



ESTA Standards Watch

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Four TSP Standards in Public Review

Two draft standards and two existing standards that are being considered for reaffirmation are in public review on the ESTA website. All four have comment deadlines in early January and all can be downloaded from <http://estalink.us/pr>.

BSR E1.26 - 2006 (R201x), Entertainment Technology—Recommended Testing Methods and Values for Shock Absorption of Floors Used in Live Performance Venues (a reaffirmation). This document sets out the energy absorption requirements for floors in venues used for live performances, and the methods for testing them. The standard was originally published in 2006 and was last reaffirmed in 2012.

BSR E1.24 - 2012 (R201x), Entertainment Technology—Dimensional Requirements for Stage Pin Connectors (a reaffirmation). E1.24 is a configuration standard for mating male and female pin connectors. The electrical reliability and flammability requirements for pin connectors are outside the scope of this standard and

would be covered by other standards, but those other standards use this one to assure compatibility between connectors from different manufacturers.

BSR E1.50 - 201x, Entertainment Technology—Requirements for the Structural Support of Temporary LED, Video & Display Systems (a new standard). The scope of this standard covers temporary installations of large format modular display systems, LED, video and other self-illuminating display structures not otherwise addressed by existing standards. The scope of this standard includes planning and site preparedness, assembly and erection, suspension and safety of components, special access requirements, use and dismantling of these systems.

BSR E1.56 – 201x, Entertainment Technology—Rigging Support Points (a new standard). This standard applies to stationary rigging points that are intended to be permanent. It provides minimum requirements for the design, fabrication, installation, inspection, and documentation of these rigging points for their use to support rigging loads.

ESTA Plugfest Adds Round Table Discussions

The ESTA Control Protocols Plugfest organizers announced today that informal round table discussions for product developers have been added to the event's program. Subject matter experts from the Control Protocols Working Group will share their knowledge on RDM Proxy servers, RDM Queued Messages, RDM Status Messages and sACN IGMP support.

The ESTA Control Protocols Plugfest is an educational opportunity for control manufacturers and developers to gather together in person and test their products for interoperability with the latest versions of the CPWG ESTA Control standards. Our goal is to assist you in ensuring that your customer is purchasing products that interoperate and communicate correctly on the same control network.

The Plugfest is 20-23 January 2017 at the D/FW Marriott Solana in Westlake, Texas. The scheduled hours are 4:00-11:00pm on Friday, 9:00am-11:00pm on Saturday and Sunday, and 9:00am to noon on Monday. The event is attended by members of the E1.20 (RDM), E1.31 (sACN), E1.17 (ACN), and E1.33 (RDMnet) task groups which authored the standards--they will be available to provide their expertise. Attendees have the opportunity to make interoperability improvements to their products with positive "no silly questions" feedback from the CPWG members that authored the standards.

This is an opportunity to take advantage of the knowledge and experience of the CPWG, one of the Technical Standards Program's largest working groups. ESTA invites the industry to drop in and experience Plugfest.

More information is available at www.estalink.us/plugfest. To contact the event's organizers please email plugfest@esta.org. The link for hotel reservations can be found at <http://www.esta.org/ESTA/meetings.php>.

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 12 December 2016

BSR/LEO S-002-201x, Life Cycle Impact Assessment Framework and Guidance for Establishing Public Declarations and Claims, For: Environmental Declarations for Products and Systems, Environmentally Preferable Product Claims, Carbon Footprint Profiles (new standard)

This draft standard addresses Type III Life-Cycle Impact Profile Declarations for Products and Services. It specifies the life-cycle impact assessment (LCIA) methods, scope, metrics and format for declarations. This standard is intended to provide a uniform and standardized format for properly reporting the environmental life-cycle impacts of any system studied.

