ISEA 201-201x, Classification of Insulating Apparel Used in Cold Work Environments (revision of ANSI/ISEA 201-2012)

Stakeholders: Apparel manufacturers; testing labs; user groups including utilities, construction and manufacturing.

Project Need: Periodic review of standard to update references and test methods to reflect state-of-the-art technologies and intended user applications.

This standard establishes performance and classification requirements for occupational apparel in cold environments. Specific criteria are included for thermal insulation (Clo) and thermal transport properties. Classifications are based on the resistance to the decay of these properties due to laundering. The document also includes garment care and labeling requirements and provides guidance on the selection of the garments. Specific apparel covered by this standard includes insulated or shell jackets, parkas, vests, coveralls, pants and insulated flame resistant occupational wear. This standard does not address gloves.

**NEMA (ASC C78) (National Electrical Manufacturers Association)**

**Office:** 1300 North 17th Street  
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Rosslyn, VA 22209

**Contact:** *Karen Willis*

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**E-mail:** [Karen.Willis@nema.org](mailto:Karen.Willis@nema.org)

\* BSR C78.81-201x, Electric Lamps - Double-Capped Fluorescent Lamps -Dimensional and Electrical Characteristics (revision and redesignation of ANSI ANSLG C78.81-2014)

Stakeholders: Manufacturers, designers, testing labs.

Project Need: This project is needed to update and revise the standard and the lamp datasheets.

This standard sets forth the physical and electrical characteristics of the principal types of FL lamps intended for application on conventional line frequency circuits, and electronic high frequency circuits. Some datasheets may specify more than one circuit application.

Specifications for both the lamp itself and the interactive features of the lamp and ballast are given. Only double-based lamps of the regular linear shape are included. Single-based lamps including compact, circular, square-shaped, and U-shaped are found in ANSI C78.901. Lamps for conventional systems relying on auxiliary support from external ballasts are described. These lamps are those designed for 60 Hz and/or high frequency operation. Lamp color is not specified in this standard. Certain lamp types covered in this standard may be similar to those in IEC 60081. However, additional types are included that are used only in North America and are not specified in the IEC standard.

# American National Standards Maintained Under Continuous Maintenance

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

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

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

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

To obtain additional information with regard to these standards, including contact information at the ANSI Accredited Standards Developer, please visit *ANSI Online* at [www.ansi.org/asd](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).

## ADA (Organization)

American Dental Association  
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Chicago, IL 60611  
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## ANS

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Fax: (708) 579-8248  
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## API

American Petroleum Institute  
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## ASA (ASC S12)

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1305 Walt Whitman Rd  
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Phone: (631) 390-0215  
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## ASABE

American Society of Agricultural and  
Biological Engineers  
2950 Niles Road  
Saint Joseph, MI 49085  
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## ASC X9

Accredited Standards Committee X9,  
Incorporated  
1212 West Street  
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Phone: (410) 267-7707  
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## ASTM

ASTM International  
100 Barr Harbor Drive  
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## AWWA

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Phone: (703) 907-7697  
Fax: (703) 907-4197  
Web: [www.ce.org](http://www.ce.org)

## CEMA

Conveyer Equipment Manufacturers  
Association  
5672 Strand Court  
Suite 2  
Naples, FL 34110  
Phone: (239) 514-3441  
Fax: (239) 514-3470  
Web: [www.cemanet.org](http://www.cemanet.org)

## CSA

CSA Group  
8501 E. Pleasant Valley Road  
Cleveland, OH 44131  
Phone: (216) 524-4990  
Fax: (216) 520-8979  
Web: [www.csa-america.org](http://www.csa-america.org)

## ECIA

Electronic Components Industry  
Association  
2214 Rock Hill Road  
Suite 265  
Herndon, VA 20170-4212  
Phone: (571) 323-0294  
Fax: (571) 323-0245  
Web: [www.ecianow.org](http://www.ecianow.org)

## EOS/ESD

ESD Association  
7900 Turin Rd., Bldg. 3  
Rome, NY 13440  
Phone: (315) 339-6937  
Fax: (315) 339-6793  
Web: [www.esda.org](http://www.esda.org)

## HI

Hydraulic Institute  
6 Campus Drive  
Parsippany, NJ 07054  
Phone: (973) 267-9700 x115  
Web: [www.pumps.org](http://www.pumps.org)

## IAPMO (ASSE Chapter)

ASSE International Chapter of IAPMO  
18927 Hickory Creek Dr Suite 220  
Mokena, IL 60448  
Phone: (708) 995-3017  
Fax: (708) 479-6139  
Web: [www.asse-plumbing.org](http://www.asse-plumbing.org)

## IEEE (ASC C63)

Institute of Electrical and Electronics  
Engineers  
445 Hoes Lane, PO Box 1331  
Piscataway, NJ 08855-1331  
Phone: (732) 275-7362  
Fax: (732) 562-1571  
Web: [www.ieee.org](http://www.ieee.org)

## IIAR

International Institute of Ammonia  
Refrigeration  
1001 N. Fairfax Street  
Suite 503  
Alexandria, VA 22314-1797  
Phone: (703) 312-4200  
Fax: (703) 312-0065  
Web: [www.iiar.org](http://www.iiar.org)

## IS&T

The Society for Imaging Science &  
Technology  
7003 Kilworth Lane  
Springfield, VA 22151  
Phone: (703) 642-9090 ext. 102  
Web: [www.imaging.org](http://www.imaging.org)

## ISA (Organization)

ISA-The Instrumentation, Systems,  
and Automation Society  
PO Box 12277, 67 Alexander Drive  
Research Triangle Park, NC 27709  
Phone: (919) 990-9228  
Fax: (919) 549-8288  
Web: [www.isa.org](http://www.isa.org)

## ISEA

International Safety Equipment  
Association  
1901 North Moore Street  
Suite 808  
Arlington, VA 22209  
Phone: (703) 525-1695  
Fax: (703) 525-1698  
Web: [www.safetyequipment.org](http://www.safetyequipment.org)

## ITI (INCITS)

InterNational Committee for  
Information Technology Standards  
1101 K Street NW  
Suite 610  
Washington, DC 20005-3922  
Phone: (202) 626-5741  
Fax: 202-638-4922  
Web: [www.incits.org](http://www.incits.org)

## ITSDF

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

## NCPDP

National Council for Prescription Drug  
Programs  
9240 East Raintree Drive  
Scottsdale, AZ 85260  
Phone: (512) 291-1356  
Fax: (480) 767-1042  
Web: [www.ncdp.org](http://www.ncdp.org)

## NCSBN

National Council of State Boards of  
Nursing  
111 E. Wacker Drive, Suite 2900  
Chicago, IL 60601-4277  
Phone: (312) 525-3681  
Fax: (312) 279-1032  
Web: [www.ncsbn.org](http://www.ncsbn.org)

## NEMA (ASC C78)

National Electrical Manufacturers  
Association  
1300 North 17th Street  
Suite 1752  
Rosslyn, VA 22209  
Phone: (703) 841-3277  
Fax: (703) 841-3377  
Web: [www.nema.org](http://www.nema.org)

**NISO**

National Information Standards  
Organization

3600 Clipper Mill Road  
Suite 302  
Baltimore, MD 21211  
Phone: (301) 654-2512  
Fax: (410) 685-5278  
Web: [www.niso.org](http://www.niso.org)

**NSF**

NSF International

789 N. Dixboro Road  
Ann Arbor, MI 48105  
Phone: (734) 827-6819  
Fax: (734) 827-7875  
Web: [www.nsf.org](http://www.nsf.org)

**PLASA**

PLASA North America

630 Ninth Avenue  
Suite 609  
New York, NY 10036-3748  
Phone: (212) 244-1505  
Fax: (212) 244-1502  
Web: [www.plasa.org](http://www.plasa.org)

**SCTE**

Society of Cable Telecommunications  
Engineers

140 Philips Road  
Exton, PA 19341-1318  
Phone: (480) 252-2330  
Fax: (610) 363-5898  
Web: [www.scte.org](http://www.scte.org)

**TIA**

Telecommunications Industry  
Association

1320 North Courthouse Road  
Suite 200  
Arlington, VA 22201  
Phone: (703) 907-7706  
Fax: (703) 907-7727  
Web: [www.tiaonline.org](http://www.tiaonline.org)

**UL**

Underwriters Laboratories, Inc.

