



Technical Standards Program

ESTA Standards Watch

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Public Comment Sought on Reaffirmation of Five ESTA Standards

Five Technical Standards Program standards are newly posted for public comment. These documents are all up for reaffirmation, meaning they have been published for as long as five years and the consensus body is considering republishing them with no substantive changes. Comments on the draft standards will be accepted through the end of the day on 3 April 2017. Download the documents, review instructions, and review forms at http://tsp.esta.org/tsp/documents/public_review_docs.php.

BSR E1.1 - 2012 (R201x), Entertainment Technology—Construction and Use of Wire Rope Ladders

The Rigging Working Group is considering E1.1 - 2012 for reaffirmation. The standard describes the construction

and use of wire rope ladders in the entertainment industry in order to promote worker safety. Wire rope ladders are used where ladders with rigid rails are impractical to use or would pose a greater danger.

BSR E1.8 - 2012 (R201x), Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension--Classification, Manufacture and Structural Testing

The Rigging Working Group is considering E1.8 - 2012 for reaffirmation. It is a standard for the structural integrity of loudspeaker enclosures that are suspended overhead. It is designed to ensure that flown speaker enclosures don't break and drop debris. It does not address requirements for sound reproduction.

BSR E1.16 - 2002 (R201x), Entertainment Technology—Configuration Standard for Metal-Halide Ballast Power Cables

The Electrical Power Working Group is considering ANSI E1.16 - 2002 (R2012) for reaffirmation. This standard describes a standard practice for grounding contact assignment for detachable power cables on 6kW, 12kW and 18kW metal-halide lamp ballasts used in the motion picture and television industries on portable studio luminaires that use the MIL-C-5015 connector with #28-6 insert configuration on the ballast end of the power cable.

BSR E1.32 - 2012 (R201x), Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires

The Electrical Power Working Group is considering ANSI E1.32 – 2012 for reaffirmation. E1.32 provides guidance in the inspection of stage and studio luminaires that use incandescent sources and that are used in the entertainment industry. The inspection is to evaluate their safety and any needed maintenance. The information contained in this document is intended to supplement the information contained in manufacturers' maintenance instructions.

BSR E1.37-1 - 2012 (R201x), Additional Message Sets for ANSI E1.20 (RDM) – Part 1, Dimmer Message Sets

The Control Protocols Working Group is considering E1.37-1 - 2012, Additional Message Sets for ANSI E1.20 (RDM) – Part 1, for reaffirmation. It provides additional RDM get/set parameter messages (PIDs). Most of the messages in this document are intended for use with entertainment lighting dimming systems. These additional messages allow access to configuration parameters commonly found in many theatrical dimming systems.

Open for Revision: E1.31, a.k.a. “sACN”

E1.31, Entertainment Technology—Lightweight streaming protocol for transport of DMX512 using ACN, describes a mechanism to transfer DMX512 A packets over a TCP/IP network using a subset of the ACN protocol suite. It covers data format, data protocol, data addressing, and network management. It also outlines a synchronization method to help ensure that multiple sinks can process this data concurrently when supervised by the same controller. E1.31 was last revised in 2016 to incorporate DMX512A universe synchronization. The Control Protocols Working Group is now opening the document for revision limited to the incorporation of IPv6 and to correct errors. Input on additional features is not being sought at this time.

To get involved with the revision process, join the Technical Standards Program by downloading and filling out a working group application, available at http://tsp.esta.org/tsp/documents/procedural_docs.html, and sending it to standards@esta.org. There is a \$100 per person, per calendar year participation fee. At this time, voters who would be in the Designer or the Dealer/Rental Company interest categories are particularly encouraged to apply. Information on interest categories may be found on page two of the working group application.

Alternatively, any member of the materially-affected public is invited to comment on the draft standard when revisions are considered complete and the document is offered for public review. Public reviews are posted to http://tsp.esta.org/tsp/documents/public_review_docs.php, when available. There is an RSS feed on the page.

WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with these notices, you can protest through your representative to the WTO. See "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/enterprise/tbt/> for advice on filing objections.

Botswana Notification BWA/59

Date issued: 26 January 2017

Agency responsible: Ministry of Investment, Trade & Industry

National inquiry point: Botswana Bureau of Standards

Products covered: Low-voltage switchgear and controlgear

Title: BOS IEC 60947-3, Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (284 pages, in English).

