Technical Standards Program

ESTA Standards Watch

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Four in Review

Four ESTA standards and draft standards have been posted for public review at http://tsp.esta.org/tsp/documents/public_review_docs.php. All of them have a comment due date of April 11. That is, comments should be offered before 12 April 2016. The documents posted for public review are:

BSR E1.33, Entertainment Technology — (RDMnet) — Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks. This draft standard describes a method of implementing ANSI E1.20 Remote Device Management messaging over an IPv4 network. The primary anticipated use of the standard

would be to complement ANSI E1.31 on an IPv4 entertainment lighting control network. This project was originally described as offering extensions to E1.31, but in fact the messages work alongside E1.31 in the same network environment.

BSR E1.31, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN. This draft standard describes a mechanism to transfer DMX512-A packets over a TCP/IP network using a subset of the ACN protocol suite. It covers data format, data protocol, data addressing, and network management It also outlines a synchronization method to help ensure that multiple sinks can process this data concurrently when supervised by the same controller. This revision includes the addition of DMX universe synchronization.

BSR E1.4-1, Entertainment Technology - Manual Counterweight Rigging Systems. The existing E1.4 standard is being expanded to include all manually powered systems—counterweighted and non-counterweighted—and those rigging systems in which scenery, stage lighting, or other theatrical equipment is hung from static battens. The first part of the new E1.4 suite, E1.4-1, Manual Counterweight Rigging Systems, applies to permanently installed, manually operated systems of stage rigging hardware for the raising, lowering, and suspension of scenery, lighting, and similar loads.

ANSI E1.15 - 2006, Entertainment Technology -- Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies. This document has the ANSI prefix because it is now a standard, not a draft. It was originally published in 2006 and now is being considered for reaffirmation. The standard sets minimum specifications for the assembly and use of variable and fixed-height luminaire support devices, commonly referred to as "boom and base assemblies." This standard does not apply to towers, ground-support structures, or other devices that use winches or other lifting mechanisms, and does not apply to aluminum tripod or other similar lightweight stands, or stands with castered bases.

Three Published

Three ESTA standards have been published since the last issue of Standards Watch. Two are reaffirmations of existing standards, and one is new. The standards are:

ANSI E1.3 – 2001 (R2016), Entertainment Technology—Lighting Control Systems - 0 to 10 V Analog Control Specification. The standard describes a method of controlling equipment by means of an analog control voltage in the nominal range from zero to 10 volts positive, with the controller *sourcing* the signal current. This document is a reaffirmation without substantive changes of ANSI E1.3 - 2001. This is not a state-of-the-art control method, but it is still useful and extremely simple and inexpensive to implement in small systems.

ANSI E1.30-1 – 2010 (R2016), EPI 23, Device Identification Subdevice. This EPI specifies a collection of properties which may be exposed by a DMP device to provide detailed information on the manufacturer, model, serial number, hardware and software revisions and other administrative details of the device. These properties are described in a standard format as a templated DDL (sub)device. This document is a reaffirmation without substantive changes of ANSI E1.30-1 - 2010.

ANSI E1.43 - 2016, Entertainment Technology—Performer Flying Systems. This standard establishes a minimum level of performance parameters for the design, manufacture, use, and maintenance of performer flying systems used in the production of entertainment events. The purpose of this guidance is to achieve the adequate strength, reliability, and safety of these systems to ensure safety of the performer, other production personnel, and audiences under all circumstances associated with performer flying.

All ESTA standards and other published TSP documents are available for download at http://tsp.esta.org/freestandards at no cost—free, thanks to the sponsorship of Prosight Specialty Insurance. They also may be purchased from ANSI at http://webstore.ansi.org/ or IHS at https://global.ihs.com/.

One Withdrawn

ANSI E1.30-7 – 2009, EPI 29, Allocation of Internet Protocol Version 4 Addresses to ACN Hosts, has been withdrawn as an American National Standard, effective 17 February 2016. The standard has been withdrawn because much of the document was based on a protocol not adopted by the market, and that implementation for IP addressing is best dealt with by designers, not through the standardization of any particular method.