Single copy price: Free (pdf); \$50.00 (paper)

Order from and send comments to: Michael Army, michaelarmy@leonardoacademy.org

BSR/SI-0001-201x, Safe Use of Cleaning Chemicals (new standard)

Cleaning workers and patrons of facilities are injured or killed due to improper chemical handling. Accidents are frequently caused by what are considered to be "safe" household cleaning chemicals. On other occasions, the accident is a result of misusing and/or mixing dangerous chemicals that have no place in a regular cleaning operation. Currently, there is no available educational, testing, and permit-issuing process that cleaning workers may be required to pass to enter or remain in the occupations of custodian, janitor, and housekeeper. There needs to be a standard and a compliance procedure to ensure that all cleaning workers understand basic chemical handling.

Single copy price: \$49.95 (paper copy)/\$19.95 (pdf)

Obtain an electronic copy from: <http://simoninstitute.org/si-0001--draft--order--form/>

Send comments to: James Ginnaty, jim@simoninstitute.org

BSR/TIA 607-C-1-201x, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises - Addendum 1: Bonding in Multitenant Buildings (addenda to ANSI/TIA 607-C-2015)

This Addendum specifies requirements for a generic telecommunications bonding infrastructure in multitenant buildings. This Addendum may also be used as a guide for the renovation or retrofit of existing systems.

Single copy price: \$61.00

Order from and send comments to: TIA, standards@tiaonline.org

BSR/TIA 606-C-201x, Administration Standard for Telecommunications Infrastructure (revision and redesignation of ANSI/TIA 606-B-2012)

This standard specifies administration systems for telecommunications infrastructure within buildings (including commercial, industrial, residential, and data center premises) and between buildings. This infrastructure may range in size from a building requiring a single telecommunications space (TS) and associated elements, to many TSs and associated elements in multiple campus locations. This standard applies to administration of telecommunications infrastructure in existing, renovated, and new buildings.

Single copy price: \$200.00

Order from and send comment to: TIA, standards@tiaonline.org

BSR/TIA 942-B-201x, Telecommunications Infrastructure Standard for Data Centers (revision and redesignation of ANSI/TIA 942-A-2012)

This standard specifies the minimum requirements for telecommunications infrastructure of data centers and computer rooms, including single-tenant enterprise data centers and multi-tenant Internet-hosting data centers. The topology specified in this document is intended to be applicable to any size data center.

Single copy price: \$228.00 Order from and send comment to: TIA, standards@tiaonline.org

BSR/TIA 1179-A-201x, Healthcare Facility Telecommunications Infrastructure Standard (revision and redesignation of ANSI/TIA 1179-2010)

This standard specifies requirements for telecommunications infrastructure for healthcare facilities (e.g., hospitals, clinics). It specifies cabling, cabling topologies, and cabling distances. Additionally, pathways and spaces (e.g., sizing and location), and ancillary requirements are addressed. Telecommunications cabling specified by this standard is intended to support a wide range of healthcare facilities and systems.

Single copy price: \$103.00

Order from and send comment to: TIA, standards@tiaonline.org

Due 26 December 2016

BSR/EIA 973-201x, Specification for M12 Hybrid (Data and Power) Circular Connector (new standard)

This specification contains the connector types specified for M12 hybrid (data and power) circular connectors, typically use for automation applications and data/communications in industrial premises.

Single copy price: \$88.00

Order from: [www.http://global.ihs.com/](http://global.ihs.com/)

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

BSR/GBI 01-201x, Green Building Assessment Protocol for Commercial Buildings (revision of ANSI/GBI 01-2010)

The standard includes criteria and practices for environmentally preferable design and construction of commercial buildings. Six green building assessment areas are included: project management, site, energy, water, materials, and indoor environment. The only text available for public comment are the limited revisions which are denoted with strikethrough and underline.

Single copy price: \$25.00

Obtain an electronic copy from: http://www.thegbi.org/content/misc/BSR-GBI-01-201X_10-27-16_Final_Draft1.pdf

Send comments to: comment@thegbi.org

BSR C63.27-201x, Draft Standard for Evaluation of Wireless Coexistence (new standard)

This standard specifies methods for assessing the radio-frequency (RF) wireless coexistence of equipment that incorporates RF communications. This standard specifies key performance indicators (KPI) that can be used to assess the ability of the equipment under test (EUT) to coexist with other equipment in its intended operational environment.

Single copy price: ??

