



# Technical Standards Program

## ESTA Standards Watch

February 2016    Volume 20, Number 3

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### Two to Review!

Two ESTA draft standards have been posted for public review at [http://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](http://tsp.esta.org/tsp/documents/public_review_docs.php): BSR E1.33, Entertainment Technology — (RDMnet) — Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks, and BSR E1.31, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN. The official ANSI public review period is from 26 February through 11 April 2016, but the documents are posted now. Comments offered before the official public review period will be accepted. Ones offered after it closes may not be accepted. Anyone who would be materially affected by these draft standards is invited to comment.

## A Call for ESTA Experts

The strong reputation of ESTA and our key programs, including Technical Standards and ETCP, continues to spread; we have recently been contacted by a number of organizations asking us to provide important content to their members and attendees. But it's not ESTA that does this; it's you, ESTA's members, who are the subject-matter experts.

ESTA is developing a collection of topics and speakers around the country from which we can draw to be able to provide content in return for income to help support the Technical Standards Program and ESTA in general. As you know, LDI has ended our long-term agreement, which provided a significant royalty to ESTA from the sale of exhibit booths at the show. We now have to find a way to replace that income.

Do you have a particular topic you would be interested in speaking on? It could be technical in nature, such as explaining how to comply with one of our American National Standards or what went into pulling off a particularly complex production. It could cover design issues, from a theatre to a show to a luminaire. It could be a training session on a product or on a specific skill. It could address business challenges or introduce new technology. We would not be able to pay a fee for your presentation but we hope to cover basic travel expenses.

Please email [lori.rubinstein@esta.org](mailto:lori.rubinstein@esta.org) if you are interested in becoming an ESTA Presenter. You'll be helping to educate others, increase professionalism, and ensure the survival of ESTA and our key programs!

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## Technical Standards Program Volunteers Recognized for Service

ESTA's Technical Standards Council is pleased to announce the recipients of the third annual *Above & Beyond Awards* designed to recognize outstanding Technical Standards Program volunteers. The awards celebrate those volunteers that have made a significant contribution or effort that advances the Technical Standards Program. The TSP exists because hundreds of individuals from across the industry volunteer their expertise and significant amounts of time throughout the year to write standards that increase safety, solve problems, and make life easier. These awards are particularly meaningful to the recipients because the nominations are made by their peers within the Technical Standards Program.

The Above & Beyond Awards for 2015 were presented to:

**Tyrone Mellon Jr.** (Electrical Power Working Group) was cited "As a significant contributor to ANSI E1.24, Dimensional Requirements for Stage Pin Connectors and the Task Group leader for ANSI E1.19, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters. Tyrone has volunteered hundreds of hours in pursuit of important interoperability and safety standards that have made significant contributions to the safety and well-being of the people in our industry."

**The E1.43 "Flying Performer" Task Group** (Rigging Working Group) was cited for "their hard work, commitment and dedication to writing a standard for flying performers, a difficult and sometimes contentious project. The members of the Task Group are: Mark Ager, Dana Bartholomew, Joe Champelli, Bill Gorlin (Chair), Rod Haney, Dan Lisowski, Joe McGeough, and Orestes Mihaly.

**Peter Scheu and Duane Wilson** (Stage Lifts Working Group) were cited for "consistently coordinating their efforts and schedules to ensure attendance at Task Group meetings and to facilitate collaboration on homework assignments. Each of them volunteered to take on difficult assignments - helping to share the overall workload. As voting members representing the American Society of Theatre Consultants, they were both adamantly supportive of keeping the Stage Lifts Working Group going at a time when its future was uncertain."

## IES Light + Color Research Symposium Registration Open

Registration is now open for IES Light + Color Research Symposium, to be held at the Hilton Gaithersburg and the National Institute of Standards and Technology in Gaithersburg, MD on April 3 through 5. The event will connect the talents and expertise of the researcher, technologist and design professional to better understand the growing role of color in lighting, examining color vision, perception, preference, metrics and technology. The symposium will also include an opportunity to visit select laboratories relevant to color testing at NIST.

Registration for the IES Research Symposium will close on 21 March 2016. There will be no on-site registration. Attendees must pre-register.

