



Technical Standards Program

ESTA Standards Watch

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Four ESTA Standards Available for Review

Four documents are available for public review on the ESTA website at http://tsp.esta.org/tsp/documents/public_review_docs.php. People materially affected by the standards are invited to review them and to comment on them. Two of the documents are reaffirmations of existing standards; one is a proposed new standard; and one is a revision of an existing standard. The documents are:

ANSI E1.5, Theatrical Fog Made with Aqueous Solutions of Di- and Trihydric Alcohols

ANSI E1.5 – 2009, last reaffirmed in 2014, is being considered for reaffirmation. This standard describes the composition of theatrical fogs or artificial mists that are not likely to be harmful to healthy performers, technicians, or audience members of normal working age. It is limited to those fogs and mists made from a

solution of water and one or more dihydric or trihydric alcohols, and is intended to be applied in theatres, arenas, and other places of entertainment or public assembly. The review runs through September 24; please comment before September 25 starts.

ANSI E1.29, Product Safety Standard for Theatrical Fog Generators that Create Aerosols of Water, Aqueous Solutions of Glycol or Glycerin, or Aerosols of Highly Refined Alkane Mineral Oil

ANSI E1.29 – 2009, previously reaffirmed in 2014, is being considered for reaffirmation. The standard is intended to help guide product safety testing laboratories in evaluating fog-making equipment for design or construction defects that might create unacceptable hazards. It is based on UL 998 - 2006, Humidifiers, with modifications. Products covered are theatrical fog generators intended for use in professional theatrical entertainment, film and video production, theme parks, and fire safety training. The review runs through September 24; please comment before September 25 starts.

BSR E1.62, Minimum specifications for mass-produced portable platforms, ramps, stairs, and choral risers for live performance events

This proposed new standard covers mass-produced portable platforms, stair units and ramps used with those platforms, and choral risers, designed to be used for the presentation of music concerts, dramatic plays, fashion shows, and other entertainment and special events. The units covered by this standard are of a size and weight that allows them to be moved and erected by one or two people. The review runs through September 24; please comment before September 25 starts.

BSR E1.6-1, Powered Hoist Systems

ANSI E1.6-1 – 201x, Entertainment Technology – Powered Hoist Systems, last approved in 2012, is being revised. This document establishes requirements for the design, manufacture, installation, inspection, and maintenance of powered hoist systems for lifting and suspension of loads for performance, presentation, and theatrical production. This standard does not apply to the structure to which the hoist is attached, to the attachment of loads to the load carrying device, to systems for flying people, to welded link chain hoists, or to manually powered hoists. The review runs through October 22; please comment before October 23 starts.

Three New ESTA Standards Projects

Three new standards-drafting projects have been filed with ANSI. Two are completely new projects, and one is a revision of an existing standard. The completely new projects are:

BSR E1.65, Recommended practice for the periodic inspection, testing, and maintenance of Electrical and Electronic equipment used in the entertainment and live event industries

This standard will establish the minimum requirements for periodic inspection and maintenance of electrical systems and equipment used in the entertainment and live event industries. It is intended to complement, not replace, the guidance offered in NFPA 70E, NFPA 70B, NFPA 78, and equipment manufacturer's instructions. It also will assist in identifying the qualifications required for personnel to perform the inspections competently. This is an Electrical Power Working Group project.

BSR E1.66, Safety Standard for Followspot Positions Erected for Short-term Use in Outdoor Entertainment Venues

The standard will provide minimum specifications for followspot positions erected for short-term use in entertainment venues. These followspot positions are intended to support followspot luminaires and their operators in outdoor locations. The standard will specify provisions for safe worker access, fall protection, protection from weather, and protection from falling objects for workers and members of the public. It also will suggest the power supply requirements. This is a Followspot Position Working Group project.

The revision project is:

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

The standard covers specifications for the primary and secondary mounting devices for portable stage and studio luminaires and accessories. It also covers the mounting of these devices for special effects equipment (e.g. fog machines and bubble machines) that are often mounted along with lighting equipment on trusses and

rigging system battens. The standard gives guidance on how to properly affix these mounting devices. The existing standard is being revised because the "safe working load" and "working load limit" marking requirements need clarification. The current mandatory language cannot fit legibly on some rated primary and secondary suspension devices. This is an Electrical Power Working Group project.

People who might be materially affected by these projects are invited to be involved in the work, either by joining the appropriate working group or by commenting on the documents in forthcoming public reviews. In general, the Electrical Power and Followspot Position working groups are looking for people, organizations, or companies who would be members of the following interest categories:

Electrical Power Working Group: designers, custom-market producers

Followspot Position Working Group: custom-market producers, dealer/rental companies, general interest.

ESTA/LSA Shared Office Available

Lighting&Sound America/PLASA is looking for someone to join them and ESTA in their New York City offices, starting mid-September or 1 October 2018. The term of the lease is negotiable. Theatre and entertainment industry companies or individuals are preferred, but other tenants will be considered.

Address: 630 Ninth Avenue (Film Center Building), Suite 609, New York, NY 10036

Contact: 1-212-244-1505 ext. 712, LSA@plasa.org

Three private offices with windows, fully furnished and carpeted: \$5,800 per month for all three or individually:

- Office one: 11'6" x 16'8" = 192 square ft. (\$2,950 per month)
- Office two: 11'6" x 8'7" = 100 square ft. (\$1,550 per month)
- Office three: 11'6" x 6'8" = 77 square ft (\$1,450 per month)

Reasonable use of general office, includes:

- VOIP phone system
- Wi-Fi
- Conference room
- Copier,/scanner/fax
- Kitchen area (refrigerator, water cooler, microwave, eating table)
- Central air conditioning & heating

Interested? Please contact LSA as soon as possible at 1-212-244-1505 ext. 712 or email LSA@plasa.org!

FCC Solicits Nominations for Disaster Response and Recovery Working Group

The Federal Communications Commission is soliciting nominations for membership on a new Disaster Response and Recovery Working Group of the Broadband Deployment Advisory Committee (BDAC). This working group will assist the BDAC in providing advice and recommendations to the Commission on steps that can be taken to improve disaster preparation, response, and recovery for broadband infrastructure. Nominations for membership to the BDAC's Disaster Response and Recovery Working Group should be submitted to the FCC no later than 7 September 2018. Procedures for submitting nominations are set forth in the Public Notice available at <https://docs.fcc.gov/public/attachments/DA-18-837A1.pdf>.

