



ESTA Standards Watch

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Table of Contents

Licensure and low-voltage wiring in Texas.....	1
Eight ESTA TSP documents in public review.....	2
Amendment of Part 15 of the FCC's Rules for Unlicensed Operations in the Television Bands, Repurposed 600 MHz Band, 600 MHz Guard Bands and Duplex Gap, and Channel 37, and Expanding the Economic and Innovation Opportunities of Spectrum Through Incentive Auctions.....	3
WTO Technical Barrier to Trade notifications.....	4
United States of America Notification USA/1449.....	4
United States of America Notification USA/1447.....	5
Cuba Notification CUB/20.....	5
Slovenia Notification SVN/110.....	6
Thailand Notification THA/536.....	6
Hungary Notification HUN/34.....	6
ANSI public review announcements.....	7
Due 29 April 2019.....	7
Due 6 May 2019.....	9
New ANS projects.....	10
Final actions on American National Standards.....	11
Draft IEC & ISO documents.....	12
Recently published IEC & ISO documents.....	13
TSP meeting schedule.....	14
TSP Donors Who Have Made Long-Term, Multi-Year Pledges.....	15
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	16

Licensure and low-voltage wiring in Texas

Residents and people doing business in Texas might want to keep their eyes on proposed legislation to modify the NEC Class 2/Class 3 circuit exemptions from licensure: House Bill 1141 and Senate Bill 1004. The two bills have identical language adding restrictions to the exemptions now in the Occupations Code, Section 1305.003(a)(12). The underlined text is the proposed new text:

(12) the design, installation, erection, repair, or alteration of Class 1, Class 2, or Class 3 remote control, signaling, or power-limited circuits, fire alarm circuits, optical fiber cables, or communications circuits, including raceways, as defined by the National Electrical Code, that operate at less than 50 volts and that are not capable of supplying or controlling more than 50 volt-amperes or 50 watts of power;

There is some speculation that the added text is to ensure that PoE lighting systems are designed, installed, and repaired by licensed electricians, as are line-voltage lighting systems now, but the change would effectively remove almost all the exemptions. This certainly would affect *Standards Watch* readers. For example, any DMX512 data line that controls a moving light or a dimmer certainly controls more than 50 watts of power. Audio

system wiring would no longer be exempt, too, since few theatre or club audio systems output less than 50 watts. Stage automation control wiring also would be require licensed design, installation, and repair.

The change also would affect residential wiring for home audio systems, home thermostat wiring, network wiring for a “smart home,” and more. For example, a gas furnace for a two bedroom apartment might have a rating of 54,000 BTU per hour. That works out to about 16 kW. Replacing the thermostat would be the repair of a system controlling more than 50 watts so it would have to be done by a licensed professional—and if selecting the replacement thermostat is considered “design,” then that selection would require a licensed professional, too. Got a garage door opener run by a pushbutton on low -voltage bell-wire? The motors on those are half-horsepower or larger, 373 watts or more, well above the proposed 50 W limit.

You can keep track of House Bill 1141 and Senate Bill 1004 at:

- <https://capitol.texas.gov/BillLookup/History.aspx?LegSess=86R&Bill=HB1141>
 - <https://capitol.texas.gov/BillLookup/History.aspx?LegSess=86R&Bill=SB1004>
-

Eight ESTA TSP documents in public review

As this is being written, eight ESTA documents are available for public review at <http://estalink.us/pr>. Comments on seven of these standards are due before 9 April 2019—but comments on an eighth one are due before 23 April, and that document is specially noted. The reviews are over when the designated day starts. In alphanumeric order, they are:

BSR E1.6-3, Selection and use of serially manufactured chain hoists in the Entertainment Industry

ANSI E1.6-3-2012 is being revised. It is one of a 4-part set of standards covering motorized rigging used in the entertainment and special events industry. This standard addresses minimum safety requirements for the selection and use of serially manufactured chain hoists, having capacity of two tons or less. The standard is being updated to address outdated references, errors, and new technologies.

BSR ES1.9, Crowd Management

This standard is part of a suite of standards currently in development to address requirements for special event safety. It defines "crowd management" as distinguished from "crowd control," provides an overview of crowd management theory, and applies this theory to reasonably foreseeable risks associated with live events. The standard identifies minimum standards and requirements, and provides suggestions to help event organizers make reasonable choices for their events.

BSR E1.21, Entertainment Technology--Temporary Structures Used for Technical Production of Outdoor Entertainment Events

ANSI E1.21-2013 is being revised to enhance the requirements for operations management plans, designated person responsibilities, and related requirements. ANSI E1.21 establishes a minimum acceptable level of design and performance parameters to ensure structural reliability, safety, and to establish a reasonable standard for care temporary special event structures.

