



# ESTA Standards Watch

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## Five ESTA Draft/Proposed Standards in Public Review

Five documents are available for public review at [http://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](http://tsp.esta.org/tsp/documents/public_review_docs.php) and the review is free. This is a different list of five than was in the last issue of *Standards Watch*. In order of comment closing date they are:

### **BSR E1.4-3, Entertainment Technology—Manually Operated Hoist Rigging Systems**

This draft 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 is for systems that don't use counterweights, only muscle-power. This is another new standard. Comments are due no later than 15 January 2018.

### **BSR E1.35, Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use**

This is a public review of an existing standard, ANSI E1.35 – 2013. The standard describes a method for measuring stage and studio luminaire lens quality with particular emphasis on contrast and perceived sharpness. It also offers a way for presenting these results on a datasheet in a format that is readily understood by a typical end-user. Comments are due no later than 15 January 2018.

### **BSR E1.51, The Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use at 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Television, Film, Live Performance and Event Industries in Canada**

E1.51 is intended to offer guidance, in the context of applicable standards and regulations in Canada, on how to select, install, use, and maintain single-conductor portable feeder cables used to supply power for television, film, live performance, and special events in Canada. This is a new standard. Comments are due no later than 15 January 2018.

### **BSR E1.6-1, Entertainment Technology – Powered Hoist Systems**

This standard establishes requirements for the design, manufacture, installation, inspection, and maintenance of powered hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. This standard does not apply to the structure to which the hoist is attached, attachment of loads to the load carrying device, systems for flying people, welded link chain hoists, and manually powered hoists. Comments are due no later than 19 February 2018.

### **BSR E1.46, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms**

The users of theatrical stages and raised platforms can suffer debilitating injuries from falls into orchestra pits, open stage lifts, and similar openings in stage floors. Health and safety regulations require action to prevent these falls, but offer little guidance that is suitable for theatrical environments. This document provides that guidance. The consensus body has decided to revise the existing ANSI E1.46 - 2016 standard due to recent changes in 29 CFR 1910 subpart D. Comments are due no later than 12 March 2018.

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### **powerCON® TRUE1 Safety Notice**

Neutrik has issued a safety notice warning, “Through improper use and the excessive use of force, the encoding lugs and guide slots in the connector system can become so severely worn or damaged that it is possible to insert the cable connector the wrong way. . . . A cable connector inserted the wrong way could, in some circumstances, lead to contact between live wires and the grounding contact in the plug socket.”

A link to the notice is available on the Neutrik website at <http://www.neutrik.com/>. The safety notice gives instructions for identifying properly made and improperly made connections.

It should be noted that people have been able to mate new connectors with the contacts missaligned. That is, wear is not a necessary condition for the misconnection. The mismatched connectors shown in the picture below are brand new, unused.



## Register for NAMM

If you want to get on to the NAMM show floor or attend any educational session, you must register. Use this link, <https://registration.experientevent.com/ShowAMM181/?flowcode=NONM>, with the registration code ESTA18NAMM and select “Event Technology” as your professional community.

Most of the ESTA-curated educational sessions are filled up but we are maintaining a waiting list. Email [namm18sessions@esta.org](mailto:namm18sessions@esta.org) with the list of classes you would like to attend. You can view the schedule at [esta.org/namm](http://esta.org/namm). In addition, you can show up at the door prior to the start of the class and if there are available places you will be seated.

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## FCC News: Islands Update

Going to Puerto Rico or the Virgin Islands, or trying to do business with someone there? The FCC releases status reports almost daily about the state of cable, telephone, radio, and television service in Puerto Rico and the U.S. Virgin Islands, and, while the news is better than it has been, it's still not good. These services were knocked out by Hurricane Maria in late September 2017. As of 8 January 2018, about 90% of the cellular phone towers in Puerto Rico are back in service, but the majority of cell phone towers are still out of service in Culebra and Vieques. Cellular service on the Virgin Islands is about 85% functional.

Television service is a little above non-existent. Two television stations in Puerto Rico and the Virgin Islands are functional. Eighty-four stations have permission to be offline (not working), two stations are suspected to be out of service, and 32 stations have “unconfirmed status”—that is, the FCC doesn't know if they are working or not. About half the FM and AM radio stations are operational.

The FCC does not have numbers for the status of wired telephone and cable systems in Puerto Rico and the Virgin Islands, but notes “Since there are widespread power outages in Puerto Rico and the U.S. Virgin Islands, the FCC has received reports that large percentages of consumers are without either cable services or wireline service. While the companies have been actively restoring service, the majority of their customers do not have service because commercial power is not yet available in their respective areas.”

The lack of power and communications services may affect the ability of *Standards Watch* readers to visit, live, or do business in these U.S. territories, if power or communications are important for whatever they do. Plan accordingly.

You can find the most recent reports by checking the FCC's news headlines at <https://www.fcc.gov/news-events/headlines>. This manual check appears to be the only way to find them; on January 10, the FCC's website search engine returned nothing more recent than early December of last year with “Hurricane Maria” as the search term.

The 8 January 2018 *Communications Status Report for Areas Impacted by Hurricane Maria* is available at [http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2018/db0108/DOC-348609A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2018/db0108/DOC-348609A1.pdf).

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## NFPA Issues 27 Tentative Interim Amendments

Early last month the National Fire Protection Association issued Tentative Interim Amendments for four standards that are of interest to *Standards Watch* readers. Check them out! The TIAs can be found on the current edition pages of the referenced standards at <https://www.nfpa.org/Codes-and-Standards>.