Haiku Competition for ANSI's 100th Anniversary

In celebration of the 100th anniversary of its founding in 1918, the American National Standards Institute invites everyone in the standardization community to create a haiku that distills the essence of a voluntary standard to just 17 syllables. ANSI is collecting original submissions now through 19 October 2018. Winners will be selected in five categories: technically relevant, funny, traditional, poetic/beautiful, and overall best haiku.

Why a haiku? A haiku is actually a standard. It's an agreed-upon specification for a particular form of poetry—traditionally a Japanese three-line poem with 17 syllables, written in a 5/7/5 syllable form. (Haiku guidance is available at <https://www.poets.org/poetsorg/text/haiku-poetic-form>.)

Submissions must identify the specific standard referenced alongside the haiku, and provide ANSI with your name and organization. Send your submission (or submissions) in the body of an email or as a Word document to pr@ansi.org by 19 October 2018.

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 the TBTs, 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/429

Date issued: 9 August 2018

Agency responsible: Ministry of Energy (SENER)

National inquiry point: Direccion General de Normas (DGN)

Products covered: Electrical installations

Title: Proyecto de Norma Oficial Mexicana PROY-NOM-001-SEDE-2018, Instalaciones eléctricas (utilización) (Draft Mexican Official Standard PROY-NOM-001-SEDE-2018, Electrical installations (use)) (1167 pages, in Spanish)

Description of content: The notified draft Mexican Official Standard applies to the use of electrical installations operating at any voltage level and for the following purposes: (a) Public and private industrial, commercial and residential premises, regardless of their use, including those used for electrical equipment connected by users; (b) Installations in buildings used by supply companies, such as office buildings, warehouses, car parks, mechanical workshops and buildings used for leisure purposes, which are not an integral part of a power plant or substation; (c) Mobile homes, leisure vehicles, floating structures, fairs, circuses and exhibitions, parking areas, workshops, meeting areas, health facilities, agricultural buildings, marinas and wharves; (d) All user installations situated outside buildings; (e) Fixed wiring for telecommunications, signalling, control and similar purposes (excluding the internal wiring of apparatus); (f) The extension or modification of installations and the parts of existing installations affected by such extensions or modification. (g) Electrical installations of users that are connected to:
(1) General transmission networks; (2) General distribution networks; (3) Stand-alone systems; (4) Individual electric power supply systems; or (5) Any other electrical power source.

(h) Private networks supplying electrical power to cargo centres.

The notified draft Mexican Official Standard is limited to the selection and suitability of electrical equipment for installation.

It does not apply to: (a) Electrical installations on vessels and watercraft that are not floating buildings; (b) Installations on railway rolling stock, aircraft, electrical public transport units and motor vehicles that are not mobile homes or leisure vehicles; (c) Electrical installations for electrical public transport systems in terms of the generation, transformation, transmission or distribution of electrical power used exclusively for the operation of rolling equipment or signalling and communication installations; (d) Electrical installations in underground mining areas, and self-propelled mobile machinery for surface mining, and the supply cables for such machinery; (e) Installations involving communications equipment that are controlled exclusively by enterprises providing public communications services, which are located outdoors or inside buildings used exclusively for such installations; (f) Installations controlled by electricity enterprises, such as:
(1) Aerial or lateral connections and the relevant meters, which are not the property of users; (2) Installations belonging to or under the control of an electricity company for the purpose of communications, measurement, generation, control, transformation, transmission or distribution of electrical power; or (3) Installations recognized by other control agencies with jurisdiction for such installations, such as the Energy Regulatory Commission.

NOTE: Public service enterprises are required to comply with the standards issued by the competent agencies.

Objective and rationale: The notified draft Mexican Official Standard aims to establish the technical specifications and guidelines to be met by electrical installations, in order to provide appropriate safety conditions for individuals and their property, in terms of protection against:

- Electric shocks; - Thermal effects; - Overcurrents; - Fault currents; and - Voltage disturbances.

Compliance with the provisions contained in the notified draft Mexican Official Standard promotes the safe use of electrical power. This standard does not intend to serve as a design guide or an instruction manual for unqualified individuals.

Relevant documents:

- Mexican Official Standard NOM-008-SCFI-2002, Sistema General de Unidades de Medida;
- Mexican Official Standard NOM-063-SCFI-2001, Productos eléctricos-Conductores-Requisitos de seguridad;
- Mexican Standard NMX-J-098-ANCE-2014, Sistemas eléctricos - Tensiones Eléctricas Normalizadas.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 4 October 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429\[1\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429[1](spanish).pdf), [https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429\[2\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429[2](spanish).pdf), [https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429\[3\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/MEX/full_text/pdf/MEX429[3](spanish).pdf)

Argentina Notification ARG/340

Date issued: 9 August 2018

Agency responsible: Secretariat of Trade

National inquiry point: Dirección Nacional de Comercio Interior (DNCI)

Products covered: Steel wire ropes; Steel wire, wire ropes and link chains

Title: Proyecto de Resolución "Requisitos técnicos de calidad y seguridad que deben cumplir los cables de acero. Certificación" (Draft Resolution "Technical quality and safety requirements for steel wire ropes. Certification") (7 pages, in Spanish)

Description of content: The notified draft Resolution establishes the technical quality and safety requirements, in accordance with ISO 2408, for steel wire ropes marketed within the territory of the Argentine Republic.

The measure will apply to the products covered by the ISO standard indicated, except steel wire cables for the fishing and petroleum and gas industries.

Domestic manufacturers and importers shall ensure compliance with the established technical requirements through the certification of the aforementioned products, in accordance with the procedure established in the draft text.

Once it enters into force, the notified measure will be implemented according to the time frame set out therein.

Objective and rationale: Protection of human health and safety; Quality requirements; Appropriate guidance for consumers, users and marketers through the identification of certified products.

Relevant documents: Updated and consolidated reference texts

- Resolución ex SICyM N° 799/1999 <http://servicios.infoleg.gob.ar/infolegInternet/anexos/60000-64999/60905/norma.htm>;
- Resolución ex SDCyC N° 237/2000 <http://servicios.infoleg.gob.ar/infolegInternet/verNorma.do?id=64739>;
- Resolución ex SCT N° 197/2004 <http://servicios.infoleg.gob.ar/infolegInternet/anexos/100000-104999/102759/norma.htm>.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 18 October 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG340\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG340(spanish).pdf)

Chile Notification CHL/456

Date issued: 15 August 2018

Agency responsible: Electricity and Fuel Board (SEC)

National inquiry point: Ministry of Foreign Affairs, General Directorate of International Economic Affairs (DIRECON)

Products covered: Adapters for plugs

Title: PE N° 3/10 2018 Proyecto de Protocolo Base de Análisis y/o Ensayos de Seguridad de Producto Eléctrico (PE No. 3/10 2018: Draft safety analysis and/or test protocol for electrical products) (11 pages, in Spanish)

Description of content: The notified protocol establishes the certification procedure for adapters for plugs, in accordance with the scope and field of application of International Electrotechnical Commission (IEC) Standard No. 60884-2-5:2017:05.