Order from and send comments to: Susan Vogel, s.vogel@ieee.org

BSR/IESNA LM-73-2004 (R201x), IES Guide for Photometric Testing of Entertainment Lighting Luminaires (reaffirmation of ANSI/IESNA LM-73-2004 (R2009))

A standard procedure by which entertainment lighting luminaires, specifically designed for use in the theater, TV environment, film studies, or on-location shoots, can be photometrically measured.

Single copy price: \$15.00

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

BSR/PMI 99-001-201x, The Standard for Project Management (revision of ANSI/PMI 99-001-2013)

The Standard for Project Management - Sixth Edition is a basic reference, the global standard for the project management profession and identifies and describes the subset of the project management body of knowledge that is recognized as good practice. A cover-to-cover revision incorporating continuous improvement and addressing needed modifications, and the relocation of substantial portions of the text into guidance/informational sections has occurred.

Single copy price: Free

Order from and send comments to: Lorna Scheel, lorna.scheel@pmi.org

CSA Public Review Announcements

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

Due 10 December 2016

EXP 08 Hip Protectors (new standard)

This Express Document (herein referred to as "this Document") specifies testing and labelling requirements for hip protectors used to reduce the risk of hip fracture in the event of a fall.

Due 20 December 2016

C22.2 No. 0.4 Bonding of electrical equipment (new edition)

This standard applies to electrical equipment that is intended for installation and use in accordance with the requirements of Part I of the Canadian Electrical Code (CE Code) and is

- (a) cord connected or permanently connected and required to be bonded by either Part I or Part II of the CE Code; or
- (b) constructed in a manner intended to ensure that it can be bonded when installed.

Due 25 December 2016

M669 Lighting and marking of agricultural equipment on highways (new edition)

This standard provides specifications for lighting and marking of agricultural equipment whenever such equipment is operating or is traveling on a highway.

Due 26 December 2016

CISPR 32 EMC of Information Technology Equipment, Multimedia Equipment and Receivers (new standard)

This International Standard applies to multimedia equipment (MME) as defined in 3.1.24 and having a rated r.m.s. AC or DC supply voltage not exceeding 600 V. Equipment within the scope of CISPR 13 or CISPR 22 is within the scope of this publication. MME intended primarily for professional use is within the scope of this publication. The radiated emission requirements in this standard are not intended to be applicable to the intentional transmissions from a radio transmitter as defined by the ITU, nor to any spurious emissions related to these intentional transmissions. Equipment, for which emission requirements in the frequency range covered by this publication are explicitly formulated in other CISPR publications (except CISPR 13 and CISPR 22), are excluded from the scope of this publication. In-situ testing is outside the scope of this publication. This publication covers two classes of MME (Class A and Class B). The MME classes are specified in Clause 4. The objectives of this publication are:

- 1) to establish requirements which provide an adequate level of protection of the radio spectrum, allowing radio services to operate as intended in the frequency range 9 kHz to 400 GHz;
- 2) to specify procedures to ensure the reproducibility of measurement and the repeatability of results.

Due 1 January 2017

C22.2 No. 62841-2-11 Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 2-11: Particular Requirements For Hand-Held Reciprocating Saws (new standard)

This clause of Part 1 is applicable, except as follows:

Addition:

This part of IEC 62841 applies to reciprocating saws such as jig saws and sabre saws.

C22.2 No. 25 Enclosures for Use in Class II, Division 1 Groups E, F, and G Hazardous Locations (new edition)

This standard applies to enclosures for electrical equipment, other than lighting fixtures, intended to be used in Class II, Division 1, Groups E, F, and G hazardous locations in accordance with the Rules of the Canadian Electrical Code, Part I.

Due 2 January 2017

CSA_ICC B805 Rainwater Harvesting

The provisions of this standard apply to the design, materials, installation, and operation of rainwater harvesting systems for potable and non-potable applications. Please note that only those sections of the document that were changed substantively from the First Public Review Draft are subject to public comment during this Second Public Review Period. The sections of the document that underwent change and are therefore eligible for comment are denoted in yellow highlighting. If comments are submitted on sections that were not changed, they will not be considered. The First Public Comment Draft for comparison purposes, can be viewed here:

http://productionpullzone.umz7izwbxxtqs4tn8wkvgdcktq5y5tafr.netdna-cdn.com/wp-content/uploads/is_rcsdi/Public-Review-Draft-1-CSA_ICC-B805-201x-Rainwater-Harvesting-092315.pdf

Questions regarding the public review process or comment submission process can be directed to the committee secretariats Paul Gulletson (paul.gulletson@csagroup.org), Shawn Martin (smartin@iccsafe.org).