Description of content: This part of IEC 60947 applies to switches, disconnectors, switch-disconnectors and fuse-combination units to be used in distribution circuits and motor circuits of which the rated voltage does not exceed 1000 V a.c. or 1500 V d.c. The manufacturer shall specify the type, ratings and characteristics according to the relevant standard of any incorporated fuses. This part does not apply to equipment coming within the scope of IEC 60947-2, IEC 60947-4-1 and IEC 60947-5-1; however, when switches and fuse-combination units coming into the scope of this part are normally used to start, accelerate and/or stop an individual motor they shall also comply with the additional requirements given in Annex A. The requirements for single pole operated three pole switches are included in Annex C. Auxiliary switches fitted to equipment within the scope of this part shall comply with the requirements of IEC 60947-5-1. This part does not include the additional requirements necessary for electrical apparatus for explosive gas atmospheres.

NOTE 1 Depending on its design, a switch (or disconnector) can be referred to as a rotary switch (disconnector), cam-operated switch (disconnector), knife-switch (disconnector), etc.

NOTE 2 In this part, the word switch also applies to the apparatus referred to in French as commutateurs, intended to modify the connections between several circuits and inter alia to substitute a part of a circuit for another.

NOTE 3 In general, throughout this part switches, disconnectors, switch-disconnectors and fuse-combination units will be referred to as equipment.

The object of this part is to state the characteristics of the equipment:

- the conditions with which the equipment shall comply with reference to
- operation and behaviour in normal service;
- operation and behaviour in case of specified abnormal conditions, e.g. short circuit;
- dielectric properties;
- the tests for confirming that these conditions have been met and the methods to be adopted for these tests;
- the information to be marked on the equipment or made available by the manufacturer, e.g. in the catalogue.

Objective and rationale: Quality requirements; Prevention of deceptive practices and consumer protection

Relevant documents: The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60050-441:1984, International Electrotechnical Vocabulary (IEV) - Chapter 441: Switchgear, controlgear and fuses Amendment 1 (2000) IEC 60269 (all parts), Low-voltage fuses IEC 60410:1973, Sampling plans and procedures for inspection by attributes IEC 60417-DB:2000 1, Graphical symbols for use on equipment IEC 60947-1:2007, Low-voltage switchgear and controlgear - Part 1: General rules IEC 60947-2:2006, Low-voltage switchgear and controlgear - Part 2: Circuit-breakers IEC 60947-4-1:2000, Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters Amendment 1 (2002) Amendment 2 (2005) IEC 60947-5-1:2003, Low-voltage switchgear and control gear Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices IEC 61000-4-2:1995, Electromagnetic compatibility (EMC) ? Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test Amendment 1 (1998) Amendment 2 (2000) IEC 61000-4-3:2006, Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-

frequency, electromagnetic field immunity test Amendment 1 (2007) IEC 61000-4-4:2004, Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test IEC 61000-4-5:2005, Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test IEC 61000-4-6:2003, Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques Immunity to conducted disturbances, induced by radio-frequency fields Amendment 1 (2004) Amendment 2 (2006) CISPR 11:2003, Industrial, scientific and medical (ISM) radio-frequency equipment Electromagnetic disturbance characteristics - Limits and methods of measurement "DB" refers to the IEC on-line database. "8" 60947-3 c IEC:2008 Amendment 1 (2004) Amendment 2 (2006) CISPR 22:2005, Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement Amendment 1 (2005)

Proposed date of adoption: 26 July 2017

Proposed date of entry into force: Not given by country

Final date for comments: 27 March 2017

Switzerland Notification CHE/212

Date issued: 1 February 2017

Agency responsible: State Secretariat for Economic Affairs (SECO) ; Federal Department of the Environment, Transport, Energy and Communications (DETEC)

National inquiry point: Swiss Association for Standardization (SNV)

Products covered: Mercury wastes; Elemental mercury (CAS No. 7439-97-6) and mercury compounds; New mercury uses in products; Dental amalgam

Title: Chemical Risk Reduction Ordinance, ORRChem. Amendment of 2017; Draft of 31.10.2016 (16 pages, in German, French and Italian) and Ordinance on the Prevention and Disposal of Waste. Amendment of ...2017; Draft of 31.10.2016 (1 page, in German, French and Italian)

Description of content: . According to the proposed amendment of the Ordinance on the Prevention and Disposal of Waste, elemental mercury and mercury compounds no longer used in processes or gained from the treatment of waste shall be considered as mercury waste from 1 January 2021. Mercury waste shall be permanently disposed of in an environmental sound manner. This principle does not apply for elemental mercury and mercury compounds that are destined for an allowable use.

