



ESTA Standards Watch

Late August 2016 Volume 20, Number 16

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Two ESTA Draft Standards in Public Review

Two draft standards are posted for public comment at http://tsp.esta.org/tsp/documents/public_review_docs.php. Instructions on how to comment are available, along with the review forms and the draft standards. The public reviews are over at the end of the day on 26 September. Submit comments to standards@esta.org before 27 September 2016.

BSR E1.4-3 – 20xx, Entertainment Technology—Manually Operated Hoist Rigging Systems

This standard applies to permanently installed, human-powered manually operated hoists used as part of rigging systems for raising, lowering, and suspension of scenery, properties, lighting, and similar loads. This standard intends to establish requirements for the design, manufacture, installation, inspection, and maintenance of manual hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production.

BSR E1.47 – 20xx, Entertainment Technology—Recommended Guidelines for Entertainment Rigging System Inspections

These guidelines include recommended inspector qualifications and responsibilities, scope and frequency of inspections, content of the rigging inspection report, and related information concerning the inspection process. Consensus on this document has been achieved, but one change is needed to bring clause 5.1.6 into compliance with the ANSI requirements for commercial terms and conditions in American National Standards.

ANSI Webinar on Brexit and Standardization

The American National Standards Institute (ANSI) will host an international policy webinar on Friday, 23 September 2016, from 09:00 to 10:30 ET to highlight Brexit's impact on international and regional standardization. The Brexit decision has raised international concern regarding the consequences on trade and commerce activities. For its part, the standardization community is focused on addressing how UK's withdrawal from the EU will impact UK participation in venues such as CEN/CENELEC, and the International Organization for Standardization (ISO), as well as the International Electrotechnical Commission (IEC).

The session—free for ANSI members and \$49 for all other participants—will feature opening remarks by ANSI president and CEO Joe Bhatia, followed by 15 minute remarks with presentations from several standardization expert speakers. All interested stakeholders can visit the webinar registration page at <http://estalink.us/5zj21>.

ANSI Seeks Comments on New ISO Field of Activity on Exhibitions, Events, and Conventions

The International Organization for Standardization has circulated a proposal for a new field of activity on exhibitions, events, and conventions. As the U.S. member body to ISO, the American National Standards Institute invites all relevant and interested stakeholders to submit comments on the proposal by the end of the business day on Friday, 2 October 2016. The proposal, submitted by the Standardization Administration of China (SAC), includes a new technical committee responsible for the standardization of exhibitions (trade shows, trade fairs), events, and conventions (conferences, congresses, meetings, forums, seminars), including terminology, classification, statistics, information system, safety control, service and personnel requirements, and sustainability management.

All interested stakeholders are invited to review the proposal, which is available at <http://estalink.us/a5czn>. Please submit comments to Steve Cornish, ANSI senior director of international policy (scornish@ansi.org), by close of business on Friday, 2 October 2016.

UL Seeks Members for STP 1640

UL seeks to have Standards Technical Panels (STPs) in which an interest category does not make up more than one-third of the overall voting membership. Currently, Producers make up 35 percent of STP 1640. There are 8 Producers, 5 Commercial/Industrial Users, 5 General, 2 Supply Chain, 2 Testing and Standards Organization, and 1 Consumer on STP 1640. To balance the interest categories, UL is currently seeking representatives from the following interest categories to serve on STP 1640, Portable Power-Distribution Equipment and Devices:

AHJ/Regulator: Those involved in the regulation or enforcement of the requirements of codes and standards at a regional (e.g. state or province) and/or local level. The authority having jurisdiction/regulator may be a regional or local department or individual such as a fire chief; fire marshal; chief of a fire prevention bureau, state

department of insurance official, labor department, or health department; building official; electrical inspector; or others having statutory authority.

Consumer: Consumer organizations, consumer departments at universities, home economic departments at universities, professional consumers, and individuals who use the product or service as part of their livelihood and are not eligible for STP membership under another interest category.

Supply Chain: Component producers for an STP responsible for standards covering end-products or end-product producers for an STP responsible for standards covering components; installers, distributors, and retailers. Manufacturers who have no manufacturing facilities for the products covered by UL 1640, but solely use contract manufacturers to make the products are considered part of the Supply Chain interest category. Wholesale or retail purchase-resellers for products made by other companies are also considered as part of the Supply Chain interest category.

Testing and Standards Organization: Organizations that test and/or certify products, services, or systems covered by UL 1640, or that develop standards/codes related to the products, services, or systems covered by UL 1640.

If you are interested in participating on the STP for Portable Power-Distribution Equipment and Devices under one of the interest categories specified, please write to standards@esta.org for consideration.

WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with these notices, 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.

United States of America Notification: USA/1181 (Corr.1)

Date issued: 10 August 2016

Agency Responsible: Office of Energy Efficiency and Renewable Energy (OEERE)

National Inquiry Point: USA WTO TBT Enquiry Point

Notified under Article: 2.9.2

Products covered: Uninterruptible power supplies

ICS Codes: 13.020 , 97.180

Title: Energy Conservation Program: Energy Conservation Standards for Uninterruptible Power Supplies (52 pages, in English)

Description of content: The Energy Policy and Conservation Act of 1975 (EPCA), as amended, prescribes energy conservation standards for various consumer products and certain commercial and industrial equipment, including battery chargers. In this notice, the U.S. Department of Energy (DOE) proposes new energy conservation standards for uninterruptible power supplies, a class of battery chargers, and also announces a public meeting to receive comment on these proposed standards and associated analyses and results.

Objective and rationale: Protection of the environment

Relevant documents: 81 Federal Register (FR) 52195, 5 August 2016; Title 10 Code of Federal Regulations (CFR) Part 430. Will appear in the Federal Register when adopted.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 4 October 2016

Full text: https://members.wto.org/crattachments/2016/TBT/USA/16_3166_00_e.pdf

United States of America Notification USA/1181/USA (USA/1181)

Date issued: 19 August 2016

Corrigendum type: Correction

Correction type: Correction with full text

Corrigendum: TITLE: Energy Conservation Program: Energy Conservation Standards for Uninterruptible Power Supplies; Correction

Agency: Office of Energy Efficiency and Renewable Energy, Department of Energy

Action: Notice of proposed rulemaking (NOPR); correction

Summary: The U.S. Department of Energy (DOE) published a document in the Federal Register on 5 August 2016, concerning a notice of proposed rulemaking and announcement of public meeting regarding energy conservation standards for uninterruptible power supplies. 81 FR 52196. The NOPR provided that the public meeting would be held on 9 September 2016. However, due to a scheduling conflict amongst stakeholders, DOE is changing the date of the public meeting to Friday, 16 September 2016, beginning at 9:30 a.m. All other dates, including the date that the comment period closes, remain unchanged. This correction is effective 15 August 2016.

Full text: https://members.wto.org/crnattachments/2016/TBT/USA/16_3401_00_e.pdf

Thailand Notification: THA/480

Date issued: 18 August 2016

Agency responsible: Thai Industrial Standards Institute (TISI)

National Inquiry Point: Thai Industrial Standards Institute (TISI)

Notified under Article: 2.9.2

Products covered: Plugs, socket-outlets, couplers (HS Chapter 8536)

ICS Codes: 29.120

Title: Thai Industrial Standard for Plugs and Socket-Outlets for Household and Similar Purposes: Plugs and Socket-Outlets with Rated Voltage not Exceeding 250 V (TIS 166-2549) (25 pages, in Thai)

Description of content: The Thai Industrial Standards Institute (TISI) has proposed to enforce TIS 166-2549(2006) Plugs and socket-outlets for household and similar purposes: plugs and socket-outlets with rated voltage not exceeding 250 V as a mandatory standard. The standard applies to plugs and fixed or portable socket-outlets for a.c., with a rated voltage not exceeding 250 V and a rated current not exceeding 16 A, intended for household and similar purposes, either indoors or outdoors at ambient temperatures not exceeding 40°C. This standard also applies to plugs incorporated in cord sets, to plugs and portable socket-outlets incorporated in cord extension sets and to plugs and socket-outlets which are a component of an electrical appliance, unless otherwise stated in the standard for the relevant electrical appliance.

