

ESTA Standards Watch

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One ESTA Standard in Public Review

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One draft standard is available on the ESTA website at http://estalink.us/pr. Comment before EOD 14 February.

BSR E1.37-7 - 201x, Additional Message Sets for ANSI E1.20 (RDM) - Gateway & Splitter Configuration Messages (as new standard)

BSR E1.37-7 provides additional Get/Set Parameter Messages for use with the ANSI E1.20 Remote Device Management protocol and BSR E1.33 RDMnet protocol. This document contains messages relating to

configuring RDMnet gateways, managed splitters, and proxy devices. BSR E1.37-7 references material from another CPWG draft standard in progress, BSR E1.33, RDMnet. The references to BSR E1.33 have been excerpted and included in the review explanation file, to be used in context with the draft standard in review

55 Companies and Individuals Pledge to Save the TSP – Join Them Today

When ESTA learned it would be losing a long-term source of revenue, the association faced the loss of almost a third of its income in 2017. The immediate impact of this is to endanger the survival of ESTA's ANSI-accredited Technical Standards Program (TSP). The ramifications of this would be enormous to the entertainment technology industry. Upon hearing of the situation, Ford Sellers, Senior Product Manager at Chauvet Lighting, commented "The work that is done by the TSP is indispensable. It is central to our industry...In fact, it is what makes us an industry, instead of just a bunch of individual projects."

The rallying cry went out from the volunteer leadership of ESTA and members of the Technical Standards Program, "Everyone in the industry benefits from the TSP and everyone needs to step forward and fund this critical program to keep it alive." The standards created under the TSP are used directly or indirectly every day by almost every manufacturer, dealer, installer, production company and end user. These standards prevent accidents, protect lives and property, save time and money, solve problems, and enhance creativity.

The industry is being asked to step up with five-year pledges to ensure the important work of the TSP can continue uninterrupted while ESTA strives to put other sources of funding in place. To date, 55 companies and individuals have stepped forward with pledges totaling roughly \$200,000 per year, putting ESTA over halfway towards its goal. The list of companies making the pledge can be seen at the end of this release or at tsp.esta.org/pledged_donors. To join them, please visit tsp.esta.org/donate or email savethetsp@esta.org.

The TSP provides the vehicle to create safety and interoperability standards which are free from anti-trust concerns in a decidedly regulatory-compliant environment. The current technology climate is accelerating at a faster rate than ever before yet, 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 which would result in a compliance and touring nightmare.

In addition, maintaining existing ANSI standards requires review on a regular five-year cycle. Without the TSP, even maintaining current ANSI standards as they evolve would not be possible and they would cease to exist.

The TSP has authored over 50 American National Standards with more currently in development by the hundreds of volunteers who participate in the program. Please support the work they do on behalf of the entire entertainment technology industry by becoming a TSP Investor in Innovation today.

Companies and individuals who have made long-term pledges to support the TSP:

About the Stage Altman Lighting

Barbizon

B-Hive Industries

Scott Blair

Boston Illumination Group

Candela Controls

Chauvet

City Theatrical

Clark-Reder Engineering

Columbus McKinnon Corporation

Tracey Cosgrove and Mark McKinney

Earl Girls Inc. EGI Pro

Electronic Theatre Controls

High End Systems

High Output

Tony Giovannetti

H & H Specialties

Neil Huff

Hughston Engineering IATSE Local 891

Entertainment Project Services

Golden Sea Professional Equipment Limited

GLP German Light Products

IATOL LOCALO

InCord

Beverly and Tom Inglesby

InterAmerica Stage

J.R. Clancy

Jules Lauve Brian Lawlor Lex Products

Lycian Stage Lighting John T. McGraw

McLaren Engineering Group Mike Wood Consulting

Niscon

Oasis Stage Werks Reed Rigging

Sapsis Rigging

Reliable Design Services Rosco Laboratories Alan M. Rowe Stage Equipment & Lighting

Stage Rigging Stagemaker Dana Taylor Steve Terry

Texas Scenic Company
Theatre Projects Consultants
Theatre Safety Programs
Tyler Truss Systems
Steve Walker & Associates

VER

Vincent Lighting Systems

XSF Xtreme Structures and Fabrication

ESTA Plugfest Round-Tables Via WebEx Next Week!