### TIA about Spark Effects for NFPA 1126

The NFPA has issued a Tentative Interim Amendment to revise section 3.3.40 and add new section 3.3.41 of the 2016 edition of NFPA 1126, *Standard for the Use of Pyrotechnics Before a Proximate Audience* (TIA log #1317). This is to address fountain simulation products, such as Sparkular and Miss-K, which made AHJs nervous by looking like pyrotechnic effects, but actually being flame effects. What to do? Use NFPA 1126 or NFPA 160? This TIA throws these flame effects into the scope of the pyrotechnic effects standard.

1. Revise 3.3.40 to read as follows:

**3.3.40 Pyrotechnic Device.** Any device containing pyrotechnic material or pyrotechnic effect simulation equipment and capable of producing a special effect as defined in this standard.

2. Add a new definition to read as follows; and renumber subsequent definitions accordingly:

**3.3.41 Pyrotechnic Effect Simulation Equipment.** Equipment that uses a chemical mixture, heat source, and the introduction of oxygen to initiate or maintain combustion and is used to produce visible or audible effects by combustion, deflagration, or detonation.

## **TIAAs for NFPA 101 & 5000**

Check them out and see if they affect your work! The Tentative Interim Amendments for the 2018 editions of NFPA 101, the Life Safety Code, and NFPA 5000, the Building Construction and Safety Code, are published on the doc info pages at <http://www.nfpa.org/101> and <http://www.nfpa.org/5000>.

1. TIA 18-4: Revise sections 12.7.14, 13.7.14, 13.7.14.1 and 13.7.14.2(new) of the 2018 edition of NFPA 101. Makes Integrated Fire Protection Systems be Integrated Fire Protection and Life Safety Systems.
2. TIA 18-5: Revise sections 9.11.4 and A.9.11.4 and add new sections 9.3.5 (new) and 9.11.4 to the 2018 edition of NFPA 101. More about integrated fire protection and life safety systems.
3. TIA 18-6: Revise sections 14.7.6, 15.7.6 (new), 16.7.6 and 17.7.6 (new) of the 2018 edition of NFPA 101. More about integrated fire protection and life safety systems.
4. TIA 18-7: Revise section 11.8.9 of the 2018 edition of NFPA 101. More about integrated fire protection and life safety systems. Simplifies testing requirements.
5. TIA 18-8: Revise sections 18.7.10, 19.7.10, 20.7.10, and 21.7.10 of the 2018 edition of NFPA 101. More about integrated fire protection and life safety systems, particularly for high-rise buildings.
6. TIA 18-9: Revise sections 40.7.4 and 42.9.4 of the 2018 edition of NFPA 101. Ditto.
7. TIA 18-10: Revise sections 36.7.8, 37.7.8, 38.7.8 (new), 39.7.8 (new) and 39.4.2.4 of the 2018 edition of NFPA 101. Ditto.
8. TIA 18-11: Add new sections 26.7.2(new), 28.7.8(new), 31.7.4(new) and revise section 30.7.4 to the 2018 edition of NFPA 101. More about integrated fire protection and life safety systems and testing.

For NFPA 5000:

1. TIA 18-2: Revise section 16.3.7 of the 2018 edition of NFPA 5000. More about integrated fire protection and life safety systems and testing, but now for the NFPA's building code.
2. TIA 18-3: Add new section 26.3.6 to the 2018 edition of NFPA 5000. More about integrated fire protection and life safety systems and testing.
3. TIA 18-4, log #1323: Replace 55.1.4.2 and associated Annex A material with new 55.1.4.2 and new associated Annex A material and revise section 55.7.3 of the 2018 edition of NFPA 5000. New testing requirements for integrated fire protection and life safety systems. (The TIA number is the same as a TIA for NFPA 101, so the log # is also being listed here.)
4. TIA 18-5, log #1325: Revise section 21.3.9 of the 2018 edition of NFPA 5000. More life safety added.
5. TIA 18-6, log #1327: Revise sections 17.3.8 and 18.3.8 of the 2018 edition of NFPA 5000. More life safety.
6. TIA 18-7, log #1329: Add new section 33.3.9 to the 2018 edition of NFPA 5000. More about integrated fire protection and life safety systems and testing.
7. TIA 18-8, log #1331: Revise sections 19.3.4.6 and 20.3.4.5 of the 2018 edition of NFPA 5000. More about integrated fire protection and life safety systems and testing.
8. TIA 18-9, log #1333: Revise sections 29.3.7, 30.3.7 and new section 34.2.7 of the 2018 edition of NFPA 5000. More about integrated fire protection and life safety systems and testing.
9. TIA 18-10, log #1335: Revise sections 27.3.8 and 28.3.8 of the 2018 edition of NFPA 5000. Ditto.
10. TIA 18-11, log #1337: Add new sections 23.6 and revise sections 24.5.5 and 25.5.5 to the 2018 edition of NFPA 5000. (The NFPA website has the first clause missidentified as 2.3.6.) More integrated fire protection and life safety system requirements and testing.)

## TIA's for NFPA 70, the NEC

The TIA's for the National Electrical Code are more of a potpourri, affecting PoE, EV charging systems, healthcare facilities, and emergency system wiring.

1. TIA 17-7, Revise 700.10(D)(1)(3). Adds a 2-hour fire rating to fire-resistive cable systems.
2. TIA 17-8, Revise 700.10(D). Removes healthcare occupancies from requiring fire protection for the emergency systems.
3. TIA 17-9, Revise 625.17(B). Changes requirements for electric vehicle charging systems.
4. TIA 17-10, Revise 725.2, 725.121(c), and 725.144(A). Affects PoE installations and their wiring.
5. TIA 17-11, Revise 725.144(B). Also affects PoE wiring rules.
6. TIA 17-12, Revise 840.2 and 840.160. Affects PoE wiring rules.
7. TIA 17-13, Revise 336.10(9). Affects use of type TC-ER cable in one and two-family homes.
8. TIA 17-14, Revise 505.9(E)(2). Changes rules for threaded fittings on explosion-proof and flame-proof equipment.