Objective and rationale: Safety and consumer protection

Relevant documents: IEC 60884-1(2002) Plugs and socket-outlets for household and similar purposes-Part 1 General requirements, Thai Industrial Standard for Plugs and Socket-Outlets for Household and Similar Purposes: Plugs and Socket-Outlets with Rated Voltage not Exceeding 250 V (TIS 166-2549) -

https://members.wto.org/crnattachments/2016/TBT/THA/16_3372_00_x.pdf

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 17 October 2016

Full text (Thai): Not available at this time, but it has been requested. If you would like the full text, emails standards@esta.org and the full text will be sent to you when it is available.

Egypt Notification: EGY/159

Date issued: 15 August 2016

Agency responsible: Egyptian Organization for Standardization and Quality Control (EOS)

National Inquiry Point: Egyptian Organization for Standardization and Quality Control (EOS)

Notified under Article: 2.9.2

Products covered: Lamps, LED modules

ICS Codes: 29.140 , 31.080

Title: Ministerial Decree No. 243/2016 (2 pages, in Arabic) mandating the Egyptian Standard 7643/2016, "LED modules for general lighting - safety specifications" (23 pages, in Arabic)

Description of content: The Ministerial Decree mandates that the producers and importers must comply with by ES 7643/2016. A transitional period of six months is given to abide by the Standard.

This Standard applies to LED modules for general lighting – safety specifications. This standard complies with IEC 62031/2014.

Objective and rationale: Safety requirements

Relevant documents: . Ministerial Decree no. 243/2016. IEC 62031/2014

Proposed date of adoption: 19 March 2016

Proposed date of entry into force: 21 April 2016

Final date for comments: 14 October 2016

Full text (Arabic): [https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY159\(arabic\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY159(arabic).pdf)

Egypt Notification: EGY/158

Date issued: 15 August 2016

Agency responsible: Egyptian Organization for Standardization and Quality Control (EOS)

National Inquiry Point: Egyptian Organization for Standardization and Quality Control (EOS)

Notified under Article: 2.9.2

Products covered: Lamps and related equipment

ICS Codes: 29.140

Title: Ministerial Decree No. 243/2016 (2 pages, in Arabic) mandating the Egyptian Standard 7987/2016, "Self-ballasted LED lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. - Safety specifications" (16 pages, in Arabic)

Description of content: The Ministerial Decree mandates that the producers and importers must abide by ES 7987/2016. A transitional period of six months is given to the producers and importers to comply.

This standard applies to: Self-ballasted LED lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. This standard complies with IEC 62838/2015.

Objective and rationale: Safety requirements

Relevant documents: . Ministerial Decree no. 243/2016. IEC 62838/2015

Proposed date of adoption: 19 March 2016

Proposed date of entry into force: 21 April 2016

Final date for comments: 14 October 2016

Full text (Arabic): [https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY158\(arabic\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY158(arabic).pdf)

United States of America Notification USA/1105/USA (USA/1105)

Date issued: 20 May 2016

Corrigendum type: Addendum

Correction type: Correction with full text

Corrigendum: TITLE: Protection of Stratospheric Ozone: Proposed New Listings of Substitutes; Changes of Listing Status; and Reinterpretation of Unacceptability for Closed Cell Foam Products Under the Significant New Alternatives Policy Program; and Revision of Clean Air Act Section 608 Venting Prohibition for Propane

Agency: Environmental Protection Agency (EPA)

Action: Notice of proposed rulemaking; extension of public comment period

Summary: The Environmental Protection Agency (EPA) is announcing that the period for providing public comments on the 18 April 2016, proposed "Protection of Stratospheric Ozone: Proposed New Listings of Substitutes; Changes of Listing Status; and Reinterpretation of Unacceptability for Closed Cell Foam Products under the Significant New Alternatives Policy Program; and Revision of Clean Air Act Section 608 Venting Prohibition for Propane" is being extended by 14 days.

Dates: The public comment period for the proposed rule, which was published 18 April 2016, (81 FR 22810) is being extended by 14 days and will close on 16 June 2016.

Full text: https://members.wto.org/crnattachments/2016/TBT/USA/16_1993_00_e.pdf

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.

Due 11 September 2016

BSR/UL 1088-201X, Standard for Safety for Temporary Lighting Strings (revision of ANSI/UL 1088-2015)

The following changes in requirements to the Standard for Standard for Temporary Lighting Strings, UL 1088/Ulc-S1088, are being proposed: (1)Revise standard to allow for temporary lighting strings for indoor use only.

View the changes in full at <http://estalink.us/10ph5>.

Send comments to Heather Sakellariou at Heather.Sakellariou@ul.com

BSR/UL 2225-201X, Standard for Safety for Cables and Cable-Fittings for Use in Hazardous (Classified) (Proposal dated 08-12-16) (revision of ANSI/UL 2225-2016)

Revisions to add low ambient test requirements to section 24.

View the changes in full at <http://estalink.us/2d4ul>.

Send comments to Vickie Hinton at Vickie.T.Hinton@ul.com

Due 26 September 2016

BSR/UL 100-2012 (R201x), Standard for Safety for Sustainability for Gypsum Boards and Panels (reaffirmation of ANSI/UL 100-2012)

The criteria in this standard were developed based on the life cycle stages of gypsum boards and panels.

Sustainability factors considered in this standard are: materials, energy, manufacturing and operations, health and environment, product performance, and product stewardship. Credit for innovations in these, or other factors not listed, is also addressed in this standard.

Single copy price: Contact comm2000 for pricing and delivery options

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

Send comments to Megan Monsen at megan.monsen@ul.com.

Due 3 October 2016

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

BSR/CTA-2017-A-2010 (R201x), Common Interconnection for Portable Media Players (reaffirmation of ANSI/CTA 2017-A-2010)

This standard defines electrical and mechanical properties for a connector that will pass audio, video and associated metadata signals, control signals, and power between portable electronic devices and in home and in vehicle audio/video systems.

Single copy price: \$83.00

Obtain an electronic copy from: standards@cta.tech

Send comments to: Veronica Lancaster, vlancaster@cta.tech

BSR/IAPMO UMC 1-2018, Uniform Mechanical Code (revision of ANSI/IAPMO UMC 1-2015)

This code provides minimum standards to safeguard life or limb, health, property and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation and maintenance or use of heating, ventilating, cooling, refrigeration systems, incinerators, and other miscellaneous heat-producing appliances. The provisions of this code apply to the erection, installation, alteration, repair, relocation, replacement, addition to, use, or maintenance of mechanical systems.