The ESTA Control Protocols Plugfest organizers announced today that two live, informal round-table discussions will be made available to the general public via a free WebEx video conference. Those include:

- A discussion of "RDM Queued/Status Messages" will be broadcast on Saturday, January 21 from 7:30 p.m. to 8:30 p.m., CST.
- A discussion of "IGMP, PIM, Multicast Infrastructure" for configuring large and/or managed network hardware to operate with E1.31 (sACN) will be broadcast on Sunday, January 22 from 7:30 p.m. to 8:30 p.m., CST.

Subject matter experts from ESTA's Control Protocols Working Group will share their knowledge on these topics, and attendees will have the opportunity to ask questions and obtain answers from the CPWG members that authored the standards. This is an extraordinary opportunity to take advantage of the knowledge and experience of the CPWG, one of the Technical Standards Program's largest working groups.

Registration for either round-table may be made by sending an email to plugfest@esta.org. Registration is limited. Instructions for logging into WebEx will be emailed to all pre-registered attendees a few days before the live broadcast. Qualified attendees may also receive 0.5 ETCP renewal credit for each session hour.

More information about the ESTA Plugfest is available at www.estalink.us/plugfest. To contact the event's organizers please email plugfest@esta.org. To test your personal computer and internet link ahead of the broadcast please go to: https://www.webex.com/test-meeting.html.

FCC Issues Consumer Alert

The FCC has issued an alert for people to beware of Debt Collection and Other Financial Service Scams, particularly during the post-holiday bill-paying season. The FCC has received a growing number of complaints from consumers about scammers claiming that they can offer debt relief or refinancing opportunities to reduce account balances or interest rates. Some of these callers falsely claim to be monitoring the consumer's credit or loan payment history. The victim is illegally asked for credit card numbers or personally identifiable information then is threatened, harassed, or intimidated if they refuse to comply with the scammer's demands. These scammers then attempt to use the account information to make unauthorized purchases or access funds for fraudulent purposes.

The FCC advises, if you are unclear if a caller is legitimate, hang up, look up the company's phone number independently on your recent statement or their legitimate website, and contact them through an official number, web form, or email address to see if they called you. By initiating the communication yourself, you can verify that the request for payment is legitimate. In addition, the FCC advises people not to answer calls from unknown numbers. Let them go to voicemail. If you do answer and the robotic caller asks you to press a key to stop future calls, don't. Hang up. Scammers often use this trick to target live respondents.

FCC Announces Tentative Agenda for January Open Meeting

Federal Communications Commission Chairman Tom Wheeler announced an agenda item (one!) for the January Open Commission Meeting scheduled for Tuesday, 31January 2017. That item is to consider a Report and Order that would eliminate the requirement that commercial broadcast stations retain copies of letters and emails from the public in their public inspection file and the requirement that cable operators retain the location of the cable system's principal headend in their public inspection file.

The Open Meeting is scheduled to commence at 10:30 a.m. in Room TW-C305 of the Federal Communications Commission, 445 12th Street, S.W., Washington, D.C. You can watch a live web-cast of the meeting at https://www.fcc.gov/news-events/events/2017/01/january-2017-open-commission-meeting.

National Electrical Code Errata Published, TIAs Adopted

The National Fire Protection has published errata documents correcting errors in the 2017 National Electrical Code, NFPA 70. The clauses and tables affected are clause 210.12, the clause 300.4 Informational Note, Table 310.104(A), clause 424.99(B), clause 690.15, Table 725.154, Table 760.154, and clause 840.3(G). The errata documents are available on the "Current & Prior Editions" tab at http://estalink.us/0ggvp.