BSR E1.44, Common Show File Exchange Format for Entertainment Industry Automation Control Systems

This is a public review for reaffirmation of ANSI E1.44 - 2014, which addresses common show file requirements for automated stage machinery control systems used in entertainment venues. It establishes a minimum level of design and performance guidelines for the integrated software design of processor-based machinery control equipment. The purpose of this guidance is to ensure that users will be able to transfer, modify and customize a 'least common denominator' show file for the data required to tour entertainment productions from one facility to another, even when the facilities' physical conditions, hoist inventories, machinery placements, and the machinery control consoles and data topology differ. Comments on this document are due before 23 April.

BSR E1.47, Recommended Guidelines for Entertainment Rigging System Inspections

ANSI E1.47-2017 is being revised to expand and to add clarity to its recommendations for inspections of rigging systems used in the entertainment industry.

BSR E1.59, Entertainment Technology--Object Transform Protocol (OTP)

This standard describes 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.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events

The standard covers mass-produced portable platforms, stair units and ramps used with those platforms, and choral risers, designed to be used for the presentation of music concerts, dramatic plays, fashion shows, and other special events. The units covered by this standard are of a size and weight that allows them to be moved and erected by one or two people. Larger, heavier units are outside the scope of this standard. The scope also covers the railings provided as fall protection accessories, and to the legging systems.

The Introduction to Modern Atmospheric Effects, 6th edition

The Introduction to Modern Atmospheric Effects was written to be an introductory text on fog and haze effects, offering a factual presentation on all types of popular atmospheric fog effects. A 6th edition has been developed to give some information about formal monitoring techniques and air sampling methods that may be needed to control fog exposure. The new text is designed to introduce the reader to these monitoring methods; the details on how to do air sampling are given in other publicly available sources cited by the Introduction. This new 6th edition is offered for review to give the public a chance to point out errors or omissions and to make suggestions for possible improvements.

Amendment of Part 15 of the FCC's Rules for Unlicensed Operations in the Television Bands, Repurposed 600 MHz Band, 600 MHz Guard Bands and Duplex Gap, and Channel 37, and Expanding the Economic and Innovation Opportunities of Spectrum Through Incentive Auctions

1. By this Order, we [the Federal Communications Commission] extend through September 30, 2019 a waiver of the push notification requirements in sections 15.37(j) and 15.711(i) of the Commission's rules that was initially granted by Commission Order in these dockets [ET Docket No. 14-165 and GN Docket No. 12-268]. The waiver of the push notification requirement for fixed and Mode II personal/portable white space devices and white space databases is due to expire on March 31, 2019.
2. On August 11, 2015, the Commission released the Part 15 Report and Order in the above-captioned proceeding. The Part 15 Report and Order adopted new and modified rules for white space devices and unlicensed wireless microphones that operate in the TV bands and 600 MHz Band, and for white space devices that operate in channel 37. It also made changes to the rules for white space databases and adopted transition rules specifying dates by which white space devices, white space databases, and unlicensed wireless microphones must comply with the new requirements.
3. To prevent interference to protected services, including licensed wireless microphones, certain white space devices are required to check a database at least once a day to obtain a list of available channels at their operating location. In the Part 15 Report and Order, the Commission retained this requirement and decided to also require that database administrators push information about changes in channel availability information to white space devices in the areas where licensed wireless microphones will be used. When a database administrator receives a request for access to channels for licensed wireless microphone use, the database administrators must share the licensed wireless microphone's channel registration information among themselves within ten minutes and push information about changes in channel availability for fixed and Mode II personal/portable white space devices within 20 minutes of receiving it, identifying for the white space devices other available channels that could be used instead. White space devices for which a certification application is filed beginning June 23, 2016, or that are imported or marketed beginning September 23, 2016, were to incorporate a push notification capability. Previously approved white space devices that do not incorporate a push notification capability were to cease operation no later than December 23, 2016. In addition, the white space database administrators were to update their systems to implement

push notification capabilities no later than December 23, 2016.

4. Several parties filed petitions for reconsideration of the push notification requirements adopted by the Commission, arguing that there are a number of difficulties in implementing them. Given the complexity of the issues, the Commission determined that there was good cause to grant a waiver of the requirements in sections 15.37(j) and 15.711(i) and that the waiver would remain in effect for 180 days or until the Commission took a final action addressing the petitions for reconsideration of the push notification rules. Because the petitions for reconsideration remain under active consideration, the reasons supporting the original waiver remain valid and a further time extension is warranted. This action is being taken without prejudice relative to the merits of these petitions.

5. This action will ensure that manufacturers may continue to market previously approved white space devices, and that users may continue to operate them. The ability of all approved white space devices to satisfy the at-least-once-daily database re-check requirement will ensure that wireless microphones will continue to receive interference protection from white space devices.

6. Accordingly, pursuant to the authority delegated to the Office of Engineering and Technology under section 0.241(a)(3) of the Commission's rules and sections 302, 303(e), and 303(r) of the Communications Act of 1934, as amended, IT IS ORDERED that sections 15.37(j) and 15.711(i) of the Commission's rules, ARE WAIVED until September 30, 2019 or until the Commission takes final action on the petitions for reconsideration in ET Docket No. 14-165 with respect to these rule sections, whichever comes earlier.

