



Technical Standards Program

ESTA Standards Watch

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Table of Contents

Two New ESTA Standards Published, Two Drafts in Public Review.....	1
Call for Applications: ISO Is Seeking a New Secretary-General.....	2
Guidance and Required Inspections on UK Suspended Plaster Ceilings.....	3
WTO Technical Barrier to Trade Notifications.....	3
Canada Notification: CAN/493.....	3
Canada Notification: CAN/494.....	4
Canada Notification: CAN/495.....	4
Korea, Republic of Notification: KOR/662.....	4
ANSI Public Review Announcements.....	5
Due 4 September 2016.....	5
Due 19 September 2016.....	5
Due 12 September 2016.....	6
Due 27 September 2016.....	9
Due 4 October 2016.....	9
BSI Public Review Announcements.....	10
Due 20 September 2016.....	10
Due 29 September 2016.....	10
Due 30 September 2016.....	10
CSA Public Review Announcements.....	10
Due 27 August 2016.....	10
Due 2 October 2016.....	11
Due 8 October 2016.....	11
New ANS Projects.....	11
Final Actions on American National Standards.....	12
Draft IEC & ISO Standards.....	13
Recently Published IEC & ISO Standards.....	15
TSP Meeting Schedule.....	16
Investors in Innovation.....	17

Two New ESTA Standards Published, Two Drafts in Public Review

Two new ESTA standards were approved by ANSI and published in early August at tsp.esta.org/freestandards. These, and all of ESTA's American National Standards are free to download, courtesy of ProSight Specialty Insurance. ESTA's Technical Standards Program relies on donations from the entertainment industry, so, please, if you find value in the tools ESTA is offering at no cost, consider becoming an Investor in Innovation with a donation of any size at tsp.esta.org/invest. The two newly published standards are:

ANSI E1.42 – 2016, Entertainment Technology—Design, Installation, and Use of Orchestra Pit Lifts

This standard covers the design, construction, operation, inspection, testing, maintenance, alteration and repair of permanently installed orchestra pit lifts and their associated parts, rooms, spaces, enclosures and hoistways, where located in a theatre or a similar place of public entertainment. It is intended to address single platform low-speed orchestra pit lifts installed in performance venues.

ANSI E1.53 – 2016, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice

This standard covers specifications for the primary and secondary mounting devices for portable stage and studio luminaires and accessories. It also covers these mounting devices for special effects equipment (e.g. fog machines and bubble machines) that are often mounted along with lighting equipment. The document offers guidance on how to properly affix these mounting devices.

In addition to the new standards, two draft standards were recently posted for public comment at http://tsp.esta.org/tsp/documents/public_review_docs.php. Instructions on how to comment are available, along with the review forms and the draft standards. The public reviews are over at the end of the day on 26 September. Submit comments to standards@esta.org before 27 September 2016. Those draft standards are:

BSR E1.4-3 – 20xx, Entertainment Technology—Manually Operated Hoist Rigging Systems

This standard applies to permanently installed, human-powered manually operated hoists used as part of rigging systems for raising, lowering, and suspension of scenery, properties, lighting, and similar loads. This standard intends to establish requirements for the design, manufacture, installation, inspection, and maintenance of manual hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production.

BSR E1.47 – 20xx, Entertainment Technology—Recommended Guidelines for Entertainment Rigging System Inspections

These guidelines include recommended inspector qualifications and responsibilities, scope and frequency of inspections, content of the rigging inspection report, and related information concerning the inspection process. Consensus on this document has been achieved, but one change is needed to bring clause 5.1.6 into compliance with the ANSI requirements for commercial terms and conditions in American National Standards.

Call for Applications: ISO Is Seeking a New Secretary-General

The International Organization for Standardization is seeking applications for a new Secretary-General. This is a dual-role position: (1) as the Secretary-General of the organization and (2) as the Chief Executive Officer (CEO) of the Central Secretariat. Responsibilities across these two roles include:

- Supporting the ISO members managing the decentralized standards development activities performed by more than 3,000 ISO committees and working groups with the assistance of specific IT tools and e-services.
- Driving the implementation of a long term strategy, approved by the ISO General Assembly.
- The preparation and execution of yearly budgets and medium term financial orientations, approved by the ISO Council.
- Developing the Central Secretariat in line with the ISO Strategy and the ISO Council decisions.
- Managing the ISO Central Secretariat based in Geneva, which has a staff of 136 people of 19 different nationalities.

More information is available in the ISO notice at <http://estalink.us/o3qjz>.

Application and CV should be sent directly to Marianne Barge at Russell Reynolds (marianne.barge@russellreynolds.com) by 1 September 2016.

Guidance and Required Inspections on UK Suspended Plaster Ceilings

By 1 September 2016, all UK theatre owners should have had their suspended plaster ceilings inspected by a specialist to ensure that they are safe. Following a suspended plaster ceiling collapse at the Apollo Theatre in 2013, ABTT and HSE have co-written guidance and published it on the ABTT website at <http://www.abtt.org.uk/wpcontent/uploads/2015/03/ABTTGuidanceNote2019May2015.pdf>.

If you have not managed to get your ceiling inspected before this deadline you are advised to contact your licensing authority (normally the appropriate Local Authority) to discuss how you can demonstrate that the ceiling is safe for an audience to sit beneath.