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## IEC, ISO, and ITU Develop Standard to Address Personal Data Theft Risk

New guidance, based on the collaborative effort of the [International Electrotechnical Commission](#), [International Organization for Standardization](#), and [International Telecommunication Union](#), provides a code of practice for the protection of personally identifiable information (the sort of information that Home Depot, Yahoo, and Equifax lost to hackers, and the US Department of Veterans Affairs lost when a laptop went missing). The standard [ISO/IEC 29151](#) | [ITU-T X.1058](#), Information technology-security techniques—Code of practice for personally identifiable information protection, establishes the objectives of data-protection controls, specifies the controls required, and provides guidelines for their implementation. It builds on the standard [ISO/IEC 27002](#), Information technology security techniques code of practice for information security controls, taking into consideration the requirements for processing personally identifiable information that may be applicable within the context of an organization's information security risk environment.

More information about [ISO/IEC 29151:2017](#), and a virtual shopping cart for buying the standard, is available at <https://www.iso.org/news/ref2252.html>.

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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 the TBTs, 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.

### Canada Notification CAN/538

**Date issued:** 18 December 2017

**Agency responsible:** Department of Innovation, Sciences and Economic Development

**National inquiry point:** Foreign Affairs, Trade and Development Canada

**Products covered:** Radiocommunications

**Title:** Notice No. SMSE-016-17 - Release of RSS-210, Issue 9 (amendment) (1 page, available in English and French)

**Description of content:** Notice is hereby given by the Ministry of Innovation, Science and Economic Development that the following document has been updated on its Web site <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/home>, Radio Standards Specifications RSS-210, Issue 9, (amendment) Licence-Exempt Radio Apparatus: Category I Equipment sets out the requirements for equipment certification of several types of licence-exempt radio apparatus.

**Objective and rationale:** Effective spectrum management

**Relevant documents:** Canada Gazette, Part I, 25 November 2017, (available in English and French): <http://www.gazette.gc.ca/rp-pr/p1/2017/2017-11-25/html/notice-avis-eng.php>

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

**Proposed date of entry into force:** 16 November 2017 [*a fait accompli*]



**Final date for comments:** 24 January 2018

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/CAN/full\\_text/pdf/CAN538\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN538[1](english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto\\_country/CAN/full\\_text/pdf/CAN538\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN538[2](english).pdf)

#### **Israel Notification ISR/980**

**Date issued:** 12 December 2017

**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:** Luminaires (HS 9405)

**Title:** SI 20 part 1 - Luminaires: General requirements and tests (202 pages, in English; 11 pages, in Hebrew)

**Description of content:** Revision of the Mandatory Standard SI 20 part 1 dealing with luminaires. This draft standard revision adopts the International Standard IEC 60598-1 - Edition 8.0: 2014-05 with the following major changes that appear in the standard's Hebrew section: . Changes paragraph 0.2 dealing with the normative references to fit Israel's laws and technical regulations; Adds new paragraphs: 0.3.201, 0.3.202 and 0.3.203 to paragraph 0.3. dealing with general requirements and applies national requirements; Adds new paragraphs: 0.5.201 and 0.5.202 to paragraph 0.5. dealing with the components of luminaires and applies national requirements; Changes paragraph 3.2 dealing with the marking on luminaires.

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

**Relevant documents:** . Israel Mandatory Standard SI 20 part 1 (August 2016); International Standard IEC 60598-1 - Edition 8.0: 2014-05.

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

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

**Final date for comments:** 10 February 2018

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/ISR/full\\_text/pdf/ISR980\(hebrew\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR980(hebrew).pdf)

#### **Mexico Notification MEX/384**

**Date issued:** 20 December 2017

**Agency responsible:** Ministry of Economy

**National inquiry point:** Direccion General de Normas (DGN)

**Products covered:** New, second-line, discontinued, rebuilt, reconditioned, used or second-hand information technology equipment and related apparatus.

**Title:** Proyecto de Norma Oficial Mexicana PROY-NOM-019-SCFI-2016, Equipos de tecnologías de la información y sus equipos asociados, así como equipo de uso en oficina - Requisitos de seguridad (Draft Mexican Official Standard PROY-NOM-019-SCFI-2016, Information technology equipment and related apparatus, and office equipment - Safety requirements) (This text will cancel Mexican Official Standard NOM-019-SCFI-1998) (36 pages, in Spanish)

**Description of content:** The notified draft Mexican Official Standard covers information technology equipment and related apparatus powered by mains electricity, other energy sources such as batteries or accumulators, self-generated energy, or alternative power sources, with single-phase supply voltages of 100 to 277 V AC at 60 Hz and/or three-phase voltages of 173 to 480 V AC at 60 Hz, operating up to 3,000 metres above sea level.

The draft text also covers information technology equipment and related apparatus: - designed to be used as telecommunications terminal equipment and telecommunications network infrastructure equipment, regardless of the power source used;

- designed and intended to be directly connected to, or used as infrastructure equipment in, a cable distribution system, regardless of the power source used;

- designed to use the AC power supply as a means of communication transmission (see note 4, Chapter 6, and note 4, section 7.1, of Mexican Standard NMX-I-60950-1-NYCE-2015).

It also covers components and sub-assemblies that are designed to be incorporated into information technology equipment and related apparatus. The compliance of components and sub-assemblies is demonstrated through a certification scheme based on production process quality management systems.