7. IT IS FURTHER ORDERED that the effective date of this Order IS THE DATE [27 March 2019] upon which this Order is released by the Commission.

Clear? This is what it says at <https://docs.fcc.gov/public/attachments/DA-19-216A1.docx>, but with the footnotes removed.

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. (So far the USA is still a member of 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/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

United States of America Notification USA/1449

Date issued: 22 March 2019

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Chemical substances

Title: Significant New Use Rules on Certain Chemical Substances (21 pages, in English)

Description of content: EPA is proposing significant new use rules (SNURs) under the Toxic Substances Control Act (TSCA) for 28 chemical substances which were the subject of premanufacture notices (PMNs). The chemical substances are subject to Orders issued by EPA pursuant to section 5(e) of TSCA. This action would require persons who intend to manufacture (defined by statute to include import) or process any of these 28 chemical substances for an activity that is proposed as a significant new use to notify EPA at least 90 days before commencing that activity. The required notification initiates EPA's evaluation of the intended use within the applicable review period. Persons may not commence manufacture or processing for the significant new use until EPA has conducted a review of the notice, made an appropriate determination on the notice, and has taken such actions as are required with that determination. [TSM note: The list is long and arcane, but it includes urethanes used in adhesives and cashew nut shell oil.]

Objective and rationale: Protection of animal or plant life or health; Protection of the environment

Relevant documents: 84 Federal Register (FR) 9999, 19 March 2019; Title 40 Code of Federal Regulations (CFR) Part 721. Will appear in the Federal Register when adopted.

Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 3 May 2019
Full text: https://members.wto.org/crattachments/2019/TBT/USA/19_1674_00_e.pdf

United States of America Notification USA/1447

Date issued: 18 March 2019
Agency responsible: Pipeline and Hazardous Materials Safety Administration (PHMSA), Department of Transportation (DOT)
National inquiry point: USA WTO TBT Enquiry Point
Products covered: Lithium batteries (HS 850650)
Title: Hazardous Materials: Enhanced Safety Provisions for Lithium Batteries Transported by Aircraft (FAA Reauthorization Act of 2018) (23 pages, in English)
Description of content: PHMSA issues this interim final rule (IFR) to revise the Hazardous Materials Regulations for lithium cells and batteries transported by aircraft. This IFR prohibits the transport of lithium ion cells and batteries as cargo on passenger aircraft; requires lithium ion cells and batteries to be shipped at not more than a 30 percent state of charge aboard cargo-only aircraft when not packed with or contained in equipment; and limits the use of alternative provisions for small lithium cell or battery shipments to one package per consignment. This IFR does not restrict passengers or crew members from bringing personal items or electronic devices containing lithium cells or batteries aboard aircraft, or restrict cargo-only aircraft from transporting lithium ion cells or batteries at a state of charge exceeding 30 percent when packed with or contained in equipment or devices.
Objective and rationale: Protection of human health or safety
Relevant documents:

- 84 Federal Register (FR) 8006, 6 May 2019; Title 49 Code of Federal Regulations (CFR) Part 172 and 173.
- G/TBT/N/USA/518 and subsequent addenda - Hazardous Materials: Transportation of Lithium Batteries

Proposed date of adoption: 6 March 2019
Proposed date of entry into force: 6 March 2019
Final date for comments: 6 May 2019
Full text URL: https://members.wto.org/crattachments/2019/TBT/USA/19_1523_00_e.pdf

Cuba Notification CUB/20

Date issued: 15 March 2019
Agency responsible: Ministry of Communications
National inquiry point: International Economic Organizations Department (DOEI)
Products covered: Telecommunications/ICT equipment 8443.31.00, 8443.32.00, 8443.39.00, 8471.30.00, 8471.41.00, 8471.49.00, 8471.50.00, 8471.60.00, 8471.70.00, 8471.80.00, 8471.90.00, 8473.30.00, 8473.50.00, 8504.40.00, 8517.11.00, 8517.12.00, 8517.18.00, 8517.61.00, 8517.62.00, 8517.69.00, 8517.70.00, 8518.10.00, 8518.30.00, 8525.50.00, 8525.60.00, 8525.80.00, 8526.10.00, 8526.91.00, 8526.91.10, 8526.91.90, 8526.92.00, 8527.19.00, 8527.29.00, 8528.42.00, 8528.52.00, 8528.62.00, 8528.72.00, 8529.10.00, 8529.90.00, 8531.80.00
Title: Proyecto de Resolución del Reglamento de la Homologación de Equipos de Telecomunicaciones/TIC del Ministerio de Comunicaciones (Draft resolution on the Ministry of Communications regulation regarding type-approval for telecommunications/ICT equipment) (17 pages, in Spanish)
Description of content: The purpose of the notified document is to set forth the Ministry of Communications regulation on conformity assessment and type-approval for telecommunications/ICT equipment so that equipment that is imported, manufactured or marketed in the country ensures the proper functioning of public telecommunications/ICT networks, user security and the rational and efficient use of the radio spectrum and prevents interference with other telecommunications services. This regulation applies to products included in the headings and subheadings indicated.
Objective and rationale: Proper functioning of public telecommunications/ICT networks, user security, rational and efficient use of the radio spectrum, prevention of interference with other telecommunications services; Quality requirements
Proposed date of adoption: 1 May 2019
Proposed date of entry into force: Not given by country
Final date for comments: 14 May 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CUB/full_text/pdf/CUB20\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CUB/full_text/pdf/CUB20(spanish).pdf)