The hazards from suspended plaster ceilings are not limited to theatres or places of entertainment but will be present in any building with this type of construction. Those responsible for premises with suspended plaster ceilings are strongly advised to read the ABTT guidance document.

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.

Canada Notification: CAN/493

Date issued: 27 July 2016

Agency Responsible: Department of Innovation, Sciences and Economic Development

National Inquiry Point: Foreign Affairs, Trade and Development Canada

Notified under Article: 2.9.2 , 5.6.2

Products covered: Radiocommunications

ICS Codes: 33.060

Title: Notice No. SMSE-011-16 ? Release of DES-LAB, REC-LAB, DES-CB

Description of content: Notice is hereby given that Innovation, Science and Economic Development Canada (ISED) is facilitating submission of applications through online services by releasing the following documents:

- DES-LAB, Issue 6, Procedure for Designation and Recognition of Canadian Testing Laboratories (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01750.html>), which specifies the procedure applicable to Canadian testing laboratories seeking recognition or designation to test telecommunications terminal equipment and radio apparatus;
- REC-LAB, Issue 5, Procedure for the Recognition of Designated Foreign Testing Laboratories (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf05259.html>), which describes the criteria and procedure used in Canada to recognize foreign testing laboratories that have been designated by a Mutual Recognition Agreement/Arrangement (MRA) partner to test the Canadian requirements for apparatus; and
- DES-CB, Issue 4, Procedure for the Designation of Canadian Certification Bodies (CB) (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf05615.html>), which specifies the procedure used in Canada to designate a Canadian entity as a certification body to certify products to the regulatory requirements of an MRA partner.

Objective and rationale: Enable online applications

Relevant documents: Canada Gazette, Part I, 9 July 2016 - <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-09/pdf/g1-15028.pdf>

Notice: <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-09/html/notice-avis-eng.php>

Proposed date of adoption: 30 June 2016

Proposed date of entry into force: 30 June 2016

Final date for comments: 7 October 2016

Full text, part 1: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN493\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN493[1](english).pdf)

Full text part 2: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN493\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN493[2](english).pdf)

Canada Notification: CAN/494**Date issued:** 27 July 2016**Agency Responsible:** Department of Innovation, Sciences and Economic Development**National Inquiry Point:** Foreign Affairs, Trade and Development Canada**Notified under Article:** 2.9.2 , 5.6.2**Products covered:** Radiocommunications**ICS Codes:** 33.060**Title:** Notice No. SMSE-013-16 ? Release of CB-01, CB-02**Description of content:** Notice is hereby given that Innovation, Science and Economic Development Canada (ISED) is facilitating submission of applications through online services by releasing the following documents:

- CB-01, Issue 5, Requirements for Certification Bodies (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf05612.html>), specifies the procedure for the recognition of Canadian and foreign certification bodies to certify radio apparatus according to ISED's regulations.

- CB-02, Issue 7, Recognition Criteria and Administrative and Operational Requirements Applicable to Certification Bodies (CB) for the Certification of Radio Apparatus (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf05613.html>), specifies the requirements applicable to the recognition of Canadian and foreign certification bodies (CBs) .

Objective and rationale: Enable online applications**Relevant documents:** Canada Gazette, Part I, 16 July 2016 - <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-16/pdf/g1-15029.pdf>**Notice:** <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-16/html/notice-avis-eng.php>**Proposed date of adoption:** 7 July 2016**Proposed date of entry into force:** 7 July 2016**Final date for comments:** 14 October 2016**Full text, part 1:** [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN494\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN494[1](english).pdf)**Full text, part 2:** [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN494\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN494[2](english).pdf)**Canada Notification: CAN/495****Date issued:** 27 July 2016**Agency Responsible:** Department of Innovation, Sciences and Economic Development**National Inquiry Point:** Foreign Affairs, Trade and Development Canada**Notified under Article:** 2.9.2 , 5.6.2**Products covered:** Radiocommunications**ICS Codes:** 33.060**Title:** Notice No. SMSE015-16 ? Release of ICES-003**Description of content:** Notice is hereby given by the Ministry of Innovation, Science and Economic Development that the following gazette has been published on its Web site (<http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/home?OpenDocument>):

- Interference Causing Equipment Standard ICES-003, Issue 6, Information Technology Equipment (Including Digital Apparatus) – Limits and Methods of Measurement.

The update clarifies that external thermostats are subject to the requirements of ICES-003 as per Section 4(e) . Industry will have until 1 March 2017, to ensure that these thermostats sold, offered for sale, manufactured, imported, distributed or leased are compliant.