Objective and rationale: Safety

Relevant documents:

- IEC 60884-2-5:2017:05 Plugs and socket-outlets for household and similar purposes - Part 2-5: Particular requirements for adaptors;
- IEC 60884-1:2010 Household and similar electrical appliances - Safety - Part 1: General requirements;
- Ley N° 18.410 de 1985, del Ministerio de Economía, Fomento y Reconstrucción;
- Decreto Supremo N° 298, de 2005, del Ministerio de Economía, Fomento y Reconstrucción.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 14 October 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL456\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL456(spanish).pdf)

Argentina Notification ARG/341

Date issued: 16 August 2018

Agency responsible: Secretariat of Trade

National inquiry point: Dirección Nacional de Comercio Interior (DNCI)

Products covered: Lamps for general lighting services; Electric filament or discharge lamps, including sealed beam lamp units and ultra-violet or infra-red lamps; Arc-lamps (HS 8539)

Title: "Etiquetado de Eficiencia Energética para lámparas de iluminación general: halógenas y fluorescentes" (Energy efficiency labelling for lamps for general lighting services: Halogen and fluorescent lamps) (4 pages, in Spanish)

Description of content: The notified text establishes the maximum specific energy consumption level and the minimum energy efficiency level, as from 1 July 2019, corresponding to the energy efficiency class A established in Argentine Standards Institute (IRAM) Standard No. 62404 Parts 1:2014 and 2:2015 for tungsten halogen lamps for general lighting services and self-ballasted, single-capped and double-capped fluorescent lamps for general lighting services covered by former National Directorate of Domestic Trade (DNCI) Resolution No. 86/2007 (G/TBT/Notif.99.498/Add.3).

Objective and rationale: Consumer information; Labelling; Prevention of misleading practices; consumer protection; Protection of the environment

Relevant documents: Updated and consolidated reference texts

Resolución ex ICyM N° 508/1999 (Resolution No. 508/1999 of the former Secretariat of Industry, Trade and Mining) <http://servicios.infoleg.gob.ar/infolegInternet/anexos/55000-59999/59228/textact.htm>

Resolución ex SCDyDC N° 44/20013 (Resolution No. 44/20013 of the former Secretariat of Competition, Deregulation and Consumer Protection) <http://servicios.infoleg.gob.ar/infolegInternet/anexos/80000-84999/83955/norma.htm>

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 15 October 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG341\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ARG/full_text/pdf/ARG341(spanish).pdf)

New Zealand Notification NZL/83

Date issued: 16 August 2018

Agency responsible: Ministry for the Environment (MFE)

National inquiry point: Standards New Zealand

Products covered: Single use plastic shopping bags (HS 392321)

Title: Proposed mandatory phase out of single-use plastic shopping bags: Consultation document (56 page(s), in English)

Description of content: Proposal: Mandatory phase out of sale or distribution of single-use plastic shopping bags. The proposal sets out environmental and social impacts of single-use plastic bags, including overseas

experience, and options for New Zealand. What would be covered: A 'single-use plastic shopping bag' is defined as a new plastic bag (including one made of degradable plastic) which has handles and is below a maximum level of thickness. The terms 'plastic' and 'degradable' (including 'biodegradable', 'compostable' and 'oxo-degradable') would be defined in regulations with reference to international standards. We are seeking views on the maximum level of thickness for these bags, which is to be determined after consultation. Options for maximum thickness include (but are not limited to) bags under 50 microns and bags under 70 microns.

Who and when would be covered: Any person or entity (technically, any natural person or legal person) selling or distributing these bags, when the bags are sold or distributed for the purpose of carrying sold goods. Exemptions: To be determined after consultation.

Objective and rationale: Protection of animal or plant life or health; Protection of the environment; The measure is proposed to substantially advance the phase out of a single-use plastic product that contributes to litter and the risks associated with marine plastics while over the longer term take a circular economy approach to design waste out of the system.

Single-use plastic shopping bags are one of many types of plastic bag entering the environment and a small subset of all sources of marine plastics. While single-use plastic shopping bags are convenient they can cause unnecessary waste and litter when alternatives are readily available. Putting in place measures to phase out single-use plastic bags is a first step to addressing the 'throwaway culture' of a linear economy. The choice of these bags as a starting point for engaging the community is appropriate because they touch every consumer, and many practical and affordable alternatives exist.

Relevant documents: . Proposed mandatory phase out of single-use plastic shopping bags: Consultation document

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 22 October 2018

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/NZL/full_text/pdf/NZL83\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/NZL/full_text/pdf/NZL83(english).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 24 September 2018

BSR/AWS D16.2M/D16.2-201X, Guide for Components of Robotic and Automatic Arc Welding Installations (new standard)

Applies to the recommended design, integration, installation, and use of industrial welding robotic and automatic systems. This document is intended for the gas metal arc welding (GMAW), gas tungsten arc welding (GTAW), plasma arc welding (PAW), and flux cored arc welding (FCAW) processes. Pertinent parts may address additional welding processes. Robotic and automatic arc welding systems consist of a manipulator, power source, arc welding torch and accessories, electrode feed system, wire delivery system, shielding gas delivery system, welding circuit, shielding and communication control, and grounding system. There may be other accessories that are outside the scope of this document, such as safety devices and monitoring, joint-tracking, and vision systems.

Single copy price: \$68.00

Order from and send comments to: Peter Portela, pportela@aws.org

BSR/RESNA IF-1-201x, RESNA Standard for Inclusive Fitness - Volume 1: Standard for Inclusive Fitness (new standard)

This standard discloses available inclusive fitness information, standards, and policies that facilitate accessible fitness environments for people of all abilities, including facility layout, equipment, staff, trainers, programming, and outreach and marketing. This standard will establish additional requirements to address current gaps in the inclusive fitness environment. This standard will specify inclusive access marks/symbols to identify fitness facilities and fitness equipment in mainstream, public facilities that meet access requirements for people with impairments and/or disabilities.

Single copy price: \$105.00

Order from and send comments to: ymeding@resna.org

Due 1 October 2018

BSR A14.3-2008 (R201x), Standard for Ladders - Fixed - Safety Requirements (reaffirmation of ANSI A14.3-2008)

This standard prescribes minimum requirements for the design, construction, and use of fixed ladders, and sets forth requirements for cages, wells, and ladder safety systems used with fixed ladders, in order to minimize personal injuries. All parts and appurtenances necessary for a safe and efficient ladder shall be considered integral parts of the design.

