Technical Standards Program

ESTA Standards Watch

Late March 2016 Volume 20, Number 6

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Six ESTA Standards In Public Review

Check 'em out at http://tsp.esta.org/tsp/documents/public_review_docs.php. Four are due no later than April 11; one is due May 2, and another is due no later than May 23. Its review is over when May 24 starts.

The four with an April 11 public review end-date are:

- **BSR E1.33,** Entertainment Technology — (RDMnet) — Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks
- **BSR E1.31,** Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN
- **BSR E1.4-1,** Entertainment Technology - Manual Counterweight Rigging Systems
- **ANSI E1.15 - 2006,** Entertainment Technology -- Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (a reaffirmation)

One standard has a May 2 public review end-date:

- **BSR E1.53,** Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice

And another public review ends EOD on May 23:

- **ANSI E1.28 - 2011**, Guidance on planning followspot positions in places of public assembly (a reaffirmation)

One Withdrawn ESTA Standard

E1.30-7 – 2009, EPI 29, Allocation of Internet Protocol Version 4 Addresses to ACN Hosts, has been withdrawn as an American National Standard. It is based on a protocol that was not widely adopted in the market, and we have no evidence that anyone uses E1.30-7. To avoid having to maintain a useless standard, ESTA's Control Protocols Working Group voted to withdraw it, and on February 17 ANSI's Board of Standards Review approved this action. It is still available at http://tsp.esta.org/tsp/documents/published_docs.php, but it is watermarked as withdrawn.

Three ESTA Revision Projects

Three existing ESTA standards have been opened for revision. Materially affected parties are invited to join the working groups developing the revisions or to comment in future public reviews. The three revision projects are:

BSR E1.40, Recommendations for the Planning of Theatrical Dust Effects
The standard is being revised primarily to address deflagration of dust. Other changes include a generalized grouping of types of dusts, editorial changes, and changes to references to Material Safety Data Sheets, which have been replaced by Safety Data Sheets. This is a project of the Fog & Smoke Working Group.

BSR E1.41, Recommendations for the Measurement of Entertainment Luminaires Utilizing Solid State Light Sources
This standard is being opened for revision to specify that the Fidelity Index (Rf) rating as defined in IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, is used for reporting the production of white light of a reported CCT. This is a project of the Photometrics Working Group.

BSR E1.55, Standard for Theatrical Makeup Mirror Lighting
This standard is being opened for revision to add the Fidelity Index (Rf) rating per IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, as an acceptable rating to meet the requirements for color rendering. This is a project of the Photometrics Working Group.

Information about joining a working group is available at http://tsp.esta.org/tsp/working_groups/index.html. Documents in public review are posted at http://tsp.esta.org/tsp/documents/public_review_docs.php. There is an RSS feed on that page.

PERG Publishes More Lithium-Ion Battery Information

The regulations for shipping lithium-ion batteries are getting tighter. ESTA's Production Equipment Rental Group is helping to keep our industry aware of the changes by posting information at http://www.esta.org/PERG/Initiatives/lithium-ion_batteries.html. Check it out.

Call for TSP Members

ESTA's TSP works to maintain a balance of interest on the working groups to help ensure that the standards developed are for the benefit of everyone: the people who make equipment, the people who sell or rent it, the people who specify it, and the people who use it, and also workers and the people who plan the work or supervise it. To do this, periodically the TSP issues a call for new members in particular interest categories. At this time, the following working groups are looking for voting members in the noted interest categories to help balance the interests in the working group.

- Control Protocols: custom-market producers, general interest
- Electrical Power: designers particularly, but also all other categories except users
- Floors: dealer/rental companies, general interest
- Fog and Smoke: dealer/rental companies & designers particularly, and all other categories except users
- Photometrics: dealer/rental companies, users
- Rigging: general interest
- Stage Lifts: users, mass-market producers

Voters in the Technical Standards Program are required to attend meetings and to vote on letter ballots. Membership in ESTA or any other organization is not a requirement for participation in ESTA's Technical Standards Program, but there is a $100 a year per person participation fee—a flat rate, regardless of voting status or the number of working groups a person joins. The fee is levied to help defray the costs of running the TSP, which has always run a deficit. More information about becoming involved in the Technical Standards Program and a link to an application form is available at http://tsp.esta.org/tsp/working_groups/index.html.

US Energy Department Announces $3 Million for Industry HPC Access

To tackle major manufacturing challenges, the Energy Department on March 17 announced up to $3 million in available funding for manufacturers to use high-performance computing (HPC) resources at the Energy Department's national laboratories. The High Performance Computing for Manufacturing (HPC4Mfg) program leverages supercomputers at national labs to develop advanced clean energy technologies and energy-efficient solutions that improve our nation’s economic competitiveness in manufacturing.

The HPC4Mfg program provides HPC expertise and resources to the manufacturing sector to lower the risk of HPC adoption and broaden its use to support advanced clean energy manufacturing. The Energy Department plans to select eight to 10 projects for this second round of funding and seeks qualified industry partners to participate in short-term, collaborative projects. Selected projects will receive up to $300,000 to support access to supercomputers and experts at the partnering national labs, which include Lawrence Livermore, Lawrence Berkeley, and Oak Ridge national laboratories. Applications are due by April 21.