Objective and rationale: Protection of the network**Relevant documents:** Canada Gazette, Part I, 9 July 2016 - <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-09/pdf/g1-15028>.**Notice:** <http://www.gazette.gc.ca/rp-pr/p1/2016/2016-07-09/html/notice-avis-eng.php>**Proposed date of adoption:** 30 June 2016**Proposed date of entry into force:** 1 March 2017**Final date for comments:** 7 October 2016**Full text, part 1:** [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN495\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN495[1](english).pdf)**Full text, part 2:** [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN495\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN495[2](english).pdf)**Korea, Republic of Notification: KOR/662****Date issued:** 29 July 2016

Agency Responsible: National Radio Research Agency (RRA)

National Inquiry Point: Korean Agency for Technology and Standards (KATS), Ministry of Commerce, Industry and Energy (MOCIE) (KATS/MOCIE)

Notified under Article: 2.9.2

Products covered: EMC (Electromagnetic Compatibility)

Title: Draft amendment of Technical Regulation for Electromagnetic Compatibility

Description of content: · This regulation specifies the criteria of electromagnetic compatibility to clarify in meter and fire-fighting equipment

· This regulation is to specify newly criteria of electromagnetic compatibility for airborne equipment

Objective and rationale: Harmonization

Relevant documents: RRA Public Notice No. 2016-48 (22 July 2016)

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 27 September 2016

Full text (Korean): [https://tsapps.nist.gov/notifyus/docs/wto_country/KOR/full_text/pdf/KOR662\(korean\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/KOR/full_text/pdf/KOR662(korean).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 4 September 2016

BSR/UL 2129-201X, Standard for Safety for Halocarbon Clean Agent Fire Extinguishers (revision of ANSI/UL 2129-2014)

It is recognized that there is not one-size-fits-all quality values for halon replacements, therefore ASTM publishes a quality specification for each extinguishing agent. Revise UL standard to reference applicable ASTM quality specification or equivalent.

Send comments to or request information from Mark Ramlochan at Mark.Ramlochan@ul.com.

BSR/ASME B16.11-201x , Forged Fittings, Socket-Welding and Threaded (revision of ANSI/ASME B16.11-2011)

This Standard covers ratings, dimensions, tolerances, marking, and material requirements for forged fittings, both socket-welding and threaded, as illustrated in Tables 1 through 5 and Tables I-1 through I-5, inclusive.

Send comments to Erika Lawson at lawsone@asme.org.

Due 19 September 2016

BSR/ASA S1.40-2006 (R201x), Specifications and Verification Procedures for Sound Calibrators (reaffirmation of ANSI/ASA S1.40-2006 (R2011))

This standard specifies performance requirements for coupler-type sound calibrators in regard to sound pressure level, frequency, and total distortion generated. It also gives requirements for environmental conditions, electromagnetic compatibility, and instrument marking and documentation. It details the tests necessary to verify that a model of sound calibrator conforms to all the requirements as well the method for periodic testing.

Single copy price: \$150.00

Order from and send comments to Neil Stremmel at asastds@acousticalsociety.org.

BSR/AWS A3.0M/A3.0-201x, Standard Terms and Definitions Including Terms for Adhesive Bonding, Brazing, Soldering, Thermal Cutting, and Thermal Spraying (revision of ANSI/AWS A3.0M/A3.0-2009)

This standard is a glossary of the technical terms used in the welding industry. Its purpose is to establish standard terms to aid in the communication of welding information. Since it is intended to be a comprehensive compilation of welding terminology, nonstandard terms used in the welding industry are also included. All terms are either standard or nonstandard. They are arranged in word-by-word alphabetical sequence.

Single copy price: \$84.00

Order from Stephen Borrero at sborrero@aws.org.

Send comments to: adavis@aws.org.

BSR/UL 62841-3-4-201x, Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety – Part 3-4: Particular Requirements for Transportable Bench Grinders (identical national adoption of IEC 62841-3-4)

(1) Proposed adoption of the first edition of IEC 62841-3-4, Standard for Electric Motor - Operated Hand-Held Tools, Transportable Tools and Lawn and Garden Machinery - Safety - Part 3-4: Particular Requirements for Transportable Bench Grinders, as the first edition of UL 62841-3-4.

Obtain an electronic copy from: <http://www.comm-2000.com>

Send comments to Beth Northcott at Elizabeth.Northcott@ul.com.

BSR/UL 2577-201X, Standard for Safety for Suspended Ceiling Grid Low Voltage Systems and Equipment (revision of ANSI/UL 2577-2015)

The following changes in requirements to the Standard for Suspended Ceiling Grid Low Voltage Systems and Equipment, UL 2577/ULC-S2577, are being proposed: (1) Add new definition for low voltage/extra-low voltage and revise voltage references throughout the standard to correlate with the Canadian Electrical Code, Part 1, and the National Electrical Code, NFPA 70.

Obtain an electronic copy from: <http://www.comm-2000.com>

Send comments to Heather Sakellariou at Heather.Sakellariou@ul.com.

Due 12 September 2016

BSR/ASSE A10.37-201X, Debris Net Systems Used during Construction and Demolition Operations (new standard)

This standard establishes safety requirements for the design, selection, installation, and use of debris net systems during construction, demolition operations and for the temporary containment of debris from deteriorating structures. (NOTE: This standard is a revision of the ANSI A10.37-1996 Standard. This standard was administratively withdrawn by ANSI during October of 2006, but was relaunched per consensus of the A10 ASC.)

Single copy price: \$50.00

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

BSR/ASSE Z359.2-201X, Minimum Requirements for a Comprehensive Managed Fall Protection Program (revision of ANSI/ASSE Z359.2-2007)

This standard establishes guidelines and requirements for an employer's managed fall protection program, including policies, duties, and training; fall protection procedures; eliminating and controlling fall hazards; rescue procedures; incident investigations; and evaluating program effectiveness.