Call for TSP Members

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

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

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

New Project: BSR E1.6-1, Powered Hoist Systems (revision of ANSI E1.6-1 – 2012)

ESTA's TSP has filed a new project notice with ANSI. It is a project to revise the existing E1.6-1 standard. Anyone materially affected by this standard is invited to become involved, either by joining the Rigging Working Group or by participating in future public reviews. The E1.6-1 standard 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, attachment of loads to the load carrying device, systems for flying people, welded link chain hoists, and manually powered hoists.

ESA's Severe Weather Summit Deadline Approaching

Registration for this year's Event Safety Alliance's Severe Weather Summit will close Wednesday 2 March 2016 at 17:00 PST. The event will be held March 8 & 9 at the National Weather Center in Norman, Oklahoma. The program and a link for registration are available at https://eventsafetyalliance.org/severe-weather-summit-agenda/.

The Severe Weather Summit is designed to aid special event and venue professionals in preparing for and responding to dangerous weather conditions. Over the course of the Summit's two days, subject matter experts from NOAA and the National Weather Service will introduce participants to short-fused severe weather incidents that can threaten all types of events and venues, as well as the steps to develop a severe weather preparedness plan.

NIST Announces Funding Program for Standardization Education

The U.S. Commerce Department's National Institute of Standards and Technology (NIST) Standards Coordination Office is accepting applications for a new program that will provide financial support and guidance for stronger educational curriculums focused on standardization in undergraduate and graduate institutions nationwide. Applications must be received no later than 23:59 Eastern Time on Tuesday 5 April 2016. Complete program information with eligibility and details on the application/proposal process is available at http://gsi.nist.gov/global/docs/Education%20Grants/2016FFO.pdf.

NIST's 2016 Curricula Development Funding Opportunity is intended to integrate standardization information and related content into seminars, learning resources, and courses for U.S. colleges and universities. Eligible recipients, located in the U.S. and its territories, include accredited institutions of higher education. Non-profit and commercial organizations and state, local, and Indian tribal governments are also eligible, as long as they describe and demonstrate their proposed or existing relationship with an accredited institution of higher education that will incorporate the applicant's project through a pilot or other program in the institution's educational programs.

U.S. DOT Releases Report to Congress on Dedicated Short-Range Communications

The U.S. Department of Transportation (DOT)has released a report to Congress assessing the status of dedicated short-range communications (DSRC) technology and applications for short-range communications between vehicles and infrastructures. DSRC is a Wi-Fi derivative technology developed to meet specialized needs for secure, low latency, wireless mobile data communications. The DOT reports that DSRC has the ability to transform transportation safety, with the potential to address 83 percent of light-vehicle crashes involving unimpaired drivers. The report is available at http://www.its.dot.gov/connected_vehicle/pdf/DSRCReportCongress_FINAL_23NOV2015.pdf.

The DOT report is mentioned here, in *Standards Watch*, because some of the other unlicensed devices that might compete for spectrum with vehicular DSRC could be entertainment and special event communications devices.

NIST Provides RED Information

NIST attended the 4 November 2015 ETSI Workshop on the "Radio Equipment Directive – How to Place Compliant Radio Equipment on the European Market." A summary report of the topics discussed at the workshop and the workshop presentations are provided for the benefit of NIST's US constituents at https://gsi-i.nist.gov/global/index.cfm/L1-4/L2-16/L3-261/A-790.

The EU's new Radio Equipment Directive (RED) becomes effective on 13 June 2016. A one year transition period has been provided. During the one year transition, both the current Radio & Telephone Terminal Equipment (R&TTE) Directive and the new RED Directive can be used for radio products being placed on the EU market. However, radio products placed on the market as of 13 June 2017 must meet the RED. The scope of the RED is different from the scope of the R&TTE Directive and the list of Harmonized Standards that will be able to be used for presumption of conformity for the RED will be different as well. The RED includes additional equipment related to TV broadcast receivers, radio equipment operating below 9 kHz, and radio-determination equipment (radar).