According to the proposed amendment of the ORRChem, any person wishing to import elemental mercury or mercury compounds or export elemental mercury needs an authorisation from the Federal Office for the Environment (FOEN). An export authorisation will be granted if elemental mercury is used for research purposes. In addition, an export authorisation can be granted until 31 December 2020 when elemental mercury will be used in the manufacturing of gas discharge lamps or dental amalgam or for the maintenance of seam-welding machines, provided that the importing country has given its consent to the FOEN and the recipient has confirmed to the exporter that elemental mercury is destined for one of the above mentioned allowed uses. Import authorisations will be granted if elemental mercury or a mercury compound is destined for an allowed use.

Furthermore the existing restrictions of the ORRChem on mercury shall be amended with a prohibition of the marketing of mercury-added products intended for uses that are not known before 31 December 2017, and the use of mercury or mercury compounds for the manufacturing of such new mercury-added products. In addition the existing prohibition on use of dental amalgam shall be supplemented with an export ban from 1 January 2021.

Objective and rationale: Restrictions on the marketing and use of mercury exist in Switzerland since more than 30 years. These provisions have been regularly updated with the aim of phase down uses of mercury and mercury-added products. Today no mercury or mercury compounds are used in processes and there are no stocks of mercury and mercury compounds that are no longer used in processes. However, mercury is extracted in Switzerland from imported mercury-containing waste. Since the demand of mercury in Switzerland is quite low, almost all recycled mercury is exported. The objective of the new provisions is a reduction of the global supply of mercury. This is consistent with the objectives of the Minamata Convention on Mercury. The Government of Switzerland deposited its instrument of ratification to the Convention on May 2016.

Relevant documents: <http://www.bafu.admin.ch/chemikalien/01410/13975/index.html?lang=de>
<http://www.bafu.admin.ch/chemikalien/01410/13975/index.html?lang=fr>
<http://www.bafu.admin.ch/chemikalien/01410/13975/index.html?lang=it>

Proposed date of adoption: 1 November 2017

Proposed date of entry into force: 1 November 2017

Final date for comments: 31 March 2017

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE212\(german\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE212(german).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE212\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE212(french).pdf)

United States of America Notification: USA/1271

Date issued: 1 February 2017

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Methylene chloride and N-Methylpyrrolidone (HS 290312)

Title: Methylene Chloride and N-Methylpyrrolidone; Regulation of Certain Uses Under TSCA Section 6(a) (70 pages, in English).

Description of content: Methylene chloride, also called dichloromethane, is a volatile chemical that has a variety of uses, including paint and coating removal. N-methylpyrrolidone (NMP) is a solvent used in a variety of applications, including paint and coating removal. For each of these chemicals, EPA has identified risks of concern associated with their use in paint and coating removal. EPA proposes a determination that these are unreasonable risks. EPA is proposing to prohibit the manufacture (including import), processing, and distribution in commerce of methylene chloride for consumer and most types of commercial paint and coating removal under section 6 of the Toxic Substances Control Act (TSCA). EPA is also proposing to prohibit the use of methylene chloride in these commercial uses; to require manufacturers (including importers), processors, and distributors, except for retailers, of methylene chloride for any use to provide downstream notification of these prohibitions throughout the supply chain; and to require recordkeeping. EPA is proposing an initial ten-year time-limited exemption from these proposed regulations on methylene chloride for coating removal uses critical for national security. First, EPA is proposing to prohibit the manufacture (including import), processing, and distribution in commerce of NMP for all consumer and commercial paint and coating removal; to prohibit the use of NMP for all commercial paint and coating removal; to require, consistent with methylene chloride restrictions, downstream notification of these prohibitions throughout the supply chain; to require recordkeeping; and to provide a time-limited exemption from these proposed regulations on NMP for coating removal uses critical for national security. For NMP, as an alternate proposal, EPA is proposing that (1) commercial users of NMP for paint and coating removal establish a worker protection programme for dermal and respiratory protection and not use paint and coating removal products that contain greater than 35% NMP by weight (except for product formulations destined to be used by DoD or its contractors performing work only for DOD projects); and (2) processors of products containing NMP for paint and coating removal reformulate products such that these products do not exceed a maximum of 35% NMP by weight, identify gloves that provide effective protection for the formulation, and provide warning and instruction labels on the products.

Objective and rationale: Protection of the environment

Relevant documents: 82 Federal Register (FR) 7464, 19 January 2017; Title 40 Code of Federal Regulations (CFR) Part 751. 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: 19 April 2017

Full text URL: https://members.wto.org/crnattachments/2017/TBT/USA/17_0625_00_e.pdf

United States of America Notification USA/1270

Date issued: 1 February 2017

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Trichloroethylene (TCE) (HS 290322)

Title: Trichloroethylene (TCE); Regulation of Use in Vapor Degreasing Under TSCA Section 6(a) (30 pages, in English).