Single copy price: \$100.00

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

BSR/AWS B2.1-1-016-201x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E7018, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (new standard)

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

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-021-201x, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding Followed by Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, ER70S-2 and E7018, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (new standard)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual gas tungsten arc welding followed by shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications,

and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-017-201x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E6010, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-017-2005)

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

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-018-201x, Standard Welding Procedure Specification (SWPS) for Self-Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E71T-8, in the As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-018-2005)

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

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-019-201x, Standard Welding Procedure Specification (SWPS) for CO₂ Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E70T-1C and E71 T-1C, in the As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-019-2005)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic CO₂ shielded flux cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-020-201x, Standard Welding Procedure Specification (SWPS) for 75% Ar/25% CO₂ Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2), 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E70T-1M and E71T-1M, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-020-2005)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic Ar/CO₂ shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-022-201x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E6010 (Vertical Uphill) Followed by E7018, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-022-2005)

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

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-1-026-201x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E6010 (Vertical Downhill) Followed by E7018, in the As-Welded or PWHT Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1 -026-2005)

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

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS B2.1-8-023-201x, Standard Welding Procedure Specification (SWPS) for Shielded Metal Arc Welding of Austenitic Stainless Steel (M-8/P -8 Group 1) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, in the As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-8-023-2005)

This standard contains the essential welding variables for austenitic stainless steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using manual shielded metal arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications

Single copy price: \$128.00

Order from and send comments to Jennifer Rosario at jrosario@aws.org.

BSR/AWS C3.2M/C3.2-201X, Standard Method For Evaluating the Strength of Brazed Joints (revision of ANSI/AWS C3.2M/C3.2-2008)

This standard describes the test methods used to obtain brazed strength data of the short-time testing of single-lap joints in shear, butt-tension, stress-rupture, creep-strength, four-point-bending, and ceramic-tensilebutton specimens. Specimen preparation methods, brazing procedures, testing techniques, and methods for data analysis are detailed. Sample forms for recording data are presented. A graphical method of data presentation relates shear stress to overlap distance.

Single copy price: \$34.00

Order from and send comments to John Douglass at jdouglass@aws.org.

BSR/UL 1863-2012 (R201x), Standard for Safety for Communications - Circuit Accessories (reaffirmation of ANSI/UL 1863-2004 (R2012))

These requirements cover telecommunications-circuit accessories, such as jack and plug assemblies, quick-connect terminal assemblies, telephone wall plates, telephone extension cords, cross-connect terminal-block assemblies, maintenance terminal modules, terminal enclosures, cable-splice enclosures, network-interface devices, wire-guide assemblies, and connector boxes. These devices are intended to be used in telecommunications networks that have an operating root-mean-square (rms) voltage to ground less than 150 volts and installed or used in accordance with the National Electrical Code, ANSI/NFPA 70.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.comm-2000.com>

Send comments to Megan Mosen at megan.mosen@ul.com.

BSR/UL 1082-201X, Standard for Safety for Household Electric Coffee Makers and Brewing-Type Appliances (Proposals dated 7/29/16) (revision of ANSI/UL 1082-2015)

(1) Addition of transient voltage testing; (2) Proposed changes to the hospitality-use supplement, supplement SB; (3) Addition of Insertion/Withdrawal Test for Electric Kettles, New Section 51A.

Single copy price: Contact comm2000 for pricing and delivery options
Obtain an electronic copy from: <http://www.comm-2000.com>
Send comments to Linda Phinney at Linda.L.Phinney@ul.com.

Due 27 September 2016

BSR/ASME B5.8-2001 (R201x), Chucks and Chuck Jaws (reaffirmation of ANSI/ASME B5.8-2001 (R2011))

This Standard applies to chucks for use on engine lathes, tool room lathes, turret lathes, and automatic lathes and fit American Standard Spindle Noses of ANSI B5.9-1967. They may be used on other applications for which they are suitable (see pages 4 and 5 of ANSI-B5.9-1967). It is within the scope of this Standard to establish: (a) duty classes; (b) standard chuck diameters; (c) top jaw interchangeability; (d) mounting interchangeability (USA-Standard Spindle Noses); (e) draw-bar interchangeability for power chucks; (f) identification code for body, master jaws, top jaws dimensions, where interchangeability of chucks may be involved; and (g) nomenclature.

Single copy price: \$50.00

Obtain a copy at <http://www.asme.org/kb/standards>

Send comments to Donnie Alonzo at dalonzo@asme.org.

BSR/ASME B18.6.1-1981 (R201x), Wood Screws (Inch Series) (reaffirmation of ANSI/ASME B18.6.1-1981 (R2008))

This standard covers the complete general and dimensional data for the various types of dotted and recessed head wood screws recognized as "American National Standard." Also included are appendixes that provide specifications and instructions for penetration gaging and wobble gaging of recessed head screws; documentation for screw-head types relegated to non-preferred status; and formulas on which dimensional data are based. It shall be understood, however, that where questions arise concerning acceptance of product, the dimensions given in the tables shall govern over recalculation by formula.

Single copy price: \$35.00

Obtain a copy at <http://www.asme.org/kb/standards>.

Send comments to Angel Guzman at guzman@asme.org.