Slovenia Notification SVN/110

Date issued: 21 March 2019

Agency responsible: Ministry of Agriculture, Forestry and Food

National inquiry point: Slovenian Institute for Standardization (SIST)

Products covered: Mead and sparkling mead

Title: Rules amending the Rules on the quality of mead and sparkling mead

Description of content: This Regulation prescribe labelling of mead and sparkling mead.

Objective and rationale: Protection of human health or safety

Relevant documents:

- Rules on quality of mead and sparkling mead (OJ RS, no. 4/12, 24/12 – popr. in 26/14 – ZKme-1B)
- Agriculture Act (OJ RS, no. 45/08, 57/12, 90/12 – ZdZPVHVVR, 26/14, 32/15, 27/17 in 22/18)

Proposed date of adoption: 1 August 2019

Proposed date of entry into force: 1 August 2019

Final date for comments: 20 May 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/SVN/full_text/pdf/SVN110\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/SVN/full_text/pdf/SVN110(english).pdf)

Thailand Notification THA/536

Date issued: 21 March 2019

Agency responsible: Thai Industrial Standards Institute (TISI)

National inquiry point: Thai Industrial Standards Institute (TISI)

Products covered: Motors

Title: Draft Thai Industrial Standard for Rotating Electrical Machines Part 30-101 Efficiency Classes of AC Three Phase Induction Motors (TIS 866 Part 30(101) - 2561(2019)) (9 pages, in Thai)

Description of content: The Thai Industrial Standards Institute (TISI) has proposed the draft compulsory Thai Industrial Standard for Rotating Electrical Machines Part 30-101 Efficiency classes of AC three phase induction motors (TIS 866 Part 30(101) -2561(2019)). The coverage of standard includes scopes; definitions and symbols; classifications; and efficiency classes of AC three phase induction motors for single speed electrical motors that are rated in accordance with TIS 866 Part 1 (Identical IEC 60034-1:2014), and rated for operation on sinusoidal voltage supply and:

- have a rated power PN from 0.12 kW to 375 kW;
- have a rated voltage UN above 50 V up to 1 kV;
- have 2, 4, 6 or 8 poles.

The energy efficiency classes are IE1, IE2, IE3 and IE4.

The testing method is in accordance with TIS 866 Part 2(1) (Identical IEC 60034-1:2014).

Objective and rationale: Safety and consumer protection

Relevant documents:

- IEC 60034-30-1 (2014-03) - Rotating electrical machines – Part 30-1: Efficiency classes of line operated AC motors (IE code)
- TIS 866 Part 30(1) - Rotating electrical machines – Part 30-1: Efficiency classes of line operated AC motors (IE code)

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 20 May 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA536\(thai\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA536(thai).pdf)

Hungary Notification HUN/34

Date issued: 25 March 2019

Agency responsible: Ministry of Interior of the Republic of Hungary, Legal Directorate-General

National inquiry point: Hungarian Technical Notification Centre

Products covered: Building products, fire extinguishing technology products, electrical equipment, flammable or explosive devices, machinery, equipment, combustible liquids, gases and melts

Title: Draft Decree of the Ministry of Interior on the National Fire Protection Regulation (102 pages, in Hungarian)

Description of content: The proposal amends Decree 54/2014. (XII. 5.) of the Ministry of Interior on the National Fire Protection Regulations. Adjusted to the European Fire Protection Requirements, it does not

contain any regulations included in European standards that have been implemented in Hungary. The draft is structured the following way:

1. Classification by fire hazard and risk.
2. General structural requirements.
3. Protection against fire spread.
4. Construction requirements depending on designation.
5. Evacuation.
6. Requirements ensuring the intervention of firefighting units.
7. Protection against heat and smoke.
8. Protection against explosion.
9. Electrical and lighting protection equipment.
10. In-built fire protection systems.
11. Rules of use, revision.

