



# Technical Standards Program

## ESTA Standards Watch

Late August 2017 Volume 21, Number 16

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### Six ESTA Standards in Public Review

Six standards are available for public review on the ESTA website at [http://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](http://tsp.esta.org/tsp/documents/public_review_docs.php). Five have comment deadlines of 25 September 2017, but one is a week later, 2 October. People materially affected by these standards are invited to review them and comment on them, saying they are acceptable as they are or are in need of changes.

### BSR E1.9, Entertainment Technology - Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting

This standard defines the minimum data to be presented on documents purporting to accurately describe the photometric performance of stage and studio luminaires used in the live entertainment and performance

industries. This is a proposed reaffirmation of the standard first published in 2007. The closing date is 25 September 2017.

#### **BSR E1.6-2, Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry**

This standard covers the design, inspection, and maintenance of serially manufactured electric link chain hoists having capacity of 2 tons or less and used in the entertainment industry. This standard does not cover attachment to the load or to the overhead structure. Controls used for multiple hoist operation are excluded from the scope of this standard. This is a proposed revision of the existing E1.6-2 standard. Comments are due 25 September.

#### **BSR E1.14, Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals**

The standard applies to the instruction manuals for fog-making equipment manufactured for use in the entertainment industry. Fog users must have some general knowledge of the technology, have a clear understanding of how to operate the fog system, and be aware of the potential hazards related to the use of fog, and fog systems. This standard establishes guidelines for manufacturers to provide to the user the necessary information required for the safe and responsible use of fog equipment. This is a proposed revision of the existing E1.14. Comments are due by 25 September.

#### **BSR E1.25, Recommended Basic Conditions for Measuring the Photometric Output of Stage and Studio Luminaires by Measuring Illumination Levels Produced on a Planar Surface**

E1.25 describes the basic conditions for measuring the photometric output of stage and studio luminaires by a variety of testing methods that measure the illumination levels produced by the luminaires on a planar surface. The conditions are intended to be reasonably achievable for a person doing measurements on a stage, in a studio, or in a rental shop. This is a proposed reaffirmation of E1.25, which was last revised in 2012. Comments are due 25 September.

#### **BSR E1.36, Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls**

E1.36 is a model set of procedures that can be used by convention center and trade show exhibition hall staff to mitigate the risks perceived to be associated with the use of tungsten-halogen lamps and stage and studio luminaires in convention centers and trade show exhibition halls and to allow their use in a safe manner. This is a proposed revision of the standard first published in 2007. Comments are due 25 September.

#### **BSR E1.31, Entertainment Technology—Lightweight streaming protocol for transport of DMX512 using ACN**

E1.31, often called sACN, provides a very simple protocol that offers functionality comparable to proprietary DMX512 over Ethernet protocols while being compatible with the ANSI E1.17 suite of protocols. The standard is being revised, limited to the addition of IPv6 compatibility and the correction of errors. Input on additional features is not being sought at this time. Comments are due 2 October.

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### **ANSI/ESTA E1.50-1 Approved and Published**

On Monday 14 August, ANSI's Board of Standards Review approved E1.50-1 — 2017, Requirements for the Structural Support of Temporary LED, Video & Display Systems. It was published the same day, and is now available at [http://tsp.esta.org/tsp/documents/published\\_docs.php](http://tsp.esta.org/tsp/documents/published_docs.php) for download at no cost, thanks to the sponsorship of Prosight Specialty Insurance. It also may be purchased from ANSI (<https://webstore.ansi.org/>) and IHS (<https://global.ihs.com/>) for the list price of \$40.00.

ANSI E1.50-1 covers the support of temporary installations of large format modular display systems, LED, video and other self-illuminating display structures not otherwise addressed by existing standards. The scope of this standard includes planning and site preparedness, assembly and erection, suspension and safety of components, special access requirements, use, and dismantling of these systems.

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## **AES Issues Call for Comment on Media Network Directory Requirements**

The Audio Engineering Society standards committee has issued a call for comment on the draft technical document "Media Network Directories Requirements." From this document (which also addresses directory-related services) and the comments received, the AES task group on AES-X238, media network directory architecture (task group SC-02-12-N), will develop a set of requirements for media network directory standards that will work for present and future media network applications. Interested parties are encouraged to submit comments, proposed additions or changes, and responses to the specific questions it poses.

Media network directories are application-layer mechanisms that collect, store, and disseminate information about devices, application services, and other elements of media networks. They are used for connection management, network supervision, and other purposes. The standard that will result from this document will be aimed at directory protocols that specify:

- Registration, query, and administration protocols
- Security mechanisms
- Directory data model
- Query language and related semantics
- Scalability strategies by defining both peer-to-peer and server-supported modes

Although directories are used by connection management mechanisms, such mechanisms are not addressed in this document. In this context, "connection management" means the protocols and processes in a media network by which signal flows are set up, monitored, and taken down.

Copies of the document may be obtained from the AES Standards web site at [www.aes.org/standards/comments/cfc-aes-X238-170725.cfm](http://www.aes.org/standards/comments/cfc-aes-X238-170725.cfm). Responses should be submitted by 30 September 2017 to ensure that they may be considered by the task group in advance of and during their meeting at the Audio Engineering Society fall convention in New York. Interested individuals are encouraged to join the SC-02-12-N task group and, if possible, to attend the meeting at the Audio Engineering Society fall convention in New York. Attendance at the meeting is not required in order to join the task group.

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## **ANSI Seeks Comments on Proposed ISO Technical Committee on Ageing Societies**

The International Organization for Standardization (ISO) has circulated a proposal for a new ISO Technical Committee on Ageing Societies. As the US member body to ISO, the American National Standards Institute invites all relevant and interested US stakeholders to submit comments on the proposal by the end of the business day on Thursday, 15 September 2017.

Submitted by BSI, the proposal details that an ISO TC on Ageing Societies would focus on work that promotes lifelong support and quality of life in aging populations. It would take a holistic approach in addressing services and products that can help manage the advancement of aging societies, and would assess where innovation and technology require standards to support this demographic. An objective of this work is to enable people to remain independent throughout their life with a sense of value and contribution to their communities.

All interested US parties are invited to review the proposal (<http://estalink.us/dle29>), which includes a proposed work plan as well as information on how it may relate to existing international standardization work and relevant stakeholders and organizations. A related gap analysis spreadsheet (<http://estalink.us/ei3oc>) from the ISO Technical Management Board (TMB) Strategic Advisory Group (SAG) is also available for review.

ANSI has scheduled a Webex call to discuss this proposal on Tuesday, August 29, at 1 pm ET. All interested US stakeholders are invited to join the call (1.866.469.3239; WebEx meeting number/access code: 735 667 728; password: bQPpPW8).