BSR/ASME B29.22-2001 (R201X), Drop Forged Rivetless Chains, Sprockets Teeth Drive Chain/Drive Dogs (reaffirmation of ANSI/ASME B29.22-2001 (R2009))

This Standard covers chains made from drop-forged steel parts that are heat-treated and are proportioned for high strength and comparative light weight. These chains' simple design permits assembly or dismantling by hand; these chains are available in three general types - Regular dropforged rivetless chain, X-type chain, and Modified X-type rivetless chain - as illustrated and described in this Standard. Numerous attachments are available to suit a wide variety of applications.

Single copy price: \$39.00

Obtain a copy at <http://www.asme.org/kb/standards>.

Send comments to Remington Richmond at richmondr@asme.org.

BSR/ASME B29.24M-2002 (R201x), Roller Load Chains for Overhead Hoists (reaffirmation of ANSI/ASME B29.24M-2002 (R2009))

This Standard covers specialized roller chains that are designed specifically as load chains for use in overhead hoists.

Single copy price: \$42.00

Obtain a copy at <http://www.asme.org/kb/standards>.

Send comments to Remington Richmond at richmondr@asme.org.

Due 4 October 2016

BSR/ASME B18.13-201x , Screw and Washer Assemblies - SEMS (Inch Series) (revision of ANSI/ASME B18.13-1996 (R2013))

This Standard covers general and dimensional data pertinent to the various types of screw and captive washer assemblies, otherwise known as SEMS. SEMS products may include screws, tapping screws, or bolts in sizes #0 through ½ inch diameters in various grades and materials. The word SEMS is recognized in the United States as a generic term applicable to screw and washer assemblies. Also included in this Standard are appendices to illustrate the relative proportions of plain and conical washer SEMS.

Single copy price: \$38.00
Order from Mayra Santiago at ansibox@asme.org.
Send comments to Angel Guzman at guzman@asme.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 20 September 2016

EN 17037 Daylight of buildings

This European Standard specifies minimum recommendations for achieving, by means of natural light, an adequate subjective impression of lightness indoors, and for providing an adequate view out. In addition, recommendations for the duration of sunshine exposure within habitable and occupied rooms are given. This standard gives information on how to use daylighting to provide lighting within interiors, and how to limit glare. This standard defines metrics used for the evaluation of daylighting conditions and gives methods of calculation and verification.

This standard applies to all spaces that may be regularly occupied by people for extended periods except where daylighting is contrary to the nature and role of the actual work done.

Due 29 September 2016

BS 8610 Personal fall protection equipment – Anchor systems – Specification

This British Standard provides requirements and test methods for type testing anchor systems that are installed and tested in the base materials specified by the manufacturer for:

- a) restraint systems;
- b) fall arrest systems;
- c) rope access systems;
- d) work positioning systems;
- e) rescue systems;
- f) evacuation systems.

This British Standard covers anchor systems intended for one or more users simultaneously and specifies the maximum number of users for each type of anchor system.

Due 30 September 2016

BS 8888 Technical product documentation and specification

This British Standard specifies requirements for technical product documentation and specification, principally for manufacturing industries and organizations associated with engineering disciplines, such as mechanical, electrical, nuclear, automotive and aerospace.

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 27 August 2016

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 3948-18, CE Code term “specifically approved for the purpose”. (Amendment)

Draft amendment to C22.1

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 3948(22-46), CE Code term “specifically approved for the purpose”. (Amendment)

Draft amendment to C22.1

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 3948(54-86), CE Code term “specifically approved for the purpose”. (Amendment)
Draft amendment to C22.1

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4104, Panelboard overcurrent protection requirements. (Amendment)
Draft amendment to C22.1

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4105, Emergency supply for essential electrical systems. (Amendment)
Draft amendment to C22.1

Due 2 October 2016

C22.2 No. 96 Portable power cables (New Edition)

This Standard specifies construction and testing requirements for portable power cables normally used in applications where the cables are subject to frequent flexing and where installation is in accordance with CSA M421 and/or the Canadian Electrical Code, Part I.

Due 8 October 2016

Z259.15 Anchorage connectors (New Edition)

This Standard specifies performance, design, testing, marking, classification, and other requirements related to anchorage connectors in travel-restraint, fall-arrest, work-positioning, and suspended component/tie-back line systems.

Z259.2.5 Fall arresters and vertical lifelines (New Edition)

This Standard specifies design, testing, and marking requirements for manufactured fall arresters for single users and for manufactured vertical lifelines.

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/ASA S12.60-201x/Part 4, Acoustical Performance Criteria, Design Requirements, and Guidelines for Schools, Part 4: Physical Education Settings (new standard)

This part of ANSI/ASA S12.60 is intended to provide a minimum set of requirements, based on the best scientific evidence available, that can be adopted by reference to this standard and enforced by an authority having jurisdiction. This part is intended to help school planners and designers provide good acoustical characteristics for physical education spaces in which speech communication is an important part of the learning process. For more information, contact Neil Stremmel at nstremmel@acousticalsociety.org.