Objective and rationale: Conceptual changes to the new National Fire Protection Regulations that came into force on 5 March 2015 have resulted in ending administrative restraints, over-regulation and inflexible technical requirements against a background of technological development. The previous regulations also included requirements and their solutions as a requirement, significantly restricting the design possibilities, while the new National Fire Protection Regulation improved the general usability and flexibility of the technical requirements, allowing more space for designer freedom while maintaining safety. The long-term goal is that the National Fire Protection Regulation should include only the required level of safety. At the same time the alternative, modern technical solutions that can be chosen for its implementation should be fully incorporated into the fire safety guidelines. The main aspect of the change is the further separation of requirements and solutions, so that the ratio of solutions in the National Fire Protection Regulation should be further reduced. (notification number inside the EU according to Directive (EU) 2015/1535: 2019/113/HU; <http://ec.europa.eu/growth/tools-databases/tris/en/search/?trisaction=search.detail&year=2019&num=113>)

Relevant documents:

- Act 31 of 1996 on Fire Protection, Technical Rescue and Fire Service
- Decree 54/2014. (XII. 5.) of the Ministry of Interior on the National Fire Protection Regulations
- Government Decree 275/2013. (VII. 16.) on the detailed rules on the design and incorporation of construction products in buildings, as well as the declaration of performance drawn up pursuant thereto
- Amendment of Minister for Local Government Decree No 22/2009 of 23 July 2009 on the rules for obtaining fire prevention certificates of compliance

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 17 June 2019

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/HUN/full_text/pdf/HUN34\(hungarian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/HUN/full_text/pdf/HUN34(hungarian).pdf)

ANSI public review announcements

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

Due 29 April 2019

BSR/APCO 2.106.1-201X, Public Safety Grade Site Hardening Requirements (new standard)

This effort documents public safety requirements regarding various characteristics to make mission-critical communications wireless networks sufficiently robust to meet the service availability requirements of public safety. The effort will standardize what is required to make wireless network sites "public safety grade" or to the extent to which they are hardened. This effort specifically addresses hardening for wireless communications sites with both transmission and/or reception capabilities. Includes substantive changes made to sections 3.4 and 3.7 of the candidate American National Standard.

Single copy price: Free

Obtain an electronic copy from: apcostandards@apcointl.org

Send comments to: https://workspace.apcointl.org/higherlogic/ws/public/document?document_id=2057&wg_id=technical

BSR/AWS B2.1-1-001-201X, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 3/4 inch [19 mm], E7016 and E7018, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for carbon steel plate and pipe in the thickness range of 3/16 inch [5 mm] through 3/4 inch [19 mm], using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds.

Single copy price: \$136.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/AWS B2.1-1-002-201X, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 7/8 inch [22 mm], ER70S-2, ER70S-3, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for carbon steel plate and pipe in the thickness range of 3/16 inch [5 mm] through 7/8 inch [22 mm], using manual gas tungsten arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds.

Single copy price: \$136.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/AWS B2.1-1-234-201X, Standard Welding Procedure Specification (SWPS) for 75% Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E7XT-X, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using 75% argon plus 25% carbon dioxide shielded flux cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds. This SWPS was developed primarily for pipe applications.

Single copy price: \$136.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/AWS B2.1-1-235-201X, Standard Welding Procedure Specification (SWPS) for 98% Argon Plus 2% Oxygen Shielded Gas Metal Arc Welding (Spray Transfer Mode) of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER70S-3, in the As-Welded or PWHT Condition, Primarily Pipe Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38mm], using 98% argon plus 2% oxygen shielded gas metal arc welding (spray transfer mode). It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove and fillet welds.

Single copy price: \$136.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/ICC/ASHRAE 700-201x, National Green Building Standard (revision of ANSI/ICC/ASHRAE 700-2015)

The provisions of this standard shall apply to design, construction, alteration, enlargement, and renovation of (1) all residential buildings, (2) residential portions of mixed-use buildings, or (3) mixed-use buildings where the residential portion is greater than 50% of the gross floor area. This standard shall also apply to subdivisions, building sites, buildings lots, and accessory structures. For the purpose of this standard, all Group R occupancies as defined by the International Building Code and all building within the scope of the International Residential Code shall be considered residential. Assisted living facilities, residential board and care facilities, and group homes classified as an I-1 occupancy as defined by the IBC shall also be considered residential.

Single copy price: Free

Obtain a copy and make comments at <https://www.homeinnovation.com/ngbs>

BSR/IES LM-79-201x, IES Approved Method: Optical and Electrical Measurements of Solid-State Lighting Products (new standard)

This document is a revision of IES LM-79-2008, Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products. Changes have been made to update information and provide better guidance based on information gathered from proficiency testing associated with laboratory accreditation and independent research. The updated requirements in this test method are intended to reduce the variation of measurement results across testing laboratories, while minimizing the burden on the testing laboratories. The method is based on absolute photometry addressing the requirements for optical and electrical measurement of solid-state lighting products.