FCC Workshop and Demonstration in the Millimeter Wave Bands

The FCC's Office of Engineering and Technology, Wireless Telecommunications Bureau, and the International Bureau will host a workshop exploring the concepts raised in the Commission's Spectrum Frontiers NPRM and the state of technological developments in the millimeter wave (mmW) bands. In parallel to the workshop, OET, WTB, and IB will host equipment demonstrations illustrating some of the technologies enabling advanced wireless services in the mmW bands. The workshop and tech demonstration will be held on Thursday, 10 March 2016, from 09:00 to 17:00 in the Commission Meeting Room at FCC Headquarters in Washington, DC.

This workshop is open to the public, but all attendees are advised to arrive at least 30 minutes prior to the session to allow for security screening. Attendees are not required to pre-register, but may submit their name and company affiliation ahead of time by sending an email to Cecilia Sulhoff (cecilia.sulhoff@fcc.gov) to expedite the check-in process. The FCC will webcast the workshop on the FCC webpage at http://www.fcc.gov/live. Viewers will be able to submit questions during the workshop by e-mail to livequestions@fcc.gov.

The Commission adopted its Spectrum Frontiers NPRM in October 2015, which proposed new rules for flexible use services, including mobile broadband, in frequencies above 24 GHz. The use of mmW bands for mobile and other advanced wireless broadband services is generally considered a component of future 5G networks.

ICAO Council Prohibits Lithium-Ion Battery Cargos on Passenger Aircraft

The 36-State ICAO Governing Council adopted a new aviation safety measure which prohibits all shipments of Lithium-ion batteries as cargo on passenger aircraft. The Council's decision will be effective 1 April 2016. It pertains only to Lithium-ion batteries shipped as cargo on passenger aircraft, and not to those contained in personal electronic devices carried by passengers or crew. For more information and links to other information about hazardous goods, please visit http://www.icao.int/safety/DangerousGoods/Pages/default.aspx.

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. "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm gives advice for US citizens on preparing and transmitting comments. See http://ec.europa.eu/enterprise/tbt/ for filing European TBT objections.

Georgia Notification GEO/93

Date issued: 22 February 2016
Agency responsible: Ministry of Economy and Sustainable Development of Georgia
National inquiry point: Georgian National Agency for Standards, Technical Regulations and Metrology (GEOSTM)
Products covered: Buildings
Title: Technical Regulation on "Safety Rules for Buildings" approved by Decree of The Government of Georgia 28 January 2016 No.41
Description of content: Document apply to all types of building or any building related structural constructions, changes, movement, extension, modification, repair, equipment, using and engagement, location, maintenance / storage, removal and disruption / dissolution.
Objective and rationale: Safety
Relevant documents: Georgian law "Code of Product Safety and Free Movement of Goods"
Proposed date of adoption: 28 January 2016
Proposed date of entry into force: 1 January 2017
Final date for comments: Not given by country
Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/GEO/full_text/pdf/GEO93(georgian).pdf

Kyrgyz Republic Notification KGZ/34

Date issued: 24 Frebruary 2016
Agency responsible: Ministry of Economy of the Kyrgyz Republic
National inquiry point: Ministry of Economy of the Kyrgyz Republic
Products covered: Technical devices with the property to create electromagnetic interference
Title: Technical Regulation of the Eurasian Economic Union "On electromagnetic compatibility of technical devices" (TR CU 020/2011)
Description of content: This technical regulation lays down obligatory requirements for technical devices which are able to produce electromagnetic interference. It establishes conditions for free circulation of technical devices within the customs territory of the EAEU provided that all requirements are met.