Single copy price: \$275.00 USD

Order from and send comments to: info@americanladderinstitute.org

BSR/ASHRAE Addendum br to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum adds new engineering units, a new mandate to accept writes of NULL to non-commandable properties, and intrinsic fault reporting to Lighting Output object type; deprecates time form of timestamps; clarifies the multi-state object types when Number_Of_States shrinks; fixes the language for event type and message text parameters of event notifications; clarifies the object instance 4194303; extends the ReadPropertyMultiple service to support the Network Port wildcard instance treatment; and clarifies the timestamp of trend log and trend log multiple log records.

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

BSR/ASHRAE Addendum bt to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum adds re-alert transitions to the CHANGE_OF_LIFE_SAFETY event algorithm, specific error codes for LifeSafetyOperation error situations, and support for elevator-based occupant evacuation (OEO) to the life safety objects.

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

BSR/ASHRAE Addendum bu to BSR/ASHRAE Standard 135-201x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum introduces BACnetARRAY of BACnetLIST collection property data type; adds clarifications on character and value encoding issues; and clarifies transmission of unconfirmed COV notifications, logging of event notifications, recording of status events in log buffers, Event Enrollment object reliability evaluation, and the Global Group object reliability evaluation.

Single copy price: \$35.00

Order from: standards.section@ashrae.org

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

BSR/ASTM WK58446-201x, Guide for Cybersecurity and Cyberattack Mitigation (new standard)

http://www.astm.org/ANSI_SA

Single copy price: Free

Order from and send comments to: Corice Leonard, accreditation@astm.org

BSR/MSE/ISO TS 50008-201x, Energy management and energy savings - Building energy data management for energy performance - Guidance for a systemic data exchange approach (identical national adoption of ISO 50008)

This document provides guidance on how the energy management team (EnMT) in an organization can define, request, and regularly access the data and information needed to implement an EnMS designed to continually improve energy performance in buildings. Data can be provided by human processes or by building automation, control, information technology, or even accounting systems. If the building information system (BIS) is accessible by the EnMT, the BIS can facilitate the provision of data and information. This could include data used in determining significant energy uses (SEUs), managing to improve energy performance, including energy

consumption, energy use, and energy efficiency, through the use of energy performance indicators (EnPIs). The following cases are not in the scope of this document:

- Residential or industrial buildings;
- Buildings containing an industrial process where the industrial processes cannot be separated from other uses. However, many of the principles in this document can be applied to these or other types of buildings.

Industrial processes might include manufacturing, packaging, transportation, assembly, etc. Building automation data communication protocols themselves are not in the scope of this document. This document does not consider the selection of energy management software, hardware, and control algorithms for automatically managing buildings.

Single copy price: \$100.00

Order from and send comments to: Deann Desai, deann.desai@innovate.gatech.edu

BSR/UL 1974-201x, Standard for Safety for Evaluation for Repurposing Batteries (new standard)

The proposed first edition of the Standard for Evaluation for Repurposing Batteries, UL 1974. This standard covers the sorting and grading process of battery packs, modules, and cells and electrochemical capacitors that were originally configured and used for other purposes, such as electric vehicle propulsion, and that are intended for a repurposed use application, such as for use in stationary energy storage and other applications. The process of sorting and grading these devices is essentially determining the state of health and other parameters to identify continued viability and the rating mechanisms the repurposing manufacturer may use for those that are determined suitable for continued use. This standard also covers application-specific requirements for battery packs utilizing repurposed batteries and components.

Single copy price: Free

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments to: Megan Van Heirsele, Megan.M.VanHeirsele@ul.com

BSR/UL 498-2018 (R201x), Standard for Safety for Attachment Plugs and Receptacles (reaffirmation of ANSI/UL 498-2018)

These requirements cover attachment plugs, receptacles, cord connectors, inlets, and current taps provided with wiring terminals for flexible cord, and flatiron and appliance plugs - all intended for connection to a branch circuit for use 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.shopulstandards.com>

Send comments to: Megan Monsen, megan.monsen@ul.com

BSR/UL 60947-1-2013 (R201x), Standard for Safety for Low-Voltage Switchgear and Controlgear - Part 1: General Rules (reaffirmation of ANSI/UL 60947-1-2013)

Reaffirmation of ANSI Approval.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: <http://www.shopulstandards.com>

Send comments to: Casey Granata, Casey.Granata@UL.Com

Due 8 October 2018

BSR/NFPA 2400-201x, Standard for Small Unmanned Aircraft Systems (sUAS) used for Public Safety Operations (new standard)

This standard shall cover the minimum requirements relating to the operation, deployment, and implementation of small unmanned aircraft systems (sUAS) for public safety operations. This standard shall establish operational protocols for public safety entities who use and support sUAS. This standard shall include minimum job performance requirements (JPRs) for public safety personnel who operate and support sUAS. This standard shall include minimum requirements for the maintenance of sUAS when used by public safety entities. This standard shall provide additional minimum requirements specific to public safety entities.

Obtain an electronic copy from and offer comments at: www.nfpa.org/2400next

Due 10 October 2018

The National Fire Protection Association announces the availability of NFPA 78, NFPA 1078, and NFPA 451. First Draft Reports for concurrent review and comment by NFPA and ANSI. The disposition of all comments

received will be published in the Second Draft Report, located on the document's information page under the next edition tab. The document's specific URL, www.nfpa.org/doc#next (for example www.nfpa.org/78next), can easily access the document's information page. All comments on the NFPA 78, NFPA 1078, and NFPA 451 First Draft Reports must be received by 10 October 2018. The First Draft Report for these documents contains the disposition of public input received for these proposed documents. Anyone wishing to review any of the First Draft Report for NFPA 78, NFPA 1078, and NFPA 451 may do so on the document's information page under the next edition tab. The document's specific URL, for example www.nfpa.org/doc#next (www.nfpa.org/78next), can easily access the document's information page.

BSR/NFPA 78-201x, Guide on Electrical Inspections (new standard)

This document covers minimum criteria to aid in organizing and conducting electrical inspections, which includes administration, plans review, and field inspection, for new electrical installations and modifications to existing electrical installations in conformance with the AHJ requirements.

Obtain an electronic copy from: www.nfpa.org/78next

BSR/NFPA 451-201x, Guide for Community Healthcare Programs (new standard)

This guide is to provide direction to agencies supporting the EMS mission for planning, preparing, implementing, and evaluating community healthcare programs in an effort to meet the changing needs of the communities they serve.