Several Tentative Interim Amendments have been adopted for the 2017 edition. They deal with clauses 625.44(A), 625.54(New), 625.56(New), and 690.56(C). They also are available on the "Current & Prior Editions" tab at http://estalink.us/0ggvp.

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.

Mexico Notification MEX/337

Date issued: 19 December 2016

Agency responsible: Ministry of Economy

National inquiry point: Direccion General de Normas (DGN)

Products covered: Primary cells and primary batteries (tariff heading 85.06)

Title: Draft Mexican Official Standard PROY-NOM-212-SCFI-2016: Primary cells and primary batteries - Maximum permissible mercury and cadmium limits - Specifications, test methods and labelling (12 pages, in Spanish)

Description of content: Cells and batteries have evolved since they were first created. For a time, they were made with mercury to prevent the build-up of internal gases, the leakage of materials from their casing, and the possibility of them exploding. Since the beginning of the 1990s, technology has made it possible to eliminate the use of mercury and cadmium in batteries—a change that has been implemented by formal industry. In Mexico, all batteries are imported, i.e. none are manufactured domestically, and it is therefore impossible to control or guarantee the type of technology used to produce the range of battery brands consumed throughout national territory.

One type of battery, the mercuric oxide button cell, the main component of which is mercury (32% of its total weight), has been replaced by new forms of button cell; however, it is possible that this type of battery continues to be manufactured in some parts of the world.

Lead-acid batteries are commonly associated exclusively with motor vehicle batteries, and yet they are now used in other areas such as lighting (rechargeable lamps) and recreation, and in large toys such as

electric ride-ons. At the end of their useful life, these batteries are considered to be hazardous waste and are subject to the regulations concerning such waste.

Establishing a measure to control the manufacture and import of batteries will ensure that batteries marketed in Mexico have a mercury and cadmium content that poses no threat to human health and the environment.

Objective and rationale: The notified draft Mexican Official Standard establishes and defines the characteristics of cells and batteries, their classification by electrochemical system technology, maximum permissible mercury and cadmium limits, and battery labeling requirements. It is applicable to the primary cells and batteries imported into and marketed in national territory that are listed in Table 1 of the text. It does not cover cells and batteries marketed as part of an electronic or electrical product, i.e. any cells and batteries contained in an electrical or electronic device that are required for its functioning.

Relevant documents: Mexican Official Standard NOM-050-SCFI-2004: Información comercial - Etiquetado general de productos (Commercial information - General product labeling), published in the Official Journal on 1 June 2004. Mexican Standard NMX-J-160/1-ANCE-2013: Pilas eléctricas - parte 1: requisitos generales (Electric batteries - Part 1: General requirements) (cancels Mexican Standard NMX-J-160/1-ANCE-2005). Notice of entry into force published in the Official Journal on 28 October 2013.

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

Final date for comments: 11 February 2017

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX337(spanish).pdf

United States of America Notification USA/1252

Date issued: 9 January 2017

Agency responsible: Colorado Department of Public Health and Environment, Air Quality Control

Commission

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Wood burning appliances

Title: Sale and Installation of Wood-Burning Appliances (49 pages, in English)

Description of content: This rulemaking considers revisions to Regulation Number 4 that reestablish a new wood stove definition and clarify that testing, certification and labeling requirements apply to new wood stoves on a state-wide basis and to used wood stoves only along the Front Range, as required by statute.

Objective and rationale: Protection of the environment

1Relevant documents: 5 Code of Colorado Regulations 1001-6: http://estalink.us/4xixi6

16 December 2016 Code of Colorado Regulations Proposed Rule Notice: http://estalink.us/lydqy

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

Final date for comments: 1 March 2017

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/USA/full_text/pdf/USA1252(english).pdf

El Salvador Notification SLV/194

Date issued: 4 January 2017

Agency responsible: Salvadorian Technical Regulation Agency (OSARTEC)

National inquiry point: Ministry of the Economy, Directorate of Trade Treaty Administration

Products covered: Three-phase squirrel-cage AC induction motors

Title: Salvadorian Technical Regulation (RTS) 29.01.01:15: Energy efficiency. Three-phase squirrel-cage AC induction motors with a rated output of 0.746 to 373 kW. Limits, test method and labelling (49 pages, in Spanish)

Description of content: The notified text establishes rated efficiency values and associated minimum efficiency ratings, the test method for assessing these values and ratings, approval criteria, and specifications concerning the minimum amount of information that is to appear on the plates of open- and closed-loop three-phase squirrel-cage electric AC induction motors with a rated output of 0.746 kW to 373 kW.