US stakeholders are asked to submit comments to Steve Cornish, ANSI senior director of international policy ([scornish@ansi.org](mailto:scornish@ansi.org)) by close of business on 15 September 2017. Non-US stakeholders should respond through their ISO representatives.

## **ANSI Legal Issues Forum: Patent Policies and Licensing Assurances**

The American National Standards Institute will hold its annual Legal Issues Forum this year with the theme “Patent Policies and Licensing Assurances,” from 12:30 to 16:30 on Wednesday, 18 October 2017, at the FHI 360 Conference Center, 1825 Connecticut Avenue, NW, in Washington, DC. The event is part of [World Standards Week](#), a series of meetings and celebrations hosted annually by ANSI, coordinator of the U.S. voluntary standardization system.

The event will explore patent policies and the licensing assurances received by standards developing organizations. Because standards may include technology that is the subject of patents, many standards organizations adopt patent policies that seek to balance the rights of patent holders (to be fairly compensated for the use of their patented technology) with the rights of implementers of the standard (to reasonably access essential technology). For their part, SDOs must develop policies that ensure that the proper balance is struck. While SDO patent policies vary widely, ANSI achieves a balance by requiring accredited SDOs to receive an assurance – sometimes called a Letter of Assurance (LoA) – from the holder of an essential patent claim that it will license its patent on reasonable and nondiscriminatory (RAND) terms to applicants desiring to utilize the license for the purpose of implementing the standard. Panelists at the 2017 Legal Issues Forum will address how SDOs acquire LoAs, the essential elements of a LoA, how SDOs know if the LoA it has received complies with its own (or ANSI’s) patent policy, and what an SDO does with a LoA once it is received. For more information on this topic, see the [ANSI Patent Policy](#), [ANSI Patent Policy Guidelines](#), and [ANSI Patent Letter of Assurance Database](#).

ANSI has applied to offer Continuing Legal Education (CLE) credits for this conference. CLE is professional education for attorneys following their admission to the bar. Should ANSI be approved, the Institute will issue another announcement and advise all registrants, so that they may take advantage of the CLE credits as appropriate.

The draft agenda and registration details are available on the Legal Issues Forum event webpage at [https://www.ansi.org/meetings\\_events/wsw17/Legal-Issues-Forum?menuid=8](https://www.ansi.org/meetings_events/wsw17/Legal-Issues-Forum?menuid=8). The annual event is \$249 for ANSI members and \$350 for non-members.

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## **FCC Extends Comment Deadline a Little**

On August 11, the FCC’s Wireline Competition Bureau extended the deadline for filing reply comments in response to the Restoring Internet Freedom Notice of Proposed Rulemaking from 16 August to 30 August 2017. This two-week extension was in answer to a request filed August 1 by Public Knowledge, Access Now, the American Civil Liberties Union, the Computer & Communications Industry Association, Consumers Union, the Electronic Frontier Foundation, Engine Advocacy, the National Consumer Law Center on behalf of its low-income clients, the World Wide Web Foundation, and the Writers Guide of America West asking for an eight-week extension of the reply comment deadline in this proceeding. This request was opposed by CTIA, NCTA, and US Telecom, who argued that the Commission should deny the motion or limit an extension to no longer than 10 days. They also claimed that “over seven million of the comments filed between July 3 and August 4, 2017 appear to be entirely fraudulent.” The FCC has granted a two-week extension, giving people until the end of August to file further comments on “Restoring Internet Freedom.”

The official Restoring Internet Freedom Notice of Proposed Rulemaking is available at The notice of proposed rulemaking is at <https://www.fcc.gov/document/restoring-internet-freedom-notice-proposed-rulemaking>. It proposes to impose a “light-touch regulatory framework” on the Internet by classifying broadband Internet access service as an information service, not as a public utility. The notice of the reply deadline extension is available at <https://www.fcc.gov/document/fcc-extends-restoring-internet-freedom-reply-deadline-aug-30>.

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## **OSHA Revises Whistleblower Online Complaint Form**

The Occupational Safety and Health Administration recently revised its [online whistleblower complaint form](https://www.osha.gov/whistleblower/WBComplaint.html) (<https://www.osha.gov/whistleblower/WBComplaint.html>) to help users file a complaint with the appropriate

agency. The form provides workers with another option for submitting retaliation complaints to the U.S. Department of Labor's OSHA.

The updated form guides individuals as they file a complaint through the process, providing essential questions at the beginning so they can better understand and exercise their rights under relevant laws. One significant improvement to the system includes pop-up boxes with information about various agencies for individuals who indicate that they have engaged in protected activity that may be addressed by an agency other than OSHA. The new form is available in English and Spanish. Of course, in addition to the online form, workers can file complaints by fax, mail, or hand-delivery; contacting the agency at 1-800-321-6742; or calling an OSHA regional or area office.

OSHA enforces the whistleblower provisions of 22 statutes protecting employees who report violations of various securities laws, trucking, airline, nuclear power, pipeline, environmental, rail, public transportation, workplace safety and health, and consumer protection laws. Detailed information on employee whistleblower rights, including fact sheets, is available online at <http://www.whistleblowers.gov/>.

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## WTO Technical Barrier to Trade Notification

The U.S. Department of Commerce's service, Notify U.S., recently has announced a WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with the TBT, you can protest through your representative to the WTO. See "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/enterprise/tbt/> for advice on filing objections.

## Singapore Notification SGP/38

**Date issued:** 9 August 2017

**Agency responsible:** National Environment Agency (NEA)

**National inquiry point:** Standards, Productivity and Innovation Board (SPRING) Singapore

**Products covered:** HS 8501.51, HS 8501.52 and HS 8501.53 with respect to: Single speed, three-phase 50 Hz induction motors that have: . 2, 4 and 6 poles; . rated output power from 0.75 kW to 375 kW; . rated voltage up to 1,000V; and . rated on the basis of continuous duty operation The following motors will be excluded: . Motors specifically designed to operate: . where ambient air temperatures exceed 60°C; . in maximum operating temperature above 400°C; . where ambient air temperatures are less than -30°C for any motor or less than 0°C for a motor with water cooling; . where the water coolant temperature at the inlet to a product is less than 0°C or exceeding 32°C; or . in potentially explosive atmospheres; . Motors specified to operate wholly immersed in a liquid; . Multi-speed motors; . Brake motors; . Torque motors; . Motors that are completely integrated into a product where the motors' energy performance cannot be tested independently from the product (e.g. chiller compressor); . Motors that are supplied exclusively to third parties who will incorporate the motors into equipment that will be exported to another country; and . Motors exempted by the Director-General of Environmental Protection of the National Environment Agency. (HS: 85015).