Objective and rationale: Protection of property; Protection of human health or safety; Prevention of deceptive practices and consumer protection This technical regulation has been enforced urgently due to accession of the Kyrgyz Republic to the EAEU.
Relevant documents: · Decision of the Eurasian Economic Commission (EAEC) · Amendments to the technical regulation · List of standards · Conformity assessment procedures
http://www.eurasiancommission.org/ru/act/texnreg/deptexreg/tr/Pages/EMS.aspx
Proposed date of adoption: 1 May 2015
Proposed date of entry into force: 22 February 2016 [Done!]
Final date for comments: Not given by country

Egypt Notification EGY/117
Date issued: 15 February 2016
Agency responsible: Egyptian Organization for Standardization and Quality Control (EOS)
National inquiry point: Egyptian Organization for Standardization and Quality Control (EOS)
Products covered: Tubular LED lamps
Title: Ministerial Decree No. 692/2015 mandating the Egyptian Standards ES 7800/2015
Description of content: The Ministerial Decree mandates that the producers and importers must comply with ES 7800/2015. Producers and importers are given a transitional period of six months. This standard applies to tubular LED lamps - safety requirements. This standard complies with IEC 62776.
Objective and rationale: Safety requirements
Relevant documents: · Ministerial Decree No. 692/2015 · IEC 62776/2014 · IEC 61199 · IEC 60081
Proposed date of adoption: 15 September 2015
Proposed date of entry into force: 6 November 2015 [Done!]
Final date for comments: 15 April 2016
Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY117(arabic).pdf

Egypt Notification EGY/118
Date issued: 15 February 2016
Agency responsible: Egyptian Organization for Standardization and Quality Control (EOS)
National inquiry point: Egyptian Organization for Standardization and Quality Control (EOS)
Products covered: Tubular LED lamps
Title: Ministerial Decree No. 692/2015 mandating the Egyptian Standards ES 7824/2015
Description of content: The Ministerial Decree mandates that the producers and importers must comply with ES 7800/2015. Producers and importers are given a transitional period of six months.
This standard applies to Tubular LED lamps - safety requirements. This standard complies with IEC 62776.
Objective and rationale: Safety requirements
Relevant documents: · Ministerial Decree No. 692/2015 · IEC 62776/2014 · IEC 61199 · IEC 60081
Proposed date of adoption: 15 September 2015
Proposed date of entry into force: 6 November 2015 [Done!]
Final date for comments: 15 April 2016
Full text: https://tsapps.nist.gov/notifyus/docs/wto_country/EGY/full_text/pdf/EGY118(arabic).pdf

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ANSI Public Review Announcements

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

Due 28 March 2016

BSR/ASABE S629 MONYEAR-201x, Framework to Evaluate the Sustainability of Agricultural Production Systems (new standard)
The scope of the ballot is limited to blue text indicating revision from the previously approved draft based on comment resolution. The standard is intended to define frameworks for sustainability certification of all types of farming operations (which include ranching).
Single copy price: $58.00
Order from and send comments to: Jean Walsh, walsh@asabe.org

BSR/ASCE TBDXX-201x, Schedule Delay Analysis Standard (new standard)
The scope of this standard will cover a set of "best practice" concepts or guidelines that apply to any schedule delay analysis, whether conducted during construction or after project completion. This standard guideline is needed to help minimize the transactional cost of dispute by eliminating the disagreement over method with a set of guidelines or principles that apply in all situations. Clarity on best practices will help the parties know how delay analysis should be treated and that knowledge will help expedite dispute resolution related to schedule and delay analysis.
Single copy price: Free
Order from and send comments to: James Neckel, jneckel@asce.org

BSR/ASHRAE/IES Addendum dt to Standard 90.1-201x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013)
This proposal corrects the definition of Lighting Power Density (LPD) and adds two related terms, and in addition corrects the use of these terms in the language in Chapters 9 and 11.
Single copy price: $35.00
Order from: standards.section@ashrae.org
Send comments to: Online Comment Database at http://www.ashrae.org/standards-research--technology/public-reviewdrafts