Single copy price: \$25.00

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

BSR/NAAMM MBG 532-201x, Heavy Duty Metal Bar Grating Manual (revision of ANSI/NAAMM MBG 532-2009)

This standard provides guidance for the manufacture and installation of heavy-duty bar gratings such as those used in bridges and industrial applications subject to wheel traffic.

Single copy price: \$25.00

Obtain an electronic copy from: <http://www.naamm.org/ansi-information#ANSI/NAAMM%20PendingStandards>

Send comments to: Vernon W. Lewis, Jr, wlewis7@cox.net

BSR/PLATO FL 1-201x, Flashlight Basic Performance Standard (revision of ANSI/PLATO FL 1-2016)

The ANSI/PLATO FL1 standard covers basic performance of hand-held/portable flashlights, spotlights, and headlamps providing directional lighting. The scope has been expanded to include portable area lighting. Most of the revisions are intended to address this scope expansion, but it also includes needed clarifications and updates. The standard includes relevant definitions, test methods and marking requirements to establish minimum performance and to provide relevant packaging information for these consumer devices.

Single copy price: Free

Order from and send comments to: David Delaquila, daviddelaquila@gmail.com

Due 6 May 2019

BSR/ASSP Z359.12-201x, Connecting Components for Personal Fall Arrest Systems (revision and redesignation of ANSI/ASSE Z359.12-2009)

This standard establishes requirements for the performance, design, marking, qualification, test methods, and removal from service of connectors.

Single copy price: \$110.00

Order from and send comments to: OMunteanu@ASSP.org

BSR C18.3M, Part 2-201x, Portable Lithium Primary Cells and Batteries - Safety Standard (revision of ANSI C18.3M, Part 2-2017)

This American National Standard specifies tests and requirements for portable primary lithium cells and batteries, both the chemical systems and the types covered in ANSI C18.3M, Part 1, to ensure their safe operation under normal use and reasonably foreseeable misuse. For reference, the chemical systems standardized in ANSI C18.3M, Part 1 are: Lithium carbon monofluoride, Lithium manganese dioxide, and Lithium iron disulfide.

Single copy price: \$142.00

Order from and send comments to: khaled.masri@nema.org

BSR/NEMA MG 1-2016 Amendment 1-201x, Motors and Generators (revision of ANSI/NEMA MG 1-2016)

NEMA MG 1 assists users in the proper selection and application of motors and generators, and contains practical information concerning performance, safety, testing, and construction and manufacture of ac and dc motors and generators. Amendments to NEMA MG 1-2016 are proposed.

Single copy price: \$125.00

Order from and send the comments to: Mike Leibowitz, mike.leibowitz@nema.org

BSR/NFSI B101.1-201x, Test Method for Measuring the Wet SCOF of Hard-Surface Walkways (revision of ANSI/NFSI B101.1-2009)

This test method specifies the procedures and devices used for both laboratory and field-testing to measure the wet static coefficient of friction (SCOF) of hard-surface walkways.

Single copy price: \$59.95

Order from and send comments to: Laura Cooper, LauraC@nfsi.org

BSR/NFSI B101.3-201x, Test Method for Measuring the Wet DCOF of Hard Surface Walkways (revision of ANSI/NFSI B101.3-2012)

This test method specifies the procedures and devices used for both laboratory and field testing to measure the wet dynamic coefficient of friction (DCOF) of hard-surface walkways.

Single copy price: \$59.95

Order from and send comments to: Laura Cooper, LauraC@nfsi.org

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/ASTM E2073-201x, Standard Test Method for Photopic Luminance of Photoluminescent (Phosphorescent) Markings (Reinstatement of E2073) (new standard)

Project Need: This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

Contact: Laura Klineburger, accreditation@astm.org

BSR/CSA C22.2 No. 184.2-201x, Solid-state controls for lighting systems (SSCLS) (new standard)

This standard applies to permanently connected multi-circuit solid-state lighting controls rated at 600 V and less, 50 or 60 Hz, single or three phase, with or without an integral switching (disconnecting) devices, designed to be used as standalone systems controlling (a) incandescent lamps; (b) fluorescent, compact florescent, and electric discharge lamps; (c) HID (pilot duty) and electronic ballasts; and (d) LED and OLED lights, and intended for installation in accordance with the Rules of CSA C22.1, Canadian Electrical Code, Part I and the National Electrical Code. This standard applies to ac- and dc-rated controls for which the load rating does not exceed 20 A and 2 hp per circuit at a maximum 600 V. These SSCLS products may include phase dimmers, solid-state timers, relay modules, and other load-switching devices. These products may also include convenience receptacles, mechanical switches and other wiring devices on separate circuits.

Contact: David Zimmerman, david.zimmerman@csagroup.org

BSR/E1.67-201x, Design, Inspection, Maintenance, Selection, and Use of Hand-Operated Chain- and Lever Hoists for the Entertainment Industry (new standard)

This standard covers the design, inspection, maintenance, selection, and use of serially manufactured, hand-operated chain and lever hoists, having capacity of 2 tons or less and used in the entertainment industry. This standard does not cover attachment to the load or to the overhead structure.