12 Laboratory Drive  
Research Triangle Park, NC 27709  
-3995  
Phone: (919) 549-1054  
Web: [www.ul.com](http://www.ul.com)





# ISO & IEC Draft International Standards

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

## Comments

Comments regarding ISO documents should be sent to ANSI's ISO Team (isot@ansi.org); those regarding IEC documents should be sent to Charles T. Zegers, General Secretary of the USNC (czegers@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

### **DENTISTRY (TC 106)**

ISO/DIS 9173-1, Dentistry - Extraction forceps - Part 1: General requirements - 4/16/2015, \$33.00

### **IMPLANTS FOR SURGERY (TC 150)**

ISO/DIS 5832-1, Implants for surgery - Metallic materials - Part 1: Wrought stainless steel - 4/24/2015, \$40.00

ISO/DIS 5832-3, Implants for surgery - Metallic materials - Part 3: Wrought titanium 6-aluminium 4-vanadium alloy - 4/24/2015, \$40.00

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

ISO/DIS 16530-1, Petroleum and natural gas industries - Well integrity - Part 1: Life cycle governance - 4/20/2015, FREE

### **MECHANICAL TESTING OF METALS (TC 164)**

ISO/DIS 12135, Metallic materials - Unified method of test for the determination of quasistatic fracture toughness - 11/15/2016, \$155.00

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

ISO/DIS 27065, Protective clothing - Performance requirements for protective clothing worn by operators applying liquid pesticides and for re-entry workers - 2/14/2015, \$88.00

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

ISO/DIS 4586-1, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 1: Introduction and general information - 4/3/2015, \$40.00

ISO/DIS 4586-2, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 2: Determination of properties - 4/3/2015, \$155.00

ISO/DIS 4586-3, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 3: Classification and specifications for laminates less than 2 mm thick and intended for bonding to supporting substrates - 4/3/2015, \$62.00

ISO/DIS 4586-4, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 4: Classification and specifications for compact laminates of thickness 2 mm and greater - 4/3/2015, \$58.00

ISO/DIS 4586-5, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 5: Classification and specifications for flooring grade laminates less than 2 mm thick intended for bonding to supporting substrates - 4/3/2015, \$46.00

ISO/DIS 4586-6, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 6: Classification and specifications for exterior-grade compact laminates of thickness 2 mm and greater - 4/3/2015, \$58.00

ISO/DIS 4586-7, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 7: Classification and specifications for design laminates - 4/3/2015, \$82.00

ISO/DIS 4586-8, High-pressure decorative laminates (HPL, HPDL) - Sheets based on thermosetting resins (Usually called Laminates) - Part 8: Classification and specifications for alternative core laminates - 4/3/2015, \$71.00

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

ISO/DIS 10924-1, Road vehicles - Circuit breakers - Part 1: Definitions and general test requirements - 2/25/2015, \$67.00

### **RUBBER AND RUBBER PRODUCTS (TC 45)**

ISO/DIS 1304, Rubber compounding ingredients - Carbon black - Determination of iodine adsorption number - 4/24/2015, \$62.00

ISO/DIS 6802, Rubber and plastics hoses and hose assemblies with wire reinforcements - Hydraulic impulse test with flexing - 4/20/2015, \$33.00

ISO/DIS 7233, Rubber and plastics hoses and hose assemblies - Determination of resistance to vacuum - 4/20/2015, FREE

ISO/DIS 7326, Rubber and plastics hoses - Assessment of ozone resistance under static conditions - 4/27/2015, \$40.00

ISO/DIS 8331, Rubber and plastics hoses and hose assemblies - Guidelines for selection, storage, use and maintenance - 4/20/2015, FREE

### **SIEVES, SIEVING AND OTHER SIZING METHODS (TC 24)**

ISO/DIS 19430, Determination of particle size distribution - Particle tracking analysis - 4/24/2015, \$82.00

### **SPORTS AND RECREATIONAL EQUIPMENT (TC 83)**

ISO/DIS 25649-1, Floating leisure articles for use on and in the water - Part 1: Classification, materials, general requirements and test methods - 2/14/2015, \$93.00

- ISO/DIS 25649-2, Floating leisure articles for use on and in the water - Part 2: Consumer information - 2/14/2015, \$82.00
- ISO/DIS 25649-3, Floating leisure articles for use on and in the water - Part 3: Additional specific safety requirements and test methods for Class A devices - 2/14/2015, \$67.00
- ISO/DIS 25649-4, Floating leisure articles for use on and in the water - Part 4: Additional specific safety requirements and test methods for Class B devices - 2/14/2015, \$93.00
- ISO/DIS 25649-5, Floating leisure articles for use on and in the water - Part 5: Additional specific safety requirements and test methods for Class C devices - 2/14/2015, \$77.00
- ISO/DIS 25649-6, Floating leisure articles for use on and in the water - Part 6: Additional specific safety requirements and test methods for Class D devices - 2/14/2015, \$67.00
- ISO/DIS 25649-7, Floating leisure articles for use on and in the water - Part 7: Additional specific safety requirements and test methods for Class E devices - 2/14/2015, \$88.00

#### **SURFACE CHEMICAL ANALYSIS (TC 201)**

- ISO/DIS 18516, Surface chemical analysis - Determination of lateral resolution and sharpness in beam based methods - 4/3/2015, \$119.00

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

- ISO/DIS 10656, Resistance welding equipment - Transformers - Integrated transformers for welding guns - 4/24/2015, \$58.00
- ISO/DIS 17637, Non-destructive testing of welds - Visual testing of fusion-welded joints - 4/20/2015, \$53.00
- ISO/DIS 17638, Non-destructive testing of welds - Magnetic particle testing - 4/20/2015, \$67.00

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

- ISO/IEC 29199-5/DAMd1, Information technology - JPEG XR image coding system - Part 5: Reference software - Amendment 1: Extension of the Reference Software: Support for the Boxed Based File Format - 2/14/2015, FREE
- ISO/IEC DIS 27006, Information technology - Security techniques - Requirements for bodies providing audit and certification of information security management systems - 2/19/2015, FREE
- ISO/IEC DIS 27013, Information technology - Security techniques - Guidance on the integrated implementation of ISO/IEC 27001 and ISO/IEC 20000-1 - 2/25/2015, FREE
- ISO/IEC DIS 27017, Information technology - Security techniques - Code of practice for information security controls based on ISO/IEC 27002 for cloud services - 2/19/2015, FREE
- ISO/IEC DIS 7816-8, Identification cards - Integrated circuit cards - Part 8: Commands and mechanisms for security operations - 2/25/2015, FREE
- ISO/IEC DIS 9075-1, Information technology - Database languages - SQL - Part 1: Framework (SQL/Framework) - 2/18/2015, FREE
- ISO/IEC DIS 9075-2, Information technology - Database languages - SQL - Part 2: Foundation (SQL/Foundation) - 2/18/2015, FREE
- ISO/IEC DIS 9075-3, Information technology - Database languages - SQL - Part 3: Call-Level Interface (SQL/CLI) - 2/18/2015, FREE
- ISO/IEC DIS 9075-4, Information technology - Database languages - SQL - Part 4: Persistent Stored Modules (SQL/PSM) - 2/18/2015, FREE
- ISO/IEC DIS 9075-9, Information technology - Database languages - SQL - Part 9: Management of External Data (SQL/MED) - 2/18/2015, FREE
- ISO/IEC DIS 15149-3, Information technology - Telecommunications and information exchange between systems - Magnetic field area network (MFAN) - Part 3: Relay Protocol for Extended Range - 2/15/2015, FREE