The text also covers new, second-line, discontinued, rebuilt, reconditioned, used or second-hand information technology equipment and related apparatus.

NOTE: This draft Mexican Official Standard may be applied to the electronic parts of equipment, including where such equipment is not fully covered by the scope of the Standard, for example, large-scale air-conditioning systems, fire-detection systems and fire-extinguishing systems. Different requirements may be necessary for certain applications.

**Objective and rationale:** The notified draft Standard establishes the general and specific safety features and requirements for information technology equipment and related apparatus, and office equipment, that are imported into and marketed, distributed or hired out in the territory of the United Mexican States. It seeks to ensure consumer safety and protect property by preventing any unacceptable risk of harm. The text establishes characteristics pertaining to the use of the equipment and systems, with a view to preventing any possible misuse and ensuring that their installation, maintenance and usage correspond to the purpose for which they are intended, taking into consideration the following aspects:

(a) Electric shock (b) Energy-related hazards (c) Fire (d) Thermal hazards (e) Mechanical hazards (f) Radiation (g) Chemical hazards

The draft Standard seeks to reduce risks associated with installed equipment, whether consisting of a system of interconnected units or independent units, and to ensure that it is installed, operated and maintained in accordance with the manufacturer's instructions.

It also sets forth requirements that seek to reduce the risk of fire, electric shock or injury for the operator and for non-professional personnel that may come into contact with the equipment and, where specifically stated, for maintenance personnel.

**Relevant documents:**

- NOM-008-SCFI-2002, Sistema general de unidades de medida (Mexican Official Standard NOM-008-SCFI-2002: General system of units of measurement), published in the Mexican Official Journal on 27 November 2002.
- NMX-I-60950-1-NYCE-2015, Equipos de tecnologías de la información - Seguridad - Requisitos generales (Mexican Standard NMX-I-60950-1-NYCE-2015: Information technology equipment - Safety - General requirements), published in the Mexican Official Journal on 13 May 2016.
- NMX-EC-17025-IMNC-2006, Requisitos generales para la competencia de los laboratorios de ensayo y de calibración (Mexican Standard NMX-EC-17025-IMNC-2006: General requirements for the competence of testing and calibration laboratories), published in the Mexican Official Journal on 24 July 2006.
- NMX-EC-17020-IMNC-2014, Evaluación de la conformidad - Requisitos para el funcionamiento de diferentes tipos de unidades (organismos) que realizan la verificación (inspección) (Mexican Standard NMX-EC-17020-IMNC-2014: Conformity assessment - Requirements for the operation of various types of units (bodies) performing verification (inspection)), published in the Mexican Official Journal on 6 June 2014.
- NMX-EC-17065-IMNC-2014, Evaluación de la conformidad - Requisitos para organismos que certifican productos, procesos y servicios (Mexican Standard NMX-EC-17065-IMNC-2014: Conformity assessment - Requirements for bodies that certify products, processes and services), published in the Mexican Official Journal on 6 June 2014.
- NMX-CC-9001-IMNC-2016, Sistemas de gestión de la calidad - Requisitos (Mexican Standard NMX-CC-9001-IMNC-2016: Quality management systems - Requirements), published in the Mexican Official Journal on 3 May 2016.
- NMX-Z-12/2-1987, Muestreo para la inspección por atributos - Parte 2: Métodos de muestreo, tablas y gráficas (Mexican Standard NMX-Z-12/2-1987: Sampling for inspection by attributes - Part 2: Sampling procedures, tables and graphs), published in the Mexican Official Journal on 28 October 1987.
- NOM-106-SCFI-2000, Características de diseño y condiciones de uso de la contraseña oficial (Mexican Official Standard NOM-106-SCFI-2000: Design characteristics and conditions for use of the official countermark), published in the Mexican Official Journal on 2 February 2001.
- NMX-I-011-NYCE-2003, Electrónica - Aparatos electrónicos - Máquinas copiadoras y/o duplicadoras para la reproducción de documentos (Mexican Standard NMX-I-011-NYCE-2003: Electronics - Electronic equipment - Copiers and/or duplicators for document reproduction), published in the Mexican Official Journal on 31 October 2003.
- NOM-017-SCFI-1993, Información comercial etiquetado de artículos reconstruidos, usados o de segunda mano, de segunda línea, discontinuados y fuera de especificaciones (Mexican Official Standard NOM-017-SCFI-1993: Commercial information - Labelling of rebuilt, used or second-hand articles, seconds, discontinued articles, and products that do not conform to specifications), published in the Mexican Official Journal on 29 October 1993.
- NOM-024-SCFI-2013, Información comercial para empaques, instructivos y garantías de los productos electrónicos, eléctricos y electrodomésticos (Mexican Official Standard NOM-024-SCFI-2013: Commercial information to be displayed on the packaging of and included in the instructions and guarantees for electronic, electrical and home electrical appliances), published in the Official Journal on 12 August 2013.

