



# Technical Standards Program

## ESTA Standards Watch

June 2019

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### Five ESTA standards in public review

Five standard and draft standards are posted for public review on the ESTA website at <http://estalink.us/pr>. People materially affected by these standards or proposed standards are invited to visit the website and comment on them before the comment due dates noted. In order of due-date and then alpha-numeric designation, the documents are:

**BSR E1.4-2, Entertainment Technology - Statically Suspended Rigging Systems**, is a new draft standard for statically suspended rigging systems (dead-hung battens and grids) permanently installed in performances spaces, places of assembly, and other areas used for entertainment purposes. It establishes minimum performance criteria, recommendations, and guidelines that can be used for installation, use, maintenance and inspection purposes. Comments are due before the end of the day 17 June 2019.

**ANSI E1.27-2 -- 2009 (R2014), Entertainment Technology -- Recommended Practice for Permanently Installed Control Cables for Use with DMX512-A Products**, is an existing standard being considered for

reaffirmation. It's the second part of a two-part standard for DMX512 cabling, and is for permanently installed cables. The first part, ANSI E1.27-1, is for portable control cables. Comments are due no later than 1 July 2019.

**ANSI E1.30-3 -- 2009 (R2014), EPI 25 Time Reference in ACN Systems Using SNTP and NTP**, is another existing standard being considered for reaffirmation. It's another recipe in the E1.30 cookbook for ACN. It offers ways of providing a time reference so events can be synchronized. Comments are due no later than 1 July 2019.

**ANSI E1.30-10 -- 2009 (R2014), EPI 32, Identification of Draft Device Description Language Modules**, is another existing standard being considered for reaffirmation. It recommends way of identifying a Device Description Language Module for ACN as a trial version, one under development, not for release yet. ANSI E1.30-10 is part of an open series of E1.30 documents that suggests ways of doing common tasks with ANSI E1.17, Architecture for Control Networks. Comments are due no later than 1 July 2019.

**BSR E1.59, Entertainment Technology--Object Transform Protocol (OTP)**, is a new draft standard describing a mechanism to transfer object transform information such as position, orientation and velocity over an IP network using a subset of the [ACN] protocol suite. It covers data format, data protocol, data addressing, and network management. Data transmitted is intended to coordinate visual and audio elements of a production and should not be used for safety critical applications. The document's authors are anxious to get some public review response on the document. Please respond with "Yes" if the draft is acceptable; responses need not be limited to objections. Comments are due no later than 1 July 2019.

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## **ESTA Plugfest announces free RDMnet webinar**

An "Introduction to RDMnet" will be broadcast live on Sunday 21 July from 7:00 p.m. to 8:30 p.m., CDT. Officially known as E1.33, RDMnet was recently approved by ESTA's Control Protocols Working Group as a consensus standard and is now on track to obtain approval by the American National Standards Institute this summer. RDMnet extends the functionality of RDM to Ethernet networks. Expect to see products with RDMnet features to begin to appear at trade shows later this year.

This lively, educational webinar will illustrate the challenges solved by RDMnet as well as explain how it works from both a user perspective and within the protocol itself. The recommended best practices approach in implementation for developers also will be discussed. Attendees will have the opportunity to ask questions of the CPWG subject matter members that authored this standard.

Registration for this webinar may be made by sending an email to [plugfest@esta.org](mailto:plugfest@esta.org). Instructions for logging in will be emailed to all pre-registered attendees a few days before the live broadcast. Qualified attendees may also receive 0.5 ETCP renewal credit for each session hour.

This webinar is being held in conjunction with the ESTA Control Protocols Plugfest. ESTA's Plugfest is an opportunity to connect your lighting products with those of other manufacturers to test and resolve network compatibility challenges. Attendees bring controllers, intelligent lights, control protocol analyzers, and other network-connected components. People attend from around the world to pursue improvement of their customers' product experiences. The scheduled Plugfest hours are 9:00 a.m. to 11:00 p.m. Friday thru Sunday at the D/FW Marriott Solana in Westlake,

More event information is available at <http://estalink.us/plugfest>, or contact the event organizers at [Plugfest@esta.org](mailto:Plugfest@esta.org).