Single copy price: \$10.00

Obtain an electronic copy from: lynne.simnick@iapmo.org

Send comments to: Gabriella Davis, gaby.davis@iapmo.org

BSR/IAPMO UPC 1-2018, Uniform Plumbing Code (revision of ANSI/IAPMO UPC 1-2015)

This code provides minimum standards and requirements to safeguard life or limb, health, property and public welfare by regulating and controlling the design, construction, installation, quality of materials, location, operation

and maintenance or use of plumbing systems. The provisions of this code apply to the erection, installation, alteration, repair, relocation, addition to, use, or maintenance of plumbing systems.

Single copy price: \$10.00

Obtain an electronic copy from: lynne.simnick@iapmo.org

Send comments to: Gabriella Davis, gaby.davis@iapmo.org

BSR/IES RP-29-201x, Lighting for Hospitals and Healthcare Facilities (revision and redesignation of ANSI/IESNA RP-29-2006 (R2016))

This practice provides guidelines for good lighting, inspires the designers of lighting systems so that the sick and infirm will have a more comfortable and enjoyable recovery environment.

Single copy price: \$25.00

Order from and send comments to: Pat McGillicuddy, pmcgillicuddy@ies.org

BSR A300 (Part 9)-201x, Tree Care Operations - Tree, Shrub, and Other Woody Plant Management (Tree Risk Assessment a. Tree Failure) (new standard)

A300 standards are performance standards for the management of trees, shrubs, and other woody plants. They are also a guide in the drafting of woody plant management specifications for federal, state, municipal, and private authorities including property owners, property managers, and utilities. BSR A300 (Part 9)-201x, Tree Risk Assessment a. Tree Failure, will provide standard practices for assessment of tree structure in relation to tree failure and a tree-assessment specification writing guide.

Single copy price: \$15.00

Order from and send comments to: Robert Rouse, rouse@tcia.org

BSR A300 (Part 1)-201x, Tree Care Operations - Tree, Shrub, and Other Woody Plant Management (Pruning) (revision and redesignation of ANSI A300 (Part 1) Pruning-2008 (R2014))

A300 standards are performance standards for the management of trees, shrubs, and other woody plants. They are also a guide in the drafting of woody plant management specifications for federal, state, municipal, and private authorities including property owners, property managers, and utilities. BSR A300 (Part 1)-201x, Pruning, will provide standard practices for pruning of trees and other woody plants and a pruning specification writing guide.

Single copy price: \$15.00

Order from and send comments to: Robert Rouse, rouse@tcia.org

Due 11 October 2016

BSR/ASME B30.23-201x, Personnel Lifting Systems (revision of ANSI/ASME B30.23-2011)

ASME B30.23 may apply to hoisting and accessory equipment covered within certain volumes of the ASME B30 Standard, which is used to lift, lower, hold, or transport personnel in a platform, by wire rope or chain, from hoist equipment, or by a platform that is mounted on a boom of the hoist equipment. The lifting of personnel is not allowed using some ASME B30 Standard equipment. The ASME B30 Standard addressing the hoisting equipment to be used shall be consulted for the applicability of the ASME B30.23 volume.

Single copy price: Free

Order from Mayra Santiago at ansibox@asme.org

Send comments to Kathryn Hyam at hyamk@asme.org.

INCITS 466-2011 [R201x], Information Technology - Fibre Channel – Single Byte Command Code Sets Mapping Protocol - 4 (FC-SB-4) (reaffirmation of INCITS 466-2011)

This document describes a communication interface between a channel and I/O control units that utilize the Single-Byte Command Code Sets (SBCCS) as implemented in a wide range of data processing systems.

Single copy price: \$60.00

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

Send comments to comments@standards.incits.org

INCITS 460-2011 [R201x], Information technology - Fibre Channel – Physical Interface - 3 (FC-PI-3) (reaffirmation of INCITS 460-2011)

Describes the physical interface portions of a high-performance serial link based on the work of the XFP MSA. FC-PI-3 applies only to the variant described in FC-PI-3 and does not affect or supersede any requirements in any other FC standard or technical report. defines the electrical interfaces called XFI+ based on INF-8077(XFI) the XFP MSA for high-speed serial operation from 9.95-11.1 Gigabaud.

Single copy price: \$60.00

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

Send comments to comments@standards.incits.org

INCITS 470-2011 [R201x], Information technology - Fibre Channel – Framing and Signaling - 3 (FC-FS-3) (reaffirmation of INCITS 470-2011)

Describes the framing and signaling interface of a high-performance serial link for support of FC-4s associated with upper level protocols (e.g., SCSI, IP, SBCCS, VI). This standard is based on FC-FS-2 (ISO/IEC 14165-252) with subsequent modifications approved by the member body that originally authored and approved FC-FS-2.

Single copy price: \$60.00

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

Send comments to comments@standards.incits.org

INCITS 472-2011 [R201x], Information Technology – Automation/Drive Interface - Transport Protocol - 2 (ADT-2)(reaffirmation of INCITS 472-2011)

This standard defines the protocol requirements of the Automation/Drive Interface - Transport Protocol to allow conforming ADI SCSI devices to interoperate.

Single copy price: \$60.00

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

Send comments to comments@standards.incits.org

INCITS 477-2011 [R201x], Information Technology - Fibre Channel -Link Services - 2 (FC-LS-2) (reaffirmation of INCITS 477-2011)

This standard describes the Link Services requirements. The Physical Interface requirements are described in Fibre Channel-Physical Interfaces - 2 (FC-PI-2). The Framing and Signaling requirements are described in Fibre Channel-Physical Framing and Signaling - 3 (FC-FS-3). This standard is recommended for new implementations but does not obsolete the existing Fibre Channel standards.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 475-2011 [R201x], Information Technology - Fibre Channel – Inter- Fabric Routing (FC-IFR) (reaffirmation of INCITS 475-2011)

The Fibre Channel Inter-Fabric Routing (FC-IFR) standard defines the protocols, functions, and mappings for the routing of Fibre Channel frames between physically or logically separated Fabrics.

Single copy price: \$60.00

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

Send comments to comments@standards.incits.org

INCITS 478-2011 [R201x], Information technology - Serial Attached SCSI - 2.1 (SAS-2.1) (reaffirmation of INCITS 478-2011)

The SCSI family of standards provides for many different transport protocols that define the rules for exchanging information between different SCSI devices. This standard specifies the functional requirements for the Serial Attached SCSI (SAS) physical interconnect, which is compatible with the Serial ATA physical interconnect. The SAS Protocol Layer (SPL) standard documents the SAS protocol layer corresponding to the Serial Attached SCSI - 2.1 (SAS-2.1) and beyond, defining the rules for exchanging information between SCSI devices using a serial interconnect. Other SCSI transport protocol standards define the rules for exchanging information between SCSI devices using other interconnects.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS 479-2011 [R201x], Information Technology - Fibre Channel - Physical Interface-5 (FC-PI-5/AM1) (reaffirmation of INCITS 479-2011)

Describes the physical interface portions of high-performance electrical and optical link variants that support the higher level Fibre Channel protocols including FC-FS-2 and the higher Upper Level Protocols (ULPs) associated with HIPPI, SCSI, IP, and others.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS 481-2011 [R201x], Information technology - Fibre Channel Protocol for SCSI - 4 (FCP-4) (reaffirmation of INCITS 481-2011)

FCP-4 defines the fourth-generation Fibre Channel Protocol to be used to transport SCSI commands over the T11 Fibre Channel interface.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO 19146:2010 [R201x], Geographic information – Cross-domain vocabularies (reaffirmation of INCITS/ISO 19146:2010 [2011])

Defines a methodology for cross-mapping technical vocabularies that have been adopted by industry-specific geospatial communities. It also specifies an implementation of ISO 19135 for the registration of geographic information concepts for the purpose of integrating multiple domain-based vocabularies.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 13818-4:2004/AM3:2009 [R201x], Information technology - Generic coding of moving pictures and associated audio information - Part 4: Conformance testing - Amendment 3: Level for 1080@50p/60p conformance testing (reaffirmation of INCITS/ISO/IEC 13818-4:2004/AM3:2009 [2011])

Amendment 3 to ISO/IEC 13818-4:2004.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 13818-6:1998/AM 1:2000 [R201x], Information technology - Generic coding of moving pictures & associated audio info - Part 6: Extensions for DSM-CC - Amendment 1: Additions to support data broadcasting (reaffirmation of INCITS/ISO/IEC 13818-6-1998/AM1-2000 [R2011])

Amendment 1 to ISO/IEC 13818-6:1998.