For more information, see the Energy Department news release and the HPC4Mfg application website at http://estalink.us/lyjz7 and https://hpc4mfg.llnl.gov/proposal-call.php respectively.

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.

Egypt Notification: EGY/133

Date issued: 9 March 2016
Agency responsible: Egyptian Organization for Standardization and Quality Control (EOS)
Products covered: LED lamps (bulbs)
Title: Ministerial Decree no. 692/2015 mandating the Egyptian Standards ES 7773/2014 and 7774/2014
Description of content: The Ministerial Decree mandates that the producers and importers must comply with ES 7773/2014 and ES 7774/2014. Producers and importers are given a transitional period of six months.
These standards applies to: (Bulbs) LED lamps

1. ES 7773/2014 applies to Self-ballasted LED lamps for general lighting services with supply voltages > 50 V – Performance requirements.
2. ES 7774/2014 applies to Self-ballasted LED-lamps for general lighting services by voltages > 50 V – Safety specifications

These standards comply with IEC 62612 and IEC 62560.
Objective and rationale: Safety requirements
Relevant documents: · Ministerial Decree No. 692/2015 · IEC 62612 · IEC 62560
Proposed date of adoption: 15 September 2015 (last year!)
Proposed date of entry into force: 6 November 2015
Final date for comments: 8 May 2016
Full text was not available to TSP staff at the time of publication, but was requested.

Israel Notification: ISR/885

Date issued: 14 March 2016
Agency responsible: Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)
Products covered: Lighting chains (HS 8512, 8513, 8539, 940510)
Title: SI 20 part 2.2 - Luminaires: Particular requirements - Lighting chains
Description of content: First amendment to the Mandatory Standard SI 20 part 2.20 dealing with lighting chains. This amendment changes paragraph 20.11.3 dealing with the external and internal wiring of lighting chains for outdoor use and exempts lighting chains for outdoor use with a car lighter socket connector and that is supplied with voltage up to 24v, from protection against water.
Objective and rationale: Lowering of trade barriers
Relevant documents: Israel Mandatory Standard SI 20 part 2.20 (March 2013) · International Standard IEC 60598-2-20 – Edition 3.0: 2010-02
Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 5/13/2016
Full text (Hebrew): https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR885(hebrew).pdf

Thailand Notification: THA/476

Date issued: 14 March 2016
Agency responsible: Thai Industrial Standards Institute (TISI)
Products covered: Tungsten filament lamps (HS 853931, 854370, 854089)
Title: Draft Thai Industrial Standard for Tungsten Filament Lamps for Domestics and Similar Lighting Purpose Part 1 Safety Specification (TIS 4 Part 1 - 25xx)
Description of content: The Thai Industrial Standards Institute (TISI) has proposed to withdraw TIS 4 Part 1 – 2529(1986) Incandescent lamps, and replace it with TIS 4 Part 1 – 25xx Tungsten filament lamps for

domestics and similar lighting purpose Part 1 safety specification as a mandatory standard. This draft standard specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- rated wattage up to and including 200 W
- rated voltage of 50 V to 250 V inclusive;
- bulbs of the A, B, C, G, M, P, PS, PAR or R shapes, or other bulb shapes where the lamps are intended to serve the same purpose as lamps with the foregoing bulb shapes
- bulbs with all kinds of finishes
- caps B15d, B22d, E12, E14, E17, E27 or E27/51×39

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.
Objective and rationale: Safety and consumer protection
Relevant documents: IEC 60432-1 Ed. 2.2 (2012-02) Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes
Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 13 May 2016
Full text (Thai): https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA476(thai).pdf

Thailand Notification: THA/475

Date issued: 14 March 2016
Agency responsible: Thai Industrial Standards Institute (TISI)
Products covered: Cord extension sets (HS 8536)
Title: Thai Industrial Standard for Plugs and Socket-Outlets for Household and Similar Purposes: Cord Extension Sets (TIS 2432-2555 (2012))
Description of content: The Thai Industrial Standards Institute (TISI) has proposed to enforce TIS 2432-2555 (2012) Plugs and socket-outlets for household and similar purposes: cord extension sets as a mandatory standard. This standard applies to cord extension sets, rewirable and non rewirable, with a rated voltage greater than 50 V but not exceeding 440 V and a rated current not exceeding 16 A, intended for household and similar purposes, either indoors or outdoors. It also applies to cord extension sets which are intended to be used in a cable reel. This standard does not apply to cord extension sets with means for reeling.
Objective and rationale: Safety and consumer protection
Relevant documents: · IEC 60884-2-7 (2011-02) Plugs and socket-outlets for household and similar purposes – Part 2-7: Particular requirements for cord extension sets · IEC 60934: 2007-01 Circuit-breakers for equipment (CBE) · SABS 1661: 2002 Safety of cord sets and cord extension sets · AS/NZS 3100: 2002 Approval and test specification – General requirements for electrical equipment · AS/NZS 3105: 2002 Approval and test specification – Electrical portable outlet devices · TIS 166-2549(2006) Plugs and socket-outlets for household and similar purposes: plugs and socket-outlets with rated voltage not exceeding 250 V · TIS 2162-2549(2006) Plugs and socket – outlets for household and similar purposes : general requirements
Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 13 May 2016
Full text (Thai): https://tsapps.nist.gov/notifyus/docs/wto_country/THA/full_text/pdf/THA475(thai).pdf

