

ESTA Standards Watch

Late January 2020

Volume 24, Number 2

One draft ESTA standard available for public review

One ESTA draft standard is available for public review on the ESTA TSP website at http://estalink.us/pr. Anyone materially affected by any document is invited to review it and to offer comments before the deadline. The review documents are available for free; downloading it costs you nothing but your time. Comments are due before the end of the day on 23 March 2020.

The draft standard in public review is **BSR E1.67**, **Entertainment Technology – Design, Inspection, Maintenance, Selection, and Use of Hand and Lever Chain Hoists in the Entertainment Industry**. Its scope is as the title says: the standard applies to manually operated chain and lever hoists used in the entertainment industry including, but not limited to, hoists used in theatre, musical touring, film, trade show and television industries, for the purposes of lifting, lowering, and tensioning, related to the production of shows and special events.

Registration is open for the 2020 New World Rigging Symposium

Registration is now open for the 2020 New World Rigging Symposium taking place March 31 – April 1 in Houston, TX in conjunction with the USITT Conference and Stage Expo. A complete schedule, session descriptions, and a link to register can be found at www.esta.org/nwrs. The Symposium will provide 10 ETCP education renewal credits for re-certification.

This year's lineup of panelists have a wide array of experience, and will offer presentations on good rigging practices and doing the work safely and efficiently. Eddie Raymond, Bill Sapsis, and OSHA Representative James Shelton will discuss regulations, standards, and codes of practice. Cinema rigging pros J. Patrick Daily and Michael Krevitt will explain the challenges of placing cameras, actors and stunt people in exotic locations; Jennifer Estremera, Michael Nishball, and Bob Powers will conduct a case study of a newly installed tension grid; Stu Cox, Jeff Fiaschetti and Sasha Guevara will offer a look at the crucial role of ground riggers; Anita Hartsock, Jared Fortney, and Kate Raymond will offer tips on communicating with and motivating your crew; Joe Clayton, Tony Galuppi, and Stefan Pries discussing good practices for video wall rigging; Fred Caron, Stu Cox and Jim Shumway covering emergency response and rescue plans for performer flying; Nils Becker, Joe Champelli and Pete Svitavsky explaining the differences between automation and motorization; and a quartet of top engineers—Tim Franklin, Bill Gorlin, Miriam Paschetto, and Jeff Reder—will answer challenging questions from the audience.

Jeanette Farmer will offer the keynote speech. Her career spans more than three decades of professional theatre technical support, show production, concert/theatre lighting design, theatre design consulting, and themed entertainment project management, with an emphasis on Las Vegas-style live mega-spectacles.

Registration for the two-day Symposium, including lunches, reception, and a USITT Stage Expo floor pass, is \$375. Registration for both the Symposium and the full USITT Conference is \$675.

LRLR Raffle and BTS Boutique benefit Behind the Scenes at USITT Stage Expo

The Long Reach Long Riders and Behind the Scenes will host their annual fundraising raffle at the USITT Stage Expo April 2-4 in Houston, TX. Tickets for the raffle are \$5 each or 5 for \$20 and can be purchased at the Behind the Scenes booth #222 throughout the show. Winning tickets for nine regular prizes and one grand prize will be drawn at 1:00 pm on Saturday, the final day of Stage Expo.

The prizes are: Spotlight with Renderworks from Vectorworks; Ghostlight from Altman Rentals; SpotFX unit with battery pack and gobos from Apollo Design, American Express Gift Card from Barbizon; Event Safety Summit 2020 Registration from the Event Safety Alliance; Nespresso CitiZ Espresso Machine with Aeroccino Milk Frother from IA Stage; a \$250 Gift Certificate to musson.com from Musson Theatrical; a \$250 Gift Certificate from Sapsis Rigging; ProPlus Rope Access Harness from Showtech Australia; and a USITT 2021 Full Conference Registration from USITT. In addition, handcrafted items created especially for BTS and donated by Shan and Trish Ayers will be auctioned. The Behind the Scenes Boutique also will be open for business during the show, and will feature an assortment of great Behind the Scenes swag and Long Reach Long Rider T-shirts and kazoos.

All proceeds from the raffle and boutique sales benefit Behind the Scenes, which provides financial assistance to entertainment technology professionals who are seriously ill or injured.