Single copy price: \$60.00

Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-4:2004 [R201x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing (reaffirmation of INCITS/ISO/IEC 14496-4-2004 [R2011])

Specifies how tests can be designed to verify whether bitstreams and decoders meet requirements specified in parts 1, 2, and 3 of ISO/IEC 14496 and, for part 6 of ISO/IEC 14496, it specifies how tests can be designed for bitstream delivery over various delivery technologies in an interoperable transparent manner to parts 1, 2, and 3. In this part of ISO/IEC 14496, encoders are not addressed specifically. An encoder may be said to be an ISO/IEC 14496 encoder if it generates bitstreams compliant with the syntactic and semantic bitstream requirements specified in parts 1, 2, 3 of ISO/IEC 14496.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-6:2000 [R201x], Information technology - Coding of audio-visual objects - Part 6: Delivery Multimedia Integration Framework (DMIF) (reaffirmation of INCITS/ISO/IEC 14496-6-2000 [R2011])

Specifies the Delivery Layer of ISO/IEC 14496, which allows applications to transparently access and view multimedia streams, whether the source of the streams is located on an interactive remote end-system, the streams are available on broadcast media, or they are on storage media.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-20:2008AM1:2009 [R201x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing (reaffirmation of INCITS/ISO/IEC 14496-20:2008/AM1:2009 [2011])

FC-PI-4 does not replace FC-PI-2 but is intended to carry forward the technical requirements specified in FC-PI-2 for the variants addressed in FCPI-4.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-4:2004/AM 30:2009 [R201x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing – Amendment 30: Conformance testing for new profiles for professional applications (reaffirmation of INCITS/ISO/IEC 14496-4:2004/AM30:2009 [2011])

Amendment 30 to ISO/IEC 14496-4:2004.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-4:2004/AM 31:2009 [R201x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing – Amendment 31: Conformance testing for SVC profiles (reaffirmation of INCITS/ISO/IEC 14496-4:2004/AM31:2009 [2011])

Amendment 31 to ISO/IEC 14496-4:2004.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-4:2004/AM 35:2009 [R201x], Information technology - Coding of audio-visual objects - Part 4: Conformance testing – Amendment 35: Simple studio profile levels 5 and 6 conformance testing (reaffirmation of INCITS/ISO/IEC 14496-4:2004/AM35:2009 [2011])

Amendment 35 to ISO/IEC 14496-4:2004.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-5:2001/AM 14:2009 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software – Amendment 14: Open Font Format reference software (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM14:2009 [2011])

Amendment 14 to ISO/IEC 14496-5:2001.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org.

INCITS/ISO/IEC 14496-5:2001/AM 19:2009 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software – Amendment 19: Reference software for Scalable Video Coding (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM19:2009 [2011])

Amendment 19 to ISO/IEC 14496-5:2001.
Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org.

INCITS/ISO/IEC 14496-5:2001/AM 20:2009 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software – Amendment 20: MPEG-1 and -2 on MPEG-4 reference software (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM20:2009 [2011])

Amendment 20 to ISO/IEC 14496-5:2001.
Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 14496-5:2001/AM 21:2009 [R201x], Information technology - Coding of audio-visual objects - Part 5: Reference software – Amendment 21: Frame-based Animated Mesh Compression reference software (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM21:2009 [2011])

Amendment 21 to ISO/IEC 14496-5:2001.
Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 15457-1:2008 [R201x], Identification cards - Thin flexible cards - Part 1: Physical characteristics (reaffirmation of INCITS/ISO/IEC 15457-1:2008 [2011])

Thin flexible cards (TFC), the subject of ISO/IEC 15457, are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, stored value, etc. For these applications, data can be written and/or read by machines using various recording techniques such as magnetic stripe, optical character recognition (OCR), bar code, contactless, etc. This standard specifies the physical characteristics of thin flexible cards at two points in the card life cycle: at the point of loading into the card-issuing equipment; at the point of issue to the public.

Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org.

INCITS/ISO/IEC 15457-3:2008 [R201x], Identification cards - Thin flexible cards - Part 3: Test methods (reaffirmation of INCITS/ISO/IEC 15457-3:2008 [2011])

Thin flexible cards are used to automate the controls for access to goods or services such as mass transit, highway toll systems, car parks, vouchers, stored value, etc. For these applications, data can be written and/or read by machines using various recording techniques such as magnetic stripe, optical character recognition (OCR), bar code, etc. This standard specifies the test methods and procedures required to carry out measurements of the magnetic stripe and encoding characteristics of thin flexible cards.

Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 23000-4:2009 [R201x], Information technology – Multimedia application format (MPEG-A) - Part 4: Musical slide show application format (reaffirmation of INCITS/ISO/IEC 23000-4:2009 [2011])

Specifies signaling of content governance and protection of musical slide show application format based on MPEG-21 Part 4: Intellectual Property Management and Protection (IPMP) Components Base Profile and MPEG-21.

Single copy price: \$60.00
Order from: <http://webstore.ansi.org/>
Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 23000-6:2009 [R201x], Information technology – Multimedia application format (MPEG-A) - Part 6: Professional archival application format (reaffirmation of INCITS/ISO/IEC 23000-6:2009 [2011])

The purpose of the PA-AF is to provide a standardized packaging format for digital files. This packaging format can also serve as an implementation of the information package specified by the reference model of the open archival information system (OAIS). The OAIS reference model is a framework for understanding and applying concepts necessary for long-term digital information preservation (where long-term is long enough to be concerned about changing technologies). In addition, PA-AF can also be used as an intermediate or exchange packaging format for any kind of multimedia content.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 23000-3:2007/AM1:2009 [R201x], Information technology - Multimedia application format (MPEG-A) - Part 3: MPEG photo player application format - Amendment 1: Reference software for photo player MAF (reaffirmation of INCITS/ISO/IEC 23000-3:2007/AM1:2009 [2011])

Amendment 1 to ISO/IEC 23000-3:2007.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 23000-10:2009 [R201x], Information technology - Multimedia application format (MPEG-A) - Part 10: Video surveillance application format (reaffirmation of INCITS/ISO/IEC 23000-10:2009 [2011])

Specifies a file format designed to provide for a first level of interoperability for video-based surveillance systems. The file format provides the overall structure for storing video content and associated metadata in a single file.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 23000-4:2009/AM 1:2009 [R201x], Information technology - Multimedia application format (MPEG-A) - Part 4: Musical slide show application format - Amendment 1: Conformance and reference software for musical slide show application format (reaffirmation of INCITS/ISO/IEC 23000-4:2009/AM1:2009 [2011])