**Title:** Energy Conservation Act (in English); Energy Conservation (Registrable Goods) Order 2013 (in English); Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulations 2013 (in English); Energy Conservation (Composition of Offences) Regulations 2013 (in English) (the above documents are available online at <http://statutes.agc.gov.sg/>)

**Description of content:** Minimum Energy Performance Standards (MEPS) for motors set at IE3\* (Premium Efficiency) class will be effective from 1 October 2018. Only motors that meet the prescribed MEPS requirements will be permitted to be sold in Singapore. MEPS for motors helps to prevent consumers from becoming locked into high energy consumption and costs over the lifespan of the motor.

The Energy Conservation (Registrable Goods) Order 2013, Energy Conservation (Energy Labelling and Minimum Performance Standards for Registrable Goods) Regulations 2013 and the Energy Conservation (Composition of Offences) Regulations 2013 will be amended to introduce MEPS for motors.

The energy performance of motors must be tested and reported in accordance with the IEC 60034-2-1 (Method 2-1-1b) or the IEEE 112 (Method B) test standards. Information on the IE efficiency class, year of manufacture, and nominal efficiency at 100%, 75%, and 50% rated loads must be displayed on the motor.

[1] The International Electrotechnical Commission (IEC) categorises motors into four energy efficiency classes in accordance to IEC 60034-30-1:2014, namely Standard (IE1), High (IE2), Premium (IE3) and Super Premium (IE4) .

\*The International Electrotechnical Commission (IEC) categorises motors into four energy efficiency classes in accordance to IEC 60034-30-1:2014, namely Standard (IE1), High (IE2), Premium (IE3) and Super Premium (IE4)

**Objective and rationale:** Objective: For the purposes of environmental protection and conservation.

Rationale: Motors of higher IE class consume less energy and result in lower emissions of greenhouse gases. Consumers also reap life cycle cost savings by switching to IE3 motors due to the reduction in energy use over the lifespan of the motors.

**Relevant documents:** Notice will be published in the Republic of Singapore's Government Gazette when adopted.

**Proposed date of adoption:** Not given by country

**Proposed date of entry into force:** 1 October 2018

**Final date for comments:** 8 October 2017

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## ANSI Public Review Announcements

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at [psa@ansi.org](mailto:psa@ansi.org).

### Due 25 September 2017

#### **BSR/ASHRAE/IES Addendum b to BSR/ASHRAE Standard 202-201x, Commissioning Process for Buildings and Systems** (addenda to ANSI/ASHRAE/IES Standard 202-2013)

The intent of the changes presented in this addendum is not to change the basic commissioning process or requirements. Some definitions are updated. Abbreviations are defined and standardized throughout the standard including the use of the commissioning provider (CxP) term. Clarifications are added in some sections to answer questions and field conditions experienced since the standard was first published.

Single copy price: \$35.00

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

Send comments to: <http://www.ashrae.org/standards-research>—technology/public-review-drafts

#### **BSR/AWS B2.1-1-027-201x, Standard Welding Procedure Specification (SWPS) for Self-Shielded Flux-Cored Arc Welding of Carbon Steel (M-1 or P-1, Groups 1 and 2), 1/8 inch [3 mm] through 1/2 inch [13 mm] Thick, E71T-11, in the As-Welded Condition, Primarily Plate and Structural Applications** (revision of ANSI/AWS B2.1-1-027-2011)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1/2 inch [13 mm], using selfshielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$128.00

Order from and send comments to: Jennifer Rosario, [jrosario@aws.org](mailto:jrosario@aws.org)

#### **BSR/PMI-XX-00X-201X, The Standard for Business Analysis** (new standard)

The Business Analysis standard developed by PMI will be a basic reference and the global standard for the business analysis profession. The standard will identify and describe the subset of the body of knowledge for business analysis that is recognized as good practice. The standard is planned to help practitioners and organizations to mature their practices, drive continuous improvement and to integrate these practices with existing project management practices.

Single copy price: Free

Order from and send comments to: Lorna Scheel, [lorna.scheel@pmi.org](mailto:lorna.scheel@pmi.org)

## Due 2 October 2017

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

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

Single copy price: \$35.00

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

Send comments to: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

### **BSR/CTA 2060-201x, Interoperability Standards Series for Consumer EEG Data - File Storage** (new standard)

The purpose of this standard is to adopt a file format for storing several data streams in a single, self-describing, file, with each stream potentially sampled at a different rate, or having a different type (e.g., real numbers and strings).

Single copy price: \$81.00

Order from and send comments to: Veronica Lancaster, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)

### **BSR C18.4M-201x, Standard for Portable Cells and Batteries—Environmental** (revision of ANSI C18.4M-2015)

- Raise awareness that provisions in battery standards can affect the environment in negative and positive ways;
- Outline the relationship between battery standards and the environment;
- Help avoid provisions in battery standards that may lead to adverse environmental effects;
- Emphasize that addressing environmental aspects in battery standards is a complex process which requires a balance in competing priorities; and
- Recommend the use of recognized scientific methodologies when developing battery standards that incorporate environmental aspects.

Single copy price: \$88.00

Order from: <http://www.nema.org/Standards/About-Standards/Pages/Howto-Purchase-a-NEMA-Standard.aspx>

Send comments to: [khaled.masri@nema.org](mailto:khaled.masri@nema.org)

### **BSR/NISO Z39.102-201X, STS: Standard Tag Suite** (new standard)

The Standards Tag Suite (STS) provides a common XML format that developers, publishers, and distributors of standards, including national standards bodies, regional and international standards bodies, and standards development organizations, can use to publish and exchange fulltext content and metadata of standards. STS is based on ANSI/NISO Z39.96 (JATS). Structures are provided to encode both the normative and nonnormative content of standards, adoptions of standards, and standards-like documents.

Single copy price: \$45.00

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

Send comments to: [nisohq@niso.org](mailto:nisohq@niso.org)

## Due 10 October 2017

### **BSR/ASME B30.20-201x, Below the Hook Lifting Devices** (revision of ANSI/ASME B30.20-2013)

Volume B30.20 includes provisions that apply to the marking, construction, installation, inspection, testing, maintenance, and operation of below-thehook lifting devices, other than components addressed by other ASME B30 volumes or other standards, used for attaching loads to a hoist. The requirements in this volume also apply to clamps used for positioning and anchoring. The devices are arranged in six chapters as follows:

- Chapter 20-1: Structural and Mechanical Lifting Devices
- Chapter 20-2: Vacuum Lifting Devices
- Chapter 20-3: Close Proximity Operated Lifting Magnets
- Chapter 20-4: Remotely Operated Lifting Magnets
- Chapter 20-5: Scrap and Material-Handling Grapples
- Chapter 20-6: Clamps

Single copy price: Free

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

Send comments to: Kathryn Hyam, [hyamk@asme.org](mailto:hyamk@asme.org)

**BSR/UL 486C-201x, Standard for Safety for Splicing Wire Connectors** (revision of ANSI/UL 486C-2016)

This Standard applies to single-polarity, hand-, or tool-applied splicing wire and cable connectors intended for use with all alloys of copper, aluminum conductors, or copper-clad aluminum conductors, or all three, in accordance with the Canadian Electrical Code Part I, C22.1, in Canada; the National Electrical Code, NFPA-70, in the United States of America; or the Standard for Electrical Installations, NOM-001-SEDE, in Mexico.