For more information about Light + Color, visit <http://www.ies.org/symposium> or contact Valerie Landers, IES Director of Member Services at [vlanders@ies.org](mailto:vlanders@ies.org).

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## 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. "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> gives advice for US citizens on preparing and transmitting comments. See <http://ec.europa.eu/enterprise/tbt/> for filing European TBT objections.

### Israel Notification ISR/855

**Date issued:** 9 February 2016

**Agency responsible:** Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)

**National inquiry point:** Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)

**Products covered:** Mobile elevating work platforms (HS 84251, 84254)

**Title:** SI 5697 - Mobile elevating work platforms - Design calculations - Stability criteria - Construction - Safety - Examinations and tests

**Description of content:** Revision of the Mandatory Standard SI 5697 dealing with safety features of mobile elevating work platforms (MEWP). This new draft standard revision allows to choose between 2 different routes of compliance:

- Compliance with the European standard EN 280: July 2013 including Israeli national changes and deviations that appear in the standard's Hebrew section;

- Compliance with one of 4 different American Standards: ANSI/SIA A92.2-2009, ANSI/SIA A92.3-2006, ANSI/SIA A92.5-2006 or ANSI/SIA A92.6-2006 including additional Israeli national changes and deviations that appear in the standard's Hebrew section.

It is not allowed to combine between the different routes and one should stick to the chosen route in order to achieve compliance with this standard.

**Objective and rationale:** Protection of human health or safety

**Relevant documents:** · Israel Mandatory Standard SI 5697 (September 2009) and Amendment 1 (June 2012) · European standard EN 280: July 2013 · American Standard ANSI/SIA A92.2-2009 · American Standard ANSI/SIA A92.3-2006 · American Standard ANSI/SIA A92.5-2006 · American Standard ANSI/SIA A92.6-2006

**Proposed date of adoption:** 4 February 2016 [It's a done deal!]

**Proposed date of entry into force:** Not given by country

**Final date for comments:** 9 March 2016

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/ISR/full\\_text/pdf/ISR855\(hebrew\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR855(hebrew).pdf)

### Philippines Notification PHL/194

**Date issued:** 29 January 2016

**Agency responsible:** Environmental Management Bureau, Department of Environment and Natural Resources (DENR)

**National inquiry point:** Bureau of Product Standards, Department of Trade and Industry

**Products covered:** Electrical and electronic equipment

**Title:** Guidelines on the Environmentally Sound Management (ESM) of Waste Electrical and Electronic Equipment (WEEE)

**Description of content:** The Philippines is a traditional importer and exporter of electrical and electronic equipment (EEE), both new and used, including scraps. With the global rapid advances in technology for commercial, industrial, and household products and appliances, there is a corollary increase in Waste Electrical and Electronic Equipment (WEEE) as well as hazardous substances from the source materials involved in their manufacture and use. Recognizing the risks of these materials in part or in whole to human health and the environment and in compliance with the Basel Convention, the Department of Environment and Natural Resources (DENR), through the Environmental Management Bureau (EMB), has developed this Technical Guidelines on the Environmentally Sound management (ESM) of WEEE.

The draft guidelines provides the compliance framework for producers, manufacturers, consumers, distributors, retailers, treatment facilities, and other stakeholders involved in the life cycle of WEEE.

**Objective and rationale:** The objectives of the draft guidelines are to a) Provide the framework mechanism for the appropriate management of WEEE; b) Reduce the amount of electrical and electronic equipment (EEE) type of waste and the hazards brought about by its components; c) Promote the reuse of EEE and valorisation of its waste components; d) Encourage involvement of all relevant agencies and stakeholders in the life cycle of EEE through design innovation leading to their more efficient dismantling, recycling, and reuse; and e) institutionalize the principle of "extended producers responsibility" (EPR) in addressing the financial requirements involved in the implementation of the WEEE Guidelines.