Objective and rationale: This Salvadorian Technical Regulation seeks to ensure that open- and closed-loop three-phase squirrel-cage electric AC induction motors with a rated output of 0.746 kW to 373 kW meet energy efficiency requirements, so as to help reduce energy bills and greenhouse gas emissions, and protect the environment, human health and consumers.

Relevant documents: Mexican Official Standard NOM-016-SECRE-2010: Eficiencia energética de motores de corriente alterna, trifásicos, de inducción, tipo jaula de ardilla, en potencia nominal de 0,746 a 373 kW.

Límites, método de prueba y marcado (Energy efficiency of three-phase squirrel-cage AC induction motors with a rated output of 0.746 to 373 kW. Limits, test method and marking)

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

Final date for comments: 5 March 2017

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/SLV/full_text/pdf/SLV194(spanish).pdf

Ukraine Notification UKR/117

Date issued: 6 January 2017

Agency responsible: State Agency of Energy Efficiency and Energy Conservation of Ukraine

National inquiry point: WTO National Enquiry Point & Information Processing Centre

Products covered: Buildings and structures

Title: The Draft Law of Ukraine "On basic requirements for buildings and structures, as well as conditions of placing on the market of construction products, harmonized with the legislation of the European Union" **Description of content**: The Draft Law establishes basic requirements to buildings and structures during all product life circle and technical testing procedures of construction products for their placing on the market, to subjects, participating in technical testing procedures and declaration in the sphere of construction. The Draft is developed with the purpose of implementation provisions of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EEC Text with EEA relevance.

Objective and rationale: Quality requirements

Relevant documents: The Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonized conditions for the marketing of construction products and repealing Council Directive 89/106/EEC Text with EEA relevance.

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

Final date for comments: 7 March 2017

Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/UKR/full_text/pdf/UKR117(ukrainian).pdf

ANSI Public Review Announcements

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

Due 13 February 2017

BSR Z21.89-201x, **Outdoor Cooking Specialty Gas Appliances** (same as CSA 1.18-201x) (revision of ANSI Z21.89-2007 (R2012))

Details test and examination criteria for portable outdoor specialty gas appliances, (fryer/boiler, smoker, tabletop grill, or any combination). Appliance may be connected to a fixed fuel piping system or self-contained liquefied petroleum gas or propane gas supply system of a single cylinder with a maximum size of 20 pounds (9.1 kg) of fuel.

Single copy price: Free

Order from and send comments to: Cathy Rake, cathy.rake@csagroup.org

BSR Z21.97-201x, **Outdoor Decorative Gas Appliances** (same as CSA 2.41 -201x) (revision of ANSI Z21.97-2014)

Decorative gas appliances for outdoor installation for use with natural gas and propane. For connection to a fixed fuel piping system, or an integral self-contained propane gas supply system, provided the appliance incorporates mounting means for the attachment of a maximum of two cylinders, or to a remote self-contained propane gas supply system. These requirements apply to appliances operating at inlet gas pressures not exceeding 1/2 psig (3.5 kPa).

Single copy price: Free

Order from and send comments to: Cathy Rake, cathy.rake@csagroup.org

Due 20 February 2017

BSR/AWS C4.2/C4.2M-201X, Recommended Practices for Oxyfuel Gas Cutting Torch Operation (revision of ANSI/AWS C4.2/C4.2M-2009)

These recommended practices for oxyfuel gas cutting include the latest procedures to be used in conjunction with oxyfuel gas cutting equipment and the latest safety recommendations. Complete lists of equipment are available from individual manufacturers.