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## **Lightning Guidance for Outdoor Events published by PLASA**

PLASA has published the first edition of *Lightning Guidance for Outdoor Events*. It is available for free download at <https://www.plasa.org/lightning-guidance/>.

The *Lightning Guidance for Outdoor Events* is a 21-page document written to assist all those involved with the production and management of outdoor events in making informed decisions when faced with the possibility of lightning strikes. As well as providing practical advice on the management of lightning risk, the guidance also

considers crowd safety and the protection of temporary structures, electrical equipment, and power systems. The document is written for the UK, and it assumes the legal framework of the UK, but much of the advice is applicable anywhere. Regardless of local law, lightning strikes to people or structures during an outdoor event can lead to a bad time for everyone. This document can help event organizers mitigate the risks. It's available for free, but the information is quite valuable.

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## **ANSI seeks comments on proposed ISO standard on design and safety of sex toys**

As the U.S. member body to the International Organization for Standardization, the American National Standards Institute is encouraging its members and relevant stakeholders to submit comments on a proposal submitted by the Swedish Standards Institute for a new ISO standard on design and safety requirements for sex toys. US parties are invited to review the proposal and to submit comments to ANSI by 28 June 2019. (The proposal has been posted at [https://tsp.esta.org/tsp/StandardsWatch/ISO\\_NWIP\\_SexToys.pdf](https://tsp.esta.org/tsp/StandardsWatch/ISO_NWIP_SexToys.pdf).)

According to the proposal, there are no regulations or international standards specific to these types of products in the global market, resulting in variable product tests, safety methods, and quality assessments. In a study published in 2018, Swedish researchers discovered an increase in the recorded number of incidences requiring medical intervention related to the use these products. The proposal states that a global standard on design and safety requirements for sex toys would benefit manufacturers, retailers, medical providers, and consumers by reducing the numbers of incidences where these products cause unnecessary pain or injury to users and expense to the health-care sector. Establishing clear requirements for risk assessment and recommended design considerations along with sufficient user information will enable companies to show conformity.

Please submit comments to Steve Cornish, ANSI senior director of international policy, at [scornish@ansi.org](mailto:scornish@ansi.org), by close of business on 28 June 2019. Non-US parties should submit their comments through their representatives to the ISO.

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## **NHTSA seeks comments on removing regulatory barriers for autonomous vehicles**

The U.S. Department of Transportation's National Highway Traffic Safety Administration has posted a consolidated "Advance Notice Of Proposed Rule-Making" in the U.S. *Federal Register*. It is seeking public comment on the near- and long-term challenges of verifying compliance with existing crash avoidance Federal Motor Vehicle Safety Standards for Automated Driving System-Dedicated Vehicles that lack traditional manual controls necessary for a human driver to maneuver the vehicle and other features intended to facilitate operation of a vehicle by a human driver, but that are otherwise traditional vehicles with typical seating configurations. This document seeks comments on the suitability of various approaches that could be used to address compliance verification challenges that exist for crash avoidance standards that either require a manual control; or specify the use of manual controls in a compliance test procedure.

NHTSA's long-term goal is to use what the agency learns from this ANPRM to develop a proposal to amend the crash avoidance FMVSSs in ways that address these and other compliance challenges with a continued focus on safety. This ANPRM builds on NHTSA's efforts to identify and address regulatory barriers to ADS technologies, including the request for comments (RFC) on this topic in January 2018. NHTSA intends to issue two additional documents to remove barriers in the crashworthiness FMVSSs and address issues in the FMVSSs pertaining to telltales, indicators, and warnings in ADS-DVs.

All comments must be received by 29 July 2019 and must be identified by Docket Number NHTSA-2019-0036. Comments may be submitted via the Federal eRulemaking Portal at <https://www.regulations.gov/>, by fax to 202-493-2251, or by hand-delivery, courier, or mail to the following address:

Docket Management Facility  
U.S. Department of Transportation  
Room W 12-140,  
1200 New Jersey Avenue SE  
Washington, DC 20590-0001

The ANPRM is available online at <http://estalink.us/erq7l>, which redirects to a 136-character URL for a page on the *Federal Register* website.