India Notification: IND/54

Date issued: 16 March 2016
Agency Responsible: Ministry of Commerce and Industry, Department of Industrial Policy & Promotion)
Products covered: Electrical capacitors/A.C. motor capacitors/Power capacitors of self healing type for AC power systems having a rated voltage up to 650V/Shunt capacitors of non-self healing type for AC power systems having a rated voltage up to and including 650V
Title: Electrical Capacitors (Quality Control) Order, 2015
Description of content: The Electrical Capacitors (Quality Control) Order, 2015
Objective and rationale: 1. Higher level of quality, reliability and consistency 2. Lower failures and reduction in accidents 3. Consumer safety
Relevant documents: To be published in the Gazette of India (available in English and Hindi)

Proposed date of adoption: Not given by country
Proposed date of entry into force: Not given by country
Final date for comments: 15 May 2016
Full text was not available to TSP staff at the time of publication, but was requested.

United States of America Notification: USA/1085

Date issued: 23 March 2016
Agency Responsible: Office of Energy Efficiency and Renewable Energy (OEERE)
Products covered: General service lamps- Lamps (HS 851310)
Title: Energy Conservation Program: Test Procedures for Certain Categories of General Service Lamps
Description of content: The U.S. Department of Energy (DOE) proposes to establish test procedures for certain categories of general service lamps (GSLs) to support the ongoing energy conservation standards rulemaking. Specifically, this rulemaking proposes new test procedures for determining the initial lumen output, input power, lamp efficacy, power factor, and standby mode power of GSLs that are not integrated light emitting diode (LED) lamps, compact florescent lamps (CFLs), or general service incandescent lamps (GSILs). DOE is also proposing clarifying references to the existing lamp test procedures and sampling plans for determining the represented values of integrated LED lamps, CFLs, and GSILs.
Objective and rationale: Protection of the environment
Relevant documents: 81 Federal Register (FR) 14631, 17 March 2016; Title 10 Code of Federal Regulations (CFR) Parts 429 & 430. 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: 18 April 2016
Full text: https://www.gpo.gov/fdsys/pkg/FR-2016-03-17/pdf/2016-04551.pdf

United States of America Notification USA/874/USA (USA/874 , Add.1 , Add.2 , Add.3 , Add.4 ,)

Date issued: 23 March 2016
Title: Energy Conservation Program: Energy Conservation Standards for General Service Lamps
Agency: Office of Energy Efficiency and Renewable Energy, Department of Energy
Action: Notice of proposed rulemaking (NOPR) and announcement of public meeting
Summary: The Energy Policy and Conservation Act of 1975 (EPCA), as amended, prescribes energy conservation standards for various consumer products and certain commercial and industrial equipment, including general service lamps (GSLs). EPCA also requires the U.S. Department of Energy (DOE) to periodically determine whether more-stringent, amended standards would be technologically feasible and economically justified, and would save a significant amount of energy. In this notice, DOE proposes amended energy conservation standards for GSLs, and also announces a public meeting to receive comment on these proposed standards and associated analyses and results. Meeting: DOE will hold a public meeting on Wednesday, 20 April 2016, from 9:00 a.m. to 4:00 p.m., in Washington, DC. The meeting will also be broadcast as a webinar. See section VIII, "Public Participation," for webinar registration information, participant instructions, and information about the capabilities available to webinar participants. Comments: DOE will accept comments, data, and information regarding this NOPR before and after the public meeting, but no later than 16 May 2016. See section VIII, "Public Participation," for details. Comments regarding the likely competitive impact of the proposed standard should be sent to the Department of Justice contact listed in the ADDRESSES section before 18 April 2016.
Full text: https://www.gpo.gov/fdsys/pkg/FR-2016-03-17/pdf/2016-04813.pdf

United States of America Notification: USA/1094

Date issued: 29 March 2016
Agency Responsible: Federal Communications Commission (FCC)
Products covered: White space devices
Title: Unlicensed White Space Devices
Description of content: In this document, the Federal Communications Commission (Commission) proposes to amend its rules to improve the quality of the geographic location and other data submitted for fixed white space devices operating on unused frequencies in the TV Bands and, in the future, the 600 MHz Band for wireless services. The proposed rules would eliminate the professional installer option for fixed white space devices and require that each fixed white space device incorporate a geo-location capability to determine its

location, and would provide options to accommodate fixed white space device installations in locations where an internal geo-location capability is not able to provide this information. These proposals will improve the accuracy and reliability of the fixed white space device data recorded in the white space databases and assure that the potential to cause interference to protected services is minimized.
Objective and rationale: Prevention of deceptive practices and consumer protection
Relevant documents: 81 Federal Register (FR) 15210, 22 March 2016; Title 47 Code of Federal Regulations (CFR) Part 15. 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: 6 May 2016
Full text: https://www.gpo.gov/fdsys/pkg/FR-2016-03-22/pdf/2016-05764.pdf

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ANSI Public Review Announcements