Due 6 January 2017

C22.2 No. 100-14 Motors and generators (amendment)

This is a proposed amendment to C22.2 No. 100-14. Many changes are proposed, too many to list here.

C22.2 No. 107.3-14 Uninterruptible power systems (amendment)

This is a proposed amendment to C22.2 No. 107.3-14 - Uninterruptible power systems. Many changes are proposed, too many to list here.

Due 7 January 2017

C22.2 No. 269.1 Surge protective devices – Type 1 – Permanently connected (new edition)

This standard applies to surge protective devices (SPDs) intended for:

- a) permanently connected applications designed for limiting surge voltages and discharging surge currents;
- b) use on 50/60 Hz circuits over 42 V and up to 750 V ac;
- c) installation between the secondary of the service transformer and the line side of the service equipment overcurrent protective device. These devices may also be installed on the load side of the main overcurrent protective device;
- d) installation where external overcurrent protection may not be present; and
- e) indoor or outdoor use in accordance with the Canadian Electrical Code, Part I.

C22.2 No. 269.2 Surge protective devices – Type 2 – Permanently connected (new edition)

This standard applies to surge protective devices (SPDs) intended for

- a) permanently connected applications designed for limiting surge voltages and discharging surge currents;
- b) use on 50/60 Hz circuits over 42 V and up to 750 V ac;
- c) installation on the load side of the main overcurrent protective device; and
- d) indoor or outdoor use in accordance with the Canadian Electrical Code, Part I.

C22.2 No. 269.3 Surge protective devices – Type 3 – Cord connected, direct plug-in and receptacle type (new edition)

This standard covers cord connected, direct plug-in and receptacle type SPDs whose primary function is to provide surge protection and that are intended to be marked SPD Type 3 in accordance with Clause 5.2(a). This product may also be used for power distribution circuits.

C22.2 No. 269.4 Surge protective devices – Type 4 – Component assemblies (new edition)

This standard covers component assembly surge protective devices (SPDs) consisting of two or more Type 5 components, intended for use in Type 1, 2, or 3 SPD applications or installation in other electrical equipment.

C22.2 No. 269.5 Surge protective devices – Type 5 – Components (new edition)

This standard applies to surge protective device (SPD) components designed to mitigate the effects of transient overvoltages and surge events when used on electrical distribution systems rated at not more than 750 volts.

Due 9 January 2017

C22.2 No. 205 Signal Equipment (new edition)

This standard covers the electrical, fire, and shock hazard requirements for all permanently and cord-connected signal equipment intended for household, commercial and industrial use operating at nominal system voltage of 120V for household use; and nominal system voltages up to 600V for commercial and industrial use; and double insulated equipment up to 240V in non-hazardous locations in accordance with the rules of the Canadian Electrical Code, Part I.

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4155, Appendix B Note for Rule 14-000, Scope. (amendment)

Add the following to Appendix B:

Rule 14-000

Protection requirements for specific circuits or for specific equipment and their associated conductors may also be included in other sections of the CE Code Part I.

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4159, Clarify Subrule 8-106(1). (amendment)

Revise Subrule 8-106(1) to read as follows:

8-106(1)

The size of conductors and switches computed in accordance with this Section shall be the minimum used except that, if the next smaller standard size in common use has an ampacity of at least 95% of not more than 5% less than this calculated minimum, the smaller size conductor shall be permitted.