BSR/NASBLA 101-201X, Basic Boating Knowledge – Human-Propelled Boats (new standard)
This is the minimum standard that applies to all human-propelled boating courses in the U.S. states and territories and District of Columbia.
Single copy price: Free
Order from and send comments to: Pamela Dillon, pam@nasbla.org

Due 4 April 2016

BSR/ASSE Z359.1-201X, Requirements for the ANSI/ASSE Z359 Fall Protection Code (revision of ANSI/ASSE Z359.1-2007)
The Fall Protection Code is a set of standards that covers program management; system design; training; qualification and testing; equipment, component, and system specifications for the processes used to protect workers at height in a managed fall protection program. This standard identifies those standards and establishes their role in the Code and their interdependence. Please note change of title and scope.
Single copy price: $80.00
Order from and send comments to: Tim Fisher, TFisher@ASSE.Org

BSR ASC C2 NESC-201x National Electrical Safety Code (revision of ANSI ASC C2 NESC-2012)
These rules cover supply and communication lines, equipment, and associated work practices employed by a public or private electric supply, communications, railway, or similar utility in the exercise of its function as a utility. They cover similar systems under the control of qualified persons, such as those associated with an industrial complex or utility interactive system.
Single copy price: $254.00
Obtain an electronic copy from: stdshelp@ieee.org
Send comments to: Susan Vogel, s.vogel@ieee.org

Due 19 April 2016

BSR/IEEE 802.1Qca-20XX, IEEE Standard for Local and metropolitan area networks - Media Access Control (MAC) Bridges and Virtual Bridged Local Area Networks Amendment: Path Control and Reservation (addenda to ANSI/IEEE 802.1Q-2012)
This amendment to IEEE Std 802.1Q specifies explicit path control, bandwidth reservation, and redundancy (protection, restoration) for data flows.
Single copy price: $166.00 (pdf)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 45.3-201x, Recommended Practice for Shipboard Electrical Installations - Systems Engineering (new standard)
This document provides recommendations for systems engineering, design, and integration of electric power systems at the total ship level from concept design through the establishment of the design baseline prior to detail design.
Single copy price: $89.00 (pdf); $110.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 802.22b-201x, Standard for Information Technology - Telecommunications and information exchange between systems – Wireless Regional Area Networks (WRAN) - Specific requirements - Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications:Policies and Procedures for Operation in the TV Bands - Amendment 2: Enhancement for Broadband Services and Monitoring Applications (new standard)
This amendment specifies alternate Physical Layer (PHY) and necessary Medium Access Control Layer (MAC) enhancements to IEEE std. 802.22 -2011 for operation in Very High Frequency (VHF)/Ultra High Frequency (UHF) TV broadcast bands between 54 MHz and 862 MHz to support enhanced broadband services and monitoring applications. The standard supports aggregate data rates greater than the maximum data rate supported by the IEEE Std. 802.22-2011.
Single copy price: $178.00 (pdf); $222.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 1657a-201x, Recommended Practice for Personnel Qualifications for Installation and Maintenance of Stationary Batteries - Amendment 1: Updated Safety Sections (new standard)
This recommended practice defines the areas of recommended knowledge for installers and maintainers of stationary batteries and related systems to the extent that they affect the battery. Design of the dc system and sizing of the dc battery charger(s) are beyond the scope of this recommended practice. This document covers lead-acid and nickel-cadmium battery technologies.
Single copy price: $48.00 (pdf); $61.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 15288-201x, ISO/IEC/IEEE International Standard - Systems and software engineering - System life cycle processes (revision of ANSI/IEEE 15288-2008)
This International Standard establishes a common framework of process descriptions for describing the life cycle of systems created by humans. It defines a set of processes and associated terminology from an engineering viewpoint. These processes can be applied at any level in the hierarchy of a system's structure. Selected sets of these processes can be applied throughout the life cycle for managing and performing the stages of a system's life cycle.
Single copy price: $171.00 (pdf); $213.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 15289-201x, ISO/IEC/IEEE International Standard Systems and software engineering - Content of life-cycle information items (documentation) (revision of ANSI/IEEE 15289-2011)
This International Standard specifies the purpose and content of all identified systems and software life-cycle and service management information items (documentation). This International Standard provides a mapping of ISO/IEC 15288:2008 (IEEE Std 15288-2008), ISO/IEC 12207:2008 (IEEE Std 12207-2008), and ISO/IEC 20000-1:2011 (IEEE Std 20000-1:2013) and ISO/IEC 20000-2 (IEEE Std 20000-2:2013) clauses with a set of information items.
Single copy price: $86.00 (pdf); $107.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