Single copy price: Contact the UL Sales Site for pricing and delivery options

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

Send comments to: Mitchell Gold, [Mitchell.Gold@ul.com](mailto:Mitchell.Gold@ul.com)

**Due 17 October 2017**

**INCITS/ISO/IEC 9075-1:2016 [201x], Information technology – Database languages - SQL - Part 1: Framework (SQL/Framework)** (identical national adoption of ISO/IEC 9075-1:2016 and revision of INCITS/ISO/IEC 9075-1:2011 [2012])

Describes the conceptual framework used in other parts of ISO/IEC 9075 to specify the grammar of SQL and the result of processing statements in that language by an SQL-implementation.

Single copy price: \$209.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-2:2016 [201x], Information technology – Database languages - SQL - Part 2: Foundation (SQL/Foundation)** (identical national adoption of ISO/IEC 9075-2:2016 and revision of INCITS/ISO/IEC 9075-2:2011 [2012])

Defines the data structures and basic operations on SQL-data. It provides functional capabilities for creating, accessing, maintaining, controlling, and protecting SQL-data.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-4:2016 [201x], Information technology – Database languages - SQL - Part 4: Persistent stored modules (SQL/PSM)** (identical national adoption of ISO/IEC 9075-4:2016] and revision of INCITS/ISO/IEC 9075-4:2011 [2012])

Specifies the syntax and semantics of a database language for declaring and maintaining persistent database language routines in SQL-server modules. The database language for <externally-invoked procedure>s and <SQL-invoked routine>s includes: the specification of statements to direct the flow of control, the assignment of the result of expressions to variables and parameters. The specification of condition handlers that allow SQLinvoked routines to deal with various conditions that arise during their execution.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-9:2016 [201x], Information technology – Database languages - SQL - Part 9: Management of External Data (SQL/MED)** (identical national adoption of ISO/IEC 9075-9:2016 and revision of INCITS/ISO/IEC 9075-9:2008 [R2013])

Defines extensions to Database Language SQL to support management of external data through the use of foreign-data wrappers and datalink types.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-10:2016 [201x], Information technology – Database languages - SQL - Part 10: Object language bindings (SQL/OLB)** (identical national adoption of ISO/IEC 9075-10:2016 and revision of INCITS/ISO/IEC 9075-10:2008 [R2013])

Specifies embedded SQL for the programming languages: Ada, C, COBOL, Fortran, MUMPS, Pascal, and PL/I. ISO/IEC 9075-10:2016 defines similar features of Database language SQL that support embedding of SQLstatements into programs written in the Java programming language (Java is a registered trademark of Sun Microsystems, Inc.). The embedding of SQL into Java is commonly known as "SQLJ". This part of ISO/IEC 9075

specifies the syntax and semantics of SQLJ, as well as mechanisms to ensure binary portability of resulting SQLJ applications. In addition, it specifies a number of Java packages and their contained classes (including methods).

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-11:2016 [201x], Information technology – Database languages - SQL - Part 11: Information and definition schemas (SQL/Schemata)** (identical national adoption of ISO/IEC 9075-11:2016 and revision of INCITS/ISO/IEC 9075-11:2011 [2012])

Specifies an Information Schema and a Definition Schema that describes, the structure and integrity constraints of SQL-data, the security and authorization specifications relating to SQL-data, the features and subfeatures of ISO/IEC 9075, and the support that each of these as in an SQL-implementation, the SQL-implementation information and sizing items of ISO/IEC 9075 and the values supported by an SQL-implementation.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-13:2016 [201x], Information technology – Database languages - SQL - Part 13: SQL Routines and types using the Java™ programming language (SQL/JRT)** (identical national adoption of ISO/IEC 9075-13:2016 and revision of INCITS/ISO/IEC 9075-13:2008 [R2013])

Specifies the ability to invoke static methods written in the Java™ programming language as SQL-invoked routines and to use classes defined in the Java programming language as SQL structured user-defined types.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 9075-14:2016 [201x], Information technology – Database languages - SQL - Part 14: XML-Related Specifications (SQL/XML)**(identical national adoption of ISO/IEC 9075-14:2016 and revision of INCITS/ISO 9075 -14:2011 [2012] and INCITS/ISO/IEC 9075-14:2011/Cor 1:2013[2014])

Defines ways in which Database Language SQL can be used in conjunction with XML.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 13249-1:2016 [201x], Information technology – Database languages - SQL multimedia and application packages - Part 1: Framework** (identical national adoption of ISO/IEC 13249-1:2016 and revision of INCITS/ISO/IEC 13249-1:2007 [R2012])

Defines a number of packages of generic data types and table structures common to various kinds of data used in multimedia and application areas, to enable that data to be stored and manipulated in an SQL database. The package in each subject area is defined as a part of ISO/IEC 13249. This part defines those concepts, notations and conventions that are common to two or more other parts of ISO/IEC 13249. It describes the way parts of ISO/IEC 9075 are used to define the user-defined types and their behavior and views as a representation of table structures appropriate to each subject area.

Single copy price: \$103.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 13249-3:2016 [201x], Information technology – Database languages - SQL multimedia and application packages - Part 3: Spatial** (identical national adoption of ISO/IEC 13249-3:2016 and revision of INCITS/ISO/IEC 13249-3:2011 [2012])

Defines concepts specific to this part of ISO/IEC 13249 and defines spatial user-defined types and their associated routines.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 19776-1:2015 [201x], Information technology – Computer graphics, image processing and environmental data representation -Extensible 3D (X3D) encodings - Part 1: Extensible Markup Language (XML) encoding** (identical national adoption of ISO/IEC 19776-1:2015 and revision of INCITS/ISO/IEC 19776-1:2009 [2012])

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

Single copy price: \$185.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 27033-1:2015 [201x], Information technology – Security techniques - Network security - Part 1: Overview and concepts** (identical national adoption of ISO/IEC 27033-1:2015 and revision of INCITS/ISO/IEC 27033-1:2009 [2012])

Provides an overview of network security and related definitions. It defines and describes the concepts associated with, and provides management guidance on, network security. (Network security applies to the security of devices, security of management activities related to the devices, applications/services, and end-users, in addition to security of the information being transferred across the communication links.)