- ISO/IEC DIS 9075-10, Information technology - Database languages - SQL - Part 10: Object Language Bindings (SQL/OLB) - 2/18/2015, FREE
- ISO/IEC DIS 9075-11, Information technology - Database languages - SQL - Part 11: Information and Definition Schemas (SQL/Schemata) - 2/18/2015, FREE
- ISO/IEC DIS 9075-13, Information technology - Database languages - SQL - Part 13: SQL Routines and Types Using the Java™ Programming Language (SQL/JRT) - 2/18/2015, FREE
- ISO/IEC DIS 9075-14, Information technology - Database languages - SQL - Part 14: XML-Related Specifications (SQL/XML) - 2/18/2015, FREE
- ISO/IEC DIS 23001-12, Information technology - MPEG systems technologies - Part 12: Sample Variants in the ISO Base Media File Format - 2/25/2015, FREE
- ISO/IEC DIS 29167-19, Information technology - Automatic identification and data capture techniques - Part 19: Air Interface for security services crypto suite RAMON - 2/25/2015, FREE

## **IEC Standards**

- 9/1997/CDV, IEC 62848-1 Ed.1: Railway applications - DC Surge arresters and voltage limiting devices - Part 1: Metal-oxide surge arresters without gaps, 04/24/2015
- 21/851/FDIS, IEC 62485-1: Safety requirements for secondary batteries and battery installations - Part 1: General Safety Information, 03/27/2015
- 40/2340A/FDIS, IEC 60063 Ed.3: Preferred number series for resistors and capacitors, 02/20/2015
- 48B/2418/NP, IEC 60512-99-002/Ed1: Connectors for electronic equipment: Test schedule for mating and un-mating connectors under electrical load, Part 60512-99-002, Particularly applicable to IEC 60603-7-xx series connectors, 04/24/2015
- 56/1597/CDV, IEC 61882/Ed2: Hazard and operability studies (HAZOP studies) - Application guide, 04/24/2015
- 56/1606/CD, IEC 60300-3-10/Ed2: Dependability management - Part 3 -10: Application guide - Maintainability and supportability, 04/24/2015
- 61/4835A/CDV, IEC 60335-2-31-A1/Ed5: Household and similar electrical appliances - Safety - Part 2-31: Particular requirements for range hoods and other cooking fume extractors, 03/06/2015
- 61/4859/CDV, IEC 60335-1-A2/Ed5: Household and similar electrical appliances - Safety - Part 1: General requirements, 04/24/2015
- 61/4860/CDV, IEC 60335-2-2, Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliance, 04/24/2015
- 61/4861/CDV, IEC 60335-2-8-A1/Ed6: Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances, 04/24/2015
- 61/4862/CDV, IEC 60335-2-9-A2/Ed6: Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances, 04/24/2015
- 61/4863/CDV, IEC 60335-2-11-A2/Ed7: Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers, 04/24/2015
- 61/4864/CDV, IEC 60335-2-14/Ed6: Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines, 04/24/2015
- 61/4865/CDV, IEC 60335-2-23/Ed6: Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care, 04/24/2015
- 61/4866/CDV, IEC 60335-2-29/Ed5: Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers, 04/24/2015

- 61/4867/CDV, IEC 60335-2-54-A1/Ed4: Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam, 04/24/2015
- 61/4868/CDV, IEC 60335-2-75-A1/Ed3: Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for commercial dispensing appliances and vending machines, 04/24/2015
- 62D/1227/NP, IEC 80601-2-xx: Part 2-XX: Particular requirements for the basic safety and essential performance of medical robots for surgery, 04/24/2015
- 62D/1228/NP, IEC 80601-2-XX: Part 2-XX: Particular requirements for the basic safety and essential performance of medical robots for rehabilitation, compensation or alleviation of disease, injury or disability, 04/24/2015
- 65E/440/DTR, IEC/TR 62453-51-10: Communication implementation for common object model IEC 61784 CPF 1 IEC/TR 62453-51-20: Communication implementation for common object model IEC 61784 CPF 2 IEC/TR 62453-51-31: Communication implementation for common object model IEC 61784 CP 3/1 and CP 3/2 IEC/TR 62453-51-32: Communication implementation for common object model IEC 61784 CP 3/4, CP 3/5 and CP 3/6 IEC/TR 62453-51-60: Communication implementation for common object model IEC 61784 CPF 6 IEC/TR 62453-51-90: Communication implementation for common object model IEC 61784 CPF 9 IEC/TR 62453-51-150: Communication implementation for common object model IEC 61784 CPF 15 IEC/TR 62453-52-150: Communication
- 69/326/CDV, IEC 61851-21-1 Ed. 1: Electric vehicle conductive charging system - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply, 04/24/2015
- 76/517/NP, Photobiological Safety of Ultraviolet Lamp Products, 04/24/2015
- 82/929/CD, IEC 62892-1 Ed.1: Comparative testing of PV modules to differentiate performance in multiple climates and applications - Part 1: Requirements for testing, 04/24/2015
- 87/561/NP, Measurement and evaluation of the cavitation noise, 04/24/2015
- 100/2428/CDV, IEC 60728-101 Ed. 1.0:Cable networks for television signals, sound signals and interactive services - Part 101: System performance of forward paths with all-digital channels load (TA/5), 04/24/2015
- 100/2430/CDV, IEC 62605/Ed.1: Multimedia systems and equipment - Multimedia e-publishing and e-books technologies -Interchange format for e-dictionaries Ed 2.0, 04/24/2015
- 100/2431/CDV, IEC 62665/Ed2: Multimedia systems and equipment - Multimedia e-publishing and e-books technologies - Texture map for auditory presentation of printed texts Ed 2.0, 04/24/2015
- 113/247/CD, IEC 62565-3-1: Nanomanufacturing - Material specifications - Part 3-1: Graphene - Blank detail specification for electrotechnical applications, 04/24/2015
- 116/207/CDV, IEC 62841-4-1/Ed1: Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 4-1: Particular requirements for chain saws, 04/24/2015
- 119/59/CDV, IEC 62899-1 Ed.1: Printed electronics - Materials - Part 1: Substrates, 04/24/2015
- 121A/34/CDV, Amendment 2 to IEC 60947-5-1 Ed.3: Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices, 04/24/2015
- CIS/500/FDIS, Amendment 1 to CISPR 24: Information technology equipment - Immunity characteristics - Limits and methods of measurement, 03/27/2015
- 3/1212/CD, ISO 81346-12: Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 12: Construction works, 04/17/2015
- 3D/239/DC, IEC Common Data Dictionary (IEC CDD): C00039 Material declaration, 03/20/2015
- 3D/242/DC, C00050 (Integrated circuits for power supply) IEC Common Data Dictionary (IEC CDD), 03/20/2015
- 14/805/CD, IEC 60076-20 Ed.1: Power transformers - Part 20: Energy efficiency, 04/17/2015
- 14/807/CD, IEC 60076-7 Ed.2: Power transformers - Part 7:Loading guide for liquid-immersed power transformers, 04/03/2015
- 18/1450/CD, IEC 62742: Electrical and electronic installations in ships - Electromagnetic compatibility - Ships with a non-metallic hull, 04/17/2015
- 23A/742/CDV, IEC 61084-1 Ed.2: Cable trunking and cable ducting systems for electrical installations - Part 1: General requirements, 06/19/2015
- 23A/743/CDV, IEC 61084-2-1 Ed.2: Cable trunking and ducting systems for electrical installations - Part 2-1: Cable trunking systems and cable ducting systems intended for mounting on walls and ceilings, 06/19/2015
- 23A/744/CDV, IEC 61084-2-2 Ed.2: Cable trunking and ducting systems for electrical installations - Part 2-2: Particular requirements for cable trunking systems and cable ducting systems intended for mounting underfloor, flushfloor, or onfloor, 06/19/2015
- 23A/745/CDV, IEC 61084-2-4 Ed.2: Cable trunking and ducting systems for electrical installations - Part 2-4: Particular requirements for service poles and service posts, 06/19/2015
- 25/504/CD, IEC/ISO 80003-4 Ed. 1.0: Quantities and units - Quantities for e-health - Part 4: Biology, 04/17/2015
- 34B/1769/CD, IEC 60400 Ed.8: Lampholders for tubular fluorescent lamps and starterholders, 04/17/2015
- 34B/1772/CD, Amendment 2 to IEC 61184 Ed.3: Bayonet lampholders, 04/17/2015
- 34B/1774/CD, Amendment 1 to IEC 60838-1 Ed.5: Miscellaneous lampholders - Part 1: General requirements and tests, 04/17/2015
- 44/721/NP, Safety of machinery - Electro-sensitive protective equipment - Safety-related sensors used for protection of person, 04/17/2015
- 49/1118/FDIS, IEC 61837-3 Ed.2: Surface mounted piezoelectric devices for frequency control and selection - Standard outlines and terminal lead connections - Part 3: Metal enclosure, 03/20/2015
- 56/1607/CD, IEC 62775/TS/Ed1: Dependability Management - Application guide - Dependability and Financial Processes for implementing Asset Management Systems, 04/17/2015
- 57/1542/CD, IEC 62351-7 Ed.1: Power systems management and associated information exchange - Data and communications security - Part 7: Network and system management (NSM) data object models, 04/17/2015
- 61/4878/FDIS, IEC 60335-2-80/Ed3: Household and similar electrical appliances - Safety - Part 2-80: Particular requirements for fans, 03/20/2015
- 65E/440A/DTR, IEC/TR 62453-51-10: Communication implementation for common object model - IEC 61784 CPF 1 IEC/TR 62453-51-20: Communication implementation for common object model - IEC 61784 CPF 2 IEC/TR 62453-51-31: Communication implementation for common object model - IEC 61784 CP 3/1 and CP 3/2 IEC/TR 62453-51-32: Communication implementation for common object model - IEC 61784 CP 3/4, CP 3/5 and CP 3/6 IEC/TR 62453-51-60: Communication implementation for common object model - IEC 61784 CPF 6 IEC/TR 62453-51-90: Communication implementation for common object model - IEC 61784 CPF 9 IEC/TR 62453-51-150: Communication implementation for common object model - IEC 61784 CPF 15 EC/TR 62453-52-150: Communication
- 82/906/CDV, IEC 62108 Ed.2: Concentrator photovoltaic (CPV) modules and assemblies - Design qualification and type approval, 04/17/2015