**Proposed date of adoption:** Not given by country  
**Proposed date of entry into force:** Not given by country  
**Final date for comments:** 18 February 2018  
**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/MEX/full\\_text/pdf/MEX384\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX384(spanish).pdf)

#### **Saudi Arabia Notification SAU/1038**

**Date issued:** 5 January 2018  
**Agency responsible:** Saudi Arabia Standards Organization (SASO)  
**National inquiry point:** Saudi Arabia Standards Organization (SASO)  
**Products covered:** Personal protection equipment (HS codes see page 13 in the attachment)  
**Title:** Technical Regulation for Personal Protection Equipment 04-17-01 (36 page(s), in Arabic)  
**Description of content:** This regulation specifies the following: Terms and Definitions, scope, objectives, supplier Obligations, Labeling, Conformity Assessment Procedures, Responsibilities of regulatory authorities, the authorities of market survey Responsibilities, Violations and Penalties, general rules, Transitional rules, Appendix (lists, types )  
**Objective and rationale:** Protection of human health or safety; Other; Consumer protection and market surveillance  
**Relevant documents:** See page 13 in the attachment  
**Proposed date of adoption:** Not given by country  
**Proposed date of entry into force:** Not given by country  
**Final date for comments:** 6 March 2018  
**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/SAU/full\\_text/pdf/SAU1038\(arabic\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/SAU/full_text/pdf/SAU1038(arabic).pdf)

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### **ANSI Public Review Announcements**

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

#### **Due 5 February 2018**

##### **BSR/ASB BPR 010-201x, Forensic Anthropology in Disaster Victim Identification: Best Practice Recommendations for the Medicolegal Authority** (new standard)

The descriptions in this standard provide guidelines and best practices relevant to the role of forensic anthropology in a DVI operation. Anthropological methods, techniques, and principles are typically employed in five primary capacities: (1) during the Preplanning phase of a DVI operation, (2) the Search and Recovery and preservation of remains from a mass fatality incident, (3) at the Triage Station during the initial sorting of material gathered from the field and determination of what human tissue enters the morgue, (4) at the Anthropology Station collecting quality postmortem data from each morgue sample, and (5) as a member of the ID Reconciliation Team, focused on ensuring valid and reliable positive identifications from human tissues. Focus in this document will be primarily on the Triage Station and the Anthropology Station. Additional guidelines pertaining to Preplanning, Recovery, and the ID Reconciliation Team can be found elsewhere. DVI practitioners should adhere to the best practices identified in this document to the extent possible, practical, and appropriate. In the absence of specific guidelines, the principle, spirit, and intent of these guidelines should be met.

Single copy price: Free

Obtain an electronic copy from: <http://asb.aafs.org/>

Send comments to: [asb@aafs.org](mailto:asb@aafs.org)

##### **BSR/NECA 781-201X, Recommended Practice for Installing and Maintaining Lightning Protection Systems** (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The basic components of lightning protection systems are covered as well as basic information related to lightning protection system design and system maintenance.

Single copy price: \$40.00

Obtain an electronic copy from: [neis@necanet.org](mailto:neis@necanet.org)

Send comments to: Aga Golriz, (301) 215-4549, [Aga.golriz@necanet.org](mailto:Aga.golriz@necanet.org)



## **Due 12 February 2018**

### **BSR ASSE A10.28-201X, Safety Requirements for Work Platforms Suspended from Cranes or Derricks** (revision of ANSI ASSE A10.28-2011)

This standard applies to platforms suspended from the load lines of cranes or derricks in order to (1) perform work at elevations that cannot normally be reached by other types of scaffolds or aerial work platforms or (2) transport personnel to elevations where other means of access are unsafe or impractical because of design or worksite conditions.

Single copy price: \$80.00

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

## **Due 19 February 2018**

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

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

Single copy price: \$35.00

Obtain an electronic copy from: <http://www.ashrae.org/standards-research--technology/public-review-drafts>

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

### **BSR/BIFMA e3-201x, Furniture Sustainability Standard** (revision of ANSI/BIFMA e3-2017)

This standard is applicable to all business and institutional furniture; this includes but is not limited to moveable walls, systems furniture, desking systems, casegoods, tables, seating, and accessories. The standard is also applicable to materials and components manufactured by suppliers to furniture manufacturers.

Single copy price: Free

Order from and send comments to: Kianda Franklin, [kfranklin@nsf.org](mailto:kfranklin@nsf.org)

### **BSR/PGMA G300-201x, Safety and Performance of Portable Generators** (revision of ANSI/PGMA G300-2015)

This standard applies to 15 kW or smaller; single phase; 300 V or lower; 60 hertz; gasoline, liquefied petroleum gas (LPG)- and diesel-engine-driven portable generators intended for multiple use and intended to be moved, though not necessarily with wheels. Permanent stationary generators, 50- hertz generators, marine generators, trailer-mounted generators, generators in motor homes, generators intended to be pulled by vehicles, engine-driven welding power sources and portable generators with AC output circuits that are not compatible with NEMA receptacles are not covered.

Single copy price: Free

Order from and send comments to: [jharding@thomasamc.com](mailto:jharding@thomasamc.com)

## **Due 6 March 2018**

### **BSR/UL 3003-201X, Standard for Safety for Distributed Generation Cables** (new standard)

These requirements cover multi-conductor, nonintegrally jacketed, distributed generation (DG) cable. The cable is intended for use with specific distributed generation equipment/devices such as photovoltaic modules, inverters, and solar trackers. DG Cable is suitable for use between cable trays and utilization equipment. These cables are constructed with or without: One bare or one or more insulated grounding conductor(s), and/or one or more twisted pairs used for signal or communication, all under an overall jacket. The installation of this distributed generation cable is intended to be in accordance with the National Electrical Code (NEC), ANSI/NFPA 70, in addition to any applicable building codes. The cable may be installed in cable trays, in raceways, and where supported in outdoor locations by a messenger wire.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: comm2000, <http://www.comm-2000.com>

Send comments to: Linda Phinney, [Linda.L.Phinney@ul.com](mailto:Linda.L.Phinney@ul.com)

## DIN Public Review Announcement

The Deutsches Institut für Normung has announced a draft document possibly of interest to *Standards Watch* readers that is available for comment until 15 February 2018. After you register with DIN at <http://www.entwurfe.din.de/>, you may purchase and comment on DIN draft standards.