Contact: Richard Nix, standards@esta.org

BSR/IES LM-82-201x, IES Approved Method: Characterization of LED Light Engines and LED Lamps for Electrical and Photometric Properties as a Function of Temperature (new standard)

This approved laboratory method defines the procedures to quantify performance as a function of temperature of integrated LED lamps, LED light engines, and LED luminaires. This document provides data presentation method for ease of interpretation and comparison, which will assist users in selecting or evaluating LED lighting product.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES LM-84-201x, Approved Method: Measuring Luminous, Radiant, and Photon Flux; and Color and Aspects of Spectral Maintenance of LED Lamps, Light Engines, and Luminaires (new standard)

This document provides the method for measurement of luminous, radiant, and photon flux maintenance; and color and aspects of spectral maintenance for integrated LED lamps, integrated; non-integrated LED lamps, non-integrated; LED light engines, LED luminaires, OLED light engines, and OLED Luminaires. The method describes the procedures to be followed and the precautions to be observed in obtaining and reproducing luminous flux and color maintenance measurements under standard operating conditions. This approved method does not provide guidance or recommendations regarding predictive estimations or extrapolation of lumen maintenance beyond the final measurement.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES TM-21-201x, Approved Method: Projecting Long Term Lumen Maintenance of LED Light Sources (new standard)

One of the benefits that LED light sources can provide is very long usable life. Unlike other lighting technologies, LEDs typically do not fail catastrophically during use. However, over time, the light output will gradually depreciate. At some point in time, the light emitted from an LED depreciates to a level where it is no longer considered adequate for a specific application. It is important in lighting design to understand when this "useful lifetime" of an LED source is reached.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IESNA LM-73-201x, IES Approved Method: Photometric Testing of Entertainment Luminaires Using HID, Incandescent Filament or LED Light Sources (revision of ANSI/IESNA LM-73-2004 (R2017))

To provide an industry standard for the measurement of entertainment luminaires, specifically designed for use in theater, television, film studio, digital recording, or on-site situations. This revision includes the addition of LED sources and needs to be brought up to the IES/TPC document structure. This work will be done in collaboration with ESTA and in accordance with ANSI/ESTA E1.9-2007 (R2012) "Reporting Photometric Performance Data for Luminaires Used in Entertainment Lighting" and ANSI/ESTA E1.25-2012 "Recommended Basic Conditions for Measuring the Photometric Output of Stage and Studio Luminaires by Measuring Illumination Levels Produced on a Planar Surface." The ESTA standards basically describe what measurements are required, not how to make the measurements.

Contact: Patricia McGillicuddy, pmcgillicuddy@ies.org

INCITS/ISO/IEC 1539-1:2018 [201x], Information technology - Programming languages - Fortran - Part 1: Base language (identical national adoption of ISO/IEC 1539-1:2018 and revision of INCITS/ISO/IEC 1539-1:2010 [R2018])

Specifies the form and establishes the interpretation of programs expressed in the base Fortran language. The purpose of this document is to promote portability, reliability, maintainability, and efficient execution of Fortran programs for use on a variety of computing systems. This document specifies the forms that a program written in the Fortran language can take, the rules for interpreting the meaning of a program and its data, the form of the input data to be processed by such a program, and the form of the output data resulting from the use of such a program. Except where stated otherwise, requirements and prohibitions specified by this document apply to programs rather than processors.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 9899:2018 [201x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 9899:2018 and revision of INCITS/ISO/IEC 9899:2011 [R2017])

Specifies the form and establishes the interpretation of programs written in the C programming language. It specifies the representation of C programs; the syntax and constraints of the C language; the semantic rules for interpreting C programs; the representation of input data to be processed by C programs; the representation of output data produced by C programs; and the limits imposed by a conforming implementation of C.

Contact: Deborah Spittle, comments@standards.incits.org

Final actions on American National Standards

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

ANSI E1.34-2009 (R2019), Entertainment Technology - Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (reaffirmation of ANSI E1.34-2009 (R2014)): 8 March 2019

ANSI/CTA 2006-B-2009 (R2019), Testing & Measurement Methods for Mobile Audio Amplifiers (reaffirmation of ANSI/CTA 2006-B-2009): 19 March 2019

Draft IEC & ISO documents

This section lists proposed documents 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 a 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 and Karen Hughes at isot@ansi.org respectively. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

34/600/FDIS, IEC 62386-104 ED1: Digital addressable lighting interface - Part 104: General requirements - Wireless and alternative wired system components, 26 April 2019

ISO/DIS 22392, Security and resilience - Community resilience - Guidelines for conducting peer reviews, 25 May 2019, \$102.00

ISO/DIS 8548-2, Prosthetics and orthotics - Limb deficiencies - Part 2: Method of describing lower limb amputation stumps, 30 May 2019, \$77.00