BSR/UL 62091-201X, Standard for Safety for Low-Voltage Switchgear and Controlgear - Controllers for Drivers of Stationary Fire Pumps (national adoption with modifications of IEC 62091)

This standard applies to controllers intended for starting, controlling and stopping stationary fire pumps, including automatic and nonautomatic types for alternating-current electric-motor- or diesel-enginedriven fire pumps. It is anticipated that a controller only controls a single driver. Controllers for electric motor-driven fire pumps always include suitable short-circuit protection as an integral part of the controller. These controllers may include an integral power transfer switch. These controllers are rated 1000 Vac maximum. Controllers for diesel-engine-driven fire pumps include electrical circuits that operate various control and supervisory functions. For more information, contact Megan Van Heirseele at Megan.M.VanHeirseele@ul.com.

BSR/ASME B18.18-201x, Quality Assurance for Fasteners (revision of ANSI/ASME B18.18-2011)

This quality-focused Standard establishes in-process and final inspection requirements for fastener products as well as a receiving inspection plan for fastener purchasers. This Standard identifies four categories, recognizing that fastener users have widely varying requirements. The four categories covered are as follows: (a) Category 1 - A receiving inspection plan for purchasers; (b) Categories 2 and 3 - Utilizes documented and verifiable in-process controls structured at the producer's discretion; (c) Category 4 - Includes all of the requirements of Category 2 plus 100% inspection for a specific feature or features. For more information, contact Mayra Santiago at ansibox@asme.org.

BSR/IAPMO ES1000-201x, Standard for Building Code Compliance of Spray Polyurethane Foam (new standard)

Standard is to cover field-applied SPF for building code compliance of SPF, building assemblies incorporating SPF and materials closely associated with SPF. Application methods include spray, bead and others as applicable. Standard will also provide an outline of general and optional requirements with detailed procedures, testing requirements and supporting information incorporated into a series of appendixes. For more information, contact Kyle Thompson at kyle.thompson@iapmostandards.org.

BSR A11.1-201x, Standard for Testing and Rating Scaffold Assemblies and Components (new standard)

This standard provides methods for testing and rating the performance of the following: Tube and coupler scaffold components; welded frame scaffold assemblies; system scaffold assemblies; guardrail scaffold components; screwjack scaffold components; caster (with lever-actuated brake and swivel lead) scaffold components, putlog scaffold assemblies; and side- and end-bracket scaffold components. For more information, contact DeAnna Martin at deanna@saiaonline.org.

BSR A11.3-201x, Standard Requirements and Test Methods for Testing and Rating Portable Rigging Devices for Suspended Scaffold (new standard)

This standard establishes methods for testing and rating portable rigging devices used to support transportable suspended scaffolds for construction, alteration, demolition, and maintenance of buildings or structures. This standard does not cover permanently installed suspended scaffold systems (davits or roofcars). For more information, contact DeAnna Martin at deanna@saiaonline.org.

BSR A11.4-201x, Standard Requirements for Testing and Rating Multiple Point Suspended Scaffold Platforms (new standard)

This standard covers platforms and modular stage platforms used for suspended scaffolds. For more information, contact DeAnna Martin at deanna@saiaonline.org.

BSR A11.6-201x, Standard for Testing and Rating Manufactured Scaffold Planks and Decks (new standard)

A standard for the manufacturers, purchasers, and users of manufactured scaffold planks and decks, for testing and rating. For more information, contact DeAnna Martin at deanna@saiaonline.org.

Final Actions on American National Standards

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

ANSI/ASA S1.11-2016/Part 3/IEC 61260-3:2016, Electroacoustics - Octave-Band and Fractional-Octave Band Filters - Part 3: Periodic Tests (identical national adoption of IEC 61620-3:2016): 19 July 2016

ANSI/ASA S1.11-2016/Part 2 / IEC 61260-2:2016, Electroacoustics - Octave-Band and Fractional-Octave-Band Filters - Part 2: Pattern- Evaluation Tests (identical national adoption of IEC 61260-2:2016): 19 July 2016

ANSI/ASA S12.57-2011/ISO 3747-2010 (R2016), Acoustics - Determination of sound power levels and sound energy levels of noise sources using sound pressure - Engineering/survey methods for use in situ in a reverberant environment (reaffirmation of ANSI/ASA S12.57-2011/ISO 3747-2010): 19 July 2016

ANSI C78.381-1961 (S2016), Standard for Electric Lamps: Method for the Designation of Glow Lamps (stabilized maintenance of ANSI C78.381-1961 (R2011)): 12 July 2016

ANSI C82.2-2002 (R2016), Standard for Lamp Ballasts - Method of Measurement of Fluorescent Lamp Ballasts (reaffirmation of ANSI C82.2-2002 (R2007)): 12 July 2016

ANSI C82.9-2016, Lamp Ballasts - High-Intensity Discharge and Low- Pressure Sodium Lamps - Definitions (revision and redesignation of ANSI ANSLG C82.9-2010): 12 July 2016

ANSI C82.12-1999 (R2010), Standard for Lamp Ballasts – Fluorescent Adapters (withdrawal of ANSI C82.12-1999 (R2010)): 12 July 2016

ANSI/UL 1567-2012 (R2016), Receptacles and Switches Intended for Use with Aluminum Wire (reaffirmation of ANSI/UL 1567-2012): 15 July 2016

ANSI/UL 1574-2012 (R2016), Standard for Safety for Track Lighting Systems (reaffirmation of ANSI/UL 1574-2012): 12 July 2016