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## WTO Technical Barrier to Trade notifications

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced some TBTs that may be of interest to Standards Watch readers. If you have a problem with a TBTs, you can protest through your representative to the World Trade Organization. See the guidance documents at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

### Brazil Notification BRA/866

**Date issued:** 27 May 2019

**Agency responsible:** National Institute of Metrology, Standardization and Industrial Quality (INMETRO)

**National inquiry point:** TBT/WTO Enquiry Point (INMETRO)

**Products covered:** HS: 85015110 - squirrel cage induction motor, three-phase type.

**Title:** Ordinance 248, May 20th 2019 (19 page(s), in Portuguese)

**Description of content:** Draft technical regulation setting out the mandatory requirements to be met by the supply chain of a three-phase induction electric motors with squirrel cage rotor in the domestic market (inserted in Annex I) and conformity assessment procedures, focusing on performance and energy efficiency, by means of the supplier declaration of conformity (SDoC) mechanism (inserted in Annex II).

**Objective and rationale:** Consumer protection; Performance requirements.

**Relevant documents:** (1) Brazilian Official Journal (Diário Oficial da União) 97, 22 May 2019, section 1, page 24; (2) ABNT NBR 17094-1:2018 (Máquinas Elétricas Girantes. Parte 1: Motores de indução trifásicos - Requisitos) e 17094-3:2018 (Máquinas Elétricas Girantes. Parte 3: Motores de indução trifásicos - Métodos de ensaio); (3) Brazilian Official Journal; (4) Not Applicable.

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

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

**Final date for comments:** 21 July 2019

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/BRA/full\\_text/pdf/BRA866\(portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA866(portuguese).pdf)

### Taiwan Economy Notification TPKM/378

**Date issued:** 28 May 2019

**Agency responsible:** Occupational Safety and Health Administration, Ministry of Labor

**National inquiry point:** Bureau of Standards, Metrology and Inspection, Ministry of Economic Affairs (BSMI)

**Products covered:** Robots and robotic devices, and sawing machines for cold metal; Electric (including electrically heated gas), laser or other light or photon beam, ultrasonic, electron beam, magnetic pulse or plasma arc soldering, brazing or welding machines and apparatus, whether or not capable of cutting; electric machines and apparatus for hot spraying of metals or cermets (HS 8515); Other (HS 842489); Other machinery (HS 842890); Sawing or cutting-off machines (HS 846150); Industrial robots, not elsewhere specified or included (HS 847950)

**Title:** Proposal for Registration of Safety Information for Robots and Robotic Devices, and Sawing Machines for Cold Metal under the Occupational Safety and Health Act (2 page(s), in Chinese)

**Description of content:** The Occupational Safety and Health Administration intends to regulate robots and robotic devices, and sawing machines for cold metal to be subject to registration of safety information, in accordance with Paragraphs 1 and 3, Article 7 of the Occupational Safety and Health Act. As of 1 September 2019, all such products shall conform to specified ISO standards and be registered at the Information Website before they are placed on the market. The registration of safety information is performed by domestic manufacturers or importers based on the specified ISO standards, i.e. ISO 10218-1:2011 (or CNS 14490-1:2015) for robots and robotic devices and ISO 16093:2017 for sawing machines for cold metal. Regarding the requirements for functional safety and EMC, a transitional period of 3 years will be provided and during the transitional period compliance with ISO 13849-1:1999 and IEC 61000 series is acceptable.

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

**Relevant documents:**

- Occupational Safety and Health Act;
- Enforcement Rules of Occupational Safety and Health Act;
- Regulations Governing the Registration of Safety Information for Machinery, Equipment and Tools;

- Regulations Governing Prior Release of Machinery products;
- Regulations Governing Exemption from Certification for Mechanical Products;
- Regulations Governing Surveillance and Management for Machinery, Equipment and Tools;
- Regulations Governing the Use and Management of Safety Label and Conformity Mark; and
- Specified ISO standards, for examples ISO 10218-1:2011 for robots and robotic devices, ISO 16093:2017 for sawing machines for cold metal.