Amendment 1 to ISO/IEC 23000-4:2009.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 183-1991 [S201x], Information technology – High-Performance Parallel Interface (HIPPI) - Mechanical, Electrical, and Signalling Protocol Specification (HIPPI-PH) (stabilized maintenance of INCITS 183:1991 [R2011])

Provides the mechanical, electrical and signaling protocol specifications for an efficient simplex high-performance point-to-point interface between pieces of data-processing equipment. The interface described in this document can be operated at peak data rates of 800 or 1600 Mbit/s, over distances of up to 25m by means of copper cabling. A distance-independent signaling protocol allows the average data rates to approach the peak data rates, even over distances longer than specified for the HIPPI-PH.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 404-2006 [S201x], Information technology - Fibre Channel Physical Interfaces - 2 (FC-PI-2) (stabilized maintenance of INCITS 404:2006 [R2011])

This standard describes the point-to-point physical interface portions of Fibre Channel high-performance electrical and optical link variants that support the higher-level Fiber Channel protocols including FC-FS, HIPPI,

IPI, SCSI, and others. This standard is recommended for new implementations but does not obsolete the existing Fibre Channel standards.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 323-1998/AM 1-2001 [S201x], Information Technology - High-Performance Parallel Interface - 6400 Mbit/s Physical Layer (HIPPI-6400-PH) - Amendment 1 (stabilized maintenance of INCITS 323:1998/AM1:2001 [R2011])

Specifies a physical-level, point-to-point, full-duplex, link interface for reliable, flow-controlled transmission of user data at 6400 Mbit/s, per direction, across distances of up to 1 km. A parallel copper cable interface for distances of up to 40 m is specified. Connections to a separate longer distance optical interface are provided. Small fixed-size micropackets provide an efficient, low-latency, structure for small transfers, and a component for large transfers.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 215:1994 [S201x], Information Systems - Programming Languages - Forth (stabilized maintenance of INCITS 215:1994 [R2011])

Specifies an interface between a Forth System and a Forth Program by defining the words provided by a Standard System.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 11581-6:1999 [S201x], Information technology – User system interfaces and symbols - Icon symbols and functions - Part 6: Action Icons (stabilized maintenance of INCITS/ISO/IEC 11581-6-1999 [R2011])

Applies to icons that are shown on a screen, that users can manipulate and interact with, and that represent data- or computer-system functions. Addresses only action icons. Action icons represent actions by association with objects that prompt the user to recall the intended actions. Describes user interaction with and appearance of action icons on the screen. Other types of icons are covered in other parts of the standard, listed in the Foreword.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 13249-2:2003 [S201x], Information technology – Database languages - SQL multimedia and application packages - Part 2: Full-Text (stabilized maintenance of INCITS/ISO/IEC 13249-2:2003 [R2011])

Introduces the full-text part of ISO/IEC 13249 (all parts); gives the references necessary for this part of ISO/IEC 13249; defines notations and conventions specific to this part of ISO/IEC 13249; defines concepts specific to this part of ISO/IEC 13249; and defines the full-text user-defined types and their associated routines.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS/ISO/IEC 13249-5:2003 [S201x], Information technology – Database languages - SQL multimedia and application packages - Part 5: Still image (stabilized maintenance of INCITS/ISO/IEC 13249-5:2003 [R2011])

Introduces the still image part of ISO/IEC 13249 (all parts); gives the references necessary for this part of ISO/IEC 13249; defines notations and conventions specific to this part of ISO/IEC 13249; defines concepts specific to this part of ISO/IEC 13249; and defines the still image user-defined types and their associated routines.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

INCITS 388-2011, Information technology - Storage management (withdrawal of INCITS 388-2011)

Defines an interface for the secure, extensible, and interoperable management of a distributed and heterogeneous storage system. This interface uses an object-oriented, XML-based, messaging-based protocol designed to support the specific requirements of managing devices and subsystems in this storage environment. Using this protocol, this Technical Specification describes the information available to a WBEM Client from an SMI-S compliant CIM WBEM Server.

Single copy price: \$60.00

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

Send comments to: comments@standards.incits.org

Due 18 October 2016

BSR/ANS 57.3-200x, Design Requirements for New Fuel Storage Facilities at Light Water Reactor Plants (new standard)

This standard defines the required functions of wet or dry storage facilities for new fuel at light-water-reactor nuclear power plants. It provides minimum design requirements for safe storage of new nuclear fuel and control components at such plants. The fuel storage facilities covered by this standard are used for receiving, inspecting, and storing fuel containing new and recycled uranium and mixed oxides. [Most civilian nuclear power plants are light-water-reactor plants.]

Single copy price: \$64.00

Obtain an electronic copy from: scook@ans.org

Send comments to: pschroeder@ans.org

Standards Australia Public Review Announcements

Standards Australia has announced some draft standards for Australia that may be of interest to Standards News readers. These are identified as Australian standards, but they are adoptions with modifications of IEC standards. 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 7 October 2016

DR AS/NZS 62560:2016, Self-ballasted LED-lamps for general lighting services by voltage >50 V - Safety specifications (IEC 62560, Ed. 1.1:2015, MOD)

Proposes the adoption of IEC 62560, Ed. 1.1:2015, which specifies the safety and interchangeability requirements, together with the test methods and conditions required to show compliance of LED-lamps with integrated means for stable operation (self-ballasted LED-lamps), intended for domestic and similar general lighting purposes, having a rated wattage up to 60 W and a rated voltage of >50 V up to 250 V. Proposed as an Australian/New Zealand Standard.

Due 19 October 2016

DR AS/NZS 61184:2015 Amd 2:2016, Bayonet lampholders (IEC 61184, Ed. 3.1 (2011) MOD)

This standard is being revised to clarify that it is not applicable to festoon lampholders. For Festoon lampholders refer to AS/NZS 3117.

DR AS/NZS 60238:2015 Amd 2:2016, Edison screw lampholders (IEC 60238, Ed. 8.2 (2011) MOD)

This standard is being revised to clarify that it is not applicable to festoon lampholders. For Festoon lampholders refer to AS/NZS 3140.

BSI Public Review Announcements

BSI Standards has announced draft documents for public review that might be of interest to *Standards Watch* readers. The documents may be commented on at <http://drafts.bsigroup.com/>.

Due 20 October 2016

EN 14615 Postal services. Digital postage marks. Applications, security and design

This European Standard specifies a recommended procedure for the development of specifications for applications of digital postage marks (DPMs) – i.e. applications linked to the use of digital printing and image data capture technologies in the postal industry, most particularly for the evidencing of postage accounting and/or payment. It is not intended to prescribe or to recommend any particular architecture or design for such applications, only to specify the process through which such an architecture or design should be developed.

CSA Public Review Announcements

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

Due 21 October 2016

O121 Douglas fir plywood (New Edition)

This Standard applies to exterior bond, all-veneer plywood with a minimum of three plies and parallel grain direction of the face and back plies.

This Standard specifies requirements for

- (a) a quality system;
- (b) ply species;
- (c) materials;
- (d) panel construction;
- (e) bonding;
- (f) veneer and panel grades;
- (g) dimensions and tolerances;
- (h) marking; and
- (i) testing.

O151 Canadian softwood plywood (New Edition)

This Standard applies to exterior bond, all-veneer plywood that has a minimum of three plies and whose outermost plies have parallel grain direction.

This Standard specifies requirements for

- (a) a quality system;
- (b) ply species;
- (c) materials;
- (d) panel construction;
- (e) bonding;
- (f) veneer and panel grades;
- (g) dimensions and tolerances;
- (h) marking; and
- (i) testing.