Description of content: Trichloroethylene (TCE) is a volatile organic compound widely used in industrial and commercial processes and has some limited uses in consumer and commercial products. EPA identified significant health risks associated with TCE use in vapour degreasing and EPA's proposed determination is that these risks are unreasonable risks. To address these unreasonable risks, EPA is proposing under section

6 of the Toxic Substances Control Act (TSCA) to prohibit the manufacture (including import), processing, and distribution in commerce of TCE for use in vapour degreasing; to prohibit commercial use of TCE in vapour degreasing; to require manufacturers, processors, and distributors, except for retailers of TCE for any use, to provide downstream notification of these prohibitions throughout the supply chain; and to require limited recordkeeping.

Objective and rationale: Protection of the environment

Relevant documents: 82 Federal Register (FR) 7432, 19 January 2017; Title 40 Code of Federal Regulations (CFR) Part 751. 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: 20 March 2017

Full text URL: https://members.wto.org/crnattachments/2017/TBT/USA/17_0624_00_e.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 13 March 2017

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

This addendum clarifies Result(-) response for failed WritePropertyMultiple requests, ReadPropertyMultiple response on OPTIONAL when empty, and Out-Of-Service.

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

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

This addendum reduces allowed ranges for Usage Timeout, specifies design choices for MS/TP devices, and handles unwanted MS/TP frames in IDLE state.

Single copy price: \$35.00

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

BSR/ASHRAE Addendum r to ANSI/ASHRAE Standard 135.1-2013, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2013)

This addendum adds Property_List property tests and tests for DUPLICATE_ENTRY error code.

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

BSR/EIA 61014 Ed.2.0-201x, Programs for reliability growth (identical national adoption of IEC 61014:2003 Ed.2.0)

This International Standard specifies requirements and gives guidelines for the exposure and removal of weaknesses in hardware and software items for the purpose of reliability growth. It applies when the product specification calls for a reliability growth program of equipment (electronic, electromechanical, and mechanical hardware as well as software) or when it is known that the design is unlikely to meet the requirements without improvement.

Single copy price: \$278.00

Order from: Global Engineering Documents, <https://global.ihs.com/>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 61025 Ed.2.0-201x, Fault tree analysis (FTA) (identical national adoption of IEC 61025:2006 Ed.2.0)

This International Standard describes fault tree analysis and provides guidance on its application as follows:

- definition of basic principles;
- describing and explaining the associated mathematical modelling;
- explaining the relationships of FTA to other reliability modelling techniques;
- description of the steps involved in performing the FTA;
- identification of appropriate assumptions, events and failure modes; and
- identification and description of commonly used symbols.

Single copy price: \$303.00

Order from: Global Engineering Documents, <https://global.ihs.com/>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 61124 Ed.3.0-201x, Reliability testing - Compliance tests for constant failure rate and constant failure intensity (identical national adoption of IEC 61124:2012 Ed.3.0)

This International Standard gives a number of optimized test plans, the corresponding operating characteristic curves and expected test times. In addition the algorithms for designing test plans using a spreadsheet program are also given, together with guidance on how to choose test plans. This standard specifies procedures to test whether an observed value of

- failure rate;
- failure intensity;
- mean time to failure (MTTF); and
- mean operating time between failures (MTBF);

conforms to a given requirement.

Single copy price: \$387.00

Order from: Global Engineering Documents, <https://global.ihs.com/>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/EIA 61164 Ed.2.0-201x, Reliability growth - Statistical test and estimation methods (identical national adoption of IEC 61164:2004 Ed.2.0)

This International Standard gives models and numerical methods for reliability growth assessments based on failure data, which were generated in a reliability improvement program. These procedures deal with growth, estimation, confidence intervals for product reliability, and goodness-of-fit tests.

Single copy price: \$303.00

Order from: Global Engineering Documents, <https://global.ihs.com/>

Send comments to: Ed Mikoski, emikoski@ecianow.org

BSR/IES RP-7-17-201x, Recommended Practice for Lighting Industrial Facilities (revision and redesignation of ANSI/IESNA RP-7-2012)

This standard is a guide for the design of permanently installed lighting systems for industrial facilities, including indoor and outdoor and providing recommended minimum illumination levels.

Single copy price: \$25.00

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

BSR/UL 723-201x, Standard for Safety for Test for Surface Burning Characteristics of Building Materials (revision of ANSI/UL 723-2013)

The following changes in requirements to the Standard for Test for Surface Burning Characteristics of Building Materials, UL 723, are being proposed: (1) Updates the reference to the photometer system; (2) Clarity on the user of standardized mounting practices; (3) Adds a new mounting practice, ASTM E2988, Standard Practice for Specimen Preparation and Mounting of Flexible Fibrous Glass Insulation for Metal Buildings to assess surface burning characteristics; (4) Revision to add heptane for optional smoke calibration procedure; (5) Clarity on flame front advancement when floor ignition occurs; and (6) Removes the requirement for ASTM E136 for Fiber Cement Board.