Single copy price: \$38.00

Order from: Jennifer Rosario, jrosario@aws.org

Send comments to: adavis@aws.org

BSR/EIA 364-31E-201x, Humidity Test Procedure for Electrical Connectors and Sockets (revision and redesignation of ANSI/EIA 364-31D-2014)

The purpose of these tests is to evaluate materials and/or connector/socket assemblies as they are impacted by the effects of high humidity and heat. These tests are intended to be noncondensing.

Single copy price: \$78.00

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

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

BSR/ICC/ASHRAE 700-201x, National Green Building Standard (revision of ANSI/ICC/ASHRAE-700-2015)

The provisions of this standard shall apply to design and construction of the residential portions of any building, not classified as an institutional use, in all climate zones. This standard shall also apply to subdivisions, building sites, building lots, accessory structures, and the residential portions of alterations, additions, renovations, mixed-use buildings, and historic buildings. Apply for committee at www.homeinnovation.com/ngbs.

Single copy price: \$19.95 (paper), free download Order from: https://www.builderbooks.com

Send comments to: http://www.homeinnovation.com/ngbs

BSR/ISA 95.00.07-201x, Enterprise-Control System Integration - Part 7: Alias Service Model (new standard)

The Part 7 standard in the ISA-95 series defines a set of services definitions that are designed to provide the functionality needed for a vendor independent method for translating identifiers across different namespaces. Single copy price: \$99.00

Order from and send comments to: Charles Robinson, crobinson@isa.org

BSR/ISA 96.03.04-201x, Guidelines for the Specification of Linear Piston Pneumatic Actuators (new standard)

This standard provides general requirements for the development of specifications for piston-type linear pneumatic valve actuators.

Single copy price: \$50.00

Order from and send comments to: Eliana Brazda, ebrazda@isa.org

Australian & New Zealand Standards Announcements

Standards Australia has announced some draft standards that may be of interest to *Standards Watch* readers. Most of these are identified as Australian or Australian/New Zealand standards, but they are adoptions with modifications of IEC standards. Standards Australia's drafts open for comment may be accessed at https://hub.standards.org.au/hub/public/listOpenCommentingPublication.action by anyone after creating a free account.

Due 13 February 2017

AS 62052.31, Electricity metering equipment (AC) - General requirements, tests and test conditions - Part 31: Product safety requirements and tests

Due 24 February 2017

AS/NZS 60598.2.21, Luminaires - Part 2.21: Particular requirements - Rope lights (IEC 60598-2-21, Ed 1.0 (2014) MOD

AS/NZS 61347.1-2016 Amd 1, Lamp controlgear - Part 1: General Requirements and tests (IEC 61347-1, Ed 3.0 (2015) MOD)

AS/NZS 60598.2.20, Luminaires - Part 2.20: Particular requirements - Lighting chains (IEC 60598-2-20, Ed 4.0 (2014) MOD

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 February 2017

CAN/CSA-C22.2 No. 62841-3-9:16 Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety Part 3-9: Particular requirements for transportable mitre saws (Amendment)

This is a proposed amendment to CAN/CSA-C22.2 No. 62841-3-9:16 - Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery – Safety Part 3-9: Particular requirements for transportable mitre saws.

Due 13 February 2017

C83 Communication and Power line Hardware (New Edition)

This standard covers the general requirements for hardware used in the construction of communication lines and power lines including distribution and transmission lines.

Due 14 February 2017

C22.1 C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4172, Revisions to Rule 12-2202, conductors and cables in cable trays. (Amendment)

Draft Amendment to C22.1, 12-2202 Conductors and cables in cable trays.

Due 17 February 2017

C22.2 No. 89-15 Swimming-pool luminaires, submersible luminaires, and accessories (Amendment)

This is a proposed amendment to C22.2 No. 89-15 - Swimming-pool luminaires, submersible luminaires, and accessories.