Single copy price: \$185.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 10646:2014 [201x], Information technology – Universal Coded Character Set (UCS)**

(identical national adoption of ISO/IEC 10646:2014 and revision of INCITS/ISO/IEC 10646:2012 [2012])

Specifies the Universal Character Set (UCS). It is applicable to the representation, transmission, interchange, processing, storage, input, and presentation of the written form of the languages of the world as well as additional symbols. It covers 120,585 characters from the world's scripts.

Single copy price: \$232.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 14651:2016 [201x], Information technology – International string ordering and comparison - Method for comparing characterstrings and description of the common template tailorable ordering** (identical national adoption of ISO/IEC 14651:2016 and revision of INCITS/ISO/IEC 14651:2011 [2012])

Defines the following: A reference comparison method. This method is applicable to two-character strings to determine their collating order in a sorted list. The method can be applied to strings containing characters from the full repertoire of ISO/IEC 10646. This method is also applicable to subsets of that repertoire, such as those of the different ISO/IEC 8-bit standard character sets, or any other character set, standardized or not, to produce ordering results valid (after tailoring) for a given set of languages for each script. This method uses collation tables derived either from the Common Template Table defined in this International Standard or from one of its tailorings. This method provides a reference format. The format is described using the Backus-Naur Form (BNF). This format is used to describe the Common Template Table. The format is used normatively within this International Standard.

Single copy price: \$185.00

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

Send comments to: [comments@standards.incits.org](mailto:comments@standards.incits.org)

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## Australia/New Zealand Public Review Announcements

Standards Australia has announced a draft standards for Australia and New Zealand that may be of interest to *Standards News* readers. Standards Australia can be accessed at <http://www.standards.org.au/Pages/default.aspx>. The draft changes are available to anyone after creating a free account.

## Due 19 October 2017

DR AS/NZS 2980:2017, Qualification of welders for fusion welding of steels—Additional requirements for Australia and New Zealand (revision of AS/NZS 2980:2007)

This standard specifies additional requirements to be used in conjunction with AS/NZS ISO 9606.1 for qualification testing of welders for fusion welding of steels, which are for certain unique Australian and New Zealand conditions. For all other situations, the requirements of AS/NZS ISO 9606.1 apply. This standard applies to welding processes including fusion-welding processes that are designated as manual and mechanized welding. It does not cover fully automated welding processes. This standard does not deal with the certification of welders.

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## CSA Public Review Announcements

The CSA Group has announced a draft document for public review that might be of interest to *Standards Watch* readers. To participate in the public review please visit: <http://publicreview.csa.ca/>.

### Due 15 September 2017

#### **C22.2 NO. 29 Panelboards and Enclosed Panelboards**

This Standard applies to panelboards and enclosed panelboards, rated 600 V and less, for use in nonhazardous locations in accordance with the Canadian Electrical Code, Part I, to provide overcurrent protection for a number of circuits.

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## DIN Public Review Announcements

The Deutsches Institut für Normung (DIN) has announced a draft document possibly of interest to *Standards Watch* readers that is open for comment through 17 May 2017. After you register with DIN at <http://www.entwuerfe.din.de/>, you may purchase and comment on DIN draft standards.

### Due 25 October 2017

#### **DIN 15922, Veranstaltungstechnik - Befestigungsstellen und Verbindungselemente für Arbeitsmittel** (Entertainment technology - Fastening points and fixtures for work equipment)

This draft standard applies to fastening points and connecting elements for production equipment such as spotlights, automated luminaires, loudspeakers, monitors, and so on with a weight, including accessories, of not more than 60 kg. Mounting devices for photography luminaires and ENG lights according to DIN VDE 0711-217 with a weight, including accessories, not more than 7.5 kg also are part of this draft standard. The draft standard will be published 25 August 2017. The purchase price starts at 81 €.

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## New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, or (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

#### **BSR E1.1-201x, Entertainment Technology - Construction and Use of Wire Rope Ladders** (revision of ANSI E1.1-2012)

This standard describes the construction and use of wire rope ladders in the entertainment industry in order to promote worker safety. The entertainment industry includes, but is not strictly limited to, musical productions, live concerts, live theater, film production, video production, corporate events, and trade shows. Wire rope ladders are used where ladders with rigid rails are impractical to use or would pose a greater danger. The standard is being opened for revision to update and incorporate referenced standards.

Contact: Karl Ruling or Erin Grabe, [standards@esta.org](mailto:standards@esta.org)

#### **BSR E1.2-201x, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers** (revision of ANSI E1.2-2012)

E1.2 describes the design, manufacture, and use of aluminum trusses, towers, and associated aluminum

structural components, such as head blocks, sleeve blocks, and bases, in the live entertainment industry. It also offers advice on applying and removing coatings and painted finishes.

Contact: Karl Ruling or Erin Grabe, [standards@esta.org](mailto:standards@esta.org)

**BSR E1.8-201x, Entertainment Technology - Loudspeaker Enclosures Intended for Overhead Suspension - Classification, Manufacture and Structural Testing** (revision of ANSI E1.8-2012)

This standard addresses the requirements for speaker enclosures intended for overhead suspension. It addresses only the structural characteristics relating to the suspension of the enclosure. These include enclosure construction, component part security, enclosure suspension hardware, manufacturing control systems, and structural testing. The standard is being opened to clarify the requirements of the standard and to revisit them in light of current manufacturing technology.

Contact: Karl Ruling or Erin Grabe, [standards@esta.org](mailto:standards@esta.org)

**BSR E1.54-201x, ESTA Standard for Color Communication in Entertainment Lighting** (revision of ANSI E1.54-2015)

The standard shall specify a standardized color space, and shall define the locations of the RGB primaries and the White Point. The purpose of this standard is to facilitate the communications between lighting controllers and color-changing luminaires by specifying a standardized way of specifying color. The method is generic and is neither manufacturer-specific nor color-technology-specific. Revisions are needed to make the standard more useful and to change the name to match our SDO's name.