Order from: comm2000, <http://www.comm-2000.com>

Send comments to: Mary Huras, Mary.Huras@ul.com

Due 20 March 2017

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

This Standard establishes requirements for the performance, design, testing, marking, and instructions for use of anchorage connectors in travel restraint, fall arrest, rescue, work position, rope access, and suspended component/tie-back line systems only.

Single copy price: \$100.00

Order from and send comments to: Tim Fisher, TFisher@ASSE.Org

BSR C18.3M, Part 2-201x, Portable Lithium Primary Cells and Batteries -Safety Standard (revision of ANSI C18.3M, Part 2-2011)

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. The chemical systems standardized in ANSI C18.3M, Part 1 are: lithium carbon monofluoride; lithium manganese dioxide; lithium iron disulfide.

Single copy price: \$84.00

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

BSR/IEEE 1680.4/NSF 426-201x (i2r2), Standard for Environmental Leadership Assessment of Servers (new standard)

This standard defines environmental performance criteria for computer servers as defined in the Energy Star Server specifications, including managed servers and blade servers. This standard establishes criteria for multiple levels of environmental leadership and performance throughout the product life cycle, relating to reduction or elimination of environmentally sensitive materials, materials selection, design for end-of-life, life cycle extension, energy conservation, end-of-life management, corporate responsibility, and packaging.

Single copy price: Free

Order from and send comments to: Jessica Slomka, jslomka@nsf.org

BSR/NSF 457-201x (i1r1), Sustainability Leadership Standard for Photovoltaic Modules (new standard)

The purpose of this standard for photovoltaic modules is to establish product sustainability performance criteria and corporate performance metrics that exemplify sustainability leadership in the market.

Single copy price: Free

Order from and send comments to: Jessica Slomka, jslomka@nsf.org

BSR/NSF/CGI 355-201x (i2r1), Greener Chemicals and Processes Information (revision of ANSI/NSF/GCI 355-2011)

This Standard applies to products and processes at facilities in any global location(s). Corporate-level aspects such as social responsibility apply irrespective of the location of the corporate headquarters, business incorporation, or facilities associated with the conforming product and process. Facility-level aspects are limited to only those facilities where the conforming product and process is located.

Single copy price: Free

Order from and send comments to: Kianda Franklin, kfranklin@nsf.org

Due 27 March 2017

BSR/C137.3-201x, Standard for Lighting Systems - Minimum Requirements for installation of Energy Efficient Power over Ethernet (PoE) Lighting Systems (new standard)

This standard specifies the requirements for limiting energy losses due to cable selection when installing PoE lighting systems. This standard is not meant to replace existing PoE standards, but to build on them by addressing this specific area in installation of PoE lighting systems.

Single copy price: \$50.00

Order from and send comments to: Karen Willis, Karen.willis@nema.org

BSI Public Review Announcements

BSI Standards has announced a draft document for public review that might be of interest to *Standards Watch* readers. BSI documents may be commented on at <http://drafts.bsigroup.com/>.

Due 6 March 2017

BS 8593, Code of practice for the deployment and use of Body Worn Video (BWV)

This British Standard provides technical and operational recommendations for the deployment and use of Body Worn Video (BWV) used for the purposes of recording interactions between the wearer and other parties, or the environments in which the wearer finds themselves. This standard is applicable to both BWV users and system owners, as well as suppliers, taking into account how the visual/audio data is captured, viewed, stored and used securely.

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 the public reviews please visit: <http://publicreview.csa.ca/>.

Due 17 March 2017

Z412 Office Ergonomics – An application standard for workplace ergonomics (new edition)

This Standard specifies requirements for the Application of Ergonomics in offices. It applies to all office work systems, including traditional office workspaces in new and existing buildings and non-traditional workspaces i.e. mobile and home. Whenever an office is referred to in this document, it refers to one or more of these settings.

Due 19 March 2017

C22.1, C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4178, Definition for “Basement” (amendment)

Add a new definition for the word “basement” as shown: “Basement - a storey or part of a storey of a building located below the first storey which will not be suitable as living area.”