Due 19 February 2017

C22.2 No. 245 Marine shipboard cable (New Edition)

This Standard specifies the requirements for distribution (power), control, and signal cables, for use aboard marine vessels and fixed and floating offshore drilling or production platforms, that are

- a) rated up to 35 kV (AC or DC, phase-to-phase) maximum;
- b) in single or multi-conductor constructions;
- c) with or without metal armour; and
- d) with or without an overall jacket.

Cables rated up to 1 kv ac can be rated at 2.8 kV dc.

C22.2 No. 184.1-15 Solid-state dimming controls (Amendment)

This is a proposed amendments for C22.2 No. 184.1-15 - Solid-state dimming controls. Summary of topics: The following changes in requirements to the Standard for Solid-State Dimming Controls, UL

1472, are being proposed for preliminary review and comment only:

1. For Preliminary Review Only: Addition of 347 VAC Synthetic Load Characteristics to Represent Electronic Ballasts and Self- Ballasted Lamps

- 2. For Preliminary Review Only: Editorial Correction of Clause 5.10.2 to Correct Figure Number Reference and Re-naming of Figure 4
- 3. For Preliminary Review Only: Clarification of Lamp Compatibility Information Provided in Clause 7.1.8
- 4. For Preliminary Review Only: Addition of Abbreviation "ELF" Denoting "Electronic Fluorescent Ballast" Light Load to Table 15

Due 27 February 2017

C22.1, Amendment - Canadian Electrical Code, Part I Subject No. 4168, Class 2 power and data communication circuits

Subject No. 4168, Class 2 power and data communication circuits

Due 4 March 2017

Z91 Health and Safety Code for Suspended Equipment Operations (New Edition)

This standard includes requirements for the safe operation of various types of suspended equipment used to gain access to interior or exterior, or both, sides of buildings or structures. Much of the equipment referred to in this standard is designed, installed, inspected, and tested in accordance with CSA Z271. It does not include crane-suspended platforms or baskets (see CAN/CSA-Z150), multi-point bridge platforms, or hanging scaffolds.

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/INFOCOMM V201.01-201x, Projected Image System Contrast Ratio (revision and redesignation of ANSI/INFOCOMM 3M-2011)

This standard defines audiovisual system contrast ratio and its measurement. It applies to both permanently installed systems and live events. This standard defines contrast ratio based on content viewing requirements. System contrast ratio refers to the image as it is presented to viewers in a space with ambient light. Practical metrics to measure and validate the defined contrast ratios are provided.

Contact: Michelle Streffon, mstreffon@infocomm.org

BSR X9.135-201x, Secret Sharing Schemes (new standard)

Secret sharing schemes includes cryptographic methods for distributing a secret amongst a group of participants, such that no one person has access to the secret. Each participant is allocated a share of the secret, so that, working in concert, some subgroup can recreate the secret, such as a symmetric key or asymmetric private key. Secret sharing is an important "dual control with split knowledge" security method, commonly referred to as an "N of M" scheme. Where N < M, the secret is split into M shares but only N participants are needed to recreate the secret. While there is a vast amount of academic research and proprietary implementations of secret sharing schemes, there are no known industry standards. Consequently, there are two primary areas of concern – cryptographic strength and operational security. Cryptographic strength includes mathematical equation complexity, acceptable algebraic parameters, and N or M thresholds. Operational security includes share creation, distribution, storage, and protection mechanisms. Contact: Ambria Frazier, Ambria.frazier@x9.org

BSR C137.0-201x, Standard for Lighting Systems Terms and Definitions (new standard)

The definitions listed in this document apply or are directly related to lighting systems and are used in multiple lighting system standards. This standard is intended for use by lighting systems standards developers. The terms found in this document are recommended for use in all ANSI C137 lighting system standards. Where this document does not include a term, other references are listed.