ANSI/UL 1681-2012 (R2016), Wiring Device Configurations (reaffirmation of ANSI/UL 1681-2012): 15 July 2016

ANSI/UL 268-2016c, Standard for Safety for Smoke Detectors for Fire Alarm Systems (revision of ANSI/UL 268-2016): 15 July 2016

ANSI/ASME A17.1/CSA B44-2016, Safety Code for Elevators and Escalators (revision and redesignation of ANSI/ASME A17.1-2013): 25 July 2016

ANSI/ATIS 0600010.03-2011 (R2016), Heat Dissipation Requirements for Network Telecommunications Equipment (reaffirmation of ANSI/ATIS 0600010.03-2011): 22 July 2016

ANSI/UL 60034-1-2016, Standard for Safety for Rotating Electrical Machines - Part 1: Rating and Performance (identical national adoption of IEC 60034-1): 26 July 2016

ANSI/UL 60939-3-2016, Standard for Safety for Passive filter units for electromagnetic interference suppression - Part 3: Passive filter units for which safety tests are appropriate (Proposal dated 5-6-16) (national adoption with modifications of IEC 60939-3): 22 July 2016

ANSI/UL 977-2012 (R2016), Standard for Safety for Fused Power- Circuit Devices (Proposal dated 06-03-16) (reaffirmation of ANSI/UL 977-2012): 29 July 2016

ANSI/UL 1412-2012 (R2016), Standard for Safety for Fusing Resistors and Temperature-Limited Resistors for Radio- and Television-Type Appliances (reaffirmation of ANSI/UL 1412-2012): 28 July 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 prices, when shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is first by due date then by alphanumeric designation.

ISO/DIS 8588, Sensory analysis - Methodology - A - not A test – 14 October 2016, \$71.00

ISO/DIS 6270-3, Paints and varnishes - Determination of resistance to humidity - Part 3: Condensation (in-cabinet exposure with heated, bubbling water reservoir) – 13 October 2016, \$40.00

ISO/DIS 19614, Traditional Chinese medicine - Pulse graph force transducer – 11 August 2016, FREE

ISO/DIS 9455-11, Soft soldering fluxes - Test methods - Part 11: Solubility of flux residues – 14 August 2016, \$40.00

ISO/DIS 9455-14, Soft soldering fluxes - Test methods - Part 14: Assessment of tackiness of flux residues – 13 August 2016, \$33.00

ISO/DIS 9455-15, Soft soldering fluxes - Test methods - Part 15: Copper corrosion test – 14 August 2016, \$58.00

26/605/CD, IEC 60974-9 Ed.2: Arc welding equipment - Part 9: Installation and use, 14 October 2016

26/606/CD, IEC 60974-14 Ed.1: Arc welding equipment - Part 14: Performance verification, 16 September 2016

34A/1926/CD, Amendment 2 to IEC 62612 Ed.1: Self ballasted LED lamps for general lighting services with supply voltages > 50V - Performance requirements, 14 October 2016

34B/1859/CDV, IEC 60400 f1 Ed.8: Lampholders for tubular fluorescent lamps and starterholders, 14 October 2016

48B/2517/CD, IEC 60512-1/Ed5: Connectors for electronic equipment - Tests and measurements - Part 1: General, 16 September 2016

48D/619/CD, IEC 60297-3-110/Ed1: Mechanical structures for electrical and electronic equipment - Dimensions of mechanical structures of the 482,6 mm (19 in) Series - Part 110: residential racks and cabinets for intelligent houses, 14 October 2016

56/1696/CD, IEC/ISO 31010/Ed2: Risk management – Risk assessment techniques, 16 September 2016

77A/929/CDV, IEC 61000-3-11 Ed.2: Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection, 14 October 2016

77A/931/CDV, Amendment 1 to IEC 61000-3-3: Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection, 14 October 2016

89/1327/CDV, IEC 60695-11-2/Ed3: Fire hazard testing - Part 11-2: Test flames - 1 kW pre-mixed flame - Apparatus, confirmatory test arrangement and guidance, 14 October 2016

110/778/CD, IEC/TS 62977-3-1 Ed.1: Electronic display devices – Part 3-1: Evaluation of optical characteristics - Colour difference based viewing angle, 16 September 2016

ISO/DIS 20308, Traditional Chinese medicine - Gua Sha instruments – 18 August 2016, \$53.00

29/916/DTS, Amendment 1 to IEC TS 62370 Ed.1: Electroacoustics - Instruments for the measurement of sound intensity - Electromagnetic and electrostatic compatibility requirements and test procedures, 21 October 2016

34A/1929/CD, Amendment 2 to IEC 62717 Ed.1: LED modules for general lighting - Performance requirements, 21 October 2016

34C/1229/NP, PNW 34C-1229: IEC 62386-223: Digital addressable lighting interface - Part 223: Particular requirements for control gear – Light output compensation over Lifetime (device type 22), 21 October 2016

81/525/CDV, IEC 62561-6 Ed.2: Lightning Protection System Components (LPSC) - Part 6: Requirements for Lightning Strike and Surge Counters (LSC), 21 October 2016

Recently Published IEC & ISO Standards

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>.