- 86A/1641/CD, IEC 60794-3-50/Ed 2: Optical fibre cables - Part 3-50: Outdoor cables - Family specification for gas pipe cables and subducts for installation by blowing and/or pulling/dragging in/into gas pipes, 04/17/2015
- 86A/1643/CD, IEC 60794-3-60/Ed2: Optical fibre cables - Part 3-60: Outdoor cables - Family specification for drinking water pipe cables and subducts for installation by blowing and/or pulling/dragging in / floating into drinking water pipes, 04/17/2015
- 86A/1646/CD, IEC 62901/TR/Ed1: Guide for the selection of drop cables, 04/17/2015
- 86B/3874/NP, Future IEC 61754-34/Ed1: Fibre optic interconnecting devices and passive components - Fibre optic connector interfaces - Part 34: Type URM connector family, 04/17/2015
- 88/511/CDV, IEC 61400-13 Ed.1: Wind turbines - Part 13: Measurement of mechanical loads, 04/17/2015
- 100/2456/CD, IEC TR 61998/Ed.1: Model and framework for standardization in multimedia equipment and systems, 04/17/2015
- 101/461/FDIS, Amendment 1 to IEC 61340-4-1 Ed.2: Electrostatics - Part 4-1: Standard test methods for specific applications - Electrical resistance of floor coverings and installed floors, 03/20/2015
- 103/131/CDV, IEC 62802 Ed. 1.0: Measurement Method of a Half-Wavelength Voltage and a Chirp Parameter for Mach-Zehnder Optical Modulator in High-Frequency Radio on Fibre (RoF) Systems, 04/17/2015
- 104/646/CD, IEC 60721-2-4 Ed.2: Classification of environmental conditions- Part 2-4: Environmental conditions appearing in nature - Solar radiation and temperature, 04/17/2015
- 104/647/CD, IEC 60721-3-0 Ed.2: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities. Introduction, 04/17/2015
- 104/648/CD, IEC 60721-3-1 Ed.3: Classification of environmental conditions - Part 3: Classification of groups of environmental parameters and their severities - Section 1: Storage, 04/17/2015
- 110/642/CD, IEC/TR 62977-3-2 Ed.1: Electronic display devices - Part 3-2: Evaluation of optical characteristics - Mura, 04/17/2015
- 121A/32/CDV, Amendment 2 to IEC 60947-5-5 Ed.1: Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function, 04/17/2015
- 18/1434/CDV, IEC/IEEE 80005-2 - Utility connections in port - Part 2: High and Low voltage shore connection systems - Communication for monitoring and control, 04/10/2015
- 18/1438/CDV, IEC 60092-202: Electrical installations in ships - Part 202: System design - Protection, 04/10/2015
- 18A/383/CD, IEC 60092-353: Electrical installations in ships - Part 353: Power cables for rated voltages 1 kV and 3 kV, 03/13/2015
- 20/1560/FDIS, IEC 60885-3: Electrical test methods for electric cables - Part 3: Test methods for partial discharge measurements on lengths of extruded power cables, 03/13/2015
- 20/1561/FDIS, IEC 60287-2-1: Electric cables - Calculation of the current rating - Part 2-1: Thermal resistance - Calculation of thermal resistance, 03/13/2015
- 23/705/FDIS, Amendment 2 to IEC 62080 Ed.1: Sound signalling devices for household and similar purposes, 03/13/2015
- 23E/885/CD, IEC 62606 Ed.1 Amd.1: General requirements for arc fault detection devices, 04/10/2015
- 27/949/FDIS, IEC 60398 Ed.3: Installations for electroheating and electromagnetic processing - General performance test methods, 03/13/2015
- 33/572/CDV, IEC 62146-1/A1/Ed1: Grading capacitors for high-voltage alternating current circuit-breakers - Part 1: General, 04/10/2015
- 34/226/CD, IEC 62504 A1 Ed.1: General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions, 04/10/2015
- 34A/1834/CD, IEC 62031 Ed.2: LED modules for general lighting - Safety specifications, 04/10/2015
- 34A/1836/FDIS, Amendment 1 to IEC 62560 Ed.1: Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications, 03/13/2015
- 34C/1114/CDV, Amendment 1 to IEC 60929 Ed.4: AC and/or DC-supplied electronic control gear for tubular fluorescent lamps - Performance requirements, 04/10/2015
- 34C/1132/FDIS, IEC 62811 Ed.1: AC and/or DC-supplied electronic controlgear for discharge lamps (Excluding fluorescent lamps) - Performance requirements for low frequency square wave operation, 03/13/2015
- 40/2333/CDV, IEC 60384-14-2 Ed.2: Fixed capacitors for use in electronic equipment - Part 14-2: Blank detail specification - Fixed capacitors for electromagnetic interference suppression and connection to the supply mains - Safety tests only, 04/10/2015
- 40/2342/FDIS, IEC 60384-19 Ed.3: Fixed capacitors for use in electronic equipment - Part 19: Sectional specification: Fixed metallized polyethylene-terephthalate film dielectric surface mount d.c. capacitors, 03/13/2015
- 40/2343/FDIS, IEC 60286-2 Ed.4: Packaging of components for automatic handling - Part 2: Tape packaging of components with unidirectional leads on continuous tapes, 03/13/2015
- 45A/991/CDV, IEC/IEEE 60780-323 Ed.1: Nuclear facilities - Electrical equipment important to safety - Qualification, 04/10/2015
- 47/2224/CD, IEC 62951-1 Ed.1: Semiconductor devices - Flexible and stretchable semiconductor devices - Part 1: Bending test method for conductive thin films on flexible substrates, 04/10/2015
- 48B/2411/CD, IEC 61076-3-121/Ed1: Electrical connectors - Rectangular connectors- detail specification for 8-way, unshielded, free and fixed high density connectors for data transfer and with Power Over Ethernet capabilities., 04/10/2015
- 55/1501/CDV, IEC 60317-0-4/Ed3, Specifications for particular types of winding wires - Part 0-4: General requirements - Glass-fibre wound resin or varnish impregnated, bare or enamelled rectangular copper wire, 04/10/2015
- 55/1502/CDV, IEC 60317-59/Ed1: Specifications for particular type of winding wires - Part 59: Polyamideimide enameled round copper wire, class 240, 04/10/2015
- 57/1535/DC, Draft IEC 61968-900 TR, Getting Started with IEC 61968 -9, 03/13/2015
- 57/1536/DTR, IEC 61850-90-12 TR Ed.1: Communication networks and systems for power utility automation - Part 90-12: Wide area network engineering guidelines, 03/13/2015
- 57/1538/CD, IEC 62361-102 TS Ed.1: Power systems management and associated information exchange - Interoperability in the long term - Part 102: CIM - IEC 61850 harmonization, 04/10/2015
- 61/4876/FDIS, IEC 60335-2-27-A2/Ed5: Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to ultraviolet and infrared radiation, 03/13/2015
- 61/4877/FDIS, IEC 60335-2-103/Ed3: Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows, 03/13/2015
- 61J/608/CDV, IEC 60335-2-69-A1/Ed4: Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners for commercial use, 04/10/2015
- 61J/609/CDV, IEC 60335-2-79-A1/Ed3: Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners, 04/10/2015
- 62A/986/CD, IEC TR 62366-2: Medical devices - Part 2: Guidance on the application of usability engineering to medical devices, 03/13/2015
- 68/497/FDIS, IEC 60404-5 Ed.3: Magnetic Materials - Part 5: Permanent magnet (magnetically hard) materials - Methods of measurement of magnetic properties, 03/13/2015
- 72/973/CDV, IEC 60730-1-A1/Ed5: Automatic electrical controls - Part 1: General requirements, 04/10/2015