Due 20 March 2017

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4180, Colour coding for single conductor cables (amendment)

Edits to the subrule, plus a renumbering of the rest of the section, is being proposed as follows:

66-456 Single-conductor cable connections (see Appendix I)

- (1) Connections to single-conductor cables shall not be accessible to unqualified persons.
- (2) Plug-in connectors for single-conductor cables shall
 - (a) be of a locking type;
 - (b) incorporate a mechanical interlock to prevent wrong connections or be colour-coded; and
 - (c) have all connections that are not in use covered with a seal or cap that is acceptable.
- (3) Where required by Item (2)(b), colour coding shall be accomplished through

(a) bundled single conductor cables with all connectors being manufactured coloured connectors, and

(i) connectors for bundled power distribution at less than 150 volts to ground coloured:

(A) green, white and any line connector colour for single-phase 2 wire 120-volt systems;

(B) green, white and any two line connector colours for single phase circuits on 3 wire systems;

(C) green, white, red, black, blue for 3 phase 4 wire circuits or systems; and

(D) consistent colour coding of connectors for the length of the circuit.

(ii) _____ connectors for bundled single phase line-to-line individual loads at less than 150 volts to ground coloured green and any two line connector colours; or

(b) Individual single conductor cables having all connectors

(i) manufactured and coloured in accordance with Items 66-456(3)(a)(i) or (ii); or

(ii) clearly identified with coloured tape at each end of the cable, with each connector being taped commencing 30mm from the mating end and extending 150mm past the connector.

Due 27 March 2017

C381.1 Energy performance of external ac-dc and ac-ac power supplies (new edition)

This standard specifies a test method for calculating the energy performance of external power supplies (EPS) across a full range of load conditions. It covers single-voltage and multiple-voltage external ac-dc and ac-ac power supplies.

C381.2 Energy performance of battery-charging systems & Uninterruptible Power Supplies (new edition)

This Standard covers the test requirements used to measure battery charger energy consumption for battery chargers intended to be operated from 115 V ac, 60 Hz line voltage connected by plug to wall receptacles or existing dc sources (such as automotive power jacks or USB ports). Uninterruptible power supplies that utilize the standardized National Electrical Manufacturer Association (NEMA) plug, 1-15P or 5-15P, as specified in ANSI/NEMA WD 6-2016 and have an AC output are included in the scope.

Due 31 March 2017

CAN/CSA-O80 SERIES-15 Wood preservation (amendment)

The CSA O80 series of standards specifies requirements related to the preservation and fire retardance of wood through chemical treatment (pressure and thermal impregnation). The subjects covered include materials and their analysis, pressure and thermal impregnation procedures, and fabrication and installation to put treated wood into service.

Due 4 April 2017

C22.2 No. 223 Power supplies with extra-low-voltage Class 2 outputs (Amendment)

This standard applies to

- a) indoor and outdoor use Class 2 power supplies with input power of 660 W or less. These units are of both the direct plug-in and cord-connected types that utilize a step-down, isolating transformer and that may incorporate rectifiers and other components to provide an ac or dc output;
- b) Class 2 power supplies as in Item a) employed as battery chargers for rechargeable batteries; and
- c) identified Class 2 outputs or extra-low voltage outputs of products covered by other standards. For example, permanently connected units covered by CSA C22.2 No. 107.1.

This standard also provides direct plug-in requirements for products covered by other standards.

Due 7 April 2017

C22.2 No. 127 Equipment and lead wires (Amendment)

This is a proposed amendment to C22.2 No. 127 - Equipment and lead wires

New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, or (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

BSR/ASSE A1264.2-201X, Provision of Slip Resistance on Walking/Working Surfaces (revision of ANSI/ASSE A1264.2-2012)

This standard sets forth provisions for protecting persons where there is potential for slips and falls as a result of surface characteristics or conditions.

Contact: Ovidiu Munteanu, OMunteanu@ASSE.org

BSR/ASSE Z10-201X, Occupational Health and Safety Management Systems (revision of ANSI/AIHA Z10-2012)

This standard defines minimum requirements for an occupational health and safety management system (OHSMS). Public review of a proposed reaffirmation of Z10 concluded at the end of Calendar Year 2016. We are now planning to finalize the reaffirmation of Z10 and then proceed with the revision of the standard.

Contact: Tim Fisher, TFisher@ASSE.org

BSR/AWS D8.1M-201x, Specification for Automotive Weld Quality - Resistance Spot Welding of Steel (revision of ANSI/AWS D8.1M -2013)

This document contains both visual and measurable acceptance criteria for resistance spot welds in steels. The information contained in this standard may be used as an aid by designers, resistance-welding equipment manufacturers, welded product producers, and others involved in the automotive industry and resistance spot welding of steels. [This is for the automotive industry but probably affects others spot-welding steel.]