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

Due 25 April 2016

BSR/ISO/MSE 17747-200x, Determination of energy savings in organizations (identical national adoption of ISO 17747:2015)
This standard provides methods for the determination of energy savings in organizations. This standard can be utilized by organizations with or without a formal energy management system. The methods covered in the standard are based on changes in the amount of energy consumed or the combined energy savings from the energy performance improvement actions (EPIAs) measured within the organizational boundary.
Single copy price: $NA
Order from and send comments to: Moon Kim, Moon.Kim@gtri.gatech.edu

BSR C78.62035-201X, Electric Lamps - Discharge Lamps (Excluding Fluorescent Lamps) - Safety Specifications (revision and redesignation of ANSI/IEC C78.62035-2004 (R2009))
This standard specifies the safety requirements for discharge lamps (excluding fluorescent lamps) for general lighting purposes.
Single copy price: $50.00
Order from and send comments to: Michael Erbesfeld, Michael.Erbesfeld@nema.org

BSR/PEARL EERS-2916-201x, Electrical Equipment Reconditioning Standard (new standard)
The PEARL Reconditioning Standards pertain to the reconditioning of electrical distribution equipment and accessories. The term, reconditioning, is defined as "the process of returning electrical equipment to safe operating condition as recommended by the manufacturer's instructions or industrial standards, and tested by recognized industrial test standards."
Single copy price: $375.00
Order from and send comments to: David Stumph, DStumph@kellencompany.com

Due 2 May 2016

BSR/AWS B2.2/B2.2M-201X, Specification for Brazing Procedure and Performance Qualification (revision of ANSI/AWS B2.2/B2.2M-2009)
This specification provides the requirements for qualification of brazing procedure specifications, brazers, and brazing operators for manual, mechanized, and automatic brazing. The brazing processes included are torch brazing, furnace brazing, diffusion brazing, resistance brazing, dip brazing, infrared brazing, and induction brazing. Base metals, brazing filler metals, brazing fluxes, brazing atmospheres, and brazing joint clearances are also included.
Single copy price: $40.00
Order from: jrosario@aws.orr
Send comments to: Andrew Davis, adavis@aws.org

Due 9 May 2016

BSR X9.119-1-201x, Retail Financial Services - Requirements for Protection of Sensitive Payment Card Data - Part 1: Using Encryption Methods (revision of ANSI X9.119-1-2013)
Theft of sensitive card data during a retail payment transaction is increasingly becoming a major source of financial fraud. Besides an optional encrypted PIN, this data includes magnetic stripe track 2 data: PAN, expiration date, card verification value, and issuer private data. While thefts of this data at all segments of the transaction processing system have been reported, the most vulnerable segments are between the point of transaction device capturing the magnetic stripe data and the processing systems at the acquirer. This document would standardize the security requirements and implementation for a method for protecting this sensitive card data over these segments. Several implementations exist to address this situation. This document would provide guidance for evaluating these implementations.
Single copy price: $100.00
Order from and send comments to: Janet Busch, janet.busch@x9.org

BSR/ASHRAE Standard 209P-201x, Energy Simulation Aided Design for Buildings except Low-Rise Residential Buildings (new standard)
The purpose of ASHRAE Standard 209P is to define minimum requirements for providing energy design assistance using building energy simulation and analysis.
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/AWEA 61400-12-1-201x, Power performance measurements of electricity producing wind turbines (identical national adoption of IEC 61400 -12-1 (2005))
This standard is the expedited national adoption of the IEC 61400-12-1 (2005)
Single copy price: Free
Order from and send comments to: Michele Mihelic, mmihelic@awea.org

BSR/AWEA SWT-1-201x, AWEA Small Wind Turbine Standard (new standard)
The standard will provide standardized performance ratings and ensure that small wind turbines that meet the standard have been engineered to meet carefully considered requirements for safety and operation. The standard will reference and specify modifications to IEC 61400-2, IEC 61400-12-1, and IEC 61400-11. The standard will apply to electricity-producing wind-turbine systems having a rotor swept area of 200 m^2 or less.
Single copy price: Free
Order from and send comments to: Michele Mihelic, mmihelic@awea.org

BSR/AWS C4.2/C4.2M-201x, Recommended Practices for Safe Oxyfuel Gas Cutting Torch Operation (revision of ANSI/AWS C4.2/C4.2M-2009)
This document contains the procedures to be used in conjunction with oxyfuel gas cutting equipment and the latest safety requirements.
Single copy price: $38.00
Order from: Andre Naumann, anaumann@aws.org
Send comments to: adavis@aws.org

BSR/AWS C4.3/C4.3M-201x, Recommended Practices for Safe Oxyfuel Gas Heating Torch Operation (revision of ANSI/AWS C4.3/C4.3M-2007)
This document contains the procedures to be used in conjunction with oxyfuel gas heating equipment and the latest safety requirements.
Single copy price: $32.00
Order from: Andre Naumann, anaumann@aws.org
Send comments to: adavis@aws.org

BSI Public Review Announcements

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

Due 18 May 2016

PAS 3001:2016 Traveling for work –Responsibilities of an organization for occupational health, safety and security – Code of practice
This PAS gives recommendations for the responsibility of an organization with regards to the occupational health, safety and security of individuals traveling for work. It covers a good practice approach to the development, implementation and evaluation of:

- policy;
- threat and hazard identification;
- risk assessment;
- prevention strategies;
- arrangements for mitigation and response;
- communications and accountability arrangements.