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 TBTs that may be of interest to Standards Watch readers. If you have a problem with any TBT, 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.

United States of America Notification USA/1565

Date issued: 20 January 2020

Agency responsible: Mine Safety and Health Administration (MSHA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Electronic detonators; Safety fuses; detonating fuses; percussion or detonating caps;

igniters; electric detonators (HS 3603)

Title: Electronic Detonators (6 pages in English)

Description of content: Proposed rule; request for comments - The Mine Safety and Health Administration (MSHA) is proposing to revise certain safety standards for explosives at metal and nonmetal (MNM) mines. This proposed rule updates existing provisions consistent with technological advancements involving electronic detonators. Elsewhere in this issue of the Federal Register, MSHA is also publishing a direct final rule because the Agency expects that there will be no significant adverse comments on the rule. If no significant adverse comments are received, the Agency will confirm the effective date of the final rule. If a significant adverse comment is received, MSHA will withdraw the direct final rule and proceed with this proposed rule. MSHA intends to publish a Federal Register notice announcing the Agency's action. This proposed rule and the companion direct final rule are substantially identical.

Objective and rationale: Protection of human health or safety

Relevant documents:

- 85 Federal Register (FR) 2064, 14 January 2020; Title 30 Code of Federal Regulations (CFR) Parts 56 and 57: https://www.govinfo.gov/content/pkg/FR-2020-01-14/pdf/2019-28447.pdf

- Electronic Detonators, Direct final rule; request for comments published 14 January 2020:

https://www.govinfo.gov/content/pkg/FR-2020-01-14/pdf/2019-28446.pdf

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

Final date for comments: 16 March 2020

Full text: https://www.govinfo.gov/content/pkg/FR-2020-01-14/pdf/2019-28447.pdf

Japan Notification JPN/649

Date issued: 20 January 2020

Agency responsible: Ministry of Internal Affairs and Communications

National inquiry point: Standards Information Service, International Trade Division, Economic Affairs

Bureau, Ministry of Foreign Affairs (MOFA)

Products covered: 2.4 GHz band Low Power Data Communication systems (only for radiolocation)

Title: Partial amendment of Regulations for Radio Equipment etc. (2 pages in English)

Description of content: To amend the regulations for the above system.

Objective and rationale: The reason for this amendment is to add new application of 2.4 GHz band Low

Power Data Communication system

Relevant documents: - The basic law is the Radio Act (1950 Law No.131).

http://www.japaneselawtranslation.go.jp/law/detail/?

ft=1&re=2&dn=1&co=01&ia=03&x=0&y=0&ky=radio+law&page=43

The amendment will appear in "KAMPO" (Official Government Gazette) when adopted (available in Japanese)

Proposed date of adoption: 1 May 2020 Proposed date of entry into force: 1 May 2020 Final date for comments: 20 March 2020

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/JPN/full_text/pdf/JPN649(english).pdf

Japan Notification JPN/650

Date issued: 22 January 2020

Agency responsible: Standards Information Service, International Trade Division, Economic Affairs Bureau,

Ministry of Foreign Affairs (MOFA)

National inquiry point: Standards Information Service, International Trade Division, Economic Affairs

Bureau, Ministry of Foreign Affairs (MOFA)

Products covered: 920 MHz band Active Low Power Wireless system

Title: Partial Amendment of Regulations for Radio Equipment etc. (4 pages in English)

Description of content: To amend the regulations for the above system.

Objective and rationale: The Regulations for Radio Equipment have to be amended to introduce technical requirements for 920 MHz band Active Low Power Wireless system; Other

Relevant documents: The basic law is the Radio Act (1950 Law No.131)

http://www.japaneselawtranslation.go.jp/law/detail/?

ft=1&re=2&dn=1&co=01&ia=03&x=0&y=0&ky=radio+law&page=43

The amendment will appear in "KAMPO" (Official Government Gazette) when adopted (available in Japanese)

Proposed date of adoption: 1 May 2020 Proposed date of entry into force: 1 May 2020 Final date for comments: 22 March 2020

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/JPN/full_text/pdf/JPN650(english).pdf

Canada Notification CAN/605

Date issued: 22 January 2020

Agency tresponsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Foreign Affairs, Trade and Development Canada

Products covered: Radiocommunications

Title: RSS-210, Issue 10 (45 and 49 pages in English and in French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development Canada that the following has been published at Web site: RSS-210, Issue 10, Licence-Exempt Radio Apparatus: Category I Equipment, sets out the certification requirements for equipment certification of several types of licence-exempt radio apparatus.