BSR/IEEE 23026-201x, Systems and software engineering – Engineering and management of websites for systems, software, and services information (revision and redesignation of ANSI/IEEE 2001-2002 (R2010))
This International Standard (IS) defines system engineering and management requirements for the life cycle of websites including strategy, design, engineering, testing and validation, and management and sustainment for Intranet and Extranet environments. This IS applies to those using web technology to present information and communications technology (ICT) information, such as user documentation for systems and software; life-cycle documentation for systems and software engineering projects; and documentation of policies, plans, and procedures for IT service management.
Single copy price: $93.00 (pdf); $115.00 (print)
Order from: online: http://standards.ieee.org/store
Send comments to: Karen Evangelista, k.evangelista@ieee.org

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/ABYC H-5-201x, Boat Load Capacity (revision of ANSI/ABYC H-5 -2012)
This standard is a guide for determining the maximum weight and persons capacity of boats.
Contact: Lynn Lipsey, llipsey@abycinc.org

BSR/AISC 303-201x, Code of Standard Practice for Steel Buildings and Bridges (new standard)
This Code sets forth criteria for the trade practices involved in steel buildings, bridges, and other structures, where other structures are defined as those structures designed, fabricated, and erected in a manner similar to buildings with building-like vertical and lateral load resisting elements.
Contact: Cynthia Duncan, duncan@aisc.org

BSR/ASCE/EWRI XX-201x, BSR/ASCE/EWRI XX-201x, and BSR/ASCE/EWRI XX-201x, Standard Guidelines for the Design of Stormwater Impoundments, Standard Guidelines for the Installation of Stormwater Impoundments, and Standard Guidelines for the Operation and Maintenance of Stormwater Impoundments (new standard)
These guidelines intend to present design guidance for stormwater impoundments. The guidelines' purpose is to focus on local and regional impoundments to manage, treat, and/or attenuate stormwater runoff, thus reducing the impact of stormwater on downstream areas due to land-use changes from water discharge and water quality perspectives.
Contact: James Neckel, jneckel@asce.org

BSR/IICRC S500-201X, Standard for Professional Water Damage Restoration (revision of ANSI/IICRC S500-2015)
This standard provides a specific set of practical standards for water damage restoration. It does not attempt to teach comprehensive water damage restoration procedures; rather, it provides the foundation for basic principles of proper restoration practices. It does not attempt to include exhaustive performance characteristics or standards for the manufacture or installation of structural components, materials, and contents (personal property).
Contact: Mili Washington, mili@iicrc.org

BSR/IICRC S520-201x, Standard for Professional Mold Remediation (revision of ANSI/IICRC S520-2015)
This standard describes the procedures to be followed and the precautions to be taken when performing mold remediation in residential, commercial and institutional buildings, and the systems and personal property contents of those structures. The standard explains mold remediation techniques, the principles of which may apply to other microbial remediation projects or services. This standard assumes that determining and correcting the underlying cause of mold contamination is the responsibility of a property owner and not the remediator,

although a property owner may contract with a remediator or other professional to perform these services.
Contact: Mili Washington, mili@iicrc.org