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/UL 2748A-201x, Standard for Safety for Arcing Fault Interrupting Devices (new standard)

The requirements of UL 2748A cover: (a) Fast operating devices intended to interrupt currents associated with arcing faults, having interrupting times faster than conventional overcurrent devices; (b) Open-type devices that are intended to be installed within power distribution equipment; and (c) Devices rated up to 38 kV AC maximum. Contact: Derrick Martin, Derrick.L.Martin@ul.com

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

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

Contact: Karen Willis, Karen.willis@nema.org

Final Actions on American National Standards

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

ANSI ASSE Z359.16-2016, Safety Requirements for Climbing Ladder Fall Arrest Systems (new standard): 2 November 2016

ANSI/AIAA S-142-2016, Standard/Handbook for Multipactor Breakdown Prevention in Spacecraft Components (new standard): 21 October 2016

ANSI/TIA 569-D-1-2016, Telecommunications - Pathways and Spaces: Addendum 1 - Revised Temperature and Humidity Requirements for Telecommunications Spaces (addenda to ANSI/TIA 569-D-2015): 21 October 2016

ANSI/UL 8750-2016a, Standard for Safety for Light Emitting Diode (LED) Equipment for Use in Lighting Products (revision of ANSI/UL 8750-2015): 21 October 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. Any prices, if shown, are for purchases through ANSI; prices elsewhere may differ. The sort order is first by due date then by alphanumeric designation.

ISO/DIS 16069, Graphical symbols - Safety signs - Safety way guidance systems (SWGS) – 18 November 2016, \$112.00

ISO/DIS 18841, Interpreting services - General requirements and recommendations - 18 November 2016, \$67.00

ISO/DIS 20380, Public swimming pools - Computer vision systems for the detection of drowning accidents in swimming pools - Safety requirements and test methods – 25 November 2016, \$67.00

77A/936/CDV, IEC 61000-3-2 (f1): Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase), 20 January 2017

ISO 7010/DAmD188, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 188: Safety sign E021: Protection shelter – 21 January 2017, \$29.00

ISO 7010/DAmD189, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 189: Safety sign P044: Use of smart glasses prohibited - 21 January 2017, \$29.00

ISO 7010/DAmD190, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 190: Safety sign F007: Fire protection door - 21 January 2017, \$29.00

ISO 7010/DAmD196, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 196: Safety sign P047: Do not ram into toboggans - 21 January 2017, \$29.00

ISO 7010/DAmD197, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 197: Safety sign W042: Warning; Arc flash - 21 January 2017, \$29.00

ISO 7010/DAmD198, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 198: Safety sign P043: Not for people in the state of intoxication - 21 January 2017, \$29.00

ISO/DIS 80000-9, Quantities and units - Part 9: Physical chemistry and molecular physics – 26 January 2017, \$77.00

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>.

IEC 60664-3 Ed. 3.0 b:2016, Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution, \$182.00

S+ IEC 60664-3 Ed. 3.0 en:2016 (Redline version), Insulation coordination for equipment within low-voltage systems - Part 3: Use of coating, potting or moulding for protection against pollution, \$218.00

IEC 60664-SER Ed. 1.0 b:2016, Insulation coordination for equipment within low-voltage systems - ALL PARTS, \$1153.00

IEC 61204-3 Ed. 3.0 b:2016, Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC), \$278.00

IEC 61204-7 Ed. 2.0 b:2016, Low-voltage switch mode power supplies - Part 7: Safety requirements, \$387.00

IEC 61204-7 Ed. 2.0 en:2016, Low-voltage switch mode power supplies - Part 7: Safety requirements, \$402.00

IEC 62040-5-3 Ed. 1.0 b:2016, Uninterruptible power systems (UPS) - Part 5-3: DC output UPS - Performance and test requirements, \$339.00

S+ IEC 61204-3 Ed. 3.0 en:2016 (Redline version), Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC), \$334.00

IEC/TR 63037 Ed. 1.0 en:2016, Electrical interface specifications for self ballasted lamps and controlgear in phase-cut dimmed lighting systems, \$206.00

ISO 12756:2016, Drawing and writing instruments - Ball point pens and roller ball pens - Vocabulary, \$51.00

ISO 21067-1:2016, Packaging - Vocabulary - Part 1: General terms, \$51.00

ISO/IEC 29500-1:2016, Information technology - Document description and processing languages - Office Open XML File Formats - Part 1: Fundamentals and Markup Language Reference, \$265.00