The PAS can be used by any organization of any size and sector that designates travellers for work-related travel or assignment (including workers, volunteers or contractors, sub-contractors and students).
NOTE This PAS can act as a stand-alone document or be integrated into an existing health and safety management system

Due 22 May 2016

BS 9999 Fire safety in the design, management and use of buildings – Code of practice
This British Standard gives recommendations and guidance on the design, management and use of buildings to achieve reasonable standards of fire safety for all people in and around buildings.

Due 31 May 2016

EN 14496 Gypsum based adhesives for thermal/acoustic insulation composite panels and gypsum boards. Definitions, requirements and test methods
This European standard specifies the characteristics and performances of gypsum based adhesives which are composed of gypsum plasters defined in EN 13279-1 and of additives. These adhesives are used for fixing to walls and partitions, gypsum board thermal/acoustic insulation composite panels according to EN 13950, gypsum plasterboard linings according to EN 520, gypsum boards with mat reinforcement according to EN 15283-1, gypsum fibre boards according to EN 15283-2 and other suitable products as reprocessed boards according to EN 14190 and cornices according to EN 14209. They assist in the construction of systems which provide thermal and acoustic performance.

EN 14209 Preformed plasterboard cornices — Definitions, requirements and test methods
This European standard specifies the characteristics and performance of preformed plasterboard cornices intended to be used in building construction works either as part of the original specification or subsequently for improved decorative enrichment of the wall/ceiling angle in rooms.

CSA Public Review Announcements

The CSA Group has announced draft changes to the Canadian Electrical Code documents that might be of interest to *Standards Watch* readers. To participate in the public reviews please visit: http://publicreview.csa.ca/.
One proposal is about single-conductor portable power feeder cables!
CSA public reviews

Due 12 April 2016

C22.2 No. 61347-2-13 LAMP CONTROLGEAR Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules (New Edition)

This part of IEC 61347 specifies particular safety requirements for electronic controlgear for use on d.c. or a.c. supplies up to 1 000 V (a.c. at 50 Hz or 60 Hz) and at an output frequency which can deviate from the supply frequency, associated with LED modules.

Due 18 April 2016

Z107.6 Audiometric Testing for use in Hearing Loss Prevention Programs (New Edition)
This standard specifies requirements for equipment and procedures for audiometric testing in the workplace. It is applicable to organizations, service providers, and all institutions and all those involved in the provision of audiometric testing to individuals who are exposed to hazardous noise.

Due 8 May 2016

B352.0 Rollover protective structures (ROPS), falling object protective structures (FOPS), operator protective structures (OPS), and tip-over protective structures (TOPS) for mobile machinery — General Canadian requirements (New Edition)
This Standard provides requirements for materials, reduced temperature performance testing, and labelling for roll-over protective structures (ROPS), falling object protective structures (FOPS), operator protective structures (OPS), and tip-over protective structures (TOPS). It also stipulates requirements for seat belts to be used in conjunction with these systems.

Due 9 May 2016

C22.2 No. 75 Thermoplastic insulated wires and cables (New Edition)
This Standard specifies the requirements for 600 V and 1000 V, single-conductor, thermoplastic-insulated wires and cables, for use as follows:

a) In Canada, in accordance with CSA C22.1, Canadian Electrical Code (CEC), Part I;
b) In Mexico, in accordance with NOM-001-SEDE, Standard for Electrical Installations; and
c) In the United States, in accordance with ANSI/NFPA 70, National Electrical Code (NEC).

C22.2 No. 96.1 Mine power feeder cables (New Edition)
This Standard specifies construction and testing requirements for unarmoured mine power feeder cables normally used for power distribution in stationary or semi-stationary applications covered by CSA M421 and the Canadian Electrical Code, Part I.

Due 15 May 2016

Z150 Safety code on mobile cranes (New Edition)
This Standard describes the design, construction, load rating, installation, erection, inspection, maintenance, repair, modification, test, and operation of lattice and telescopic boom mobile cranes.

Due 16 May 2016

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4074 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4074, GFCI protection for receptacles installed in damp locations.
Amendments to Subrule 26-700(11) as follows:

(11) Receptacles having CSA configuration 5-15R or 5-20R installed in damp locations or installed within 1.5 m of sinks (wash basins complete with drainpipe), bathtubs, or shower stalls shall be protected by a ground fault circuit interrupter of the Class A type, except where the receptacle is:
  (a) intended for an indoor stationary appliance designated for the location; and
  (b) located behind the stationary appliance such that it is inaccessible for use with general-purpose portable appliances.

C22.1, Amendment - Subject No. 4073 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4073, Increase to assumed surface temperature for heat-producing equipment without maximum surface temperature marking
A request to revise Subrule 18-052(s) was received as follows:

(3) If no maximum surface temperature marking is shown on equipment of the heat-producing type for use in explosive gas atmospheres, the equipment shall be considered to have a maximum surface temperature of ~~100~~ 230 ºC or less for the purpose of compliance with rule 18-054.