ISO 1514:2016, Paints and varnishes - Standard panels for testing, \$88.00

ISO 3248:2016, Paints and varnishes - Determination of the effect of heat, \$51.00

ISO 3294:2016, Parallel shank countersinks for angles 60, 90 and 120 degrees inclusive, \$51.00

ISO 1641-1:2016, End mills and slot drills - Part 1: Milling cutters with cylindrical shanks, \$51.00

ISO 5182:2016, Resistance welding - Materials for electrodes and ancillary equipment, \$88.00

ISO/IEC 23008-3/Amd1:2016, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 3: 3D audio - Amendment 1: MPEG-H, 3D audio profile and levels, \$22.00

IEC 61347-2-13 Ed. 2.1 b:2016, Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules, \$230.00

IEC 61347-2-13 Amd.1 Ed. 2.0 b:2016, Amendment 1 – Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules, \$17.00

IEC 62841-3-10 Ed. 1.0 en cor.1:2016, Corrigendum 1 – Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3-10: Particular requirements for transportable cut-off machines, \$0.00

IEC/TS 62972 Ed. 1.0 b:2016, General lighting - Organic light emitting diode (OLED) products and related equipment - Terms and definitions, \$73.00

ISO 4623-2:2016, Paints and varnishes - Determination of resistance to filiform corrosion - Part 2: Aluminium substrates, \$88.00

ISO 240:2016, Milling cutters - Interchangeability dimensions for cutter arbors or cutter mandrels, \$51.00

IEC 62477-1 Amd.1 Ed. 1.0 b:2016, Amendment 1 – Safety requirements for power electronic converter systems and equipment - Part 1: General, \$157.00

IEC 62477-1 Ed. 1.1 b:2016, Safety requirements for power electronic converter systems and equipment - Part 1: General, \$726.00

TSP Meeting Schedule

The schedule for LDI meetings is available! 2016 LDI meetings will **NOT** be taking place at the Westgate Las Vegas Resort and Casino. The meetings **WILL** take place at the Embassy Suites, down the road from the convention center at 3600 Paradise Road. You can view the full schedule of ESTA LDI 2016 meetings at <http://tsp.esta.org/tsp/meetings/index.php>.

At the Embassy Suites, 3600 Paradise Road (unless otherwise noted):		
Control Protocols Working Group (CPWG)	09:00 – 11:30	Thursday 20 October 2016
CPWG BSR E1.33, RDMnet TG	10:00 – 18:00	Monday 24 October 2016
CPWG BSR E1.37-6 PID Descriptions TG	14:00 – 17:00	Sunday 23 October 2016
CPWG BSR E1.59, Vector Transmission TG	14:00 – 18:00	Wednesday 19 October 2016
CPWG sACN IPv6 TG (This meeting is on the ESTA booth #2181)	13:00 – 17:00	Thursday 20 October 2016
Electrical Power Working Group (EPWG)	19:00 – 23:00	Friday 21 October 2016
Floors Working Group (FWG)	15:00 – 18:00	Friday 21 October 2016
Rigging Working Group (RWG)	19:00 – 23:00	Wednesday 19 October 2016
RWG BSR E1.4-3, Manual Hoists TG	14:00 – 18:00	Wednesday 19 October 2016
RWG BSR E1.6-1, Powered Hoist TG	09:00 – 13:00	Thursday 20 October 2016
RWG BSR E1.56, Rigging Points TG	09:00 – 13:00	Thursday 20 October 2016
Technical Standards Council	14:00 – 18:00	Wednesday 19 October 2016

ESTA Standards Watch

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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](#).

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Columbus McKinnon
ETC
LDI

ProSight Specialty Insurance
United States Institute for Theatre Technology

VISIONARY (\$5,000 & up; 20–100 employees/members)

Altman Lighting, Inc.

JR Clancy

VISIONARY (\$500 & up; <20 employees/members)

B-Hive Industries, Inc.
Boston Illumination group
Candela Controls Inc.
Clark-Reder Engineering
DesignLab Chicago / Interesting Products
EGI Event Production Services*
John T. McGraw

Sapsis Rigging Inc.
Theatre Projects
Theatre Safety Programs
Ken Vannice
Steve A. Walker & Associates*
Ralph Weber

INVESTOR (\$3,000–\$9,999; >100 employees/members)

Barbizon Electric
Rosco Laboratories

Texas Scenic Company

INVESTOR (\$1,500–\$4,999; 20–100 employees/members)

American Society of Theatre Consultants
H&H Specialties, Inc.

McLaren Engineering Group

INVESTOR (\$200–\$499; <20 employees/members)

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Indianapolis Stage Sales & Rentals, Inc.*
Ken Production Services Inc.

Eddie Kramer
LuciTag
Nudelta Digital

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Ian Foulds, IATSE Local 873
IATSE Local 80

IATSE Local 728
PSAV

SUPPORTER (<\$1,500; 20–100 employees/members)

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Lycian Stage Lighting
Oasis Stage Werks
Stage Equipment & Lighting

TOMCAT
Total Structures*
Vincent Lighting Systems*

SUPPORTER (<\$200; <20 employees/members)

Tony Giovannetti
Jones-Phillips Associates, LLC
Musique Xpress Lights, Inc.*
Niscon Inc.
Strohmeier Lighting, Inc.

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Tracy Underhill
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