- 72/980/FDIS, IEC 60730-2-6/Ed3: Automatic electrical controls - Part 2  
-6: Particular requirements for automatic electrical pressure sensing  
controls including mechanical requirements, 03/13/2015
- 72/981/FDIS, IEC 60730-2-12/Ed3: Automatic electrical controls - Part  
2-12: Particular requirements for electrically operated door lock,  
03/13/2015
- 77/471/CDV, IEC 61000-1-2: Electromagnetic compatibility (EMC)  
Electromagnetic compatibility (EMC) - Part 1-2: General -  
Methodology for the achievement of functional safety of electrical  
and electronic systems including equipment with regard to  
electromagnetic phenomena, 04/10/2015
- 85/505/DC, Revision of IEC 62586-1 Ed.1.0 and IEC 62586-2 Ed.1.0,  
03/06/2015
- 86C/1298/CD, IEC 61282-9/TR/Ed2: Fibre optic communication  
system design guides - Part 9: Guidance on polarization mode  
dispersion measurements and theory, 03/13/2015
- 86C/1299/CD, IEC 62150-5/Ed1: Fibre optic active components and  
devices -Test and measurement procedures - Part 5: Wavelength  
channel tuning time of tuneable transmitters, 03/13/2015
- 86C/1300/DTR, IEC 62343-6-9/TR/Ed1: Dynamic modules - Part 6-9:  
Design guide - Study of mechanisms and measurements of  
crosstalk in wavelength-selective switches, 03/13/2015
- 87/560/CD, IEC TS 62462: Ultrasonics - Output test - Guide for the  
maintenance of ultrasound physiotherapy systems, 04/10/2015
- 90/349/CDV, IEC 61788-4: Superconductivity - Part 4: Residual  
resistance ratio measurement - Residual resistance ratio of Nb-Ti  
and Nb<sub>3</sub>Sn composite superconductors, 04/10/2015
- 91/1236/FDIS, IEC 60194 Ed.6: Printed board design, manufacture  
and assembly - Terms and definitions, 03/13/2015
- 100/2455/NP, Identification and communication interoperability method  
for external DC power supplies used with data-enabled mobile  
computing devices, 04/10/2015
- 110/641/FDIS, IEC 61747-3-1 Ed.1: Liquid crystal display devices -  
Part 3-1: Liquid crystal display (LCD) cells - Blank detail  
specification, 03/13/2015
- 113/243/DTS, IEC TS 62607-3-2: Nanomanufacturing - Key control  
characteristics - Part 3-2: Luminescent nanoparticles -  
Determination of mass of quantum dot dispersion, 04/10/2015
- 113/244/CD, IEC TS 62607-4-2: Nanomanufacturing-Key control  
characteristics - Part 4-2 Cathode nanomaterials for nano-enabled  
electrical energy storage-Physical characterization, Density  
measurement, 04/10/2015
- CIS/A/1102/DTR, Amendment 2 to CISPR 16-3: Specification for radio  
disturbance and immunity measuring apparatus and methods - Part  
3: CISPR technical reports, 03/13/2015



# 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

### DIMENSIONAL AND GEOMETRICAL PRODUCT SPECIFICATIONS AND VERIFICATION (TC 213)

[ISO 14638:2015](#), Geometrical product specifications (GPS) - Matrix model, \$123.00

### EQUIPMENT FOR FIRE PROTECTION AND FIRE FIGHTING (TC 21)

[ISO 14520-13:2015](#), Gaseous fire-extinguishing systems - Physical properties and system design - Part 13: IG-100 extinguishant, \$51.00

### FLOOR COVERINGS (TC 219)

[ISO 9405:2015](#), Textile floor coverings - Assessment of changes in appearance, \$51.00

[ISO 10361:2015](#), Textile floor coverings - Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester, \$88.00

### GAS CYLINDERS (TC 58)

[ISO 11120:2015](#), Gas cylinders - Refillable seamless steel tubes of water capacity between 150 l and 3000 l - Design, construction and testing, \$173.00

### INDUSTRIAL TRUCKS (TC 110)

[ISO 22915-12:2015](#), Industrial trucks - Verification of stability - Part 12: Industrial variable-reach trucks handling freight containers of 6 m (20 ft) length and longer, \$88.00

### JEWELLERY (TC 174)

[ISO 11490:2015](#), Jewellery - Determination of palladium in palladium jewellery alloys - Gravimetric determination with dimethylglyoxime, \$51.00

[ISO 13756:2015](#), Jewellery - Determination of silver in silver jewellery alloys - Volumetric (potentiometric) method using sodium chloride or potassium chloride, \$51.00

### MACHINE TOOLS (TC 39)

[ISO 10791-1:2015](#), Test conditions for machining centres - Part 1: Geometric tests for machines with horizontal spindle (horizontal Z-axis), \$265.00

### OTHER

[IWA 16:2015](#), International harmonized method(s) for a coherent quantification of CO<sub>2</sub>e emissions of freight transport, \$173.00

### PROSTHETICS AND ORTHOTICS (TC 168)

[ISO 29783-2:2015](#), Prosthetics and orthotics - Vocabulary - Part 2: Prosthetic gait, \$123.00