C22.1, Amendment, subject No 4070 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4070, Location of panelboards where available fault current exceeds 10,000 Amps (Amendment)
26-402 Location of panelboards (see Appendices G and I)

(1) Panelboards shall not be located in coal bins, clothes closets, bathrooms, stairways, high ambient rooms, dangerous or hazardous locations, nor in any similar undesirable places.

(2) Panelboards in dwelling units shall be installed as high as possible, with no overcurrent device operating handle positioned more than 1.7 m above the finished floor level.

(3) Where the available fault current is in excess of 10,000 amps, or the voltage is in excess of 120 volts to ground, panelboards shall be installed in separate electrical rooms which have a fire resistance rating of no less than 0.75 hr.

Due 17 May 2016

Z94.3-15 Eye and Face Protectors (Amendment)
The CSA Technical Committee on Eye and Face protectors is proposing amendment to the Eye and face Protectors CSA Z94.3, with the following purposes in mind:

a) to reduce the number of testing measurements of luminance transmittance for automatic-darkening welding filters; and

b) clarify some minor items noticed after the standard was published.

Due 21 May 2016

C22.2 No 38 Thermoset-insulated wires and cables
This Standard specifies the requirements for single-conductor and multiple-conductor thermoset-insulated wires and cables rated 600 V, 1000 V, 2000 V, and 5000 V, for use in accordance with the rules of the Canadian Electrical Code (CEC), Part I, CSA C22.1, in Canada, Standard for Electrical Installations, NOM-001-SEDE, in Mexico, and the National Electrical Code (NEC), NFPA-70, in the United States of America.

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 C84.1-201X, Standard for Electric Power Systems and Equipment - Voltage Ratings (60 Hertz)
(revision of ANSI C84.1-2011)
This standard establishes nominal voltage ratings and operating tolerances for 60-hertz electric power systems above 100 volts. It also makes recommendations to other standardizing groups with respect to voltage ratings for equipment used on power systems and for utilization devices connected to such systems. This standard includes preferred voltage ratings up to and including 1200-kV maximum system voltage, as defined in the standard. In defining maximum system voltage, voltage transients and temporary overvoltages caused by abnormal system conditions such as faults, load rejection, and the like are excluded.
Contact: Khaled Masri, khaled.masri@nema.org

BSR/ASME Y14.100-201x, Engineering Drawing Practices (revision of ANSI/ASME Y14.100-2004 (R2013))
This standard establishes the essential requirements and reference documents applicable to the preparation and revision of manual or computer-generated engineering drawings and associated lists, unless tailored by a specialty standard.
Contact: Mayra Santiago, ansibox@asme.org

BSR/ASME Y14.46-20XX , Product Definition Practices for Additive Manufacturing (new standard)
This standard covers definitions of terms and features unique to additive manufacturing technologies with recommendations for their uniform specification on engineering drawings, in Model-Based Definition (MBD) models, and related documents. Unless otherwise specified, any reference to features, parts, or processes shall be interpreted as applying to additively manufactured parts. Additively manufactured parts are delineated as

"parts" throughout the standard. The standard extends to capturing relevant AM detail from design, manufacturing, and quality engineering.
Contact: Mayra Santiago, ansibox@asme.org

BSR/ASTM E105-201x, Practice for Probability Sampling of Materials (revision of ANSI/ASTM E105-2010)
http://www.astm.org/search/fullsite-search.html?query=E0105&resStart=0&resLength=10&
Project Need: This practice is primarily a statement of principles for the guidance of ASTM technical committees and others in the preparation of a sampling plan for a specific material.
Contact: Corice Leonard, accreditation@astm.org

BSR/ASTM E178-201x, Practice for Dealing with Outlying Observations (revision of ANSI/ASTM E178-2008)
http://www.astm.org/search/fullsite-search.html?query=E0178&resStart=0&resLength=10&
Project Need: This practice covers outlying observations in samples and how to test the statistical significance of them. An outlying observation, or "outlier," is one that appears to deviate markedly from other members of the sample in which it occurs. In this connection, the following two alternatives are of interest.
Contact: Corice Leonard, accreditation@astm.org

BSR/IICRC S540-201x, Standard for Trauma and Crime Scene Hazard Clean Up (new standard)
This standard will include principles, biological and other potentially infectious materials, health effects, building and material sciences, equipment, tools and materials, safety and health, administrative procedures, inspection, structural demolition and clean up, contents removal or cleanup, and transport and disposal of contaminated materials.
Contact: Mili Washington, mili@iicrc.org

BSR/INCITS/ISO/IEC 17788:2014, Information technology – Cloud computing - Overview and vocabulary (identical national adoption of ISO/IEC 17788:2014)
Provides an overview of cloud computing along with a set of terms and definitions. It is a terminology foundation for cloud computing standards and is applicable to all types of organizations (e.g., commercial enterprises, government agencies, not-for-profit organizations).
Contact: Barbara Bennett, comments@itic.org

BSR/INCITS/ISO/IEC 17789:2014, Information technology – Cloud computing - Reference architecture (identical national adoption of ISO/IEC 17789:2014)
Specifies the cloud computing reference architecture (CCRA). The reference architecture includes the cloud computing roles, cloud computing activities, and the cloud computing functional components and their relationships.
Contact: Barbara Bennett, comments@itic.org

BSR/UL 3030-201X, Standard for Safety for Unmanned Aerial Vehicles (new standard)
This standard covers unmanned aerial vehicles (UAVs) intended for use in commercial and industrial applications by trained and qualified personnel, including aerial surveillance, aerial surveying, law enforcement, search and rescue, scientific research, cargo transport, and agricultural crop dusting among others. The standard covers the electrical system, which includes motors, electrical control circuits, batteries, and the like as well as the battery charging system. Functional safety of the guidance system is addressed with respect to correct response to user input under normal flight conditions.
Contact: Patricia Sena, patricia.a.sena@ul.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.