Draft Amendment to C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4115, Addition of 35 kV SH, SHD, SHD-GC, and SHD-BGC to Tables 11 and 12A.

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4115, Addition of 35 kV SH, SHD, SHD-GC, and SHD-BGC to Tables 11 and 12A. Table 11 relates to Conditions of use, voltage, and temperature ratings of flexible cords, heater cords, tinsel cords, equipment wires, Christmas-tree cords, portable power cables, elevator cables, stage lighting, and festoon cables. (See Rules 4-012, 4-020, 4-040, and 12-010.) Table 12A relates to allowable ampacities for portable copper conductor power cables (amperes per conductor).

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.

ANSI/ASA S12.16-1992 (R2013), Guidelines for the Specification of Noise of New Machinery (withdrawal of ANSI/ASA S12.16-1992 (R2013))

Provides guidelines for obtaining noise level data from manufacturers of stationary equipment. The standard references existing American National Standards Institute, trade, and professional association measurement standards and techniques to request manufacturer noise level data. Appendices provide guidance for interpretation of the data received from the manufacturer. For more information, contact Neil Stremmel at nstremmel@acousticalsociety.org

BSR/APPA 1100-201x, Facility Management Terms and Definitions (new standard)

This standard will be a compilation of facility management terms and definitions to be housed on the APPA International website. Areas of application for this standard include project delivery (planning, design, construction, and commissioning), maintenance and operations, energy, utilities, environmental stewardship, planning, design, and construction. Contact: Billie Zidek, billie@appa.org.

BSR/AWS C1.1M/C1.1-201x, Recommended Practices for Resistance Welding (revision of ANSI/AWS C1.1M/C1.1-2012)

This Recommended Practices is a collection of data and procedures that are intended to assist the user in setting up resistance-welding equipment to produce resistance-welded production parts. While the recommendations included are not expected to be final procedures for every production part or every welding machine, they serve as starting points from which a user can establish acceptable welding-machine settings for specific production welding applications. In some cases, recommended machine data is not available. In these instances, some description of the process is given to assist the reader in determining if the process might be suitable for the application. For more information, contact Annik Babinski at ababinski@aws.org.

BSR/AWS F4.1-201x, Safe Practices for the Preparation of Containers and Piping for Welding, Cutting, and Allied Processes (revision of ANSI/AWS F4.1-2007)

This standard informs the reader of the necessary safe practices to be followed in the cleaning and preparation of containers and piping for welding or cutting. It describes various methods for cleaning, including water, steam, hot chemical and mechanical, and techniques to be used for their proper preparation, such as inerting. For more information, contact Stephen Hedrick at steveh@aws.org.

BSR/BIFMA X5.4-201X, Lounge and Public Seating - Tests (revision of ANSI/BIFMA X5.4-2012)

This standard is intended to provide manufacturers, specifiers, and users with a common basis for evaluating the safety, durability, and structural adequacy of business and institutional lounge and public seating. Contact: David Panning, dpanning@bifma.org.

BSR/BIFMA X5.9-201X, Storage Units - Tests (revision of ANSI/BIFMA X5.9-2012)

This standard provides a common basis for evaluating the safety, durability, and structural performance of storage units. Contact: David Panning, dpanning@bifma.org.

BSR/BIFMA X6.1-201X, Educational Seating - Tests (revision of ANSI/BIFMA X6.1-2012)

This standard is intended to provide manufacturers, specifiers, and users with a common basis for evaluating the safety, durability, and structural adequacy of educational seating, including units with integrated desk or table surfaces. Contact: David Panning, dpanning@bifma.org.

BSR/EASA AR100-201x, Recommended Practice for the Repair of Rotating Electrical Apparatus (revision of ANSI/EASA AR100-2015)

This document describes record-keeping, tests, analysis, and general guidelines for the repair of rotating electrical apparatus, including generators and motors. Contact: Thomas Bishop, tbishop@easa.com.

BSR/EIA 61014-201x, Programmes for reliability growth (identical national adoption of IEC 61014:2003 Edition 2.0)

This standard specifies requirements and gives guidelines for the exposure and removal of weaknesses in hardware and software items for the purpose of reliability growth. It applies when the product specification calls for a reliability growth program of equipment (electronic, electromechanical and mechanical hardware as well as software) or when it is known that the design is unlikely to meet the requirements without improvement. A statement of the basic concepts is followed by descriptions of the management, planning, testing (laboratory or field), failure analysis, and corrective techniques required. Mathematical modeling, to estimate the level of reliability achieved, is outlined briefly. Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/EIA 61025-201x, Fault tree analysis (FTA) (identical national adoption of IEC 61025:2006 Edition 2.0)

This standard describes fault-tree analysis and provides guidance on its application as follows:

- definition of basic principles;
- describing and explaining the associated mathematical modeling;
- explaining the relationships of FTA to other reliability modeling techniques;
- description of the steps involved in performing the FTA;
- identification of appropriate assumptions, events and failure modes; and
- identification and description of commonly used symbols.

Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/EIA 61124-201x, Reliability testing - Compliance tests for constant failure rate and constant failure intensity (identical national adoption of IEC 61124:2012 Edition 3.0)

This International Standard gives a number of optimized test plans, the corresponding operating characteristic curves and expected test times. In addition, the algorithms for designing test plans using a spreadsheet program are also given, together with guidance on how to choose test plans. Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/EIA 61164-201x, Reliability growth - Statistical test and estimation methods (identical national adoption of IEC 61164:2004 Edition 2.0)

This standard gives models and numerical methods for reliability growth assessments based on failure data, which were generated in a reliability improvement program. These procedures deal with growth, estimation, confidence intervals for product reliability, and goodness-of-fit tests. Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/EIA 61710-201x, Power law mode - Goodness-of-fit tests and estimation methods (identical national adoption of IEC 61710:2013 Edition 2.0)

This standard specifies procedures to estimate the parameters of the power law model, to provide confidence intervals for the failure intensity, to provide prediction intervals for the times to future failures, and to test the goodness-of-fit of the power law model to data from repairable items. It is assumed that the time to failure data have been collected from an item, or some identical items operating under the same conditions (e.g., environment and load). Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/EIA 62506-201x, Methods for product accelerated testing (identical national adoption of IEC 62506:2013 Edition 1.0)

This standard provides guidance on the application of various accelerated test techniques for measurement or improvement of product reliability. Identification of potential failure modes that could be experienced in the use of a product/item and their mitigation is instrumental to ensure dependability of an item. The object of the methods is to either identify potential design weakness or provide information on item dependability, or to achieve necessary reliability/availability improvement, all within a compressed or accelerated period of time. This standard addresses accelerated testing of non-repairable and repairable systems. It can be used for probability

ratio sequential tests, fixed duration tests and reliability improvement/growth tests, where the measure of reliability may differ from the standard probability of failure occurrence. This standard also extends to present accelerated testing or production screening methods that would identify weakness introduced into the product by manufacturing error, which could compromise product dependability. Contact: Laura Donohoe, ldonohoe@ecianow.org.

BSR/IES RP-16-201x, Nomenclature and Definitions for Illuminating Engineering (new standard)

To define the terms used for illuminating engineering with respect to the production, measurement and application of light, or radiant energy within the limits of the visual spectrum. Contact: Pat McGillicuddy, pmcgillicuddy@ies.org.

BSR/IES RP-20-201x, Lighting for Parking Facilities (new standard)

Recommendations include exterior and interior lighting practices for the reasonably safe movement of vehicular and pedestrian traffic in parking facilities. Contact: Pat McGillicuddy, pmcgillicuddy@ies.org.