### SHIPS AND MARINE TECHNOLOGY (TC 8)

[ISO 14884:2015](#), Large yachts - Weathertight doors - Strength and weathertightness requirements, \$88.00

### STEEL (TC 17)

[ISO 4997:2015](#), Cold-reduced carbon steel sheet of structural quality, \$88.00

### TERMINOLOGY (PRINCIPLES AND COORDINATION) (TC 37)

[ISO 24622-1:2015](#), Language resource management - Component Metadata Infrastructure (CMDI) - Part 1: The Component Metadata Model, \$88.00

### THERMAL INSULATION (TC 163)

[ISO 16956:2015](#), Thermal performance in the built environment - Determination of air flow rate in building applications by field measuring methods, \$149.00

## ISO/IEC JTC 1, Information Technology

[ISO/IEC 14882:2014](#), Information technology - Programming languages - C++, \$265.00

## IEC Standards

### ELECTRICAL EQUIPMENT IN MEDICAL PRACTICE (TC 62)

[IEC 60601-1-SER Ed. 1.0 b:2015](#), Medical electrical equipment - ALL PARTS, \$3418.00

### SAFETY OF HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES (TC 61)

[IEC 60335-2-65 Ed. 2.2 b:2015](#), Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances, \$116.00

[IEC 60335-2-65 Amd.2 Ed. 2.0 b:2015](#), Amendment 2 - Household and similar electrical appliances - Safety - Part 2-65: Particular requirements for air-cleaning appliances, \$31.00

[IEC 60335-2-82 Ed. 2.2 b:2015](#), Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines, \$169.00

[IEC 60335-2-82 Amd.2 Ed. 2.0 b:2015](#), Amendment 2 - Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines, \$17.00

[IEC 60335-2-95 Ed. 3.1 b:2015](#), Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use, \$230.00

[IEC 60335-2-95 Amd.1 Ed. 3.0 b:2015](#), Amendment 1 - Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use, \$17.00

**SAFETY OF MEASURING, CONTROL, AND LABORATORY EQUIPMENT (TC 66)**

[IEC 61010-2-081 Ed. 2.0 b:2015](#), 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, \$55.00

[IEC 61010-2-101 Ed. 2.0 b:2015](#), Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2 -101: Particular requirements for in vitro diagnostic (IVD) medical equipment, \$121.00

**SOLAR PHOTOVOLTAIC ENERGY SYSTEMS (TC 82)**

[IEC 60904-SER Ed. 1.0 b:2015](#), Photovoltaic devices - ALL PARTS, \$800.00

[IEC 60904-2 Ed. 3.0 b:2015](#), Photovoltaic devices - Part 2: Requirements for photovoltaic reference devices, \$85.00

**IEC Technical Reports**

**NUCLEAR INSTRUMENTATION (TC 45)**

[IEC/TR 62461 Ed. 2.0 en:2015](#), Radiation protection instrumentation - Determination of uncertainty in measurement, \$303.00

# Proposed Foreign Government Regulations

## Call for Comment

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

The National Center for Standards and Certification Information (NCSCI) at the National Institute of Standards and Technology

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

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



# Information Concerning

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## American National Standards

### INCITS Executive Board

#### ANSI Accredited SDO and US TAG to ISO/IEC JTC 1, Information Technology

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

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

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

- **Producer – Hardware**

This category primarily produces hardware products for the ITC marketplace.

- **Producer – Software**

This category primarily produces software products for the ITC marketplace.

- **Distributor**

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

- **User**

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

- **Consultants**

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

- **Standards Development Organizations and Consortia**

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

- **Academic Institution**

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

- **Other**

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

Membership in the INCITS Executive Board is open to all directly and materially affected parties in accordance with INCITS membership rules. To find out more about participating on the INCITS Executive Board, please contact Jennifer Garner at 202-626-5737 or [jgarner@itic.org](mailto:jgarner@itic.org). Visit [www.INCITS.org](http://www.INCITS.org) for more information regarding INCITS activities.

### Calls for Members

#### Society of Cable Telecommunications

#### ANSI Accredited Standards Developer

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

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

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

## ANSI Accredited Standards Developers

### Application for Accreditation

#### Portable Lights American Trade Organization (PLATO)

#### Comment Deadline: March 2, 2015

The Portable Lights American Trade Organization (PLATO) has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on PLATO-sponsored American National Standards. PLATO's proposed scope of standards activity is as follows:

- Development and improvement of measurement standards for portable lighting performance, such as FL-1 for directional lights

- PLATO will update and add to standards, as the need is specified, to cover various segments of portable lights such as automotive, bike, outdoor, area, headlamps, etc.

- Standards for related products manufactured by members of PLATO will be developed as needed providing a consensus of the involved manufacturing segment of the industry is represented

To obtain a copy of PLATO's application and proposed operating procedures or to offer comments, please contact: Mr. David Costello, Executive Director, Portable Lights American Trade Organization, P.O. Box 107, Marblehead, MA 01945; phone: 617.875.2492; e-mail: david@plato-usa.org. Please submit any comments to PLATO by March 2, 2015, with a copy to the Recording Secretary, ExSC, in ANSI's New York Office (E-mail: Jthompso@ANSI.org). As the proposed procedures are available electronically, the public review period is 30 days. You may view or download a copy of the PLATO's proposed operating procedures from ANSI Online during the public review period at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR).

## Reaccreditation

### Georgia Tech Energy & Sustainability Services (GTESS)

#### Comment Deadline: March 2, 2015

Georgia Tech Energy & Sustainability Services (GTESS) has submitted to ANSI revisions to its accredited procedures for documenting consensus on GTESS-sponsored American National Standards, under which it was last reaccredited in 2014. As the revisions appear to be substantive in nature, the reaccreditation process is initiated.

To obtain a copies of the revised procedures or to offer comments, please contact: Ms. Holly Grell-Lawe, Principal Research Associate, GTESS, Enterprise Innovation Institute, Georgia Institute of Technology, 75 Fifth Street NW, Suite 300, Atlanta, GA 30332; phone: 404.558-5948; e-mail: holly.lawe@innovate.gatech.edu. 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 GTESS by March 2, 2015, with a copy to the ExSC Recording Secretary in ANSI's New York Office (E-mail: jthompso@ANSI.org).

## International Organization for Standardization (ISO)

### Call for U.S. TAG Participants

#### U.S. TAG to ISO/TC 131/SC 1 – Terminology, Classification and Symbols

Please be advised that the National Fluid Power Association (NFPA) has committed to administering the new US/TAG to ISO/TC 131/SC 1, Terminology, classification and symbols, which was recently reactivated. The secretariat has been assigned to Germany (DIN).

Organizations interested in participating on the US/TAG should contact ANSI's ISO Team at [isot@ansi.org](mailto:isot@ansi.org).

### New Field of ISO Technical Activity

#### Bamboo and Rattan

#### Comment Deadline: March 13, 2015

SAC (China) has submitted to ISO a proposal (and additional information) for a new field of ISO technical activity on the subject of Bamboo and Rattan, with the following scope statement:

Standardization of bamboo, rattan, and derived materials, including terminology, classification, specifications, test methods and quality requirements.

Anyone wishing to review this new proposal (and additional information) can request a copy by contacting ANSI's ISO Team via e-mail, [isot@ansi.org](mailto:isot@ansi.org), with submission of comments to Steve Cornish ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on Friday, March 13, 2015.

## International Electrotechnical Commission (IEC)

### Looking for USNC TAG Members for IEC/Systems Committee – Active Assisted Living

#### US Technical Advisory Group (US TAG) for SyC AAL Active Assisted Living

The IEC has transitioned Strategic Group 5, Ambient Assisted Living, into a new systems committee and the US will be participating. Underwriters Laboratories (UL) will serve as TAG Administrator and is in the process of organizing the Technical Advisory Group (TAG) for the USNC.