**Relevant documents:** Final Draft Guidelines on the Environmentally Sound Management (ESM) of Waste Electrical and Electronic Equipment (WEEE)

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

**Proposed date of entry into force:** Not given by country

**Final date for comments:** 31 March 2016

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/PHL/full\\_text/pdf/PHL194\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/PHL/full_text/pdf/PHL194(english).pdf)

#### **Ukraine Notification UKR/106**

**Date issued:** 8 February 2016

**Agency responsible:** Ministry of Economic Development and Trade

**National inquiry point:** WTO National Enquiry Point & Information Processing Centre

**Products covered:** Electrical and electronic equipments

**Title:** The Draft Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Technical Regulation on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment"

**Description of content:** The Draft of the Technical Regulations provides the establishment of restriction for the use of certain hazardous substances in electrical and electronic equipment such as: household equipment; computer and telecommunications equipment; household appliances; lighting equipment; toys, leisure and sports equipment; automatic dispensers; monitoring and control instruments.

**Objective and rationale:** The Draft Resolution aims for harmonization of national legislation with relevant legislation of the European Union concerning technical regulation, in particular the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on harmonization of the legislation of the Member-States relating to electrical and electronic equipment, which cancels the Directive 2002/98/EC since 27 January 2003. Currently, the Technical Regulation of electrical and electronic equipment, approved by the Resolution of the Cabinet of Ministers of Ukraine No. 1057 of 3 December 2008, is in force and which was adopted with consideration of provisions of the Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003 on harmonization of the laws of the Member-States relating to electrical and electronic equipment.

**Relevant documents:** The Directive 2011/65/EC of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

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

**Proposed date of entry into force:** Not given by country

**Final date for comments:** 9 April 2016

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/UKR/full\\_text/pdf/UKR106\(ukrainian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR106(ukrainian).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](mailto:psa@ansi.org).

### Due 14 March 2016

#### **BSR/ASSE Z359.16-201X, Safety Requirements for Climbing Ladder Fall Arrest Systems** (new standard)

This standard establishes requirements for the performance, design, marking, qualification testing, instructions for use, inspection, maintenance and storage, and removal from service of vertically oriented climbing ladder fall arrest systems consisting of flexible and rigid carriers with multiple attachment points and associated carrier sleeves for users within the capacity range of 130 to 310 pounds (59 to 141 kg).

Single copy price: \$80.00

Order from and send comments to: Tim Fisher, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

#### **BSR/ASSE Z359.18-201X, Safety Requirements for Anchorage Connectors for Active Fall Protection Systems** (new standard)

This standard specifies requirements for the performance, design, testing, marking, and instructions for use of anchorage connectors in fall arrest, rescue, positioning, rope access, and suspended component line systems.

Single copy price: \$80.00

Order from and send comments to: Tim Fisher, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

#### **BSR/NFSI B101.8-201x, Standard Guide for Floor Safety Management Program for Slip, Trip and Fall Prevention** (new standard)

This standard sets forth criteria to assist organizations in their efforts to establish a floor safety management program including the roles and the responsibilities of management, supervisory, and operational levels using accepted best practices to prevent and mitigate the risks of slips, trips and falls on walkways (S/T/F's).

Single copy price: \$30.00

Order from: Laura Cooper, [laurac@nfsi.org](mailto:laurac@nfsi.org)

Send comments to: Russell Kendzior, [russk@nfsi.org](mailto:russk@nfsi.org), and Laura Cooper, [laurac@nfsi.org](mailto:laurac@nfsi.org)

### Due 21 March 2016

#### **BSR/ASME B30.19-201x, Cableways** (revision of ANSI/ASME B30.19-2011)

B30.19 applies to all load transporting, hoisting, and lowering cablesupported systems operating on and supported from track cable(s). This standard does not apply to skyline systems, as used in the logging industry, or slackline systems used for excavating.

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)

### Due 29 March 2016

#### **BSR/INCITS/ISO/IEC 14882:2014 [201x], Information technology - Programming languages - C++** (identical national adoption of ISO/IEC 14882:2014 and revision of INCITS/ISO/IEC 14882:2014 [2015])

This standard specifies requirements for implementations of the C++ programming language. The first such requirement is that they implement the language, and so this International Standard also defines C++. Other requirements and relaxations of the first requirement appear at various places within this International Standard.

Single copy price: \$265.00

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

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

### Due 5 April 2016

#### **BSR/IEEE 1789-201x, Recommended Practices for Modulating Current in High-Brightness LEDs for Mitigating Health Risks to Viewers** (new standard)

The scope of this standard is to: (1) define the concept of modulation frequencies for LEDs and discuss their applications to LED lighting, (2) describe LED lighting applications in which modulation frequencies pose possible health risks to users, (3) discuss the dimming of LEDs by modulating the frequency of driving

currents/voltage, and (4) present recommendations for modulation frequencies (flicker) for LED lighting and dimming applications to help protect against known potential adverse health effects.