Obtain an electronic copy and comment at: www.nfpa.org/451next

BSR/NFPA 1078-201x, Standard for Electrical Inspector Professional Qualifications (new standard)

This Committee shall have primary responsibility for documents on the requirements for professional qualifications, professional competence, training, procedures, and equipment for electrical inspections and electrical plans examinations.

Obtain an electronic copy and comment at: www.nfpa.org/1078next

Due 16 October 2018

BSR/IEEE 112-201x, Standard Test Procedure for Polyphase Induction Motors and Generators (new standard)

This standard covers instructions for conducting and reporting the more generally applicable and acceptable tests of polyphase induction motors and generators. Many of the tests described may be applied to both motors and generators, as needed, and no attempt is made to partition the test procedure into clauses and subclauses that separately apply to motors or to generators.

Single copy price: \$145.00 (pdf)/\$181.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 802.3bs-201x, Standard for Ethernet Amendment 10: Media Access Control Parameters, Physical Layers, and Management Parameters for 200 Gb/s and 400 Gb/s Operation (new standard)

Defines Ethernet Media Access Control (MAC) parameters, physical layer specifications, and management parameters for the transfer of Ethernet format frames at 200 Gb/s over single-mode fiber and 400 Gb/s over optical physical media.

Single copy price: \$267.00 (pdf)/\$335.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 802.15.8-201x, Standard for Wireless Medium Access Control (MAC) and Physical Layer (PHY) Specifications for Peer Aware Communications (PAC) (new standard)

This standard defines physical layer (PHY) and medium access control (MAC) layer specifications for 14 Wireless Personal Area Networks (WPAN) Peer Aware Communications (PAC) optimized for peer-to-peer 15 and infrastructure-less communications with fully distributed coordination.

Single copy price: \$268.00 (pdf)/\$335.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 1900.5.2-201x, Standard for Method for Modeling Spectrum Consumption (new standard)

This standard defines a generalized method for modeling spectrum consumption of any type of use of RF spectrum and the attendant computations for arbitrating the compatibility among models. The methods of modeling are chosen to support the development of tractable algorithms for determining the compatibility between models and for performing various spectrum management tasks that operate on a plurality of models.

Single copy price: \$145.00 (pdf)/\$181.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 3001.2-201x, Recommended Practice for Evaluating the Electrical Service Requirements of Industrial and Commercial Power Systems (new standard)

This recommended practice explores commercial, institutional, and industrial design of electrical services, interconnecting with a utility distribution or transmission system. Close coordination between the facility electrical designer and the serving utility are critical for a successful service connection. This recommended practice considers the electrical system information needed by the designer concerning the utility's system characteristics and the electrical load information needed by the utility to design a satisfactory electrical interface between the serving utility and the premise electrical distribution system. It describes various ways to take power from the serving utility. It also covers the specific requirements for utility metering on service entrance equipment, as well as service equipment rooms, vaults, and pads.

Single copy price: \$94.00 (pdf)/\$118.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 3006.3-201x, Recommended Practice for Determining the Impact of Preventative Maintenance on the Reliability of Industrial and Commercial Power Systems (new standard)

This recommended practice describes how to determine the impact of preventive maintenance on the reliability of industrial and commercial power systems. It is likely to be of greatest value to the power-oriented engineer with limited experience in the area of reliability. It can also be an aid to all engineers responsible for the electrical design of industrial and commercial power systems.

Single copy price: \$60.00 (pdf)/\$75.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 3333.1.2-201x, Standard for the Perceptual Quality Assessment of Three-Dimensional (3D) and Ultra-High-Definition (UHD) Content (new standard)

This standard establishes methods for quality assessment of 3D and UHD contents based on physiological mechanisms such as perceptual quality and visual attention. This standard identifies and quantifies the following: causes and visual attention of perceptual quality degradation for 3D and UHD image and video contents: compression distortion, such as multi-view image and video compression, interpolation distortion by intermediate view rendering, such as 3D and UHD warping, view synthesis, structural distortion, such as bit errors on wireless/wired transmission errors, visual attention according to the quality degradation.

Single copy price: \$75.00 (pdf)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE C37.248-201x, Guide for Common Format for Naming Intelligent Electronic Devices (COMDEV) (new standard)

This guide provides a common convention for naming physical and virtual Intelligent Electronic Devices (IEDs). It discusses the various environments where device names are needed and how a common naming convention would be beneficial.

Single copy price: \$60.00 (pdf)/\$75.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

BSR/IEEE 802.16-201x, Standard for Air Interface for Broadband Wireless Access Systems (revision of ANSI/IEEE 802.16-2009)

This standard specifies the air interface, including the medium access control layer (MAC) and physical layer (PHY), of combined fixed and mobile point-to-multipoint broadband wireless access (BWA) systems providing multiple services. The MAC is structured to support the WirelessMAN-SC, WirelessMANOFDM, and WirelessMAN-OFDMA PHY specifications, each suited to a particular operational environment.

Single copy price: \$701.00 (pdf)/\$876.00 (print)

Order from: <https://www.techstreet.com/ieee/pages/home>

Send comments to: k.evangelista@ieee.org

Due 23 October 2018

BSR/UL 2849-201X, Standard for Safety for Electric Bicycles Electrically Power Assisted Cycles (EPAC Bicycles), Electric Scooters, and Electric Motorcycles (new standard)

1.1 This standard covers electrical systems of devices designated as eBikes, electric scooters, and electric motorcycles. EBikes include both Pedalec (pedal assist) and non-Pedalec types. Electric scooters and electric motorcycles are intended for over the road use.

1.2 Electrical systems as referenced in 1.1 include onboard electrical systems (see 1.3), offboard charging systems (see 1.4), and vehicle charging systems (see 1.5) of eBikes, electric scooters, and electric motorcycles.

1.3 Onboard electrical systems include any electrical component or system that is located on board the device. This may include motors, motor controllers, interface/controls, battery packs, charging circuitry (which may include on board chargers), and other components or systems.

1.4 Offboard charging systems include individual chargers for charging batteries that are removed from the device during charging, individual chargers for charging batteries that are in place on the device during charging, supply equipment for providing AC power to the device with an onboard charger, or charging systems that consist of multiple charging points such as battery swap type systems or charging rack systems.

1.5 Vehicle Charging Systems include both the onboard electrical system of the device and the offboard charging system.

Single copy price: Free!