ANSI/ASHRAE 135aj-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012): 1 March 2016

ANSI/ASHRAE 135aq-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012): 1 March 2016

ANSI/ASHRAE 135bf-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012): 1 March 2016

ANSI/ASHRAE 135bg-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012): 1 March 2016

ANSI/ASHRAE 135bh-2016, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2012): 1 March 2016

ANSI/FM 4477-2016, Vegetative Roof Systems (new standard): 9 March 2016

ANSI/SAAMI Z299.5-2016, Voluntary Industry Performance Standards Criteria for Evaluation of New Firearms Designs Under Conditions of Abusive Mishandling for the Use of Commercial Manufacturers (new standard): 14 March 2016

Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) and 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. The sort order is by deadline month and then by designation. The prices, when shown, are for purchases through ANSI; prices elsewhere may differ.

Due in April 2016

ISO/DIS 12992, Plastics - Vertical flame spread determination for film and sheet – 17 April 2016, $58.00

ISO/DIS 17640, Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment – 18 April 2016, $98.00

ISO/DIS 19824, Traditional chinese medicine - Schisandra chinensis (Turcz.) baill seeds and seedlings – 17 April 2016, $58.00

ISO/DIS 20333, Traditional chinese medicine - Coding rules for chinese medicines in supply chain management – 8 April 2016, FREE

ISO/DIS 20408, Traditional chinese medicine-panax notoginseng seeds and seedlings – 16 April 2016, $58.00

ISO/DIS 8375, Timber structures - Glued laminated timber – Test methods for determination of physical and mechanical properties – 16 April 2016, $82.00

ISO/DIS 9241-333, Ergonomics of human-system interaction – Part 333: Stereoscopic displays using glasses – 18 April 2016, $102.00

ISO/IEC DIS 15938-14, Information technology - Multimedia content description interface - Part 14: Reference software, conformance and usage guidelines for compact descriptors for visual search - 8 April 2016, FREE

Due in May 2016

23/742/DTR, IEC/TR 61916 Ed.4: Electrical accessories - Harmonization of general rules, 13 May 2016

34A/1895/CD, IEC 62031 Ed.2: LED modules for general lighting - Safety specifications, 13 May 2016

44/758/DTS, IEC/TS 62046 Ed 3: Safety of machinery - Application of protective equipment to detect the presence of persons, 27 May 2016

48D/609/NP, IEC 62610-2/Ed1: Mechanical structures for electrical and electronic equipment - Thermal management for cabinets in accordance with IEC 60297 and IEC 60917 series - Part 2: Method for the determination of forced air cooling structure, 27 May 2016

AC(2016)/6/AC, Draft IEC Guide 116 Edition 2, Guidelines for safety related risk assessment and risk reduction for low voltage equipment, 27 May 2016

ISO/IEC DIS 30122-2, Information technology - User interfaces – Voice commands - Part 2: Constructing and testing – 28 May 2016, FREE

Due in June 2016

101/506/CD, IEC/TR 61340-5-2 Ed.2: Electrostatics - Part 5-2: Protection of electronic devices from electrostatic phenomena – User guide, 10 June 2016

44/759/CD, IEC 61496-3 Ed. 3.0: Safety of machinery – Electrosensitive protective equipment - Part 3: Particular requirements for Active Opto-electronic Protective Devices responsive to Diffuse Reflection (AOPDDR), 24 June 2016

ISO/DIS 11554, Optics and photonics - Lasers and laser-related equipment - Test methods for laser beam power, energy and temporal characteristics – 19 June 2016, $77.00

ISO/DIS 18662-1, Traditional Chinese medicine - Vocabulary - Part 1: Chinese Materia Medica – 4 June 2016, $175.00

ISO/DIS 19611, Traditional Chinese medicine - Air exhaust cupping apparatus for medical use – 11 June 2016, $53.00

ISO/DIS 19929, Plastics - Determination of average molecular mass and mixture ratio of poly (ethylene glycol) and its derivatives by MALDI-TOF-MS – 9 June 2016, FREE

ISO/DIS 2408, Steel wire ropes for general purposes – Minimum requirements – 16 June 2016, $40.00

ISO/DIS 3108, Steel wire ropes - Test method - Determination of measured breaking force – 16 June 2016, $40.00

ISO/DIS 9241-125, Ergonomics of human-system interaction – Part 125: Guidance on visual presentation of information - 12 June 2016, FREE

ISO/IEC DIS 20741, Systems and Software Engineering – Guideline for the evaluation and selection of software engineering tools – 23 June 2016, $102.00

Due in July 2016

ISO/IEC DGuide 46, Comparative testing of consumer products and related services - General principles – 17 July 2016, $51.00

Recently Published IEC & ISO Standards and Technical Reports

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.