### **DIN EN 17206, Veranstaltungstechnik - Hub- und Lastaufnahmeeinrichtungen für Bühnen und andere Produktionsbereiche in der Veranstaltungsindustrie - Festlegung von grundlegenden Anforderungen (mit Ausnahme von Aluminium- und Stahltraversen); Deutsche und Englische Fassung prEN 17206:2018**

[English title: Entertainment Technology - Lifting and Load-bearing Equipment for Stages and other Production Areas within the Entertainment Industry - Specifications for general requirements (excluding aluminum and steel trusses and towers); German and English version prEN 17206:2018]

This document applies to machinery and mechanical equipment used in assembly areas, in the stage area and in production facilities for events and theater productions. This document (prEN 17206: 2017) has been prepared by Technical Committee CEN/TC 433 "Event equipment - Machines, equipment and installations." That is, this is one part of the long-awaited EN standard based on CWA 15902-1.

Price: 209,50 €

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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 MH16.1-2012 (R201x), Design, Testing and Utilization of Industrial Steel Storage Racks** (reaffirmation of ANSI MH16.1-2012)

The standard applies to industrial pallet racks, movable shelf racks, and stacker racks made of cold-formed or hot-rolled steel structural members. It does not apply to other types of racks, such as drive-in or drive-through racks, cantilever racks, portable racks, etc., or to racks made of material other than steel.

Contact: Patrick Davison, [pdavison@mhi.org](mailto:pdavison@mhi.org)

### **BSR MH28.2-201X, Design, Testing and Utilization of Industrial Boltless Metal-Wood Shelving** (revision of ANSI MH28.2-2012)

This standard applies to industrial steel boltless shelving; boltless shelving placed on mobile carriages; multi-level boltless shelving systems such as pick modules, catwalks, and deck-overs (dance floor); and for boltless shelving used in conjunction with an automated storage and retrieval system (AS/RS). The structural framing components for these systems are made of cold-formed or hot-rolled steel structural members. This standard does not apply to the following: boltless shelving whose shelving components are not fabricated from steel, industrial steel bin shelving, or shelving systems built with slotted metal angle.

Contact: Patrick Davison, [pdavison@mhi.org](mailto:pdavison@mhi.org)

### **BSR MH29.1-201X, Safety Requirements for Industrial Scissors Lifts** (revision of ANSI MH29.1-2012)

This standard applies to industrial scissors lifts that are raised and lowered by means of hydraulic, pneumatic, or mechanical actuation. These industrial scissors lifts are intended for commercial applications on firm and level surfaces and may be either stationary or mobile and used to position, feed, transfer, load, or unload materials and/or personnel. Contact: Patrick Davison, [pdavison@mhi.org](mailto:pdavison@mhi.org)

### **BSR/AWC SDPWS-201x, Special Design Provisions for Wind and Seismic** (revision of ANSI/AWC SDPWS-2015) Provides special design and construction requirements for wind and seismic design of wood structures.

Contact: Bradford Douglas, [bdouglas@awc.org](mailto:bdouglas@awc.org)

### **BSR/CTA 2010-C-201x, Standard Method of Measurement for Powered Subwoofers** (revision and redesignation of ANSI/CTA 2010-B-2014)

This standard defines a method for measuring the audio performance of subwoofers, both passive and powered.

Contact: Veronica Lancaster, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)

**BSR/CTA 2034-B-201x, Standard Method of Measurement for In-Home Loudspeakers** (revision and redesignation of ANSI/CTA 2034- A-2015)

This standard describes how to determine the frequency response, directivity and maximum output capability of a residential loudspeaker. It is intended to determine the audio performance of a loudspeaker, not the loudspeaker's ability to survive a given input signal. The standard is being revised to incorporate new rating methods and to make additional edits as needed. This standard applies only to loudspeaker systems, and not to raw transducers.

Contact: Veronica Lancaster, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)

**BSR/CTA 2076-201x, Inclusive, Audio-based, Network Navigation Systems for All Persons Including Those Blind/Low Vision** (new standard)

This standard specifies requirements for the design of inclusive audiobased network navigation systems (IABNNS), which are technologies used to augment the physical environment by delivering sufficient audio, haptic, visual instructions or instructions in other formats as may be required. This standard helps design professionals achieve an inclusive environment through IABNNSs that augment the physical environment by the provision of aural information about environments for users. NOTE: This recommendation does not consider the specialized requirements of people who are deaf or hard of hearing.

Contact: Veronica Lancaster, [vlancaster@cta.tech](mailto:vlancaster@cta.tech)

**BSR/IES TM-30-18-201x, IES Methods for Evaluating Light Source Color Rendition** (new standard)

This Technical Memorandum describes a method for evaluating light source color rendition that takes an objective and statistical approach, quantifying both average (color fidelity, gamut area) and hue-specific (fidelity, chroma shift, hue shift) properties of a light source using numerical and graphical techniques.

Contact: Patricia McGillicuddy, [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)

**BSR/NFPA 951-201x, Guide to Building and Utilizing Digital Information** (revision of ANSI/NFPA 951-2015)

Provides guidance in the development of an "integrated information management system" which facilitates information sharing. The resulting system shall be designed to support a communications pathway for all relevant components of the national preparedness and response framework. This document provides information for the development of consistent methods, processes, and tools to capture, utilize, and share data within scalable information systems. This framework supports and sets the stage for effective data exchange at all operational levels and components. As an example, time and location are identified as critical components. Specific format for time and location are established in the standard. The guide provides explanation to the AHJ as to why you need this specific format for time and location and how to use it within your operational environment. The intent of this guide is to provide a framework and environment consistent with NFPA Standard 950 which results in an integrated information management system for Computer Aided Dispatch (CAD), Record Management Systems (RMS), and other associated data systems in common use by fire departments.