Contact: Annik Babinski, ababinski@aws.org

BSR/FM 4996-201x, Classification of Pallets and Other Material Handling Products as Equivalent to Wood Pallets (revision of ANSI/FM 4996-2013)

This revision will remove totes from the scope of the standard. This standard will provide a means for testing plastic pallets using a full-scale sprinklered fire test to simulate a real-life fire condition.

Contact: Josephine Mahnken, josephine.mahnken@fmapprovals.com

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 A190.1-2017, Standard for Wood Products - Structural Glued Laminated Timber (revision of ANSI A190.1-2012): 24 January 2017

ANSI ASSE Z359.3-2017, Safety Requirements for Lanyards and Positioning Lanyards (revision of ANSI ASSE Z359.3-2007): 2 February 2017

ANSI C63.27-2017, Draft [sic] Standard for Evaluation of Wireless Coexistence (new standard): 19 January 2017

ANSI C63.5-2017, Draft Standard for Electromagnetic 3 Compatibility - Radiated Emission 4 Measurements in Electromagnetic 5 Interference (EMI) Control - Calibration 6 and Qualification of Antennas (9 kHz to 7 40 GHz) (new standard): 31 January 2017

ANSI C78.52-2017, Electric Lamps, Light Emitting Diode (LED) Direct Replacement Lamps - Method of Designation (new standard): 2 February 2017

ANSI/ASAE S351-1982 (R2017), Hand Signals for Use in Agriculture (reaffirmation of ANSI/ASAE S351-1982 (R2011)): 23 January 2017

ANSI/ASSE Z10-2012 (R2017), Occupational Health and Safety Management Systems (reaffirmation and redesignation of ANSI/AIHA Z10-2012): 2 February 2017 (Note that a revision project was started the following day.)

ANSI/ATIS 0600015.13-2017, Energy Efficiency for Telecommunication Equipment: Methodology for Measurement and Reporting for 802.11xx Wi-Fi Access Points (new standard): 19 January 2017

ANSI/AWS D16.3M/D16.3-2017, Risk Assessment Guide for Robotic Arc Welding (revision of ANSI/AWS D16.3M/D16.3-2008): 24 January 2017

ANSI/IES LM-80-15 Errata-2017, IES Approved Method: Measuring Luminous Flux and Color Maintenance of LED Packages, Arrays and Modules (revision of ANSI/IES LM-80-2015): 2 February 2017

ANSI/IESNA RP-30-2016, Recommended Practice for Museum Lighting (revision of ANSI/IESNA RP-30-1996 (R2008)): 30 January 2017

ANSI/UL 444-2017, Standard for Safety for Communications Cables (Proposals Dated 6/3/16) (revision of ANSI/UL 444-2015): 20 January 2017

Draft IEC & ISO Standards

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

2/1857/FDIS, IEC 60034-1 ED13: Rotating electrical machines – Part 1: Rating and performance, 10 March 2017

65A/820/FDIS, IEC 61326-3-2 ED2: Electrical equipment for measurement, control and laboratory use - EMC requirements – Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment, 10 March 2017

65C/861/FDIS, IEC 62657-2 ED2: Industrial communication networks - Wireless communication networks - Part 2: Coexistence management, 10 March 2017

ISO/DIS 9709, Structural timber - Visual strength grading – Basic principles – 12 April 2017, \$98.00

ISO/DIS 13912, Structural timber - Machine strength grading – Basic principles – 12 April 2017, \$88.00

ISO/DIS 18592, Resistance welding - Destructive testing of welds - Method for the fatigue testing of multi-spot-welded specimens – 13 April 2017, \$107.00

ISO/DIS 516, Photography - Camera mechanical shutters – General definition and mechanical shutter measurements – 19 April 2017, \$71.00

3/1301/CDV, ISO 81346-12 ED1: Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 12: Buildings and building services, 21 April 2017

23G/380/CDV, IEC 60799 ED3: Electrical accessories - Cord sets and interconnection cord sets, 21 April 2017

23H/369/CDV, IEC 62986 ED1: Plugs, socket-outlets and couplers with arcuate contacts, 21 April 2017

65B/1070/CD, IEC 61131-10 ED1: XML Exchange Formats for Programs according to IEC 61131-3, 21 April 2017

77B/771/CD, IEC 61000-4-3 ED4: Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test, 21 April 2017

Recently Published IEC & ISO Documents

Listed here are documents recently approved by the IEC and ISO. A list of standards resellers is available at <http://webstore.ansi.org/faq.aspx#resellers>.