IEC 61882 Ed. 2.0 b:2016, Hazard and operability studies (HAZOP studies) - Application guide, $339.00

ISO 12612:2016, Cinematography - Interchange of post-production sprocket-based materials, $88.00

ISO 13491-1:2016, Financial services - Secure cryptographic devices (retail) - Part 1: Concepts, requirements and evaluation methods, $173.00

ISO 13491-2:2016, Financial services - Secure cryptographic devices (retail) - Part 2: Security compliance checklists for devices used in financial transactions, $200.00

ISO 14004:2016, Environmental management systems – General guidelines on implementation, $240.00

ISO 17662:2016, Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities, $173.00

ISO 18158:2016, Workplace air - Terminology, $51.00

ISO 24490:2016, Cryogenic vessels - Pumps for cryogenic service, $123.00

ISO 27500:2016, The human-centred organization - Rationale and general principles, $149.00

ISO 668/Amd1:2016, Series 1 freight containers – Classification, dimensions and ratings - Amendment 1, $22.00

ISO 668/Amd2:2016, Series 1 freight containers – Classification, dimensions and ratings - Amendment 2, $22.00

ISO 8611-2/Amd1:2016, Pallets for materials handling - Flat pallets - Part 2: Performance requirements and selection of tests - Amendment 1, $22.00

ISO/IEC Guide 17:2016, Guide for writing standards taking into account the needs of micro, small and medium-sized enterprises, $88.00

ISO/IEC TR 10182:2016, Information technology – Programming languages, their environments and system software interfaces - Guidelines for language bindings, $200.00

ISO/IEC TR 19566-1:2016, Information technology - JPEG Systems - Part 1: Packaging of information using codestreams and file formats, $149.00

ISO/TR 25901-1:2016, Welding and allied processes - Vocabulary - Part 1: General terms, $51.00

ISO/TR 25901-3:2016, Welding and allied processes - Vocabulary - Part 3: Welding processes, $51.00

ISO/TR 25901-4:2016, Welding and allied processes - Vocabulary - Part 4: Arc welding, $51.00

TSP Meeting Schedule

The chronological TSP meeting schedule is posted at http://www.esta.org/ESTA/meetings.php. The July meetings at the Roosevelt Hotel in New York City are in conjunction with the NATEAC conference. Our schedule runs immediately prior to the conference; you may reserve a room for the negotiated rate of $219 per night, subject to availability, from 13 July through 21 July. The reservation deadline is 27 June and will not be extended. Rooms pre and post NATEAC are limited; do not hesitate if you intend to stay at the Roosevelt. E-mail reservation requests to reservations@rooseveltnyc.com or call the Roosevelt reservations department at +1-212-885-6000 or +1-888-833-3969 (toll free). Provide your dates and use group code: **CNAJ16**.

(Alphabetical July meeting schedule. All meetings are at the Roosevelt Hotel unless otherwise listed.)

At the Roosevelt Hotel in New York City:		
Control Protocols Working Group (CPWG)	09:00 – 13:00	Thursday 14 July 2016
CPWG Automation Study Group	14:00 – 18:00	Friday 15 July 2016
CPWG BSR E1.20, RDM TG	09:00 – 13:00	Friday 15 July 2016
CPWG BSR E1.33, RDMnet TG	14:00 – 18:00	Thursday 14 July 2016
CPWG BSR E1.37-4, Firmware TG	13:00 – 16:00	Saturday 16 July 2016
CPWG BSR E1.37-5, General PIDs TG	09:00 – noon	Saturday 16 July 2016
Fog & Smoke Working Group	14:00 – 16:00	Friday 15 July 2016
Photometrics Working Group	16:00 – 18:00	Friday 15 July 2016
Rigging Working Group (RWG)	09:00 – 13:00	Friday 15 July 2016
RWG BSR E1.4-1, Manual Counterweight TG	14:00 – 16:00	Saturday 16 July 2016
RWG BSR E1.6-1, Powered Hoist TG (This meeting is at the ESTA office: 630 Ninth Ave., Suite 609)	14:00 – 17:00	Friday 15 July 2016
RWG BSR E1.50, Video Systems TG	14:00 – 18:00	Thursday 14 July 2016
RWG BSR E1.56, Rigging Points TG	09:00 – 13:00	Thursday 14 July 2016
Stage Lifts Working Group	09:00 – 13:00	Saturday 16 July 2016
Technical Standards Council	14:00 – 18:00	Thursday, 14 July 2016

Note that there will be no coffee or other beverages offered in the July meetings. The Roosevelt Hotel charges dinner-prices for beverages at meetings, thus putting providing refreshments out of budget. There are many coffee and snack places within the hotel, next door, or across the street. Take your pick and bring your own.

ESTA Standards Watch

is distributed as a benefit to ESTA members and as a communications medium for ESTA's Technical Standards Program.

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As of 15 April 2013, all of the standards published by ESTA's Technical Standards Program are available to download, free of charge, at http://www.tsp.esta.org/freestandards, courtesy of a partnership between ESTA and ProSight Specialty Insurance.

Investors in Innovation

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