ISO/IEC 29500-4:2016, Information technology - Document description and processing languages - Office Open XML File Formats - Part 4: Transitional Migration Features, \$265.00

ISO/TS 4949:2016, Steel names based on letter symbols, \$88.00

ISO/TS 9002:2016, Quality management systems - Guidelines for the application of ISO 9001:2015, \$200.00

TSP Meeting Schedule

The January 2017 LDI meetings will take place at the Marriott Solana in Westlake, TX. The most up to date schedule can be found on the ESTA website at <http://tsp.esta.org/tsp/meetings/index.php>. The page also has a "Reserve a Hotel Room" link.

Control Protocols Plugfest	16:00 – 23:00	Friday 20 January 2017
	09:00 – 23:00	Saturday 21 January 2017
	09:00 – 23:00	Sunday 22 January 2017
	09:00 - noon	Monday 23 January 2017
Control Protocols BSR E1.20 Task Group	13:00 – 16:00	Saturday 21 January 2017
Control Protocols BSR E1.33 Task Group	10:00 – 18:00	Sunday 22 January 2017
Control Protocols BSR E1.37-4 Task Group	16:00 – 18:00	Saturday 21 January 2017
Control Protocols BSR E1.59 Task Group	19:00 – 23:00	Friday 20 January 2017
Control Protocols RDM Train the Trainer	14:00 – 18:00	Friday 20 January 2017
Control Protocols Working Group (CPWG)	09:00 – 13:00	Saturday 21 January 2017
Electrical Power Working Group (EPWG)	09:00 – 13:00	Friday 20 January 2017
Event Safety Working Group (ESWG)	14:00 – 18:00	Saturday 21 January 2017
Rigging BSR E1.6-1 Task Group	09:00 – noon	Friday 20 January 2017
Rigging BSR E1.6-2 Task Group	09:00 – 13:00	Saturday 21 January 2017
Rigging BSR E1.50 Video Displays Task Group	19:00 – 23:00	Thursday 19 January 2017
Rigging Working Group (RWG)	14:00 – 18:00	Friday 20 January 2017
Technical Standards Council (TSC)	09:00 – 13:00	Sunday 22 January 2017

Funding the TSP

The ESTA Technical Standards Program (TSP) was established in 1994 by ESTA in response to the increasing number of members who were encountering situations where the lack of standards, or the imposition of standards developed outside the entertainment industry, were making it difficult to conduct business safely, efficiently, and profitably. However, the impact of the TSP extends far beyond ESTA's membership to every facet of the entertainment, event, and installation industries and to everyone who works in them.

The TSP has published over 50 American National Standards to date, which range from the worldwide industry standard DMX512 (ANSI E1.11) and RDM (ANSI E1.20) protocols to key rigging standards for outdoor structures, powered hoist systems, and trusses and towers. In 2013, ProSight Specialty Insurance began sponsoring the free distribution of the standards and recommended practices created under the TSP. Since then, over 51,000 documents have been downloaded by over 8,000 people, from OSHA inspectors to technicians from theme parks, performing arts centers, touring productions, and film shoots, to educators and their students. Jeff Carter, Retired Head of Indiana OSHA and Head of the Indiana State Fair Stage Collapse Investigation, wrote "I appreciate your foresight in getting these important documents out to the community where they can help prevent another similar tragedy. I wanted to extend my appreciation for your working out this arrangement. Thank you."

A standards-writing program in the entertainment industry cannot be self-supporting as it cannot sell standards at a price that would pay for their development. The TSP has been supported since its inception by contributions from a small group of industry companies and major support from ESTA. Recent changes in ESTA's income stream mean that the association can no longer fund the TSP as it has in the past. Penton, the owners of the LDI Show, announced that they were ceasing the previous 15-year relationship with ESTA whereby ESTA received a royalty as a co-sponsor of the show. These types of relationships were ended across all their properties as Penton sought to increase profits in preparation for their sale to Informa, which was completed on November 2. Last year, the royalty represented approximately \$400,000 in income to ESTA. There was a tail-off period in the contract so ESTA will receive approximately \$200,000 in 2016, but nothing in 2017 and beyond. This situation has put the TSP at tremendous risk and ESTA is reaching out to the entire industry to step up with 5-year pledges to ensure the continuance of the program.