34C/1429/CD, IEC 61347-1/FRAG1 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1430/CD, IEC 61347-1/FRAG2 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1431/CD, IEC 61347-1/FRAG3 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1432/CD, IEC 61347-1/FRAG4 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1433/CD, IEC 61347-1/FRAG5 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1434/CD, IEC 61347-1/FRAG6 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1435/CD, IEC 61347-1/FRAG7 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1436/CD, IEC 61347-1/FRAG8 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1437/CD, IEC 61347-1/FRAG9 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1438/CD, IEC 61347-1/FRAG10 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1439/CD, IEC 61347-1/FRAG11 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1440/CD, IEC 61347-1/FRAG12 ED4: Lamp controlgear - Part 1: General and safety requirements, 31 May 2019

34C/1441/CD, IEC 61347-2-1 ED2: Lamp controlgear - Part 2-1: Particular requirements for starting devices (other than glow starters), 31 May 2019

34C/1442/CD, IEC 61347-2-11 ED2: Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires, 31 May 2019

34C/1443/CD, IEC 61347-2-12 ED2: Lamp controlgear - Part 2-12: Particular requirements for d.c. or a.c. supplied electronic controlgear for discharge lamps (excluding fluorescent lamps), 31 May 2019

34C/1444/CD, IEC 61347-2-3 ED3: Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps, 31 May 2019

34C/1445/CD, IEC 61347-2-2 ED3: Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps, 31 May 2019

34C/1446/CD, IEC 61347-2-13 ED3: Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules, 31 May 2019

47E/647/NP, PNW TS 47E-647: Future IEC 60747-19-2: Semiconductor devices - Part 19-2: Smart sensors - Indication of specifications of smart sensors and power supplies to drive smart sensors, 31 May 2019

34/601/CD, IEC 63103 ED1: Lighting equipment - Non-active mode power measurement, 7 June 2019

34/603/CD, IEC TR 61547-1 ED3: Equipment for general lighting purposes - EMC immunity requirements - Part 1: An objective light flickermeter and voltage fluctuation immunity test method, 7 June 2019

34C/1447/CD, IEC 61347-1/FRAG13 ED4: Lamp controlgear - Part 1: General and safety requirements, 7 June 2019

34C/1448/CD, IEC 61347-1/FRAG14 ED4: Lamp controlgear - Part 1: General and safety requirements, 7 June 2019

34C/1449/CD, IEC 61347-1/FRAG15 ED4: Lamp controlgear - Part 1: General and safety requirements, 7 June 2019

65/744/DTS, IEC TS 63164-1 ED1: Reliability of Industrial Automation Devices and Systems - Part 1: Assurance of automation devices reliability data and specification of their source, 7 June 2019

65C/958/CD, IEC 62439-3 ED4: Industrial communication networks - High availability automation networks - Part 3: Parallel Redundancy Protocol (PRP) and High-availability Seamless Redundancy (HSR), 7 June 2019

Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO. Prices shown are if bought from ANSI.

IEC 60268-21 Ed. 1.0 b:2018, Sound system equipment - Part 21: Acoustical (output-based) measurements, \$352.00

ISO 21248:2019, Information and documentation - Quality assessment for national libraries, \$232.00

ISO 2376:2019, Anodizing of aluminium and its alloys – Determination of breakdown voltage and withstand voltage, \$45.00

ISO 24508:2019, Ergonomics - Accessible design - Guidelines for designing tactile symbols and characters, \$103.00

ISO 8100-1:2019, Lifts for the transport of persons and goods - Part 1: Passenger and goods passenger lifts, \$232.00

ISO 8100-2:2019, Lifts for the transport of persons and goods - Part 2: Design rules, calculations, examinations and tests of lift components, \$232.00

ISO/IEC 14492:2019, Information technology - Lossy/lossless coding of bi-level images, \$232.00

ISO/IEC 24773-1:2019, Software and systems engineering - Certification of software and systems engineering professionals - Part 1: General requirements, \$68.00

ISO/IEC/IEEE 15026-1:2019, Systems and software engineering - Systems and software assurance - Part 1: Concepts and vocabulary, \$162.00

ISO/TS 8100-3:2019, Lifts for the transport of persons and goods - Part 3: Requirements from other Standards (ASME A17.1/CSA B44 and JIS A 4307-1/JIS A 4307-2) not included in ISO 8100-1 or ISO 8100-2, \$185.00

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 Working Group	09:00 – 13:00	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
Stage Machinery E1.6–4 Chain Hoist Control	09:00 – 13:00	Friday 19 July 2019
Stage Machinery E1.64 Control TG	09:00 – 13:00	Saturday 20 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. Filling in the schedule has just begun. Check <https://esta.org/ESTA/meetings.php>.

TSP Donors Who Have Made Long-Term, Multi-Year Pledges

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