**Title:** US TAG for SyC AAL Active Assisted Living

**Scope:**

- Create a vision of Active Assisted Living that takes account of the evolution of the market
- Enable accessibility of AAL Systems and user interfaces
- Enable cross-vendor interoperability of AAL systems, products and components
- Communicate the work of the SyC to IEC and the market to foster a strong community of stakeholders

Anyone interested in joining the USNC TAG for IEC SyC AAL Active Assisted Living is invited to contact Ross Wilson, TAG Secretary – [ross.wilson@ul.com](mailto:ross.wilson@ul.com).

## Meeting Notices

### AHRI Meeting

#### Revision of AHRI Standard 840, Unit Ventilators

The Air-Conditioning, Heating, and Refrigeration Institute (AHRI) will be holding an online meeting on February 19 from 11 a.m. to 12 p.m. If you are interested in participating in the meeting or providing comments on the standard, please contact AHRI staff member Mary Opalka at [mopalka@ahrinet.org](mailto:mopalka@ahrinet.org).

### U.S. TAG Meetings

#### U.S. TAG to ISO TC 35 – Paints and Varnishes, SC12 and SC14

ANSI accredited US TAG to ISO TC 35 Paints and Varnishes and SC12 and 14 will meet Wednesday, March 18, 2015 in Dallas, TX in conjunction with the NACE International Corrosion Technology Week. U.S. national interested parties who are directly and materially affected by the ISO committee work and wish to attend the TAG meeting or become a TAG member should contact TAG administrator Ed Barrett at [Ed.Barrett@NACE.org](mailto:Ed.Barrett@NACE.org) or 281-228-6295.

#### U.S. TAG to ISO TC 156 – Corrosion or metals and alloys

ANSI accredited US TAG to ISO TC 156 will meet Wednesday, March 18, 2015 in Dallas, TX in conjunction with the NACE International Corrosion Technology Week. U.S. national interested parties who are directly and materially affected by the ISO committee work and wish to attend the TAG meeting or become a TAG member should contact TAG administrator Ed Barrett at [Ed.Barrett@NACE.org](mailto:Ed.Barrett@NACE.org) or 281-228-6295.

# Information Concerning

## ANSI Accredited Standards Developers

### Application for Accreditation

### Commission on Accreditation of Ambulance Services (CAAS)

### Comment Deadline: March 2, 2015

The **Commission on Accreditation of Ambulance Services (CAAS)** has submitted an application for accreditation as an ANSI Accredited Standards Developer (ASD) and proposed operating procedures for documenting consensus on CAAS-sponsored *American National Standards*. CAAS's proposed scope of standards activity is as follows:

*The Commission on Accreditation of Ambulance Services (CAAS) has developed two sets of standards. The CAAS Standards which are standards for the operations of ambulance services were developed 20 years ago and we have maintained these standards for over the last 20 years. We are also currently developing Ground Vehicle Standards for ambulances.*

*The current CAAS standards encompass the operational areas of organizational management, interagency relations, general management, financial management, community relations, public affairs, human resources, clinical standards, safe operations, managing risk, equipment, vehicles, facilities and communications centers.*

*CAAS is also developing consensus based ground ambulance vehicles standards called CAAS GVS 2015. These standards identify the minimum requirements for new automotive Emergency Medical Services (EMS) ambulances (except combat operations and combat support ambulances) built on Original Equipment Manufacturer's Chassis (OEM) that are prepared by the OEM for use as an ambulance. Refurbishing and remounted vehicles are not covered by these standards. These standards apply to new vehicles only. The object of the Ground Vehicle Standard (CAAS GVS 2015) is to best serve patients by providing ground ambulances that are safe, nationally recognized, properly constructed, easily maintained, and when professionally staffed and provisioned, will function reliably in pre-hospital and other mobile emergency medical service. The CAAS GVS 2015 establishes minimum requirements, performance parameters and essential criteria for the design of ground ambulances in an effort to provide a practical degree of standardization.*

*By definition an ambulance is a vehicle used for emergency medical care and patient transport. These standards are for the construction of ambulances, not for vehicles intended for use as fire apparatus. National and international standards exist for automotive fire apparatus. These standards can be obtained from organizations such as the National Fire Protection Association (NFPA).*

To obtain a copy of CAAS's application and proposed operating procedures or to offer comments, please contact: Ms. Marcie McGlynn, Director of Administration, Commission on Accreditation of Ambulance Services, 1926 Waukegan Road, Suite 300, Glenview, IL 60025; phone: 847.657.6828; e-mail: [marciem@tcag.com](mailto:marciem@tcag.com). Please submit any comments to CAAS by **March 2, 2015**, with a copy to the Recording Secretary, ExSC, in ANSI's New York Office (E-mail: [Jthomps@ANSI.org](mailto:Jthomps@ANSI.org)). As the proposed procedures are available electronically, the public review period is **30 days**. You may view or download a copy of the CAAS's proposed operating procedures from *ANSI Online during the public review period* at the following URL: [www.ansi.org/accredPR](http://www.ansi.org/accredPR).

**American Water Works Associated (AWWA)**  
**Substantive Changes for Public Review:**  
**AWWA C516-xx – (Revision of ANSI/AWWA C516-10)**

**Added Statement #6 to Forward Section II.B**

6. The selection of materials may be critical for water service and distribution piping in locations where there is the likelihood that elastomers will be in contact with specific water treatment disinfection agents. Documented research has shown that elastomers such as pipe gaskets, valve stem seals and valve seats may degrade when exposed to certain disinfection agents. This standard does not include elastomer test requirements for chemical resistance to water treatment disinfection agents such as, but not limited to chlorine and chloramines. If resistance to such agents is required, careful selection of and specifications for elastomeric materials should be considered to provide long term usefulness and minimal degradation (e.g. swelling, loss of elasticity, softening, etc.) of each elastomeric valve component. The AWWA Research Foundation and EPA sponsored 2007 publication; "Performance of Elastomeric Components in Contact with Potable Water" presents data on commonly used elastomeric materials and may serve as a reference for reviewing alternate materials in specific applications. System designers, valve manufacturers, and material producers may also have knowledge and experience with elastomeric materials in specific applications that could provide the purchaser with additional information.



Original Document Number: ANSI/HI 6.1-6.5-2000  
 New Document Number: ANSI/HI 6.1-6.5-2015  
 Document Title: *American National Standard for Reciprocating Power Pumps for Nomenclature, Definitions, Application and Operation*  
 Date: January 15, 2015  
 Sponsor and Publisher: Hydraulic Institute  
 Contact: Peter Gaydon [pgaydon@pumps.org](mailto:pgaydon@pumps.org)

### Error Correction Summary

#### **Section: 6.2.6.6 Acceleration head ( $h_{acc}$ ), acceleration pressure ( $p_{acc}$ )**

Original Equation:

$$\text{(US Customary Units)} h_{acc} = \frac{lvnC}{Kg} \text{ or } p_{acc} = \frac{lvnCs}{231Kg}$$

Corrected Equation:

$$\text{(US Customary Units)} h_{acc} = \frac{lvnC}{Kg} \text{ or } p_{acc} = \frac{h_{acc}*S}{2.31}$$

Where:

$h_{acc}$  = Acceleration head in feet

$p_{acc}$  = Acceleration pressure in pounds per square inch

$l$  = Length of suction line in feet

$v$  = Velocity in suction line in feet per second

$n$  = Pump speed in revolution per minute

$C$  = Constant based on number of heads and single or double acting

$s$  = Liquid specific gravity

$K$  = Constant representing compressibility of the liquid

$g$  = Gravitational constant in feet per second squared



Original Document Number: ANSI/HI 6.6-2000  
 New Document Number: ANSI/HI 6.6-2015  
 Document Title: *American National Standard for Reciprocating Pump Tests*  
 Date: January 15, 2015  
 Sponsor and Publisher: Hydraulic Institute  
 Contact: Peter Gaydon [pgaydon@pumps.org](mailto:pgaydon@pumps.org)

### Error Correction Summary

#### Section: 6.6.4.8.4 Calculation of Input Power

Original Equation:

$$(\text{Metric})P_p = \frac{n\tau}{60,000}$$

Corrected Equation:

$$(\text{Metric})P_p = \frac{\pi*n*\tau}{30,000}$$

Where:

$P_p$  = Pump Input Power (kW)

$n$  = Pump Speed (RPM)

$\tau$  = Shaft Input Torque (N.m)

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[Note – the changes are seen below using **strikeout** for removal of old text and **gray highlights** to show the suggested text. **ONLY** the highlighted text is within the scope of this ballot.]