Contact: Karl Ruling or Erin Grabe, [standards@esta.org](mailto:standards@esta.org)

**BSR/IEEE 1872.2-201x, Standard for Autonomous Robotics (AuR) Ontology** (new standard)

This standard is a logical extension to IEEE 1872-2015 Standard for Ontologies for Robotics and Automation. The standard extends the CORA ontology by defining additional ontologies appropriate for Autonomous Robotics (AuR) relating to: (1) The core design patterns specific to AuR in common R&A sub-domains; (2) General ontological concepts and domain-specific axioms for AuR; and (3) General use cases and/or case studies for AuR.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 2510-201x, Standard for Establishing Quality of Data Sensor Parameters in the Internet of Things Environment** (new standard)

This standard defines quality measures, controls, parameters and definitions for sensor data related to Internet of Things (IoT) implementations.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 2900.1-201x, Standard for Smart Home Security: Taxonomy and Definitions** (new standard)

This standard specifies the taxonomy and definitions for smart home security systems and services. Home security is among the fastest growing Smart Home verticals, orchestrated by a home artificial intelligence system that monitors, learns, and improves its performance over time. This project is needed to reduce the emerging confusion in many products that have similar or misleading names but significantly different functions or performance, facilitate cross-domain discussions and collaborations, and help end-users choose the right systems and services.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 2900-201x, Standard for Smart Home Security: Overview and Architecture** (new standard)

This standard defines an architectural framework for smart home security systems and services. This standard leverages existing applicable standards.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 7008-201x, Standard for Ethically Driven Nudging for Robotic, Intelligent and Autonomous Systems** (new standard)

"Nudges" as exhibited by robotic, intelligent, or autonomous systems are defined as overt or hidden suggestions or manipulations designed to influence the behavior or emotions of a user. This standard establishes a delineation of typical nudges (currently in use or that could be created). It contains concepts, functions and benefits necessary to establish and ensure ethically driven methodologies for the design of the robotic,

intelligent, and autonomous systems that incorporate them. Ethics is the new frontier for the development of products, systems, and services in the coming decades. Considering Ethics during the design of Robotic, Intelligent, and Autonomous Systems is an urgent task. Day by day, new machines and systems are being developed to help and assist humans in a myriad of activities. To guarantee their acceptability and their alignment with what their stakeholders expect it is essential to consider applied ethics in the broadest sense. Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 7009-201x, Standard for Fail-Safe Design of Autonomous and Semi-Autonomous Systems** (new standard)

This standard establishes a practical, technical baseline of specific methodologies and tools for the development, implementation, and use of effective fail-safe mechanisms in autonomous and semi-autonomous systems. The standard includes (but is not limited to): clear procedures for measuring, testing, and certifying a system's ability to fail safely on a scale from weak to strong, and instructions for improvement in the case of unsatisfactory performance. The standard serves as the basis for developers, as well as users and regulators, to design fail-safe mechanisms in a robust, transparent, and accountable manner.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 7010-201x, Wellbeing Metrics Standard for Ethical Artificial Intelligence and Autonomous Systems** (new standard)

This standard establishes wellbeing metrics relating to human factors directly affected by intelligent and autonomous systems and establishes a baseline for the types of objective and subjective data these systems should analyze and include (in their programming and functioning) to proactively increase human wellbeing. While issues of job displacement or Universal Basic Income are often discussed, the widespread effect of these systems on human agency and emotion is diverse in scope with a lack of unifying metrics to provide clarity on further development that could best increase individual or societal wellbeing. This standard will begin to provide this unifying, cross-sector clarity designed to increase innovation for the intelligent and autonomous marketplace.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

**BSR/IEEE 42030-201x, Standard for Systems and Software Engineering - Architecture Evaluation** (new standard)

This standard specifies the means by which architecture evaluations can be organized and recorded. Architecture evaluations are used to: assess the quality of architectures, validate that architectures address the concerns of stakeholders, and support decision making where architectures are involved. The project will be closely harmonized with ISO/IEC/IEEE 42010:2011, and (draft) P42020.

Contact: Lisa Weisser, [l.weisser@ieee.org](mailto:l.weisser@ieee.org)

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

Establishes minimum requirements for qualification and certification of the electrical testing technician. Also details the minimum training and experience requirements for electrical testing technicians and provides criteria for documenting qualifications and certification. Also outlines the minimum qualifications for an independent and impartial certifying body to certify electrical testing technicians.

Contact: Kristen Wicks, [kwicks@netaworld.org](mailto:kwicks@netaworld.org)

**BSR/NFPA 78-201x, Guide on Electrical Inspections** (new standard)

This guide covers minimum criteria to aid in organizing and conducting electrical inspections, including administration, plans examination, and field inspection, for new electrical installations and modifications to existing electrical installations in conformance with the requirements of recognized codes and standards, product certification requirements, and policies adopted by the authority having jurisdiction (AHJ).

Contact: Dawn Michele Bellis, [dbellis@nfpa.org](mailto:dbellis@nfpa.org)

**BSR/NFPA 1078-201x, Standard for Electrical Inspector Professional Qualifications** (new standard)

This standard identifies the minimum job performance requirements (JPRs) for electrical inspectors.

Contact: Dawn Michele Bellis, [dbellis@nfpa.org](mailto:dbellis@nfpa.org)

**BSR/UL 62040-1-201x, Standard for Safety for Uninterruptible power systems (UPS) - Part 1: Safety requirements** (national adoption with modifications of IEC 62040-1, Uninterruptible power systems (UPS) - Part 1: Safety requirements)

UL 62040-1 covers movable, stationary, fixed or built-in UPS for use in low-voltage distribution systems that are intended to be installed in an area accessible by an ordinary person or in a restricted access area, and that delivers fixed-frequency AC output voltage with port voltages not exceeding 1,000 V AC or 1,500 V DC and that includes an energy storage device. It applies to pluggable and to permanently connected UPS, whether consisting of a system of interconnected units or of independent units, subject to installing, operating, and maintaining the UPS in the manner prescribed by the manufacturer.

Contact: Jonette Herman, [Jonette.A.Herman@ul.com](mailto:Jonette.A.Herman@ul.com)

**BSR/UL 62477-1-201X, Safety requirements for power electronic converter systems and equipment - Part 1: General** (national adoption with modifications of IEC 62477-1, Safety requirements for power electronic converter systems and equipment - Part 1: General)

UL 62477-1 covers Power Electronic Converter Systems (PECS) and equipment and is to be used as a general reference standard for UL 62040-1, Uninterruptible power systems (UPS) - Part 1: Safety requirements. The scope excludes equipment intended for motor control and adjustable-speed electric power drive systems (PDS). This general reference standard provides minimum safety requirements for power electronic converter systems and equipment.

Contact: Jonette Herman, [Jonette.A.Herman@ul.com](mailto:Jonette.A.Herman@ul.com)

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## Final Actions on American National Standards

The documents listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted.