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 Z359.6-2016, Specifications and Design Requirements for Active Fall Protection Systems (revision of ANSI ASSE Z359.6 -2009): 21 December 2016

ANSI/AWS C1.4M/C1.4-2017, Specification for the Resistance Welding of Carbon and Low-Alloy Steels (revision of ANSI/AWS C1.4M/C1.4-2009): 3 January 2017

ANSI/TIA 607-C-1-2016, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises - Addendum 1: Bonding in Multitenant Buildings (addenda to ANSI/TIA 607-C -2015): 27 December 2016

INCITS/ISO/IEC 13818-4:2004/AM3:2009 [R2016], Information technology - Generic coding of moving pictures and associated audio information - Part 4: Conformance testing - Amendment 3: Level for 1080@50p/60p conformance testing (reaffirmation of INCITS/ISO/IEC 13818-4:2004/AM3:2009 [2011]): 19 December 2016

INCITS/ISO/IEC 13818-6:1998/AM1:2000 [R2016], Information technology - Generic coding of moving pictures and associated audio info - Part 6: Extensions for DSM-CC - Amendment 1: Additions to support data broadcasting (reaffirmation of INCITS/ISO/IEC 13818-6-1998/AM1-2000 [R2011]): 19 December 2016

INCITS/ISO/IEC 14495-1:2000 [R2016], Information technology - Lossless and near-lossless compression of continuous-tone still images: Baseline (reaffirmation of INCITS/ISO/IEC 14495-1-2000 [R2011]): 19 December 2016

INCITS/ISO/IEC 14496-4:2004 [R2016], Information technology - Coding of audio-visual objects - Part 4: Conformance testing (reaffirmation of INCITS/ISO/IEC 14496-4-2004 [R2011]): 15 December 2016

INCITS/ISO/IEC 14496-6:2000 [R2016], Information technology - Coding of audio-visual objects - Part 6: Delivery Multimedia Integration Framework (DMIF) (reaffirmation of INCITS/ISO/IEC 14496-6-2000 [R2011]): 15 December 2016

INCITS/ISO/IEC 14496-4:2004/AM30:2009 [R2016], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 30: Conformance testing for new profiles for professional applications (reaffirmation of INCITS/ISO/IEC 14496 -4:2004/AM30:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-4:2004/AM31:2009 [R2016], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 31: Conformance testing for SVC profiles (reaffirmation of INCITS/ISO/IEC 14496-4:2004/AM31:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-4:2004/AM35:2009 [R2016], Information technology - Coding of audio-visual objects - Part 4: Conformance testing - Amendment 35: Simple studio profile levels 5 and 6 conformance testing (reaffirmation of INCITS/ISO/IEC 14496 -4:2004/AM35:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-5:2001/AM14:2009 [R2016], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 14: Open Font Format reference software (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM14:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-5:2001/AM19:2009 [R2016], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 19: Reference software for Scalable Video Coding (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM19:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-5:2001/AM20:2009 [R2016], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 20: MPEG-1 and -2 on MPEG-4 reference software (reaffirmation of INCITS/ISO/IEC 14496 -5:2001/AM20:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 14496-5:2001/AM21:2009 [R2016], Information technology - Coding of audio-visual objects - Part 5: Reference software - Amendment 21: Frame-based Animated Mesh Compression reference software (reaffirmation of INCITS/ISO/IEC 14496-5:2001/AM21:2009 [2011]): 15 December 2016

INCITS/ISO/IEC 15444-8:2007/AM1:2008 [R2016], Information technology - JPEG 2000 image coding system: Secure JPEG 2000 - Amendment 1: File format security (reaffirmation of INCITS/ISO/IEC 15444-8:2007/AM1:2008 [2011]): 19 December 2016

Draft IEC & ISO Standards

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

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/DAmd191, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 191: Safety sign M050: Alighting from toboggan to the left - 21 January 2017, \$29.00

ISO 7010/DAmd192, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 192: Safety sign M051: Alighting from toboggan to the right - 21 January 2017, \$29.00

ISO 7010/DAmd193, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 193: Safety sign M052: Keep distance between toboggans - 21 January 2017, \$29.00