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

**Proposed date of entry into force:** 1 September 2019

**Final date for comments:** 27 July 2019

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/TPKM/full\\_text/pdf/TPKM378\(traditional\\_chinese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/TPKM/full_text/pdf/TPKM378(traditional_chinese).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 15 July 2019

#### **BSR/AWI 0641-201x, Architectural Wood Casework** (new standard)

AWI 0641, Architectural Wood Casework, provides standards for the aesthetic and structural performance of project-specific architectural wood casework. Includes both aesthetic performance and structural performance criteria for architectural wood casework designed and produced for specific construction projects.

Single copy price: Free

Order from and send comments to: Ashley Goodin, [agoodin@awinet.org](mailto:agoodin@awinet.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: \$25.00 NECA members, \$55.00 nonmembers

Order from and send comments to: [neis@necanet.org](mailto:neis@necanet.org)

### Due 30 July 2019

#### **BSR/ASME B89.7.3.1-2001 (R201x), Guidelines for Decision Rules: Considering Measurement Uncertainty in Determining Conformance to Specifications** (reaffirmation of ANSI/ASME B89.7.3.1-2001 (R2011))

These guidelines provide terminology and specify the content that must be addressed when stating a decision rule used for deciding the acceptance or rejection of a product according to specification.

Single copy price: \$33.00

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

Send comments to: Justin Cassamassino, [cassamassinoj@asme.org](mailto:cassamassinoj@asme.org)

## CSA public review announcements

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

### Due 21 June 2019

#### **CSA C22.2 NO. 62368-1, Audio/video, information and communication technology equipment - Part 1: Safety requirements** (new edition)

This a CSA and UL adoption of IEC 62368 with modifications for the Canadian and US markets. It is based on risk assessment, rather than a more traditional list of things to measure with specific pass/fail tests.

**Due 21 July 2019**

**E61558-2-1, Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications (new edition)**

This is an adoption of a new edition, without deviations, of the identically titled IEC standard. This part 2 of IEC 61558 applies to stationary or portable, single-phase or polyphase, aircooled separating transformers, associated or not, having a rated supply voltage not exceeding 1000 V a.c., a rated frequency not exceeding 500 Hz, and a rated output not exceeding: 1 kVA for single-phase transformers; 5 kVA for polyphase transformers. This standard is also applicable to separating transformers having a rating up to 40 kVA, however such transformers are considered as special transformers and are subjected to an agreement between the purchaser and the supplier.

The no-load output voltage or the rated output voltage shall not exceed 1000 V a.c. or 1415 V ripple-free d.c. This standard applies to transformers where double or reinforced insulation between circuits is not required by the installation rules or by the appliance specification. This standard is applicable to dry type transformers. The windings may be encapsulated or non-encapsulated.

**E61558-2-2, Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers (new edition)**

This is an adoption of a new edition, without deviations, of the identically titled IEC standard. This part 2-2 of IEC 61558 applies to stationary or portable, single-phase or poly-phases, aircooled control transformers associated or otherwise having a rated supply voltage not exceeding 1 000 V a.c. or 1 415 V ripple free d.c. and rated frequency not exceeding 500 Hz and no limitation of the rated output. This standard is applicable to transformers used between circuits where double or reinforced insulation is not required by the installation rules or by the equipment specification. This standard is applicable to dry type transformers. The windings may be encapsulated or non-encapsulated.

**E61558-2-4, Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers (new edition)**

This is an adoption of a new edition, without deviations, of the identically titled IEC standard. This part 2 of IEC 61558 applies to stationary or portable, single-phase or polyphase, air-cooled isolating transformers, associated or otherwise, having a rated supply voltage not exceeding 1000 V a.c. and rated frequency not exceeding 500 Hz, the rated output not exceeding: 25 kVA for single-phase transformers; 40 kVA for polyphase transformers.