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

**BSR/NFPA 1122-201x, Code for Model Rocketry** (revision of ANSI/NFPA 1122-2012)

This code shall apply to the design, construction, limitation of rocket propellant mass and power, and reliability of model rocket motors and model rocket motor reloading kits and their components, produced commercially for sale to or for use by the public for purposes of education, recreation, and sporting competition. This code also shall apply to the design and construction of model rockets propelled by model rocket motors specified in 1.1.1 of this standard. This code also shall apply to the conduct of launch operations of model rockets specified in 1.1.2 of this standard. This code shall not apply to the design, construction, production, manufacture, fabrication, maintenance, launch, flight, test, operation, use, or other activity that is connected with a rocket or rocket motor where carried out or engaged in by any of the following: (1) National, state, or local government; (2) Individual, firm, partnership, joint venture, corporation, or other business entity engaged as a licensed business in the research, development, production, testing, maintenance, or supply of rockets, rocket motors, rocket propellant chemicals, or rocket components or parts; or (3) Colleges or universities. This code shall not apply to the design, construction, fabrication, maintenance, production, manufacture, launch, flight, test, operation, or use of rocket-propelled model aircraft that sustain their mass against the force of gravity by aerodynamic lifting surfaces that support the aircraft during the entire duration of its flight in the air, but shall apply to the model rocket motors and their components that provide the propulsion for such model aircraft. This code shall not apply to model or toy

rockets propelled by pressurized-liquid rocket motors containing less than 250 mL (8.45 fl oz) of water. This code shall not apply to fireworks rockets or pyrotechnic rockets as defined in NFPA 1123, Code for Fireworks Display. This code shall not apply to NFPA 1124, Code for the Manufacture, Transportation, Storage, and Retail Sales of Fireworks and Pyrotechnic Articles. This code shall not apply to NFPA 1126, Standard for the Use of Pyrotechnics Before a Proximate Audience. This code shall not apply to high-power rocketry as defined in NFPA 1127, Code for High Power Rocketry.

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

**BSR/NFPA 1126-201x, Standard for the Use of Pyrotechnics before a Proximate Audience** (revision of ANSI/NFPA 1126-2015)

This standard shall provide requirements for the protection of property, operators, performers, support personnel, and the viewing audiences where pyrotechnic effects are used indoors or outdoors with a proximate audience.

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

**BSR/NFPA 1127-201x, Code for High Power Rocketry** (revision of ANSI/NFPA 1127-2013) Applies to the design, construction, limitation of propellant mass and power, and reliability of all high-power rocket motors produced commercially for sale to and/or use by the certified user for education, recreation, and sporting competition.

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

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## Final Actions on American National Standards

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

**ANSI 405-2018**, Standard for Adhesives for Use in Structural Glued Laminated Timber (revision of ANSI 405-2013): 12 December 2017

**ANSI A14.2-2017**, Standard for Ladders - Portable Metal - Safety Requirements (new standard): 12 December 2017

**ANSI A14.5-2017**, Reinforced Plastic Ladders (new standard): 12 December 2017

**ANSI C82.77-5-2017**, Lighting Equipment - Voltage Surge Requirements (revision of ANSI C82.77-5-2015): 21 December 2017

**ANSI/APPA 1000-1-2017**, Total Cost of Ownership (TCO) for Facilities Asset Management - Part 1: Key Principles (new standard): 14 December 2017

**ANSI/ASME A17.3-2017**, Safety Code for Existing Elevators and Escalators (revision of ANSI/ASME A17.3-2015): 12 December 2017

**ANSI/ASNT ILI-PQ-2017**, In-Line Inspection Personnel - Qualification and Certification Standard (revision of ANSI/ASNT ILI-PQ-2005 (R2010)): 12 December 2017

**ANSI/ASTM D6299-2017b**, Practice for Applying Statistical Quality Assurance and Control Charting Techniques to Evaluate Analytical Measurement System Performance (revision of ANSI/ASTM D6299 -2017): 15 December 2017

**ANSI/ASTM E2726-2012a (R2017)**, Test Method for Evaluating the Fire-Test-Response of Deck Structures to Burning Brands (reaffirmation of ANSI/ASTM E2726-2012a): 15 December 2017

**ANSI/ATSIP D.16-2017**, Manual on Classification of Motor Vehicle Traffic Crashes, 8th edition (new standard): 18 December 2017

**ANSI/AWS F3.2-2018**, Ventilation Guide for Weld Fume (new standard): 14 December 2017

**ANSI/IES RP-38-2017**, Recommended Practice for Lighting Performance for Small-to-Medium-sized Videoconferencing Rooms (new standard): 21 December 2017

**ANSI/IES/ALA RP-11-2017**, Recommended Practice for Lighting for Interior and Exterior Residential Environments (new standard): 21 December 2017

**ANSI/UL 723-2017**, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723 -2013): 1/21/2017[sic]

**ANSI/UL 723-2017a**, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723 -2013): 1/21/2017 [sic]

**ANSI/UL 8750-2017d**, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2016): 18 December 2017

**INCITS/ISO/IEC 13818-3:1998 [R2017]**, Information Technology - Generic Coding of Moving Pictures and Associated Audio Information - Part 3: Audio (reaffirmation of INCITS/ISO/IEC 13818 -3:1998 [R2012]): 19 December /2017

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## Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) or the International Organization for Standardization (ISO) are considering for approval. *Standards Watch* readers interested in reviewing and commenting on the document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC and ISO documents should be sent to Charles T. Zegers at [czegers@ansi.org](mailto:czegers@ansi.org) and Karen Hughes at [isot@ansi.org](mailto:isot@ansi.org) respectively. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