Objective and rationale: Not specified

Relevant documents: Canada Gazette, Part I, 18 January 2020, (available in English and French):

http://www.gazette.gc.ca/rp-pr/p1/2020/2020-01-18/html/index-eng.html

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

Final date for comments: 27 March 2020

Full text: https://tsapps.nist.gov/notifyus/docs/wto country/CAN/full text/pdf/CAN605(english).pdf

Canada Notification CAN/606

Date issued: 22 January 2020

Agency responsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Foreign Affairs, Trade and Development Canada

Products covered: Radiocommunications

Title: Consultation of RSS-310, Issue 5, (9 pages in English and in French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development Canada that the following has been published atWeb site: RSS-310, Issue 5, Licence-Exempt Radio Apparatus: Category II Equipment, sets out standard requirements for licence-exempt radio apparatus used for radiocommunication (other than broadcasting) that are exempt from certification.

Objective and rationale: Spectrum Management

Relevant documents: Canada Gazette, Part I, 18 January 2020, (available in English and French):

http://www.gazette.gc.ca/rp-pr/p1/2020/2020-01-18/html/index-eng.html

Proposed date of adoption: Not given by country

Proposed date of entry into force: 9 January 2020 (a fait accompli)

Final date for comments: 27 March 2020

https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN606(english).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 19 February 2020

The National Fire Protection Association announces the availability of NFPA Second Draft Report for concurrent review and comment by NFPA and ANSI. The disposition of all comments received are published in the Second Draft Report, located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example ww.nfpa.org/101next), can easily access the document's information page. All Notices of Intent to Make A Motion on the 2020 Annual Revision Cycle Second Draft Report must be received by the following date: February 19, 2020. For more information on the rules and for up-to-date

information on schedules and deadlines for processing NFPA Documents, check the NFPA website (http://www.nfpa.org) or contact NFPA's Codes and Standards Administration. Those who sent comments to NFPA (Contact Codes and Standards Administration, NFPA, One Batterymarch Park, Quincy, MA 02269-7471) on the related standards are invited to copy ANSI's Board of Standards Review.

BSR/NFPA 4-202x, Standard for Integrated Fire Protection and Life Safety System Testing (revision of ANSI/NFPA 4-2018)

The standard shall provide the minimum requirements for testing of integrated fire-protection and life-safety systems where such testing is required by the design documents, commissioning plan, governing laws, codes, regulations, or standards. These requirements include protocol for testing procedures, responsibilities of various parties, methods, and documentation for verifying the operational readiness and sequence of integrated systems. The standard is designed to ensure that interconnected active and passive fire protection and life safety systems operate as intended. It is not the intent of this standard to require implementation of emergency response procedures, evacuation drills, or other exercises that require facility staff or fire department response. However, when integrated systems tests are being conducted, it can be an appropriate opportunity to practice emergency procedures or drills. This standard does not prohibit the owner of the property, building, or individual system or the owner's designated representative from requiring integrated system testing by design or contract documents. This standard shall not be interpreted to require integrated fire protection and life safety systems testing unless otherwise required by the design documents or commissioning plan, or by governing laws, codes, regulations, or standards.

Obtain an electronic copy and offer comments at: www.nfpa.org/4Next

BSR/NFPA 1194-202x, Standard for Recreational Vehicle Parks and Campgrounds (revision of ANSI/NFPA 1194-2017)

This standard shall provide minimum construction requirements for safety and health for occupants using facilities supplied by recreational vehicle parks and campgrounds offering temporary living sites for use by recreational vehicles, recreational park trailers, and other camping units. This standard shall not cover the design of recreational vehicles, recreational park trailers, or other forms of camping units. ANSI A119.2/NFPA 1192 and ANSI A119.5 are companion standards on which the provisions of this standard are largely based. This standard shall not cover operational and maintenance practices for recreational vehicle parks and campgrounds. Obtain an electronic copy and offer comments at: www.nfpa.org/1194Next

Due 24 February 2020

BSR/UL 363-2011 (R202x), Standard for Safety for Knife Switches (reaffirmation of ANSI/UL 363-2011 (R2015))

This proposal covers the Reaffirmation and Continuance of the Eleventh Edition of the Standard for Knife Switches, UL 363, as an American National Standard.