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments to: Patricia Sena, patricia.a.sena@ul.com

BSR/UL 6200-201X, Standard for Safety for Controllers for Use in Power Production (new standard)

The requirements for the proposed First Edition of UL 6200 apply to control panels, control units, and other various electrical circuits employed within a control circuit device intended for support functions, maintain operation and limit safety control features for use in a Stationary Engine Driven Assembly or similar power-production equipment control applications.

Single copy price: Free

Obtain an electronic copy from: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Send comments to: Derrick Martin, Derrick.L.Martin@ul.com

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

Due 2 September 2018

Z259.18, Counterweighted guardrail systems (new standard)

This standard specifies requirements for the design, performance, testing, marking, and instructions of manufactured free-standing guardrails that rely on mass and friction and that are intended to protect workers from a fall hazard. These guardrails are not fixed to a structure.

Due 24 September 2018

C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4352, Revisions to item 14-100 c), protection of conductors.

Revise Item 14-100 c) as shown.

14-100 Overcurrent protection of conductors (see Appendix B)

Each ungrounded conductor shall be protected by an overcurrent device at the point where it receives its supply of current and at each point where the size of conductor is decreased, except that such protection shall be permitted to be omitted in each of the following cases:

[a & b omitted for clarity]

c) where the smaller conductor

i) has an ampacity not less than one-third that of the larger conductor from which it is supplied; and
ii) is suitably protected from mechanical damage, is not more than 7.5 m long, and terminates in a single overcurrent device rated or set at a value not exceeding the ampacity of the conductor, but beyond the single overcurrent device the conductor shall be permitted to supply any number of overcurrent devices;

ii) has an ampacity not less than the ampere rating of the switchboard, panelboard, or control device supplied by the smaller conductor;

iii) is between 3.0 and 7.5 m long;

iv) terminates in a single overcurrent device which shall be permitted to supply any number of overcurrent devices beyond that point; and

v) is suitably protected from mechanical damage;

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, (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/ASSP A10.46.201X-201x, Hearing Loss Prevention for Construction and Demolition Workers

(revision and redesignation of ANSI/ASSE A10.46-2013)

This standard applies to all construction and demolition workers with potential noise exposures (continuous, intermittent and impulse) of 85 dBA and above. It is intended to help employers prevent occupational hearing loss among construction and demolition workers.

Contact: Tim Fisher, TFisher@ASSP.org

BSR/ASTM WK64512-201x, New Specification for Standard Specification for IBC Special Inspection Services (new standard)

These requirements will be in conformance with the Test Methods and Standard Practices of ASTM and the International Building Code, including methods for field verification and laboratory testing, as reflected in the Construction Documents. Since the mass adoption of the International Building Code by all 50 states, the need for standards written to the special inspection agency and the special inspectors on how effectively to complete their inspections have become increasingly relevant.

Contact: Laura Klineburger, accreditation@astm.org

BSR/CTA 2068.1-201x, Definitions and Characteristics of Consumer Technologies for Monitoring Physical and Psychosocial Stress - HRV (new standard)

This standard defines and creates performance criteria for consumer stress monitoring technologies that use HRV in the measurement and application of stress metrics.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2068.2-201x, Definitions and Characteristics of Consumer Technologies for Monitoring Physical and Psychosocial Stress - Skin Conductance (new standard)

This standard defines and creates performance criteria for consumer stress monitoring technologies that use Skin Conductance in the measurement and application of stress metrics.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2068.3-201x, Definitions and Characteristics of Consumer Technologies for Monitoring Physical and Psychosocial Stress - Respiration (new standard)

This standard defines and creates performance criteria for consumer stress monitoring technologies that use Respiration in the measurement and application of stress metrics.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2068.4-201x, Definitions and Characteristics of Consumer Technologies for Monitoring Physical and Psychosocial Stress - Heart Rate (new standard)

This standard defines and creates performance criteria for consumer stress monitoring technologies that use Heart Rate in the measurement and application of stress metrics.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2085-201x, Definitions and Characteristics for VR Video and VR Images (new standard)

This document defines the definitions and characteristics for VR Video, and VR Images, which are still or moving imagery captured and formatted explicitly as separate left and right eye images; usually intended for display in a VR headset. More specifically, this document will explore the technical processes, hardware, and software techniques behind the creation and delivery of VR Video/VR Images.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2086-201x, Categorization Augmented and Virtual Reality Consumer Experiences (new standard)

The goal of this project is to create mindshare around various types and formulations of in-headset content, and provide common, industry standard language to describe the various types of virtual and augmented reality experiences that a consumer should come to expect. This will make media and experiences more accessible to consumers, as well as give them language to communicate and share with others. This document, through a quantitative approach, categorizes AR and VR consumer experiences. The experiences are categorized through the standardization of language and packaging of technical features that allows consumers to understand the scope and features of a variety of AR and VR experiences.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/CTA 2087-201x, Recommendations and Best Practices for Connection and Use of Accessories for Augmented and Virtual Reality Technologies (new standard)

This document will explore augmented and virtual reality technologies accessories and their connections and performance requirements with augmented and virtual reality technologies hardware. The output would be to develop the following: (1) Agree on common terminology and definitions; (2) Agree on a common connectivity standard including device compatibility.

Contact: Veronica Lancaster, vlancaster@cta.tech

BSR/MSE 50005-201x, Energy management systems - Modular implementation of the energy management system ISO 50001 including the use of energy performance evaluation techniques (identical national adoption of ISO 50005)

This document provides guidance for a step-by-step process to implement an energy management system. In particular, this process can support and simplify the implementation of an energy management system by Small and Medium Sized Enterprises (SMEs). It outlines essential energy savings or management activities and more comprehensive elements for implementing an energy management system. This approach enables the user of this document to either build on this step-by-step process to fully meet the requirements of ISO 50001 "Energy management systems - Requirements with guidance for use", or to achieve a level of energy management appropriate to its needs and goals.

Contact: Deann Desai, deann.desai@innovate.gatech.edu

BSR/NAPSA PSS2018-201x, Power Sweeping Standard (new standard)

This standard was drafted by the North American Power Sweeping Association and is intended to cover the power sweeping industry. As this is the first standard for the industry, the need is to create a baseline for the industry. From this baseline, we will begin training and will raise the professionalism, quality, and safety of the

process of power sweeping.

Contact: Nancy Terry, info@powersweeping.org

BSR/NEMA IEC 60974-1-201x, Arc Welding Equipment - Part 1: Welding Power Sources (national adoption of IEC 60974-1: 5th edition, Arc Welding Equipment - Part 1: Welding power sources, issued February 2017 with modifications and revision of ANSI/IEC 60974-1-2008)

This part of IEC 60974 is applicable to power sources for arc welding and allied processes designed for industrial and professional use, and supplied by a voltage not exceeding 1000 V, battery supplied or driven by mechanical means. This document specifies safety and performance requirements of welding power sources and plasma cutting systems. This document is not applicable to limited duty arc welding and cutting power sources which are designed mainly for use by laymen and designed in accordance with IEC 60974-6.