BSR/IICRC S550-201x, Standard for Professional Water Damage Restoration of Commercial Structures
(new standard)
The S550 is a procedural standard for performing water damage restoration in commercial, industrial institutional, and complex residential structures, systems and furniture, fixtures and equipment. The proposed standard includes: Building and Material Science; Drying Complex Materials and Systems; Safety and Health; Project Coordination, Documentation, Logistics and Risk Management; Inspections, Preliminary Determinations and Pre-Restoration Evaluations; Limitations, Complexities, Complications, and Conflicts; Specialized Experts; Restoration Procedures; HVAC; Evaluation and Furniture, Fixtures and Equipment; Historical Buildings; Government; and Healthcare Facilities.
Contact: Mili Washington, mili@iicrc.org

Final Actions on American National Standards

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

ANSI/ASHRAE/IES 90.1aj-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1af-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1am-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1an-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1ap-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1ar-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1as-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1at-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1au-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

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ANSI/ASHRAE/IES 90.1bl-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1bp-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

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ANSI/ASHRAE/IES 90.1br-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1bt-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1bv-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1bx-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

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ANSI/ASHRAE/IES 90.1cc-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1ci-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1ck-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1f-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/IES 90.1v-2016, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 28 January 2016

ANSI/ASHRAE/USGBC/IES Addendum 189.1a-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 28 January 2016

ANSI/ASHRAE/USGBC/IES Addendum 189.1d-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 28 January 2016

ANSI/ASHRAE/USGBC/IES Addendum 189.1e-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 28 January 2016

ANSI/ASHRAE/USGBC/IES Addendum 189.1g-2016, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/USGBC/IES Standard 189.1-2014): 28 January 2016

ANSI/IESNA RP-16-2005, Addendum c-2016, Nomenclature and Definitions for Illuminating Engineering - Addendum C (addenda to ANSI/IESNA RP-16-2005): 16 February 2016

ANSI/NEMA WD6-2016, Wiring Devices - Dimensional Specifications(revision of ANSI/NEMA WD 6-2012): 11 February 2016

Draft IEC & ISO Standards

This section lists proposed standards that the International Electromechanical Commission (IEC) and International Organization for Standardization (ISO) are considering for approval. *Standards Watch* readers interested in reviewing and commenting on the document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC documents should be sent to Charles T. Zegers at czegers@ansi.org. Comments from US citizens regarding ISO documents should be sent to Karen Hughes at isot@ansi.org.

Due in March 2016

77/513/FDIS, IEC 61000-1-2: Electromagnetic compatibility (EMC) - Part 1-2: General - Methodology for the achievement of functional safety of electrical and electronic systems including equipment with regard to electromagnetic phenomena, 18 March 2016

ISO/DIS 20140-5, Automation systems and integration – Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 5: Environmental influence evaluation data – 4 March 2016

ISO/DIS 45001, Occupational health and safety management systems - Requirements with guidance for use – 13 March 2016

ISO/DIS 14055-1, Environmental management - Guidelines for establishing good practices for combating land degradation and desertification - Part 1: Good practices framework – 18 March 2016

Due in April 2016

2/1813/CD, IEC 60034-30-2 TS Ed.1: Rotating electrical machines - Part 30-2: Efficiency classes of variable speed AC motors (IE-code), 08 April 2016

100/2645/CD, IEC 62608-2 Ed.1.0: Multimedia home network configuration - Basic reference model - Part 2: Operational model (TA 8), 29 April 2016

110/736/NP, Future IEC 62595-2-3: Display lighting unit - Part 2-3: Electro-optical measuring methods of LED frontlight unit, 29 April 2016

121/14/NP, PNW 121-14: Environmental aspects for Low-Voltage Switchgear and Controlgear and their assemblies., 29 April 2016

Due in May 2016

ISO/DIS 22319, Security and resilience - Guidelines for planning the involvement of spontaneous volunteers – 7 May 2016

2/1810/DTS, IEC 60034-32 TS Ed.1: Rotating electrical machines Part 32: Measurement of stator end winding vibration at form wound windings, 06 May 2016

65/617/CDV, IEC 62890 Ed. 1.0: Life-cycle management for systems and products used in industrial-process measurement, control and automation, 13 May 2016