Single copy price: Free!

Obtain an electronic copy and offer comments at: https://csds.ul.com/Home/ProposalsDefault.aspx

Due 2 March 2020

BSR/ASME B30.1-201x, Jacks, Industrial Rollers, Air Casters, and Hydraulic Gantries (revision of ANSI/ASME B30.1-2009)

Volume B30.1 includes provisions that apply to the construction, operation, inspection, testing, and maintenance of mechanical ratchet jacks, hand- or power-operated mechanical screw jacks, hydraulic jacks, air-lifting bags, industrial rollers, air casters, telescopic hydraulic gantry systems, and strand jacks.

Single copy price: Free!

Obtain an electronic copy from: http://cstools.asme.org/publicreview Send comments to: Kathleen Peterson, petersonk@asme.org

BSR/BHMA A156.35-202x, Standard for Power Supplies for Electronic Access Control (new standard)

This standard establishes requirements for external power supplies specifically designed for use with electronic access control hardware and related electrical components to distribute power.

Single copy price: \$36.00 (nonmembers); \$18.00 (BHMA members)

Order from and send comments to: Karen Bishop, Kbishop@Kellencompany.com

BSR MH31.2-201X, Test Method for Crash Testing Industrial Guardrail Barriers and Barrier Posts (new standard)

This standard provides a test method of evaluating performance characteristics for industrial guardrail barriers and barrier posts. Industrial guardrail barriers and barrier posts are commonly utilized within industrial and warehouse environments to safeguard against unwanted interactions with, or provide added protection against potential impacts from passing industrial vehicle traffic. These devices are typically mounted directly to the ground-level concrete floor slab at a safe distance away from pedestrian aisleways and vital equipment. Single copy price: \$25.00

Order from and send comments to: Patrick Davison, pdavison@mhi.org

CSA public review announcements

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

Due 10 March 2020

C22.2 NO. 60947-5-1, Low-voltage switchgear and controlgear - Part 5-1: control circuit devices and switching elements - Electromechanical control circuit devices (new edition)

This part of iec 60947 applies to control circuit devices and switching elements intended for controlling, signalling, interlocking, etc., of switchgear and controlgear. It applies to control circuit devices having a rated voltage not exceeding 1 000 V AC. (at a frequency not exceeding 1 000 Hz) or 600 V DC. However, for operational voltages below 100 V AC. or DC., see note 2 of 4.3.1.1. (That note says to seek the advice of the manufacturer when using control devices on lower voltages.)

This standard applies to specific types of control circuit devices such as:

- manual control switches, for example pushbuttons, rotary switches, foot switches, etc.;
- electromagnetically operated control switches, either time-delayed or instantaneous, for example contactor relays;
- pilot switches, for example pressure switches, temperature sensitive switches (thermostats), programmers, etc.:
- position switches, for example control switches operated by part of a machine or mechanism;
- associated control circuit equipment, for example indicator lights, etc.

Due 24 March 2020

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4560, Incorporate Provincial deviation into the Code – permission to use single-rod ground electrodes for services rated not more than 30 A and temporary services rated not more than 200 A (amendment)

The proposal is to revise Rule 10-102(2)(a) as follows:

- 2) Manufactured grounding electrodes shall
 - a) in the case of a rod grounding electrode, consist of two rod electrodes

i) one rod electrode for

- (1) Temporary services of 200 amp or less;
 - (2) Services of 30 amps or less supplying installations such as telephone booths and cable TV boosters; or
- iii) two rod electrodes spaced not less than 3 m apart;
- #iii) interconnected with a grounding conductor sized as prescribed for grounding conductors; and #iiiv) driven to the full length of the rod;

The argument for the proposed change is that Alberta has historically accepted grounding electrodes consisting of one ground rod for certain types of installations, and there have been no negative reports.