**E61558-2-6, Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers (new edition)**

This is an adoption of a new edition, without deviations, of the identically titled IEC standard. This part 2 of IEC 61558 applies to stationary or portable, single-phase or polyphase, aircooled safety isolating transformers, associated or otherwise, having a rated supply voltage not exceeding 1000 V a.c. and rated frequency not exceeding 500 Hz, the rated output not exceeding: 10 kVA for single-phase transformers; 16 kVA for polyphase transformers. This standard is also applicable to safety isolating transformers without limitation of the rated output; however such transformers are considered as special transformers and are subjected to an agreement between the purchaser and the supplier. The no-load output voltage and the rated output voltage does not exceed: 50 V a.c. r.m.s. and/or 120 V ripple-free d.c. between conductors or between any conductor and earth. This standard is applicable to dry type transformers. The windings may be encapsulated or non-encapsulated.

**E61558-2-13, Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers (new edition)**

This part 2-13 of IEC 61558 applies to stationary or portable, single-phase or polyphase, aircooled (natural or forced), independent or associated auto-transformers, having a rated supply voltage not exceeding 1000 V a.c., a rated frequency not exceeding 500 Hz. The core power does not exceed: 1 kVA for single-phase auto-

transformers; 5 kVA for polyphase auto-transformers. The rated output does not exceed: 20 kVA for single-phase auto-transformers; 100 kVA for polyphase auto-transformers.

#### **Due 29 July 2019**

##### **C22.2 NO. 94.1, Enclosures for electrical equipment, non-environmental considerations** (amendment)

Proposes ten modifications to UL 50.

##### **C22.2 NO.94.2, Enclosures for electrical equipment, environmental considerations** (new edition)

This standard applies to enclosures for electrical equipment intended to be installed and used in non-hazardous locations in accordance with the Canadian Electrical Code, Part I, CSA C22.1, the provisions of the National Electrical Code, NFPA 70, and the provisions of Mexico's Electrical Installations, NOM-001-SEDE, as follows:

- a) Enclosures for indoor locations, Types 1, 2, 5, 12, 12K, and 13; and
- b) Enclosures for indoor or outdoor locations, Types 3, 3X, 3R, 3RX, 3S, 3SX, 4, 4X, 6, and 6P.

This standard covers additional environmental construction and performance requirements for enclosures. The general requirements for enclosures are contained in CSA C22.2 No. 94.1, UL 50, and NMX-J-235/1-ANCE (See Annex B, Ref. No. 10) or the end-use product standards that are to be used in conjunction with this standard.

This standard does not cover the requirements for protection of devices against conditions such as condensation, icing, corrosion, or contamination that may occur within the enclosure or that may enter via conduit or unsealed openings.

#### **Due 30 July 2019**

##### **C235, Voltage Levels for AC Systems, up to 50 000 V** (new edition)

This Standard establishes steady-state voltage operating ranges at point of connection for AC power systems in Canada. It serves to provide guidance:

- a) To national committees on utilization and control equipment for establishing standard ratings of such equipment on a basis coordinated with power system voltages;
- b) To power system designers so that new systems will be designed to accommodate standard ratings of equipment and devices;
- c) To power system operators and to electrical energy users for determining suitable voltage performance and the need for corrective measures, with respect to existing systems, to accommodate current designs of equipment and devices; and
- d) Towards a uniform system of voltage selections in the country without any suggestion that each utility will supply every voltage listed. The establishment of standards on this basis is aimed at future development towards more uniformity on a national basis.

This standard includes nominal voltages and supply steady-state voltage ranges at point of connection under both normal and extreme operating conditions. This standard does not cover voltage operating ranges at utilization points.