The budget for the TSP is very straightforward with the primary expenses coming in four main areas: the costs associated with holding the quarterly meetings that are deemed essential to moving the standards forward at a steady pace, ANSI dues, insurance (we carry five million dollars in both Directors & Officers Liability and Errors & Omissions coverage to protect the volunteers who work in the program), and staff costs.

What would our industry look like without the TSP? Imagine an industry with no vehicle to create safety and interoperability standards which are free from anti-trust concerns in a regulatory-compliant environment. Without the TSP, the industry would revert to a standards-free environment, or worse, an environment where standards for our industry would be set by people from outside our industry. This would be particularly disastrous in areas such as rigging, where accidents would prompt individual cities and states to try and write their own standards. That would result in a compliance and touring nightmare.

Without the TSP, even current ANSI/ESTA standards would cease to exist. This is an unimaginable situation that as an industry we simply cannot allow to happen. Everyone in the industry benefits from the TSP and everyone needs to step forward and fund this critical program to keep it alive.

Please consider joining the Investors in Innovation. Information about becoming an Investor is available at <http://tsp.esta.org/invest>. The Investors in Innovation listed on the TSP website (http://tsp.esta.org/tsp/inv_in_innovation/investors.html) include the generous companies and individuals listed on the next two pages.

Investors in Innovation

VISIONARY (\$10,000 & up; >100 employees/members)

Chauvet Professional
Columbus McKinnon Entertainment Technology
ETC

LDI
ProSight Specialty Insurance
United States Institute for Theatre Technology

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

Altman Lighting, Inc.
German Light Products

JR Clancy
Stage Rigging

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

B-Hive Industries, Inc.
Boston Illumination group
Candela Controls Inc.
EGI Event Production Services
Entertainment Project Services
Hughston Engineering Inc.
Jules Lauve
John T. McGraw
Alan Rowe

Reed Rigging
Sapsis Rigging Inc.
Dana Taylor
Steve Terry
Theatre Projects
Theatre Safety Programs
Steve A. Walker & Associates
Ralph Weber
Mike Wood Consulting

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

Barbizon Electric
Lex

Rosco Laboratories
Texas Scenic Company

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

American Society of Theatre Consultants
City Theatrical Inc.

H&H Specialties, Inc.
XSF Xtreme Structures and Fabrication

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

Tony Giovannetti
Indianapolis Stage Sales & Rentals, Inc.
LuciTag
Lumenradio AB

Nudelta Digital
Project SSSHH Incorporated
Stephen Vanciel

SUPPORTER (<\$3,000; >100 employees/members)

Ian Foulds, IATSE Local 873
IATSE Local 80

PSAV

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

Blizzard Lighting, LLC
Creative Stage Lighting
InCord
Lycian Stage Lighting
Oasis Stage Werks

Stage Equipment & Lighting
TOMCAT
Total Structures
Vincent Lighting Systems

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

Milton Davis
Michael Lay
Niscon Inc.
Skjonberg Controls Inc.

Christopher B. Tilton
Tracy Underhill
Ken Vannice

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

Altman Lighting
Barbizon
B-Hive Industries
Candela Controls
Chauvet
City Theatrical
Columbus McKinnon
Earl Girls Inc. EGI Pro
Electronic Theatre Controls
Entertainment Project Services
GLP German Light Products
H & H Specialties
High End Systems
High Output
Hughston Engineering
InCord
InterAmerica Stage
J.R. Clancy
Jules Lauve
Lex Products

Lycian Stage Lighting
John T. McGraw
McLaren Engineering
Niscon
Reed Rigging
Rosco Laboratories
Alan M. Rowe
Sapsis Rigging
Stage Rigging
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Tyler Truss
Steve Walker & Associates
Mike Wood Consulting
VER
Vincent Lighting Systems
XSF Xtreme Structures and Fabrication

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