That's the proposal, but the actual public review item is the subcommittee recommendation, which is to reject the proposal and close the subject. Comments are solicited on that rejection recommendation.

DIN public review announcement

The Deutsches Institut für Normung has announced a draft document possibly of interest to *Standards Watch* readers that is open for public review until 10 March 2020. The document is in German. After you register with DIN at http://www.entwuerfe.din.de/, you may purchase and comment on DIN draft standards.

DIN 15996, Bild- und Tonbearbeitung in Film-, Video- und Rundfunkbetrieben - Grundsätze und Festlegungen für den Arbeitsplatz (Image and sound production in film and video studios and radio stations - Principles and provisions for a workstation. New standard.)

This document contains principles and specifications for the design of workstationms for image and sound processing in film, video and radio production. The requirements are intended to create workplaces that are barrier-free, as far as possible. This draft standard does not contain specific provisions for accessibility of the workplace and the working environment, as this requires individual solutions, for example for employees with restricted mobility. This document also serves as instructions for the safe setup and installation of systems. It is aimed at planners, manufacturers and operators of stationary studio facilities. This document does not apply to editorial workstations with digital editing options in offices, nor to mobile production facilities or to film cutting tables according to DIN 15992.

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/ATIS 0600039-202x, Brushfire (new standard)

There is a need for a brushfire standard as infrastructure is increasingly vulnerable to damage from wildfire as a result of increased deployment of communications equipment within enclosures located in the outside plant, communications equipment.

Contact: Drew Greco, dgreco@atis.org

BSR/BIFMA X5.11-2015 (R202x), General-Purpose Large Occupant Office Chairs (reaffirmation of ANSI/BIFMA X5.11-2015)

This standard provides guidance for the furniture industry regarding office chairs for large occupants. It is intended to provide manufacturers, specifiers, and users with a common basis for evaluating the safety, durability, and structural adequacy of office chairs for large occupants.

Contact: David Panning, dpanning@bifma.org

BSR/CTA 2096-202x, Guidelines for Developing Trustworthy Artificial Intelligence Systems (new standard)

This recommended practice will describe things developers of artificial intelligence (AI) systems should consider for their systems to be considered trustworthy.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/ISEA 100-202x, Industrial Bump Caps (new standard)

No US standard exists for this widely used worker protection device. This standard establishes testing, minimum performance, and labeling requirements for bump caps intended to provide protection to a wearer against the effects of striking their head against hard, stationary objects and incurring laceration or other superficial injuries. Products covered under the scope of this standard are not intended for protection from falling or moving objects. Contact: Cristine Fargo, cfargo@safetyequipment.org

BSR/NSF 527-202x, Cosmetic Products (new standard)

This standard is intended to provide test methods and evaluation criteria for cosmetic products to allow for the determination that the ingredients in the product are accurately identified, that the product contains the quantity of the ingredients and that the product does not contain unacceptable quantities of contaminants. In the case where a product includes label claims, these will be reviewed and substantiated as well. This standard provides criteria for determining that good manufacturing practices were followed in the production of cosmetics. Products

and ingredients deemed a hazard to public health or safety by a regulatory agency having jurisdiction shall be excluded from the scope of this document.

Contact: Jessica Evans, jevans@nsf.org

BSR/NSF 528-202x, Electronic Products Sustainability Criteria -Product Common Criteria (new standard) This is a sustainability leadership standard for the IT sector. This standard addresses criteria applicable to the design and use of electronic products with the goal of reducing sustainability impacts such as greenhouse gas emissions, resource consumption and the use of harmful chemical substances. Criteria included in this standard cover the selection of environmentally preferable materials; the avoidance of harmful chemical substances; design for reuse, repair, and recycling; product longevity; and energy consumption during product use. Contact: Jessica Evans, jevans@nsf.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 B11.0-2019, Safety of Machinery (revision of ANSI B11.0-2015): 16 December 2019

ANSI/BICSI N3-2019, Planning and Installation Methods for the Bonding and Grounding of Telecommunication and ICT Systems and Infrastructure (new standard): 17 December 2019

Draft IEC & ISO documents

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. Comments from US citizens on ISO documents should be sent to Karen Hughes at isot@ansi.org. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