**ANSI E1.50-1 - 2017**, Entertainment Technology - Requirements for the Structural Support of Temporary LED, Video & Display Systems (new standard): 14 August 2017

**ANSI/ASHRAE/ICC/USGBC/IES 189.1be-2017**, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 3 August 2017

**ANSI/ASHRAE/IES 100b-2017**, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2015): 24 July 2017

**ANSI/ASTM E84-2017**, Test Method for Surface Burning Characteristics of Building Materials (revision of ANSI/ASTM E84 -2016): 1 August 2017

**ANSI/ASTM F2048-2009 (R2017)**, Practice for Reporting Slip Resistance Test Results (reaffirmation of ANSI/ASTM F2048-2000 (R2009)): 1 August 2017

**ANSI/ICEA S-75-381-2017/NEMA WC 58-2017**, Portable and Power Feeder Cables for Use in Mines and Similar Applications (revision and redesignation of ANSI ICEA S-75-381-2008/NEMA WC 58 -2008): 15 August 2017

**ANSI/IEEE 1695-2016**, Guide to Understanding, Diagnosing, and Mitigating Stray and Contact Voltage (new standard): 3 August 2017

**ANSI/NSF 426-2017**, Environmental Leadership and Corporate Social Responsibility Assessment of Servers (new standard): 7 August 2017

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## Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) or the International Organization for Standardization (ISO) are considering for approval. *Standards Watch* readers

interested in reviewing and commenting on the document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC documents should be sent to Charles T. Zegers at [czegers@ansi.org](mailto:czegers@ansi.org). Comments from US citizens regarding ISO documents should be sent to Karen Hughes at [isot@ansi.org](mailto:isot@ansi.org). Any prices, if shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is by due date then alphanumeric.

**ISO/DIS 7240-7**, Fire detection and alarm systems - Part 7: Smoke point detectors using scattered light, transmitted light or ionization, 2 September 2017, \$134.00

**ISO/DIS 10303-57**, Industrial automation systems and integration - Product data representation and exchange - Part 57: Integrated generic resource: Persistent identification of elements in procedural shape modelling, 2 September 2017, \$29.00

**ISO/DIS 4007**, Personal protective equipment - Eye and face protection – Vocabulary, 3 September 2017, \$146.00

**23E/1035/FDIS, IEC 60755 ED1**: General Safety Requirements for Residual Current Operated Protective Devices - Group Safety Publication, 22 September 2017

**34/411/NP, PNW 34-411**: Digital addressable lighting interface -Part 105: Particular requirements for control gear - Firmware Transfer, 29 September 2017

**44/794/DTR, IEC TR 62061-2 ED1**: Assignment of a safety integrity requirement - Basic rationale, 29 September 2017

**65/678/CD, IEC TS 63069 ED1**: Industrial-process measurement, control and automation- Framework for functional safety and security, 29 September 2017

**18/1592/CD, IEC 60092-306 ED5**: Electrical installations in ships – Part 306: Equipment - Luminaries and lighting accessories, 2 October 2017

**18/1591/CD, IEC 60092-304 ED4**: Electrical installations in ships – Part 304: Equipment - Semiconductor convertors, 2 October 2017

**34/404/CDV, IEC 62386-224 ED1**: Digital addressable lighting interface - Part 224: Particular requirements for control gear - Nonreplaceable light source (device type 23), 2 October 2017

**34/409/CDV, IEC 62386-221 ED1**: Digital addressable lighting interface - Part 221: Particular requirements for control gear -Demand Response (device type 20), 2 October 2017

**77B/781/CD, IEC 61000-4-3 ED4**: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test, 2 October 2017

**ISO/DIS 14880-1**, Optics and photonics - Microlens arrays – Part1: Vocabulary, 28 October 2017, \$77.00

**ISO/DIS 21056**, Ergonomics - Accessible design - Guidelines for designing tactile symbols and letters, 29 October 2017, \$58.00

**2/1868/CDV, IEC 60034-23 ED1**: Rotating electrical machines – Part 23: Repair, overhaul and reclamation, 3 November 2017

**23A/843/CDV, IEC 62275/AMD1 ED2**: Cable management systems -Cable ties for electrical installations, 3 November 2017

**100/2957/CDV, IEC 60268-21 ED1**: Sound system equipment -Loudspeakers - Acoustical (output based) measurements, 3 November 2017

**100/2969/CD, IEC 62942 ED1:** File format for professional transfer and exchange of digital audio data (TA 6), 3 November 2017

**100/2971/NP, PNW 100-2971:** LCD multi-screen display terminals -Part 1: Conceptual model, 3 November 2017

**100/2972/NP, PNW 100-2972:** LCD multi-screen display terminals -Part 2: Measuring methods, 3 November 2017

**106/411/CD, IEC 62209-2/AMD1 ED1:** Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz), 3 November 2017

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## Recently Published IEC & ISO Documents

Listed here are documents recently approved by the IEC and ISO. A list of standards resellers is available at <http://webstore.ansi.org/faq.aspx#resellers>.

**IEC 60445 Ed. 6.0 b:2017,** Basic and safety principles for man-machine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors, \$199.00

**S+ IEC 60445 Ed. 6.0 en:2017 (Redline version),** Basic and safety principles for man-machine interface, marking and identification -Identification of equipment terminals, conductor terminations and conductors, \$259.00

**IEC 61000-4-5 Amd.1 Ed. 3.0 b:2017,** Amendment 1 – Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test, \$23.00

**IEC 61000-4-5 Ed. 3.1 b:2017,** Electromagnetic compatibility (EMC) -Part 4-5: Testing and measurement techniques - Surge immunity test, \$469.00

**IEC 61784-3 Ed. 3.1 b:2017,** Industrial communication networks -Profiles - Part 3: Functional safety fieldbuses - General rulesand profile definitions, \$586.00

**IEC 61784-3 Amd.1 Ed. 3.0 b:2017,** Amendment 1 – Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses - General rules and profile definitions, \$82.00

**IEC 61937-9 Ed. 2.0 en:2017,** Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 9: Non-linear PCM bitstreams according to the MAT format, \$47.00

**IEC 61937-14 Ed. 1.0 en:2017,** Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 14: Nonlinear PCM bitstreams according to the AC-4 format, \$199.00

**ISO 6707-3:2017,** Buildings and civil engineering works - Vocabulary -Part 3: Sustainability terms, \$45.00

**ISO 7250-1:2017,** Basic human body measurements for technological design - Part 1: Body measurement definitions and landmarks, \$209.00

**ISO 12122-6:2017,** Timber structures - Determination of characteristic values - Part 6: Large components and assemblies, \$138.00

**ISO 13943:2017,** Fire safety - Vocabulary, \$45.00

**ISO 15928-4:2017,** Houses - Description of performance - Part 4: Fire safety, \$103.00

**ISO 18828-3:2017**, Industrial automation systems and integration Standardized procedures for production systems engineering – Part 3: Information flows in production planning processes, \$209.00

**ISO/TR 20526:2017**, Account-based ticketing - state of the art report, \$138.00

**ISO 21930:2017**, Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services, \$209.00

**ISO 29993:2017**, Learning services outside formal education – Service requirements, \$68.00

**ISO/IEC 23001-4:2017**, Information technology - MPEG systems technologies - Part 4: Codec configuration representation, \$232.00