ISO 7010/DAmd195, Graphical symbols - Safety colours and safety signs - Registered safety signs - Amendment 195: Safety sign P046: Do not stretch out of toboggan - 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/IEC DIS 17025, General requirements for the competence of testing and calibration laboratories - 21 January 2017, \$93.00

110/824/CD, **IEC 62595-2-2 ED1:** Display lighting unit - Part 2-2: Measuring methods of LED light bars used in LCD BLUs, 24 February 2017

ISO/DIS 19650-2, Organization of information about construction works - Information management using building information modelling - Part 2: Delivery phase of assets – 12 March 2017, FREE

ISO/DIS 10006, Quality management systems - Guidelines for quality management in projects – 19 March 2017, \$107.00

ISO/DIS 37153, Smart community infrastructures - Maturity model for assessment and improvement – 19 March 2017, \$93.00

100/2817/CDV, IEC 63029: Audio, video and multimedia systems and equipment - Multimedia e-publishing and e-book technologies - Raster-graphics image-based e-books, 24 March 2017

100/2820/CDV, IEC 62680-1-2 Ed2: Universal Serial Bus interfaces for data and power - Part 1-2: Common components - USB Power Delivery Specification (TA14), 24 March 2017

TSP Meeting Schedule

The January 2017 LDI meetings will take place at the Marriott Solana in Westlake, TX. The March meetings will be at the Marriott St. Louis Grand in conjunction with the USITT Conference and Stage Expo. The most up to date schedule can be found on the ESTA website at http://tsp.esta.org/tsp/meetings/index.php.

Control Protocols 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
	10:00 – 18:00	Monday 23 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
Event Safety Fire Task Group	09:00 – noon	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 BSR E1.56 Rigging Point TG	09:00 – 13:00	Friday 20 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

Investors in Innovation

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

Chauvet Professional

Columbus McKinnon Entertainment Technology

ETC

Martin Professional

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

Altman Lighting, Inc. German Light Products

High End Systems

JR Clancy

McLaren Engineering Group

ProSight Specialty Insurance

United States Institute for Theatre Technology

Stage Rigging

VER

Tyler Truss Systems, Inc.

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

B-Hive Industries, Inc.

Scott Blair

Boston Illumination group

Candela Controls Inc.

Clark Reder Engineering

Tracey Cosgrove & Mark McKinney

EGI Event Production Services Entertainment Project Services

Neil Huff

Hughston Engineering Inc.

Jules Lauve

Brian Lawlor

Limelight Productions, Inc.

John T. McGraw

Mike Wood Consulting

Reed Rigging

Reliable Design Services

Alan Rowe

Sapsis Rigging Inc.

Dana Taylor Steve Terry

Theatre Projects
Theatre Safety Programs

Steve A. Walker & Associates

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

Barbizon Electric

Golden Sea Professional Equipment Limited

_ex

Rosco Laboratories Texas Scenic Company

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

American Society of Theatre Consultants

City Theatrical Inc.

InterAmerica Stage, Inc.

Lycian Stage Lighting

Niscon Inc.

XSF Xtreme Structures and Fabrication

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

Benjamin Cohen Tony Giovannetti

Indianapolis Stage Sales & Rentals, Inc.

Jason Kyle Eric Loader LuciTag Lumenradio AB Nudelta Digital

Project SSSHH Incorporated

Stageworks
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

H&H Specialties

InCord

Oasis Stage Werks

Stage Equipment & Lighting

TOMCAT

Vincent Lighting Systems

(table continues)

Investors in Innovation (continued)

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

About the Stage
Milton Davis
Pat Grenfell
Mitch Hefter
Hoist Sales and Services
Beverly and Tom Inglesby

Beverly and Tom Inglesby Intensity Advisors Eddie Kramer Michael Lay Niscon Inc.
Robert Scales
Charles Scott
Serapid
Skingberg Contr.

Skjonberg Controls Inc.

Teclumen

Theta Consulting
Tracy Underhill
Ken Vannice

ESTA Standards Watch

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