Single copy price: \$89.00 (pdf); \$110.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments to: Karen Evangelista, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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**BSR/IEEE 26531-201x, Systems and software engineering – Content management for product life-cycle, user, and service management documentation** (new standard)

This standard states requirements for efficient development and management of content produced:

- throughout the life-cycle of a system and software product;
- for the provision of user documentation for systems and software; and
- for the management of IT services.

This standard is independent of the tools, protocols, and systems used for content management. It does not address configuration management of software assets.

Single copy price: \$93.00 (pdf); \$115.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments to: Karen Evangelista, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

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## BSI Public Review Announcements

BSI Standards has announced a draft document for public review that might be of interest to Standards News readers. The document may be commented on at <http://drafts.bsigroup.com/>. All the drafts noted here are for EN standards, so their potential impact is pan-European.

### Due 24 February 2016

**EN 15759-2, [Conservation of cultural heritage — Indoor climate — Part 2: Ventilation to protect heritage buildings and collections](#)**

The European Standard provides guidance for managing ventilation in heritage buildings, or buildings housing collections, in order to achieve adequate preservation of building fabric and objects they contain while at the same time creating an indoor environment that allows for a sustainable use of these buildings. The standard is a complement to existing general standards for ventilation in buildings focusing on human comfort. This European Standard can also be used to support selection of heating strategies and heating systems for heritage buildings, or buildings housing collections.

### Due 14 March 2016

**EN 13814-3, [Safety of amusement rides and amusement devices. Part 3: Requirements for inspection during design, manufacture, operation and use](#)**

This part of EN 13814 defines requirements for the necessary inspections, in accordance with ISO/IEC 17020, of amusement devices designed, manufactured, operated and used according to prEN 13814-1:2016 and prEN 13814-2:2016. [It does what it says on the tin!]

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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/AWS B2.3/B2.3M-201x, Specification for Soldering Procedure and Performance Qualification**  
(revision of ANSI/AWS B2.3/B2.3M -2012)

This specification provides the requirements for qualification of soldering procedure specifications, solderers, and soldering operators for manual, mechanized, and automatic soldering. The soldering processes included are

torch soldering, furnace soldering, induction soldering, resistance soldering, dip soldering, iron soldering, and infrared soldering. Base metals, soldering filler metals, soldering fluxes, soldering atmospheres, and soldering joint clearances are also included.

Contact: Jennifer Rosario, [jrosario@aws.org](mailto:jrosario@aws.org)

**BSR/IEEE 3333.1.1-201x, Standard for Quality of Experience (QoE) and Visual-Comfort Assessments of Three-Dimensional (3D) Contents Based on Psychophysical Studies** (new standard)

This standard establishes methods for visual saliency prediction, visual contents analysis, and subjective assessment for quantifying the visual discomfort and quality of experience (QoE) of 3D image and video..

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

**BSR/ISO/MSE 17747-201x, Determination of energy savings in organizations** (identical national adoption of ISO 17747:2015)

This standard provides methods for the determination of energy savings in organizations. This standard can be utilized by organizations with or without a formal energy management system. The methods covered in the standard are based on changes in the amount of energy consumed or the combined energy savings from the energy performance improvement actions (EPIAs) measured within the organizational boundary.

Contact: Moon Kim, [Moon.Kim@gtri.gatech.edu](mailto:Moon.Kim@gtri.gatech.edu)

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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.

**ANSI/ASME HST-4-2016**, Performance Standard for Overhead Electric Wire Rope Hoists (revision of ANSI/ASME HST-4-1999 (R2010)): 26 January 2016

**ANSI/ASNT CP-189-2016**, ASNT Standard for qualification and certification of Nondestructive testing personnel (revision of ANSI/ASNT CP-189-2011): 26 January 2016

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## 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](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).