BSR/IES RP-27.3-201x, Recommended Practice for Photobiological Safety for Lamps-Risk Group Classification and Labeling (revision and redesignation of ANSI/IESNA RP-27.3-2007)

Covers the classification, labeling, and informational requirements for lamps that emit optical radiation in the wavelength range from 200 nm to 3000 nm, with exception for light emitting diodes used in optical fiber communication systems and for lasers. Lamps included are incandescent filament lamps including tungsten-halogen types and incandescent heating sources, low-pressure discharge lamps, highintensity discharge (HID) lamps, short-arc lamps, carbon arcs, electroluminescent lamps, light-emitting diodes (LEDs), and laserdriven broadband sources. Federal mandatory requirements for lamps subject to specific Federal Regulations take precedence over requirements. Contact: Pat McGillicuddy, pmcgillicuddy@ies.org.

BSR/IES RP-7-201x, Recommended Practice for Lighting Industrial Facilities (revision and redesignation of ANSI/IESNA RP-7-2012)

Provide lighting recommendations for the industrial environment. Contact: Pat McGillicuddy, pmcgillicuddy@ies.org.

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.

ANSI/ASCE/EWRI 45-46-47-2016, ASCE/EWRI 45, Standard Guidelines for the Design of Urban Stormwater Systems; **ASCE/EWRI 46**, Standard Guidelines for the Installation of Urban Stormwater Systems; **ASCE/EWRI 47**, Standard Guidelines for the Operation and Maintenance of Urban Stormwater Systems (new standard): 10 August 2016

ANSI/ASSE A10.43-2016, Confined Space Entry for Construction and Demolition Operations (new standard): 4 August 2016

ANSI/ASSE A10.48-2016, Criteria for Safety Practices with the Construction, Demolition, and Maintenance of Communication Structures (new standard): 3 August 2016

ANSI/ASSE Z117.1-2016, Safety Requirements for Entering Confined Spaces (revision of ANSI ASSE Z117.1-2009): 4 August 2016

ANSI/ASME B30.7-2016, Winches (revision of ANSI/ASME B30.7-2011): 3 August 2016

ANSI/ATIS 1000066-2016, Emergency Telecommunications Service (ETS) Network Element Requirements for IMS-based Next Generation Network (NGN) Phase 2 (new standard): 3 August 2016

ANSI/AWS B2.2/B2.2M-2016, Specification for Brazing Procedure and Performance Qualification (revision of ANSI/AWS B2.2/B2.2M -2009): 5 August 2016

ANSI/UL 94-2016a, Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances (revision of ANSI/UL 94-2015): 21 March 2016

ANSI/UL 746E-2016b, Standard for Safety for Polymeric Materials Industrial Laminates, Filament Wound Tubing, Vulcanized Fibre, and Materials Used In Printed-Wiring Boards (revision of ANSI/UL 746E-2013c): 5 August 2016

ANSI/UL 1066-2016, Standard for Safety for Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures (revision of ANSI/UL1066-2013): 2 August 2016

ANSI/UL 1066-2016a, Standard for Safety for Low-Voltage AC and DC Power Circuit Breakers Used in Enclosures (revision of ANSI/UL 1066-2013): 2 August 2016

ANSI/CTA 909-B-2010 (R2016), Antenna Control Interface (reaffirmation and redesignation of ANSI/CEA 909-B-2010): 3 August 2016

ANSI/TIA 222-G-2005 (R2016), Structural Standard for Antenna Supporting Structures and Antennas (reaffirmation of ANSI/TIA 222-G-2005 (R2012)): 3 August 2016

ANSI/TIA 222-G-1-2007 (R2016), Structural Standards for Steel Antenna Towers and Antenna Supporting Structures - Addendum 1 (reaffirmation of ANSI/TIA 222-G-1-2007 (R2013)): 3 August 2016

ANSI/TIA 1019-A-2012 (R2016), Standard for Installation, Alteration and Maintenance of Antenna Supporting Structures and Antennas (reaffirmation of ANSI/TIA 1019-A-2012): 3 August 2016

30-Day Notice of Withdrawal

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.

ANSI/AHAM HU-1-2006, Portable Household Humidifiers

ANSI/AHAM I-1-2005, Household Electric Irons

ANSI/AWS B2.1-1-232-2006, Standard Welding Procedure Specification (SWPS) for Argon Plus 25% Carbon Dioxide Shielded Gas Metal Arc Welding (Short Circuiting Transfer Mode) followed by Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1/S-1) Groups 1 and 2, 1/8 through 1-1/2 inch thick, ER70S-3 and E7XT-X, Flat Position Only, As-Welded or PWHT Condition, Primarily Pipe Applications

ANSI/AWS B2.1-1-233-2006, Standard Welding Procedure Specification (SWPS) for Argon Plus 25% Carbon Dioxide Shielded Gas Metal Arc Welding (Short Circuiting Transfer Mode) followed by Argon Plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (M-1/P-1/S-1), Groups 1 and 2, 1/8 through 1-1/2 inch thick, ER70S-3, Flat Position Only, As-Welded or PWHT Condition, Primarily Pipe Applications

ANSI/AWS B2.1-1-234-2006, Standard Welding Procedure Specification (SWPS) for Argon plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1/S-1) Groups 1 and 2, 1/8 through 1-1/2 inch thick, E7XT-X, As-Welded or PWHT Condition, Primarily Pipe Applications

ANSI/AWS B2.1-1-235-2006, Standard Welding Procedure Specification (SWPS) for Argon plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (M-1/P-1/S-1) Groups 1 and 2, 1/8 through 1-1/2 inch thick, ER70S-3, Flat Position Only, As-Welded or PWHT Condition, Primarily Pipe Applications

ANSI/AWS B5.4-2005, Specification for the Qualification of Welder Test Facilities

ANSI/AWS B5.9-2006, Specification for the Qualification of Welding Supervisors

ANSI/AWS B5.16-2006, Specification for the Qualification of Welding Engineers

ANSI/AWS C5.10/C5.10M-2003, Recommended Practices for Shielding Gases for Welding and Cutting

ANSI/AWS C6.2/C6.2M-2006, Specification for Qualification of Friction Welding of Metals

ANSI/AWS A5.18/A5.18M-2005, Specification for Carbon Steel Electrodes and Rods for Gas Shielded Arc Welding

ANSI/AWS B2.1-1-001-2006, Standard Welding Procedure Specification (WPS) Shielded Metal Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 through 3/4 inch, in the As-Welded Condition, With Backing

ANSI/AWS B2.1-1-002-2006, Standard Welding Procedure Specification (WPS) Gas Tungsten Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 through 7/8 inch, in the As-Welded Condition, With or Without Backing

ANSI/AWS B2.1-1-002-2006, Standard Welding Procedure Specification (WPS) Gas Tungsten Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 through 7/8 inch, in the As-Welded Condition, With or Without Backing

ANSI/AWS F1.1M-2006, Method for Sampling Airborne Particulates Generated by Welding and Allied Processes

ANSI/AWS F1.3M-2006, A Sampling Strategy Guide for Evaluating Contaminants in the Welding Environment

ANSI/AWS G1.1M/G1.1-2006, Guide to Ultrasonic Assembly of Thermoplastics

Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) and 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. Comments from US citizens regarding ISO documents should be sent to Karen Hughes at isot@ansi.org. The prices, when shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is first by due date then by alphanumeric designation.