**23G/393/FDIS, IEC 60799 ED3**: Electrical accessories - Cord sets and interconnection cord sets, 26 January 2018

**34/476/FDIS, IEC 62504/AMD1 ED1**: Amendment 1 - General lighting - Light emitting diode (LED) products and related equipment - Terms and definitions, 26 January 2018

**65E/578/DPAS, IEC PAS 63178 ED1**: Service-Oriented Integration Requirements of the Manufacturing Resources/Capabilities for Intelligent Manufacturing Service Platform, 16 February 2018

**ISO/DIS 20140-3**, Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 3: Environmental performance evaluation data aggregation process, 2 March 2018, \$46.00

**ISO/DIS 18091**, Quality management systems - Guidelines for the application of ISO 9001 in local government, 4 March 2018, \$146.00

**35/1386/CD, IEC 60086-1 ED13**: Primary batteries - Part 1: General, 9 March 2018

**35/1387/CD, IEC 60086-2 ED14**: Primary batteries - Part 2: Physical and electrical specifications, 9 March 2018

**ISO/DIS 22259**, Conference systems - Equipment – Requirements, 10 March 2018, \$93.00

**34/478/CD, IEC 63129 ED1**: Measurement of the inrush current of lighting products, 16 March 2018

**65B/1108/CDV, IEC 61131-10 ED1**: XML Exchange Formats for Programs according to IEC 61131-3, 16 March 2018



**65E/573/CDV, IEC 62769-100 ED1:** Field Device Integration (FDI) - Part 100: Profiles - Generic protocols, 16 March 2018

**AC/35/2017, Draft IEC Guide 104 Edition 5,** The preparation of safety publications and the use of basic safety publications and group safety publications, 16 March 2018

**26/646/CD, IEC 60974-1/AMD1 ED5:** Arc welding equipment - Part 1: Welding power sources, 23 March 2018

**26/647/CD, IEC 60974-10 ED4:** Arc welding equipment - Part 10: Electromagnetic compatibility (EMC) requirements, 23 March 2018

**34/466/CDV, IEC 62386-220 ED1:** Digital addressable lighting interface - Part 220: Particular requirements for control gear - Centrally Supplied Emergency Operation (device type 19), 23 March 2018

**100/3011/CDV, IEC 62680-1-3 ED3:** Universal serial bus interfaces for data and power - Part 1-3: Common components - USB Type-CTM Cable and Connector Specification, 23 March 2018

**C/2084/DV, Draft IEC Guide 116 Edition 2,** Guidelines for safety related risk assessment and risk reduction for low voltage equipment, 13 April 2018

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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>.

**ISO 389-1:2017,** Acoustics - Reference zero for the calibration of audiometric equipment - Part 1: Reference equivalent threshold sound pressure levels for pure tones and supra-aural earphones, \$68.00

**ISO 20245:2017,** Cross-border trade of second-hand goods, \$68.00

**ISO 14044/Amd1:2017,** Environmental management - Life cycle assessment - Requirements and guidelines - Amendment 1, \$19.00

**ISO/IEC 23008-12:2017,** Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 12: Image File Format, \$209.00

**IEC 62820-3-1 Ed. 1.0 b:2017,** Building intercom systems - Part 3-1: Application guidelines - General, \$117.00

**ISO/IEC TR 38502:2017,** Information technology - Governance of IT - Framework and model, \$68.00

## TSP Meeting Schedule

The January meetings are in conjunction with the NAMM Show in Anaheim. Please note the room assignments listed here. There will be no reader board or posted schedule at the Anaheim Hilton.

### At the Anaheim Hilton

Control Protocols Working Group	19:00 – 23:00	Friday 26 January 2018	Suite 100
Control Protocols Compliance SG	09:00 – 13:00	Friday 26 January 2018	Catalina 5
Control Protocols E1.20	19:00 – 23:00	Thursday 25 January 2018	Catalina 5
	14:00 – 18:00	Friday 26 January 2018	Catalina 5
Control Protocols E1.33	14:00 – 18:00	Thursday 25 January 2018	Catalina 5
Control Protocols E1.59	09:00 – 13:00	Thursday 25 January 2018	Catalina 5
Control Protocols NAEP	19:00 – 23:00	Saturday 27 January 2018	Catalina 5
Event Safety Working Group	14:00 – 18:00	Saturday 27 January 2018	Suite 100
Event Safety Fire Safety Task Group	14:00 – 18:00	Friday 26 January 2018	Catalina 3
Event Safety Venue & Site Design TG	10:00 – 13:00	Saturday 27 January 2018	Catalina 5
Floors Working Group	11:00 – 13:00	Saturday 27 January 2018	Suite 100
Rigging Working Group	19:00 – 23:00	Saturday 27 January 2018	Suite 100
Rigging Working E1.6-3 Task Group	19:00 – 23:00	Friday 26 January 2018	Catalina 5
Rigging Working E1.6-4 Task Group	14:00 – 18:00	Saturday 27 January 2018	Catalina 5
Rigging E1.47 Inspections Task Group	14:00 – 18:00	Saturday 27 January 2018	Catalina 3



### At the Disney Paradise Pier Hotel

Technical Standards Council	09:00 – 13:00	Monday 29 January 2018	Pacific Ballroom A
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The most up-to-date schedule always can be found at <http://tsp.esta.org/tsp/meetings/index.php>. It includes the meetings scheduled for March at the USITT Conference and Stage Expo in Ft. Lauderdale, FL.

# ESTA Standards Watch

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

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Syracuse Scenery and Stage Lighting

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