JTC1-SC41/129/CD, ISO/IEC 20924 ED2: Internet of Things (IoT) -Vocabulary, 7 February 2020

JTC1-SC41/132/CD, ISO/IEC 30147 ED1: Internet of Things (IoT) -Integration of IoT trustworthiness activities in ISO/IEC/IEEE 15288 systems engineering processes, 7 February 2020

110/1178/DTR, IEC TR 62629-51-1 ED1: 3D display devices - Part 51 -1: Generic introduction of aerial display, 14 February 2020

110/1180/CD, IEC 63145-1-2 ED1: Eyewear display - Part 1-2: Generic - Terminology, 21 February 2020

ISO/DIS 9241-971, Ergonomics of human-system interaction – Part 971: Guidance on physical (tactile/haptic) accessibility, 6 March 2020, \$71.00

ISO/IEC DIS 23360-1-2, Linux Standard Base (LSB) - Part 1-2: Core specification generic part, 9 March 2020, \$323.00

ISO/IEC DIS 23360-1-3, Linux Standard Base (LSB) - Part 1-3: Desktop specification generic part, 9 March 2020, FREE

ISO/IEC DIS 23360-1-4, Linux Standard Base (LSB) - Part 1-4: Languages specification, 9 March 2020, \$194.00

ISO/IEC DIS 23360-2-3, Linux Standard Base (LSB) - Part 2-3: Desktop specification for X86-32 architecture, 9 March 2020, \$281.00

ISO/IEC DIS 23360-3-2, Linux Standard Base (LSB) - Part 3-2: Core specification for IA64 (Itanium™) architecture, 9 March 2020, \$215.00

ISO/IEC DIS 23360-4-2, Linux Standard Base (LSB) - Part 4-2: Core specification for AMD64 (X86-64) architecture, 9 March 2020, \$215.00

ISO/IEC DIS 23360-4-3, Linux Standard Base (LSB) - Part 4-3: Desktop specification for AMD64 (X86-64) architecture, 9 March 2020, \$281.00

ISO/IEC DIS 23360-5-2, Linux Standard Base (LSB) - Part 5-2: Core specification for PowerPC 32 architecture, 9 March 2020, \$215.00

ISO/IEC DIS 23360-5-3, Linux Standard Base (LSB) - Part 5-3: Desktop specification for PowerPC 32 architecture, 9 March 2020, \$281.00

ISO/IEC DIS 23360-6-2, Linux Standard Base (LSB) - Part 6-2: Core specification for PowerPC 64 architecture, 9 March 2020, \$215.00

ISO/IEC DIS 23360-6-3, Linux Standard Base (LSB) - Part 6-3: Desktop specification for PowerPC 64 architecture, 9 March 2020, \$281.00

ISO/IEC DIS 23360-7-3, Linux Standard Base (LSB) - Part 7-3: Desktop specification for S390 architecture, 9 March 2020, \$281.00

106/511/CD, **IEC 62232 ED3:** Determination of RF field strength, power density and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure, 13 March 2020

108/729/NP, PNW 108-729: Audio/video, information and communication technology equipment - Safety - DC power transfer between ICT equipment ports using ICT cabling at ≤ 60 VDC, 13 March 2020

108/730/NP, PNW 108-730: Audio/video, information and communication technology equipment - Safety - Power transfer between Communications equipment ports using Communications cabling at ≥ 60 VDC and AC, 13 March 2020

121A/333/CD, IEC 60947-2 ED6: Low-voltage switchgear and controlgear - Part 2: Circuit-breakers, 13 March 2020

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/IEC 14763-2:2019, Information technology - Implementation and operation of customer premises cabling - Part 2: Planning and installation, \$232.00

ISO/IEC TR 24772-1:2019, Programming languages - Guidance to avoiding vulnerabilities in programming languages - Part 1: Language-independent guidance, \$232.00

ISO/IEC 14496-3:2019, Information technology - Coding of audiovisual objects - Part 3: Audio, \$232.00

ISO/IEC/IEEE 16326:2019, Systems and software engineering – Life cycle processes - Project management, \$162.00

TSP meeting schedule

The Fog & Smoke Working Group will meet via WebEx from 11:00 to 13:00 on 7 February 2020. Agenda and other meeting documents are available at http://tsp.esta.org/tsp/meetingfiles/fs/listfiles.php.