### Due in February 2016

**ISO/DIS 12354-1**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 1: Airborne sound insulation between rooms - 28 February 2016

**ISO/DIS 12354-2**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 2: Impact sound insulation between rooms - 28 February 2016

**ISO/DIS 12354-3**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 3: Airborne sound insulation against outdoor sound - 28 February 2016

**ISO/DIS 12354-4**, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements - Part 4: Transmission of indoor sound to the outside - 28 February 2016

**ISO/DIS 15296**, Gas welding equipment - Vocabulary - Terms used for gas welding equipment - 28 February 2016

**ISO/DIS 5175-1**, Gas welding equipment - Safety devices - Part 1: Incorporating a flame (flashback) arrestor - 28 February 2016

**ISO/DIS 5175-2**, Gas welding equipment - Safety devices - Part 2: Not incorporating a flame (flashback) arrestor - 28 February 2016

**ISO/IEC 23003-2/DAmD5**, Information technology - MPEG audio technologies - Part 2: Spatial Audio Object Coding (SAOC) - Amendment 5: SAOC Reference Software - 29 February 2016

**ISO/IEC DIS 17826**, Information technology - Cloud Data Management Interface (CDMI) - 25 February 2016

**Due in March 2016**

**113/302/DC, PWI 113-89: IEC/TS 62607-3-3: Nanomanufacturing - Key control characteristics - Luminescent nanomaterials - Determination of fluorescence lifetime**, 18 March 2016

**121A/71/FDIS, IEC 60947-2 Ed.5: Low-voltage switchgear and controlgear - Part 2: Circuit-breakers**, 04 March 2016

**Due in April 2016**

**34C/1189/CD, IEC 62386-207 Ed.2: Digital addressable lighting interface - Part 207: Particular requirements for control gear - LED modules (device type 6)**, 15 April 2016

**34C/1190/NP, PNW 34C-1190: IEC 62386-216: Digital addressable lighting interface - Part 216: Particular requirements for control gear - Load referencing (device type 15)**, 22 April 2016

**34C/1191/NP, PNW 34C-1191: IEC 62386-217: Digital addressable lighting interface - Part 217: Particular requirements for control gear - Thermal gear protection (device type 16)**, 22 April 2016

**34C/1192/NP, PNW 34C-1192: IEC 62386-218: Digital addressable lighting interface - Part 218: Particular requirements for control gear - Dimming Curve Selection (device type 17)**, 22 April 2016

**34C/1193/NP, PNW 34C-1193: IEC 62386-220: Digital addressable lighting interface - Part 220: Particular requirements for control gear - Centrally Supplied DC Emergency Operation (device type 19)**, 22 April 2016

**34C/1194/NP, PNW 34C-1194: IEC 62386-222: Digital addressable lighting interface - Part 222: Particular requirements for control gear - Thermal lamp protection (device type 21)**, 22 April 2016

**34C/1195/NP, PNW 34C-1195: IEC 62386-224: Digital addressable lighting interface - Part 224: Particular requirements for control gear - Integrated light source (device type 23)**, 22 April 2016

**34D/1190/CDV, IEC 60598-2-4 Ed.3: Luminaires - Part 2: Particular requirements - Section 4: Portable general purpose luminaires**, 22 April 2016

**34D/1191/CDV, IEC 60598-2-17 Ed.2: Luminaires - Part 2-17: Particular requirements - Luminaires for stage lighting, television and film studios (outdoor and indoor)**, 22 April 2016

**34D/1193/CDV, Amendment 1 to IEC 60598-1 Ed.8: Luminaires - Part 1: General requirements and tests**, 22 April 2016

**35/1358/CD, IEC 60086-4/Ed5: Primary batteries - Part 4: Safety of lithium batteries**, 22 April 2016

**65B/1030/CDV, IEC 61131-2 Ed 4.0:** Programmable Controllers - Part 2: Equipment requirements and tests, 29 April 2016

**108/639/CD, IEC 62368-3/Ed1:** Audio/video, information and communication technology equipment - Safety - Part 3: Remotepower feeding, 15 April 2016

**ISO/DIS 19828,** Welding for aerospace applications - Visual inspection of welds - 30 April 2016

**ISO/DIS 80000-7,** Quantities and units - Part 7: Light and radiation - 30 April 2016

**Due in May 2016**

**ISO/DIS 17279-1,** Welding - Micro joining of 2nd generation high temperature superconductors - Part 1: General requirements for the procedure - 7 May 2016