**ISO/IEC 23008-1:2017**, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 1: MPEG media transport (MMT), \$232.00

**ISO/IEC 26558:2017**, Software and systems engineering – Methods and tools for variability modelling in software and systems product line, \$185.00

**ISO/IEC 26559:2017**, Software and systems engineering – Methods and tools for variability traceability in software and systems product line, \$162.00

**IEC 61000-4-12 Ed. 3.0 b:2017**, Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test, \$281.00

**S+ IEC 61000-4-12 Ed. 3.0 en:2017** (Redline version), Electromagnetic Compatibility (EMC) - Part 4-12: Testing and measurement techniques - Ring wave immunity test, \$366.00

**IEC 61400-25-1 Ed. 2.0 b:2017**, Wind energy generation systems - Part 25-1: Communications for monitoring and control of wind power plants - Overall description of principles and models, \$235.00

**S+ IEC 61400-25-1 Ed. 2.0 en:2017** (Redline version), Wind energy generation systems - Part 25-1: Communications for monitoring and control of wind power plants - Overall description of principles and models, \$305.00

**IEC 61937-10 Ed. 2.0 en:2017**, Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 10: Non linear PCM bitstreams according to the MPEG-4 audio lossless coding (ALS) format, \$117.00

**IEC 61937-3 Ed. 3.0 en:2017**, Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 3: Non linear PCM bitstreams according to the AC-3 and enhanced AC-3 formats, \$82.00

**IEC 61937-SER Ed. 1.0 b:2017**, Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - ALL PARTS, \$1178.00

**IEC 62481-1-1 Ed. 3.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 1-1: Architecture and protocols - Core architecture and protocols, \$410.00

**IEC 62481-1-3 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 1-3: Architectures and protocols - Cloud access, \$82.00

**IEC 62481-10 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 10: Low power mode, \$82.00

**IEC 62481-2 Ed. 3.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 2: Media format profiles, \$410.00

**IEC 62481-3 Ed. 3.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 3: DLNA link protection, \$352.00

**IEC 62481-4 Ed. 2.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 4: DRM interoperability solutions, \$199.00

**IEC 62481-6-1 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 6-1: Remote User Interface - HTML5, \$352.00

**IEC 62481-6-2 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 6-2: Remote user interface - RVU, \$117.00

**IEC 62481-7 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 7: Authentication, \$117.00

**IEC 62481-8 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 8: Diagnostics, \$164.00

**IEC 62481-9 Ed. 1.0 en:2017**, Digital living network alliance (DLNA) home networked device interoperability guidelines - Part 9: HTTP Adaptive Delivery, \$117.00

**IEC 62820-1-2 Ed. 1.0 b:2017**, Building intercom systems - Part 1-2: System requirements - Building intercom systems using the internet protocol (IP), \$164.00

**IEC 62948 Ed. 1.0 en:2017**, Industrial networks – Wireless communication network and communication profiles – WIA-FA, \$410.00

**IEC 63080 Ed. 1.0 en:2017**, Accessibility terms and definitions, \$164.00

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**ISO 11506:2017**, Document management applications - Archiving of electronic data - Computer output microform (COM)/Computer output laser disc (COLD), \$162.00

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**ISO 12354-2:2017**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 2: Impact sound insulation between rooms, \$185.00

**ISO 12354-3:2017**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 3: Airborne sound insulation against outdoor sound, \$162.00

**ISO 12354-4:2017**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 4: Transmission of indoor sound to the outside, \$138.00

**ISO 15531-44:2017**, Industrial automation systems and integration - Industrial manufacturing management data - Part 44: Information modelling for shop floor data acquisition, \$162.00

**ISO 32000-2:2017**, Document management - Portable document format - Part 2: PDF 2.0, \$232.00

**ISO 8528-7:2017**, Reciprocating internal combustion engine driven alternating current generating sets - Part 7: Technical declarations for specification and design, \$103.00

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**ISO/IEC 13211-1/Cor3:2017**, Information technology – Programming languages - Prolog - Part 1: General core - Corrigendum, FREE

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**ISO/IEC/IEEE 24748-5:2017**, Systems and software engineering – Life cycle management - Part 5: Software development planning, \$185.00

## TSP Meeting Schedule

The November meetings will be at the Tropicana Las Vegas Casino Hotel Resort, 3801 Las Vegas Blvd. South. The schedule is preliminary; meetings will be added, deleted, and rescheduled between now and November. The most up to date schedule can be found on the ESTA website at <http://tsp.esta.org/tsp/meetings/index.php>, where there is a “Reserve a Hotel Room” link. All working group meetings will have a WebEx option.

Control Protocols Working Group (CPWG)	09:00 – noon	Thursday 16 November 2017
CPWG BSR E1.20 TG	14:00 – 17:00	Sunday 19 November 2017
CPWG BSR E1.33, RDMnet TG	10:00 – 18:00	Monday 20 November 2017
CPWG BSR E1.37-4 TG	13:00 – 15:00	Thursday 16 November 2017
CPWG BSR E1.59 TG	09:00 – 13:00	Wednesday 15 November 2017
Electrical Power Working Group (EPWG)	19:00 – 22:00	Friday 17 November 2017
Event Safety Crowd Management TG	14:00 – 18:00	Wednesday 15 November 2017
	09:00 – 13:00	Thursday 16 November 2017
Event Safety Communications TG	14:00 – 17:00	Thursday 16 November 2017
Event Safety Fire TG	14:00 – 17:00	Thursday 16 November 2017
Event Safety Rigging TG	14:00 – 18:00	Friday 17 November 2017
Event Safety Weather TG	09:00 – noon	Thursday 16 November 2017
Event Safety Working Group (ESWG)	09:00 – noon	Friday 17 November 2017
Floors Working Group (FWG)	13:00 – 14:30	Friday 17 November 2017
Fog & Smoke Working Group (FSWG)	15:00 – 17:00	Friday 17 November 2017
Photometrics Working Group (PWG)	13:00 – 15:00	Thursday 16 November 2017
Rigging E1.6-3 TG	14:00 – 18:00	Wednesday 15 November 2017
Rigging E1.6-4 TG	14:00 – 17:00	Thursday 16 November 2017
Rigging Working Group (RWG)	19:00 – 23:00	Wednesday 15 November 2017
Stage Lifts Working Group (SLWG)	09:00 – 11:00	Saturday 18 November 2017
Technical Standards Council (TSC)	14:00 – 18:00	Wednesday 15 November 2017

The January 2018 meetings will take place in conjunction with the NAMM Show at the Anaheim Convention Center, which is scheduled for 25-28 January 2018.

# ESTA Standards Watch

is distributed as a benefit to ESTA members and as a communications medium for ESTA's Technical Standards Program. Original material is copyright the Entertainment Services and Technology Association.

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