The following meetings will be held face-to-face at the Marriott Marquis Houston in conjunction with the 2020 USITT Conference and Stage Expo.

Control Protocols Working Group	09:00 – noon	Thursday 2 April 2020
Electrical Power Electrical Inspection task group	14:00 – 18:00	Wednesday 1 April 2020
Electrical Power Working Group	10:00 – 13:00	Wednesday 1 April 2020
Event Safety Rigging Task Group	13:00 – 17:00	Friday 3 April 2020
Event Safety Working Group	13:00 – 16:00	Saturday 4 April 2020
Floors Working Group	14:00 – 17:00	Wednesday 1 April 2020
Followspot Position Working Group	19:00 – 10:00	Friday 3 April 2020
Photometrics Working Group	09:00 – noon	Saturday 4 April 2020
Rigging Working Group	19:00 – 23:00	Thursday 2 April 2020
Stage Machinery E1.6-4 task group	09:00 – 11:00	Thursday 2 April 2020
Stage Machinery E1.64 task group	09:00 – 11:00	Wednesday 1 April 2020
Stage Machinery Working Group	13:00 – 17:00	Thursday 2 April 2020
Technical Standards Council	15:00 – 18:00	Friday 3 April 2020

The most current schedule for meetings is always available at https://esta.org/ESTA/meetings.php.

ESTA Standards Watch

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

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Fax 1 212 244 1502

TSP donors who have made long-term, multi-year pledges

About the Stage

Actors' Equity Association

Altman Lighting

Barbizon Lighting Company

B-Hive Industries

Scott Blair BMI Supply

Boston Illumination Group

Candela Controls

Chauvet City Theatrical

Clark-Reder Engineering

Columbus McKinnon Corporation

Tracey Cosgrove and Mark McKinney

Bruce Darden

Doug Fleenor Design
Earl Girls Inc. EGI Pro
Electronic Theatre Controls
Entertainment Project Services

Geiger Engineers, PC Tony Giovannetti

GLP German Light Products

Golden Sea Professional Equipment Limited

H & H Specialties Harlequin Floors High Output Neil Huff

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TMB

Tyler Truss Systems

Vertigo

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Westview Productions WNP Services, Inc.

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Cisco Walt Disney Parks and Resorts

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German Light Products

Stage Rigging
Theatre Projects

JR Clancy TMB

McLaren Engineering Group Tyler Truss Systems, Inc.

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B-Hive Industries, Inc. Link

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Boston Illumination Group Mike Garl Consulting
Louis Bradfield Mike Wood Consulting

Candela Controls, Inc.

Reed Rigging

Clark Reder Engineering Reliable Design Services

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Cyclops Lighting Sapsis Rigging Inc.
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EGI Event Production Services Dana Taylor Entertainment Project Services Steve Terry

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Actors' Equity Association Lex
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Golden Sea Professional Lighting Provider Rosco Laboratories
IATSE Local 728 Texas Scenic Company

IATSE Local 891

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American Society of Theatre Consultants InterAmerica Stage, Inc.

Area Four Industries Lycian Stage Lighting
BMI Supply Morpheus Lights

City Theatrical Inc.

H&H Specialties, Inc.

Niscon Inc.

Tomcat

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Bruce Darden Qdot Lighting Ltd.
Guangzhou Color Imagination LED Lighting Robert Scales

Indianapolis Stage Sales & Rentals, Inc.

Shanghai Shylon Optoelectronic Technology Co.,

Lighting Infusion LLC Ltd.

Nanyi Audio & Lighting Enterprise Co., Ltd. Stephen Vanciel

SUPPORTER (\$50 - \$2,999; >100 employees/members)

lan Foulds, IATSE Local 873

IATSE Local 51

SUPPORTER (\$50 - \$1,499; 20–100 employees/members)

ACT Lighting Inc./AC Power Distribution

ARM Automation, Inc. Blizzard Lighting, LLC

Geiger Engineers

Guangzhou YaFeng Optoelectronic Equipment Co. Guangzhou Yilaiming Photoelectric Technology Co.,

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DMX Pro Sales

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