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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, (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 C3.6M/C3.6-201x, Specification for Furnace Brazing** (addenda to BSR/AWS C3.6M/C3.6-201x)

This specification provides the minimum fabrication, equipment, material, process procedure requirements, as well as inspection requirements for the furnace-brazing of steels, copper, copper alloys, and heat- and corrosion-resistant alloys and other materials that can be adequately furnace-brazed (the furnace-brazing of aluminum alloys is addressed in AWS C3.7M/C3.7, Specification for Aluminum Brazing). This specification provides criteria for classifying furnace-brazed joints based on loading and the consequences of failure and quality assurance criteria defining the limits of acceptability in each class. This specification defines acceptable furnace-brazing equipment, materials, and procedures, as well as the required inspection for each class of joint. The project is

needed to correct errors and insert pertinent content that was unintentionally omitted from the current published edition of AWS C3.6M/C3.6.

Contact: Kevin Bulger, [kbulger@aws.org](mailto:kbulger@aws.org)

**BSR/UL 7103-201x, Standard for Safety for Building-Integrated Photovoltaic Roof Coverings** (new standard)

Building-integrated photovoltaic (BIPV) roof coverings for use as a component of a steep slope roof assembly. These products are intended to be installed in accordance with the National Electrical Code, NFPA 70, and either the International Building Code or the International Residential Code, and the installation instructions. This covers BIPV roof coverings for use in photovoltaic systems with a maximum system voltage of 1500 V or less. They are applicable to BIPV roof coverings intended for installation on either combustible or noncombustible roof decks when the roof coverings are applied as intended. Tests conducted in accordance with these requirements are intended to demonstrate the performance of roof coverings during the types and periods of fire exposure involved but are not intended to determine the acceptability of BIPV roof coverings for use after exposure to fire. Resistance to water infiltration to the interior attic space. BIPV roof coverings are not expected to withstand the wind forces of tornados, cyclones, or hurricanes. These requirements provide data regarding the securement of the roofing system to the roof deck based upon a short-term static load. These requirements also cover components intended to provide electrical connection to and mounting means for photovoltaic modules and panels intended for installation integral with buildings as a roof covering material, and other ancillary equipment. Contact: Susan Malohn, [Susan.P.Malohn@ul.com](mailto:Susan.P.Malohn@ul.com)

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## Final actions on American National Standards

The documents listed below have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted. One approval is for a withdrawal.

**ANSI A300 Part 5-2019**, Tree, Shrub and Other Woody Plant Management Standard Practices (Management of Trees and Shrubs During Site Planning, Site Development, and Construction) (revision of ANSI A300 Part 5-2012): 23 May 2019

**ANSI E1.37-7-2019**, Additional Message Sets for ANSI E1.20 (RDM) – Gateway & Splitter Messages (new standard): 23 May 2019

**ANSI E1.44-2014 (R2019)**, Common Show File Exchange Format for Entertainment Industry Automation Control Systems - Stage Machinery (reaffirmation of ANSI E1.44-2014): 23 May 2019

**ANSI C78.53-2019**, Electric Lamps, Performance Specifications for Direct Replacement LED (Light Emitting Diode) Lamps (new standard): 23 May 2019

**ANSI N13.37-2014 (R2019)**, Environmental Dosimetry - Criteria for System Design and Implementation (reaffirmation of ANSI N13.37-2014): 23 May 2019

**ANSI N13.56-2012 (R2019)**, Sampling and Monitoring Releases of Airborne Radioactivity in the Workplace (reaffirmation of ANSI N13.56-2012): 23 May 2019

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## Draft IEC documents—no ISO this time

This section lists proposed documents that the International Electromechanical Commission (IEC) is considering for approval and that may be of interest to *Standards Watch readers*. Anyone interested in reviewing and commenting on a 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). Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

**18/1673/FDIS, IEC 60092-201 ED5**: Electrical installations in ships - Part 201: System design - General, 5 July 2019

**65C/966/CD, IEC 62439-2 ED3:** Industrial communication networks - High availability automation networks - Part 2: Media Redundancy Protocol (MRP), 19 July 2019

**22H/245/CD, IEC 62040-3 ED3:** Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements, 16 August 2019

**23K/46/CD, IEC 62991 ED1:** Particular requirements for Source Switching Equipment (SSE), 16 August 2019

**59F/376/CDV, IEC 62885-7 ED1:** Surface cleaning appliances - Part 7: Dry-cleaning robots for household use - Methods of measuring performance, 16 August 2019

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## Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO that may be of use or interest to *Standards Watch* readers. Prices shown are from the [ANSI Webstore](#).