Contact: Khaled Masri, Khaled.Masri@nema.org

BSR/NFPA 111-201x, Standard on Stored Electrical Energy Emergency and Standby Power Systems

(revision of ANSI/NFPA 111 -2019)

This standard shall cover performance requirements for stored electrical energy systems providing an alternate source of electrical power in buildings and facilities in the event that the normal electrical power source fails. Systems covered in this standard shall include power sources, transfer equipment, controls, supervisory equipment, and accessory equipment, including integral accessory equipment, needed to supply electrical power to the selected circuits. This standard shall cover installation, maintenance, operation, and testing requirements as they pertain to the performance of the stored-energy emergency power supply system (SEPSS).

Contact: Dawn Michele Bellis, dbellis@nfpa.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/ASHRAE 62.1c-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.1o-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.1q-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.1r-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.1u-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.1v-2018, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2016): 25 July 2018

ANSI/ASHRAE 62.2e-2018, Ventilation and Acceptable Indoor Air Quality in Residential Buildings (addenda to ANSI/ASHRAE Standard 62.2-2016): 25 July 2018

ANSI/ASHRAE/IES 90.1k-2018, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2016): 25 July 2018

ANSI/IEEE 45.1-2017, Recommended Practice for Electrical Installations on Shipboard - Design (new standard): 16 August 2018

ANSI/UL 1004-1-2018, Standard for Safety for Rotating Electrical Machines - General Requirements (revision of ANSI/UL 1004-1 -2017): 6 August 2018

ANSI/UL 1004-1-2018a, Standard for Safety for Rotating Electrical Machines - General Requirements (revision of ANSI/UL 1004-1 -2017): 6 August 2018

ANSI/UL 1691-2018a, Standard for Safety for Single Pole LockingType Separable Connectors (revision of ANSI/UL 1691-2018): 27 July 2018

ANSI/UL 2577-2017 (R2018), Standard for Safety for Standard for Suspended Ceiling Grid Low Voltage Systems and Equipment (reaffirmation of ANSI/UL 2577-2017): 3 August 2018

ANSI/UL 8752-2012 (R2018), Standard for Safety for Organic Light Emitting Diode (OLED) Panels (reaffirmation of ANSI/UL 8752 -2012): 3 August 2018

ANSI/UL 8753-2013 (R2018), Standard for Safety for Standard for Field-Replaceable Light Emitting Diode (LED) Engines (reaffirmation of ANSI/UL 8753-2013): 3 August 2018

ANSI/UL 8754-2014 (R2018), Standard for Safety for Standard for Holders, Bases and Connectors for Solid-State (LED) Light Engines and Arrays (reaffirmation of ANSI/UL 8754-2014): 3 August 2018

Draft IEC & ISO Documents

This section lists proposed documents 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 and ISO documents should be sent to Charles T. Zegers at czegers@ansi.org and Karen Hughes at isot@ansi.org respectively. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

ISO/IEC/IEEE DIS 15289, Systems and software engineering - Content of life-cycle information items (documentation), 2 September 2018, \$155.00

21A/662/CDV, IEC 63056 ED1: Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries for use in electrical energy storage systems, 2 October 2018

35/1398/CDV, IEC 60086-4 ED5: Primary batteries-Part 4: Safety of lithium batteries, 2 October 2018

100/3126/CDV, IEC 61966-12-1 ED2: Multimedia systems and equipment - Colour measurement and management - Part 12-1: Metadata for identification of colour gamut (Gamut ID) (TA 2), , 2 October 2018

8/1497/CD, IEC TS 62749 ED2: Assessment of power quality - Characteristics of electricity supplied by public networks, 5 October 2018

44/836/DTR, IEC TR 63161 ED1: Assignment of a safety integrity requirements - Basic rationale, 5 October 2018

106/457(F)/CDV, IEC 62209-3 ED1: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 3: Vector probe systems (Frequency range of 100 MHz to 6 GHz), 5 October 2018

ISO/IEC DIS 23000-21, Information technology - Multimedia application format (MPEG-A) - Part 21: Visual identity management application format, 21 October 2018, \$112.00

ISO/DIS 24509, Ergonomics - Accessible design - A method for estimating minimum legible font size for people at any age, 22 October 2018, \$98.00

ISO/IEC DIS 30106-4, Information technology - Object oriented BioAPI - Part 4: C++ implementation, 25 October 2018, \$125.00

ISO/DIS 26872, Space systems - Disposal of satellites operating at geosynchronous altitude, 26 October 2018, \$146.00

ISO/DIS 14620-2, Space systems - Safety requirements - Part 2: Launch site operations, 29 October 2018, \$67.00

ISO/DIS 14621-1, Space systems - Electrical, electronic and electromechanical (EEE) parts - Part 1: Parts management, 1 November 2018, \$112.00

ISO/DIS 14621-2, Space systems - Electrical, electronic and electromechanical (EEE) parts - Part 2: Control programme requirements, 1 November 2018, \$46.00

34D/1405/CD, IEC 60598-1/AMD2/FRAG28 ED8: Luminaires - Part 1 General requirements and tests, 2 November 2018

34D/1406/CD, IEC 60598-1/AMD2/FRAG29 ED8: Luminaires - Part 1 General requirements and tests, 2 November 2018

64/2332/CD, IEC 60364-5-54/AMD1 ED3: Low-voltage electrical installations - Part 5-54: Selection and erection of electrical equipment - Earthing arrangements and protective conductors, 3 November 2018

Recently Published IEC & ISO Documents

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

IEC/TR 63149 Ed. 1.0 en:2018, Land usage of photovoltaic (PV) farms - Mathematical models and calculation examples, \$352.00

IEC/TR 63170 Ed. 1.0 en:2018, Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz, \$375.00

IEC/TS 62738 Ed. 1.0 en:2018, Ground-mounted photovoltaic power plants - Design guidelines and recommendations, \$281.00

ISO 9241-306:2018, Ergonomics of human-system interaction - Part 306: Field assessment methods for electronic visual displays, \$209.00

ISO/IEC 21964-1:2018, Information technology - Destruction of data carriers - Part 1: Principles and definitions, \$45.00

ISO/IEC 21964-2:2018, Information technology - Destruction of data carriers - Part 2: Requirements for equipment for destruction of data carriers, \$68.00