CISPR 16-1-4 Ed. 3.2 b:2017, Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements, \$938.00

CISPR 16-1-4 Amd.2 Ed. 3.0 b:2017, Amendment 2 - Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Radio disturbance and immunity measuring apparatus - Antennas and test sites for radiated disturbance measurements, \$23.00

IEC 60238 Ed. 9.1 b:2017, Edison screw lampholders, \$469.00

IEC 60238 Amd.1 Ed. 9.0 b:2017, Amendment 1 - Edison screw lampholders, \$23.00

IEC 60300-3-3 Ed. 3.0 b:2017, Dependability management - Part 3-3: Application guide - Life cycle costing, \$281.00

IEC 60623 Ed. 5.0 b:2017, Secondary cells and batteries containing alkaline or other non-acid electrolytes - Vented nickel-cadmium prismatic rechargeable single cells, \$164.00

S+ IEC 60623 Ed. 5.0 en:2017 (Redline version), Secondary cells and batteries containing alkaline or other non-acid electrolytes – Vented nickel-cadmium prismatic rechargeable single cells, \$213.00

IEC 60838-1 Ed. 5.1 b:2017, Miscellaneous lampholders - Part 1: General requirements and tests, \$322.00

IEC 60838-1 Amd.1 Ed. 5.0 b:2017, Amendment 1 – Miscellaneous lampholders - Part 1: General requirements and tests, \$23.00

IEC 62341-6-1 Ed. 2.0 en:2017, Organic light emitting diode (OLED) displays - Part 6-1: Measuring methods of optical and electro-optical parameters, \$281.00

S+ IEC 62341-6-1 Ed. 2.0 en:2017 (Redline version), Organic light emitting diode (OLED) displays - Part 6-1: Measuring methods of optical and electro-optical parameters, \$366.00

IEC 62435-1 Ed. 1.0 b:2017, Electronic components – Long-term storage of electronic semiconductor devices - Part 1: General, \$235.00

IEC 62550 Ed. 1.0 b:2017, Spare parts provisioning, \$317.00

IEC 62714-3 Ed. 1.0 b:2017, Engineering data exchange format for use in industrial automation systems engineering – Automation markup language - Part 3: Geometry and kinematics, \$352.00

IEC 62949 Ed. 1.0 b:2017, Particular safety requirements for equipment to be connected to information and communication technology networks, \$164.00

IEC 63044-1 Ed. 1.0 b:2017, Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 1: General requirements, \$47.00

IEC 63044-3 Ed. 1.0 b:2017, Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 3: Electrical safety requirements, \$117.00

IEC 63044-5-1 Ed. 1.0 b:2017, Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up, \$117.00

IEC 63044-5-2 Ed. 1.0 b:2017, Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light-industrial environments, \$82.00

IEC 63044-5-3 Ed. 1.0 b:2017, Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industrial environments, \$23.00

IEC/TR 61000-2-5 Ed. 3.0 en:2017, Electromagnetic compatibility (EMC) - Part 2-5: Environment - Description and classification of electromagnetic environments, \$387.00

TSP Meeting Schedule

The March meetings will be at the Marriott St. Louis Grand in conjunction with the USITT Conference and Stage Expo. The most up to date schedule can be found on the ESTA website at <http://tsp.esta.org/tsp/meetings/index.php>.

Control Protocols BSR E1.37-7 (gateway/splitter) TG	13:00 – 16:00	Saturday 11 March 2017
Control Protocols E1.31 IPv6 revision	19:00 – 23:00	Thursday 9 March 2017
Control Protocols E1.33/37-7 RDMnet	10:00 – 18:00	Friday 10 March 2017
Control Protocols E1.59 Automation Feedback TG	09:00 – 13:00	Thursday 9 March 2017
Control Protocols Working Group	13:00 – 17:00	Thursday 9 March 2017
Electrical Power Working Group	09:00 – noon	Thursday 9 March 2017
Event Safety Fire Safety TG	09:00 – 13:00	Saturday 11 March 2017
Event Safety Task Group	14:00 – 18:00	Thursday 9 March 2017
Event Safety Working Group	noon – 16:00	Saturday 11 March 2017
Floors Working Group	08:00 – 11:00	Friday 10 March 2017
Fog & Smoke Working Group	19:00 – 23:00	Wednesday 8 March 2017
Followspot Position Working Group	14:30 – 15:00 ESTA Booth 2129	Friday 10 March 2017
Rigging E1.6-2 Task Group	19:00 – 23:00	Wednesday 8 March 2017
Rigging E1.56 Task Group	09:00 – 13:00	Thursday 9 March 2017
Rigging Working Group	18:00 – 20:00	Thursday 9 March 2017
Technical Standards Council	14:00 – 18:00	Wednesday 8 March 2017

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Indianapolis Stage Sales & Rentals, Inc.
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Eric Loader
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Lumenradio AB
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Project SSSHH Incorporated
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ESTA Standards Watch

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