ISO/DIS 19085-8, Woodworking machines - Safety - Part 8: Wide-belt calibrating and sanding machines; 26 August 2016; \$112.00

106/376/FDIS, Amendment 1 to IEC 62226-3-1: Exposure to electric or magnetic fields in the low and intermediate frequency range - Methods for calculating the current density and internal electric field induced in the human body - Part 3-1: Exposure to electric fields - Analytical and 2D numerical models; 16 September 2016

110/784/FDIS, IEC 62629-22-1 Ed.2: 3D Display devices - Part 22-1: Measuring methods for autostereoscopic displays – Optical; 16 September 2016

22H/208/FDIS, IEC 62040-5-3 Ed.1: Uninterruptible power systems (UPS) - Part 5-3: DC output UPS - Performance and test requirements; 16 September 2016

110/781A/DTR, IEC/TR 62977-2-3 Ed.1: Electronic display devices - Part 2-3: Measurements of optical properties - Multi-colour test patterns; 23 September 2016

22E/175/FDIS, IEC 61204-7 Ed.2: Low-voltage switch mode power supplies - Part 7: Safety requirements; 23 September 2016

46/615/FDIS, IEC 62153-4-16 Ed.1: Metallic communication cable test methods - Part 4-16: Electromagnetic compatibility (EMC) -Extension of the frequency range to higher frequencies for transfer impedance and to lower frequencies for screening attenuation measurements using the triaxial set-up; 23 September 2016

110/783/CD, IEC 62595-2-3 Ed.1: Display lighting unit - Part 2-3: Electro-optical measuring methods of LED frontlight unit; 30 September 2016

77/525/DTR, IEC TR 61000-4-1: Electromagnetic Compatibility (EMC) - Part 2-5: Environment - Description and classification of electromagnetic environments; 30 September 2016

77/525A/DTR, IEC TR 61000-2-5: Electromagnetic Compatibility (EMC) - Part 2-5: Environment - Description and classification of electromagnetic environments ; 30 September 2016

110/785/NP, Future IEC 61747-30-6 Ed.1: Liquid crystal display devices - Part 30-6: Measuring methods of optical performance for liquid crystal display modules under ambient illumination; 07 October 2016

34B/1875/CD, IEC 60061 f72 Ed.3: Lamp caps and holders together with gauges for the control of interchangeability and safety - Part 1: Lamp caps; Part 2: Holders; Part 3: Gauges; 28 October 2016

35/1366/NP, Future IEC 60086-6/Ed1: Primary batteries - Part 6: Environmental; 28 October 2016

3/1265/CDV, IEC 60445 Ed. 6.0: Basic and safety principles for manmachine interface, marking and identification - Identification of equipment terminals, conductor terminations and conductors; 04 November 2016;

33/589/CDV, IEC 61921/Ed2: Power capacitors: Low-voltage power factor correction banks; 04 November 2016;

40/2478/CD, IEC 61051-1 Ed.3: Varistors for use in electronic equipment - Part 1: Generic specification; 04 November 2016

C/1979/DV, Draft IEC Guide 118 Edition 1; Inclusion of energy efficiency aspects in electrotechnical publications. (NOTE: This document is to be read in conjunction with C/1980/DV.); 09 December 2016

C/1980/DV, Draft IEC Guide 119 Edition 1, Preparation of energy efficiency publications and the use of basic energy efficiency publications and group energy efficiency publications (NOTE: This document is to be read in conjunction with C/1979/DV.); 09 December 2016

ISO/DIS 24517-2, Document management - Engineering document format using PDF - Part 2: Use of 32000-2 including support for long-term preservation (PDF/E-2) ; 09 January 2018; \$88.00

Recently Published IEC & ISO Standards

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 60204-SER Ed. 1.0 b:2016, Safety of machinery – Electrical equipment of machines - ALL PARTS, \$1714.00

IEC 60269-2 Amd.1 Ed. 5.0 b:2016, Amendment 1 - Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K, \$43.00

IEC 61000-6-1 Ed. 3.0 b:2016, Electromagnetic compatibility (EMC) -Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments, \$121.00

S+ IEC 61000-6-1 Ed. 3.0 en:2016 (Redline version), Electromagnetic compatibility (EMC) - Part 6-1: Generic standards – Immunity standard for residential, commercial and light-industrial environments, \$156.00

IEC 61000-6-2 Ed. 3.0 b:2016, Electromagnetic compatibility (EMC) -Part 6-2: Generic standards - Immunity standard for industrial environments, \$121.00

S+ IEC 61000-6-2 Ed. 3.0 en:2016 (Redline version), Electromagnetic compatibility (EMC) - Part 6-2: Generic standards – Immunity standard for industrial environments, \$156.00

IEC 61078 Ed. 3.0 b:2016, Reliability block diagrams, \$387.00

IEC 61703 Ed. 2.0 b:2016, Mathematical expressions for reliability, availability, maintainability and maintenance support terms, \$363.00

IEC/TS 60204-34 Ed. 1.0 en:2016, Safety of machinery – Electrical equipment of machines - Part 34: Requirements for machine tools, \$254.00

ISO 3070-2:2016, Machine tools - Test conditions for testing the accuracy of boring and milling machines with horizontal spindle - Part 2: Machines with movable column along the X-axis (floor type), \$240.00

ISO 10140-1:2016, Acoustics - Laboratory measurement of sound insulation of building elements - Part 1: Application rules for specific products, \$240.00

TSP Meeting Schedule

The schedule for LDI meetings is available! 2016 LDI meetings will **NOT** be taking place at the Westgate Las Vegas Resort and Casino. The meetings **WILL** take place at the Embassy Suites, down the road from the convention center at 3600 Paradise Road. You can view the full schedule of ESTA LDI 2016 meetings at <http://tsp.esta.org/tsp/meetings/index.php>.

At the Embassy Suites, 3600 Paradise Road (unless otherwise noted):		
Control Protocols Working Group (CPWG)	09:00 – 11:30	Thursday 20 October 2016
CPWG BSR E1.33, RDMnet TG	10:00 – 18:00	Monday 24 October 2016
CPWG BSR E1.37-6 PID Descriptions TG	14:00 – 17:00	Sunday 23 October 2016
CPWG BSR E1.59, Vector Transmission TG	14:00 – 18:00	Wednesday 19 October 2016
CPWG sACN IPv6 TG (This meeting is on the ESTA booth #2181)	13:00 – 17:00	Thursday 20 October 2016
Electrical Power Working Group (EPWG)	19:00 – 23:00	Friday 21 October 2016
Floors Working Group (FWG)	15:00 – 18:00	Friday 21 October 2016
Rigging Working Group (RWG)	19:00 – 23:00	Wednesday 19 October 2016
RWG BSR E1.4-3, Manual Hoists TG	14:00 – 18:00	Wednesday 19 October 2016
RWG BSR E1.6-1, Powered Hoist TG	09:00 – 13:00	Thursday 20 October 2016
RWG BSR E1.56, Rigging Points TG	09:00 – 13:00	Thursday 20 October 2016
Technical Standards Council	14:00 – 18:00	Wednesday 19 October 2016

ESTA Standards Watch

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As of 15 April 2013, all of the standards published by ESTA's Technical Standards Program are available to download, free of charge, at <http://www.tsp.esta.org/freestandards>, courtesy of a partnership between ESTA and [ProSight Specialty Insurance](#).

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DesignLab Chicago / Interesting Products
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Steve A. Walker & Associates*
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Barbizon Electric
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