**ISO/DIS 17279-2,** Welding - Micro joining of 2nd generation high temperature superconductors - Part 2: Qualification for welding and testing personnel - 7 May 2016

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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 60695-1-20 Ed. 1.0 b:2016,** Fire hazard testing - Part 1-20: Guidance for assessing the fire hazard of electrotechnical products - Ignitability - General guidance, \$182.00

**IEC 60909-0 Ed. 2.0 b:2016,** Short-circuit currents in three-phase a.c. systems - Part 0: Calculation of currents, \$339.00

**ISO 17881-1:2016,** Textiles - Determination of certain flame retardants - Part 1: Brominated flame retardants, \$88.00

**ISO 17881-2:2016,** Textiles - Determination of certain flame retardants - Part 2: Phosphorus flame retardants, \$88.00

**ISO/IEC 13249-3:2016,** Information technology - Database languages - SQL multimedia and application packages - Part 3: Spatial, \$265.00

**ISO/IEC 30130:2016,** Software engineering - Capabilities of software testing tools, \$173.00

**ISO/IEC 8652/Cor1:2016,** Information technology - Programming languages - Ada - Corrigendum, FREE

**ISO/IEC TR 13066-2:2016,** Information technology - Interoperability with assistive technology (AT) - Part 2: Windows accessibility application programming interface (API), \$265.00

**ISO/IEC TR 15440:2016,** Information technology - Future keyboards and other input devices and entry methods, \$149.00

**ISO/IEC TS 19571:2016,** Programming Languages - Technical specification for C++ extensions for concurrency, \$149.00

## TSP Meeting Schedule

The TSP meeting schedule is posted at <http://tsp.esta.org/tsp/meetings/index.php>. The meetings scheduled at the Downtown Marriott in Salt Lake City, UT, are in conjunction with [USITT 2016](#). The July meetings at the Roosevelt Hotel are in conjunction with the [North American Theatre Engineering Architecture Conference](#).

| <b>At the Salt Lake City Downtown Marriott:</b> |               |                         |
|---|---------------|-------------------------|
| Control Protocols WG                            | 09:00 – 13:00 | Thursday 17 March 2016  |
| Electrical Power WG                             | 14:00 – 17:00 | Wednesday 16 March 2016 |
| Floors Working Group                            | 08:00 – 11:00 | Saturday 19 March 2016  |
| Fog & Smoke WG                                  | 09:00 – 11:00 | Friday 18 March 2016    |
| Followspot Positions WG (meet in ESTA booth)    | 14:30 – 15:00 | Thursday 17 March 2016  |
| Photometrics WG                                 | 11:00 – 13:00 | Friday 18 March 2016    |
| Rigging WG                                      | 19:00 – 23:00 | Thursday 17 March 2016  |
| Stage Lifts WG                                  | 09:00 – 13:00 | Wednesday 17 March 2016 |
| Technical Standards Council                     | 19:00 – 23:00 | Wednesday 16 March 2016 |

| <b>At the Roosevelt Hotel in New York City:</b> |               |                        |
|---|---------------|------------------------|
| Control Protocols Automation Study Group        | 14:00 – 18:00 | Friday 15 July 2016    |
| Control Protocols BSR E1.20 TG                  | 09:00 – 13:00 | Friday 15 July 2016    |
| Control Protocols BSR E1.33 TG                  | 14:00 – 18:00 | Thursday 14 July 2016  |
| Control Protocols BSR E1.37-4 TG                | 13:00 – 16:00 | Saturday 16 July 2016  |
| Control Protocols BSR E1.37-5 TG                | 09:00 – noon  | Saturday 16 July 2016  |
| Control Protocols WG                            | 09:00 – 13:00 | Thursday 14 July 2016  |
| Fog & Smoke WG                                  | 14:00 – 16:00 | Friday 15 July 2016    |
| Photometrics WG                                 | 16:00 – 18:00 | Friday 15 July 2016    |
| Rigging WG                                      | 09:00 – 13:00 | Friday 15 July 2016    |
| Stage Lifts WG                                  | 09:00 – 13:00 | Saturday 16 July 2016  |
| Technical Standards Council                     | 14:00 – 18:00 | Thursday, 14 July 2016 |

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## ESTA Standards Watch

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