**ISO 37159:2019,** Smart community infrastructures – Smart transportation for rapid transit in and between large city zones and their surrounding areas, \$68.00

**ISO 15620:2019,** Welding - Friction welding of metallic materials, \$185.00

**ISO/IEC 21228:2019,** Information technology – Telecommunications and information exchange between systems – Coexistence mechanism for broadband powerline communication technologies, \$45.00

**ISO/IEC 26560:2019,** Software and systems engineering - Tools and methods for product line product management, \$185.00

**ISO/IEC 30071-1:2019,** Information technology - Development of user interface accessibility - Part 1: Code of practice for creating accessible ICT products and services, \$185.00

**IEC/TR 63201 Ed. 1.0 en:2019,** Low-voltage switchgear and controlgear - Guidance for the development of embedded software, \$199.00

**IEC/TS 60839-7-8 Ed. 1.0 en:2019,** Alarm systems - Part 7-8: Message formats and protocols for serial data interfaces in alarm transmission systems - Requirements for common protocol for alarm transmission using the Internet protocol, \$317.00

## TSP meeting schedule

The following meetings will be at the Marriott Solana in Westlake, TX. Reserve a hotel room at <https://esta.org/ESTA/meetings.php>.

Control Protocols Plugfest	09:00 – 23:00	Friday 19 July 2019
	09:00 – 23:00	Saturday 20 July 2019
	09:00 – 23:00	Sunday 21 July 2019
Control Protocols Plugfest Webinar	19:00 – 20:30	Sunday 21 July 2019
Control Protocols Working Group	09:00 – 13:00	Saturday 20 July 2019
Control Protocols BSR E1.20 Task Group	14:00 – 23:00	Thursday 18 July 2019
Control Protocols Compliance Testing Task Group	14:00 – 18:00	Sunday 21 July 2019
	09:00 – 13:00	Monday 22 July 2019
Control Protocols NextGen Task Group	14:00 – 18:00	Friday 19 July 2019
Control Protocols/Rigging E1.59 Task Group	19:00 – 23:00	Friday 19 July 2019
Control Protocols E1.37-4 Task Group	09:00 – 13:00	Sunday 21 July 2019
Control Protocols E1.37-5 Task Group	14:00 – 18:00	Saturday 20 July 2019
Electrical Power E1.65 Electrical Inspection TG	09:00 – 13:00	Friday 19 July 2019
Event Safety Rigging Task Group	09:00 – 13:00	Saturday 20 July 2019
Event Safety Working Group	14:00 – 18:00	Saturday 20 July 2019
Floors Working Group	19:00 – 23:00	Thursday 18 July 2019
Fog & Smoke Working Group	15:00 – 18:00	Thursday 18 July 2019
Followspot Position Working Group	19:00 – 23:00	Friday 19 July 2019
Photometrics Working Group	09:00 – 13:00	Friday 19 July 2019
Rigging Working Group	14:00 – 18:00	Friday 19 July 2019
Rigging E1.39 Task Group	19:00 – 23:00	Thursday 18 July 2019
Rigging E1.67 Task Group	14:00 – 18:00	Thursday 18 July 2019
Rigging/Control Protocols E1.59 Task Group	19:00 – 23:00	Friday 19 July 2019
Stage Machinery E1.6-4 Chain Hoist Control	09:00 – 13:00	Friday 19 July 2019
Stage Machinery Working Group	19:00 – 23:00	Saturday 20 July 2019
Technical Standards Council	09:00 – 13:00	Sunday 21 July 2019

The autumn TSP meetings will be held at the Marriott Solana in Westlake, TX, around the weekend of 26-27 October. The scheduling has just begun; only a few meetings are listed now, but more will be listed at <https://esta.org/ESTA/meetings.php>.

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