ISO/IEC 21964-3:2018, Information technology - Destruction of data carriers - Part 3: Process of destruction of data carriers, \$68.00

ISO/IEC 23008-6:2018, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 6: 3D audio reference software, \$45.00

ISO/IEC TR 23008-14:2018, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 14: Conversion and coding practices for HDR/WCG YCbCr 4:2:0 video with PQ transfer characteristics, \$185.00

ISO/IEC TR 23008-15:2018, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 15: Signalling, backward compatibility and display adaptation for HDR/WCG video, \$185.00

ISO/TR 23021:2018, Traditional Chinese medicine - Controlled vocabulary on Japanese Kampo crude drugs, \$45.00

ISO/TS 15926-12:2018, Industrial automation systems and integration - Integration of life-cycle data for process plants including oil and gas production facilities - Part 12: Life-cycle integration ontology represented in Web Ontology Language (OWL), \$209.00

TSP Meeting Schedule

Control Protocols Working Group	12:30 – 14:30	Wednesday, 29 August 2018 via WebEx
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The following set of meetings will be held 4-8 October 2018 at the Marriott Solana in Westlake, TX. The most up to date version of the meeting schedule and a “Reserve a hotel room” link are available at <http://tsp.esta.org/tsp/meetings/index.php>. The schedule for the January 2019 meetings at NAMM in Anaheim is there, too.

Control Protocols E1.33 TG	19:00 – 23:00	Friday, 5 October 2018
Control Protocols NAEP TG	20:00 – 22:00	Saturday, 6 October 2018
Control Protocols NextGen CP	14:00 – 18:00	Saturday, 6 October 2018
Control Protocols/Rigging E1.59 TG	14:00 – 18:00	Friday, 5 October 2018
Control Protocols Working Group	09:00 – 13:00	Saturday, 6 October 2018
Electrical Power Inspection TG	09:00 – 13:00	Friday, 5 October 2018
Electrical Power Working Group	14:00 – 18:00	Friday, 5 October 2018
Event Safety Communications TG	14:00 – 18:00	Friday, 5 October 2018
Event Safety Fire Safety TG	09:00 – 13:00	Friday, 5 October 2018
Event Safety Working Group	14:00 – 18:00	Saturday, 6 October 2018
Floors Working Group	09:00 – 13:00	Friday, 5 October 2018
Followspot Position Working Group	19:00 – 23:00	Sunday, 7 October 2018
Photometrics Working Group	14:00 – 18:00	Sunday, 7 October 2018
Rigging E1.6-1 TG	09:00 – 13:00	Saturday, 6 October 2018
Rigging E1.6-2 TG	14:00 – 18:00	Saturday, 6 October 2018
Rigging Working Group	19:00 – 23:00	Saturday, 6 October 2018
Stage Machinery E1.64 TG	14:00 – 18:00	Thursday, 4 October 2018
Stage Machinery Working Group	19:00 – 23:00	Friday, 5 October 2018
Technical Standards Council	09:00 – 13:00	Sunday, 7 October 2018

ESTA Standards Watch

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

Chauvet Professional

Cisco

Columbus McKinnon Entertainment Technology

Martin by Harman

Robe

Walt Disney Parks and Resorts

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

Altman Lighting, Inc.

German Light Products

JR Clancy

McLaren Engineering Group

Rose Brand

Stage Rigging

TMB

Tyler Truss Systems, Inc.

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

About the Stage

B-Hive Industries, Inc.

Scott Blair

Boston Illumination Group

Louis Bradfield

Candela Controls Inc.

Clark Reder Engineering

Tracey Cosgrove & Mark McKinney

Doug Fleenor Design

EGI Event Production Services

Entertainment Project Services

Neil Huff

Hughston Engineering Inc.

Interactive Technologies

Lankey & Limey Ltd.

Jules Lauve

Brian Lawlor

Limelight Productions, Inc.

John T. McGraw

Mike Garl Consulting

Mike Wood Consulting

Power Gems

Reed Rigging

Reliable Design Services

Alan Rowe

David Saltiel

Sapsis Rigging Inc.

Stageworks

Dana Taylor

Steve Terry

Theatre Projects

Theatre Safety Programs

Tobins Lake Sales Theatrical Supply

Vertigo

Steve A. Walker & Associates

Westview Productions

WNP Services

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

Actors' Equity Association

Barbizon Lighting Company

Golden Sea Professional Equipment Limited

IATSE Local 728

IATSE Local 891

Lex

NAMM

Rosco Laboratories

Texas Scenic Company

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

American Society of Theatre Consultants

Area Four Industries

BMI Supply

City Theatrical Inc.

InterAmerica Stage, Inc.

Lycian Stage Lighting

Morpheus Lights

Niscon Inc.

Syracuse Scenery and Stage Lighting

Tomcat

XSF Xtreme Structures and Fabrication

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

Benjamin Cohen
Bright Ideas Custom Electronics Inc.
Bruce Darden
Guangzhou Ming Jing lighting Equipment Co.
K5600, Inc.
Indianapolis Stage Sales & Rentals, Inc.
Jason Kyle

Eric Loader
Moss LED
Robert Scales
Stephen Vanciel
Suga Koubou Co., Ltd.
VU-Industry Vision Technology
Xpro Light

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

Ian Foulds, IATSE Local 873
Harlequin Floors
PSAV

Thern Stage Equipment
USAI Lighting

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

Aerial Arts
Blizzard Lighting, LLC
Creative Stage Lighting
Geiger Engineers
H&H Specialties
High Output
InCord
iWeiss
Oasis Stage Werks

Serapid
Stage Equipment & Lighting
Stagemaker
Thermotex Industries, Inc.
Total Structures
Ultratec Special Effects
Vincent Lighting Systems
Zhuhai Shengchang Electronics Co.

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

AC Power Distribution, Inc.
Michael Cowger
Peter Donovan
Entertainment Project Services, LLC
Tony Giovannetti
Pat Grenfell
Mitch Hefter
Bill Hektner
Alan Hendrickson
Hoist Sales and Services
John Huntington
Beverly and Tom Inglesby
Intensity Advisors
JSAV
Eddie Kramer
J.P. Kyle

Michael Lay
John Musarra
Shawn Nolan
Lizz Pittsley
Phil Reilly
Charles Scott
Michael Skinner
Skjonberg Controls Inc.
Stage Labor of the Ozarks
Studio T+L, LLC
John Szewczuk
Teclumen
Theta Consulting
Tracy Underhill
Robert L. Williams

Planned Giving donor: Ken Vannice