65/622/NP, Industrial-process measurement, control and automation-Framework to bridge the requirements for safety and security, 06 May 2016

65/623/CDV, ISO/IEC 20140-5 Ed. 1.0: Automation systems and integration - Evaluating energy efficiency and other factors of manufacturing systems that influence the environment - Part 5: Environmental influence evaluation data, 06 May 2016

65C/838/CDV, IEC 61784-3 Ed 3.0 Amd 1: Industrial communication networks - Profiles - Part 3: Functional safety fieldbuses – General rules and profile definitions, 06 May 2016

77B/751/CDV, IEC 61000-4-39 - Electromagnetic Compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test, 06 May 2016

ISO/DIS 14052, Environmental management - Material flow cost accounting - Guidance for practical implementation in a supply chain – 21 May 2016

ISO/DIS 3010, Bases for design of structures - Seismic actions on structures – 14 May 2016

ISO/DIS 37102, Sustainable development and resilience of communities - Vocabulary – 2 May 2016, $62.00

Recently Published IEC & ISO Documents

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

ISO/TS 15066:2016, Robots and robotic devices – Collaborative robots

ISO 669:2016, Resistance welding - Resistance welding equipment - Mechanical and electrical requirements

ISO/IEC/IEEE 8802-1X/Amd1:2016, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Part 1X: Port-based network access control - Amendment 1: MAC security key agreement protocol (MKA) extensions

IEC 62760 Ed. 1.0 b:2016, Audio reproduction method for normalized loudness level

IEC 62777 Ed. 1.0 en:2016, Quality evaluation method for the sound field of directional loudspeaker array system

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TSP Meeting Schedule

The TSP meeting schedule is posted at http://tsp.esta.org/tsp/meetings/index.php. The meetings scheduled at the Salt Lake City Downtown Marriott at City Creek, 75 South West Temple, are in conjunction with USITT 2016. The July meetings at the Roosevelt Hotel are in conjunction with NATEAC.

At the Salt Lake City Downtown Marriott at City Creek:		
Control Protocols WG	09:00 – 13:00	Thursday 17 March 2016
Electrical Power WG	14:00 – 18:00	Wednesday 16 March 2016
Floors Working Group	08:00 – 11:00	Saturday 19 March 2016
Fog & Smoke WG	09:00 – 11:00	Friday 18 March 2016

At the Salt Lake City Downtown Marriott at City Creek:		
Followspot Position WG (meet in ESTA booth)	14:30 – 15:00	Friday 18 March 2016
Photometrics WG	11:00 – 13:00	Friday 18 March 2016
Rigging WG	19:00 – 23:00	Thursday 17 March 2016
Rigging BSR E1.4-1 TG	15:00 – 18:00	Thursday 17 March 2016
Stage Lifts WG	09:00 – 13:00	Wednesday 17 March 2016
Technical Standards Council	19:00 – 23:00	Wednesday 16 March 2016

At the Roosevelt Hotel in New York City:		
Control Protocols Automation Study Group	14:00 – 18:00	Friday 15 July 2016
Control Protocols BSR E1.20 TG	09:00 – 13:00	Friday 15 July 2016
Control Protocols BSR E1.33 TG	14:00 – 18:00	Thursday 14 July 2016
Control Protocols BSR E1.37-4 TG	13:00 – 16:00	Saturday 16 July 2016
Control Protocols BSR E1.37-5 TG	09:00 – noon	Saturday 16 July 2016
Control Protocols WG	09:00 – 13:00	Thursday 14 July 2016
Fog & Smoke WG	14:00 – 16:00	Friday 15 July 2016
Photometrics WG	16:00 – 18:00	Friday 15 July 2016
Rigging WG	09:00 – 13:00	Friday 15 July 2016
Stage Lifts WG	09:00 – 13:00	Saturday 16 July 2016
Technical Standards Council	14:00 – 18:00	Thursday, 14 July 2016

ESTA Standards Watch

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

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