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

### 7.3.3 Chlorine reduction **and taste and odor reduction** testing

#### 7.3.3.1 Claims

Claims for chlorine reduction may be made when tested in accordance with 7.3.3. To qualify for a chlorine reduction claim **or taste and odor claim**, the system shall reduce the concentration of **free available chlorine (FAC)** from the influent challenge so that, prior to the 100% sample point, 90% of the product water sample concentrations **are less than or equal to the maximum product water concentrations** meet the percent reduction requirement in table 9. Samples collected at the 100% **capacity** sample point **also shall be greater than or equal to meet** the percent reduction requirement in table 9.

##### 7.3.3.1.1 Chlorine reduction claim

The systems shall reduce ~~the an~~-influent challenge concentration of ~~2.0 mg/L~~ free available chlorine (FAC) by a minimum of 50% **in accordance with table 9.**

##### 7.3.3.1.2 Taste and odor reduction claims

**Taste and odor reduction claims shall be allowed only for activated carbon systems that reduce the influent challenge of free available chlorine (FAC) by a minimum of 75% in accordance with table 9 meet the requirements of 7.3.3 for chlorine reduction.** It is acceptable to run the chlorine reduction and taste and odor reduction tests concurrently. For activated carbon systems that also contain an additional chlorine-reactive media, the ~~chlorine~~ taste and odor reduction test shall be performed using a test system that does not contain the additional media in order to make the taste and odor reduction claim.

**Table 9 – Chlorine reduction**

	Average influent challenge concentration	Individual influent sample point limits <sup>1</sup>	Percent reduction requirement	Compound
chlorine	2.0 mg/L ± 10%	2.0 mg/L ± 20%	≥ 50%	sodium hypochlorite
<b>taste and odor</b>	<b>2.0 mg/L ± 10%</b>	<b>2.0 mg/L ± 20%</b>	<b>≥ 75%</b>	<b>sodium hypochlorite</b>

<sup>1</sup> Equals average influent challenge concentration variability plus one of the following, in order of availability:

1. Acceptable Continuing Calibration Verification (CCV) limits stated in the appropriate USEPA method.
2. Acceptable spike recoveries as stated in the appropriate USEPA method.
3. Opinion of laboratory professionals – no guidance available in USEPA method.

**Reason: Revised per 2014 DWTU JC meeting discussion to increase the chlorine reduction for taste and odor claims to >75% of 2.0 mg/L FAC.**



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### **6.3.2 Minimization of indoor volatile organic chemical (VOC) emissions (prerequisite for gold and platinum)**

A manufacturer may earn one point by meeting this requirement. The maximum concentration for any chemical emitted at 96 h in emissions tests (following a ten-day conditioning period) shall not result in a modeled indoor air concentration greater than half the chronic reference exposure level (CREL) established by California Office of Environmental Health Hazard Assessment (OEHHA), except formaldehyde, which shall not be the full CREL,  $9 \mu\text{g}/\text{m}^3$ . ~~not exceed half the OEHHA indoor reference exposure level (REL).~~ Testing shall be in accordance with ~~CA/DHS/EHLB/R-174~~ the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, published in February 2010.

NOTE – Compliance with this requirement can be met through participation and compliance with the CRI Green Label Plus Program.

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### **6.3.5 Reduction in chemical and pollutant emissions**

#### **6.3.5.1 Minimization of indoor formaldehyde emissions**

A manufacturer may earn one point for meeting this requirement for the product being certified. The maximum concentration for formaldehyde emitted at 96 h in emissions tests (following a 10-d conditioning period), shall not result in a modeled indoor air concentration greater than half the chronic reference exposure level (CREL) established by California Office of Environmental Health Hazard Assessment (OEHHA). Testing shall be in accordance with ~~CA/DHS/EHLB/R-174~~ the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, published in February 2010. Test results in accordance with Green Label Plus methodology (e.g., 24 h test results) for formaldehyde should be below a modeled concentration of  $16 \mu\text{g}/\text{m}^3$  at 24 h to ensure that formaldehyde emissions would not exceed the  $\frac{1}{2}$  CREL of  $4.5 \mu\text{g}/\text{m}^3$  after 10-d conditioning and at 96 h.

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## BSR/UL 96, Lightning Protection Components

## 2. Additions and Revisions to Table 9.1 and Table 19.1

Table 9.1

## Minimum dimensions of Class I main conductors

Type of conductor	Material	
	Copper	Aluminum
Cable		
Strand Diameter	0.045 inch (1.14 mm)	0.064 inch (1.63 mm)
Weight	0.187 pound/foot (278 gram/meter)	0.095 pound/foot (141 gram/meter)
Area	57,4000 circular mills (29 mm <sup>2</sup> )	98,600 circular mills (50 mm <sup>2</sup> )
Solid Strip		
Thickness	0.051 inch (1.30 mm)	0.064 inch (1.63 mm)
Width <sup>a</sup>	1 inch (25.4 mm)	1.21 inch (30.73 mm)
Solid Rod		
Weight	0.187 pound/foot (278 gram/meter)	0.095 pound/foot (141 gram/meter)
Tubular		
Wall Thickness	<del>0.032 inch (0.82 mm)</del> <u>0.125 inch (3.175 mm)</u>	<del>0.049 inch (1.24 mm)</del> <u>0.125 inch (3.175 mm)</u>
Weight	<del>0.187 pound/foot (278 gram/meter)</del>	<del>0.095 pound/foot (141 gram/meter)</del>
<sup>a</sup> This is the minimum width for a strip without perforations. If perforated, the minimum intended width is to be increased by the diameter of the perforations.		

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Table 19.1

## Minimum dimensions for Class II conductors

Type of Conductor	Material	
	Copper	Aluminum
<b>CABLE</b>		
Strand Diameter	0.0571 inch (1.45 mm)	0.072 inch (1.83 mm)
Weight	0.375 (pound/foot) (558 grams/meter)	0.190 (pound/foot) (283 grams/meter)
Area	115,000 Circular mills (58 mm <sup>2</sup> )	192,000 Circular mills (97 mm <sup>2</sup> )
<b>SOLID STRIP</b>		
Thickness	0.064 inch (1.63 mm)	0.1026 inch (2.61 mm)
Width <sup>a</sup>	1.40 inch (35.58 mm)	1.462 inch (37.16 mm)
<b>SOLID ROD</b>		
Weight	0.375 pound/ foot (558 gram/meter)	0.190 pound/foot (283 gram/meter)
<b>TUBULAR</b>		
Wall Thickness	<del>0.065 inch (1.63 mm)</del> <u>0.125 inch (3.175 mm)</u>	<del>0.065 inch (1.63 mm)</del> <u>0.125 inch (3.175 mm)</u>
Weight	<del>0.375 pound/foot (558 gram/meter)</del>	<del>0.190 pound/foot (283 gram/meter)</del>
<sup>a</sup> This is the minimum width for a strip without perforations. If perforated, the minimum intended width is to be increased by the diameter of the perforations.		

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