



# Technical Standards Program

## ESTA Standards Watch

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## Five ESTA Standards In Public Review

Check 'em out at [http://tsp.esta.org/tsp/documents/public\\_review\\_docs.php](http://tsp.esta.org/tsp/documents/public_review_docs.php). Four are due no later than April 11; one is due May 2.

The four with an April 11 public review end-date are:

- **BSR E1.33**, Entertainment Technology — (RDMnet) — Message Transport and Device Management of ANSI E1.20 (RDM) over IP Networks
- **BSR E1.31**, Entertainment Technology - Lightweight streaming protocol for transport of DMX512 using ACN
- **BSR E1.4-1**, Entertainment Technology - Manual Counterweight Rigging Systems
- **ANSI E1.15 - 2006**, Entertainment Technology -- Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (a reaffirmation)

One standard has a May 2 public review end-date:

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

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## One New ESTA Standard

ANSI approved a new ESTA standard on Leap Day. It is now published and available for free download on the ESTA website at <http://tsp.esta.org/freestandards>, thanks to the sponsorship of ProSight Specialty Insurance. The new standard, **ANSI E1.46, Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms**, offers requirements and guidance to help protect people from falling off stage or platform edges or into stage openings.

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## AustriAlpin Issues Courtesy Safety Notice

AustriAlpin has issued a "courtesy safety notice" to its customers telling them that a few of their Cobra buckles, which are often used in fall arrest and work positioning harnesses, do not have some rivets properly installed. They recommend that users of Cobra buckles inspect them for this defect. If they notice a buckle that is not riveted to "STOP USING the product immediately" and get in contact with AustriAlpin via email or phone: [office@austrialpin.at](mailto:office@austrialpin.at), +43 522 56 52 48. A PDF of the safety notice with pictures of correctly and incorrectly installed rivets is posted on the ESTA Standards Watch server at <http://estalink.us/68saj>.

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## 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](http://tsp.esta.org/tsp/working_groups/index.html).

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## IRS Alerts Payroll and HR Professionals to Phishing

The Internal Revenue Service has issued an alert to payroll and human resources professionals to beware of an emerging phishing email scheme that purports to be from company executives and requests personal information on employees. This phishing variation is known as a “spoofing” email. It will contain, for example, the actual name of the company chief executive officer. In this variation, the “CEO” sends an email to a company payroll office employee and requests a list of employees and information including SSNs.

The following are some of the details contained in the emails:

- Kindly send me the individual 2015 W2 (PDF) and earnings summary of all W2 of our company staff for a quick review.
- Can you send me the updated list of employees with full details (Name, Social Security Number, Date of Birth, Home Address, Salary) as at 2/2/2016.
- I want you to send me the list of W2 copy of employees wage and tax statement for 2015, I need them in PDF file type, you can send it as an attachment. Kindly prepare the lists and email them to me asap.

The IRS recently renewed a wider consumer alert for email schemes after seeing an approximate 400 percent surge in phishing and malware incidents so far this tax season and other reports of scams targeting others in a wider tax community. The emails are designed to trick taxpayers into thinking these are official communications from the IRS or others in the tax industry, including tax software companies. The phishing schemes can ask taxpayers about a wide range of topics. Emails can seek information related to refunds, filing status, confirming personal information, ordering transcripts and verifying PIN information.

The IRS, state tax agencies and tax industry are engaged in a public awareness campaign—Taxes. Security. Together—to encourage protection of personal, financial, and tax data. Please visit <https://www.irs.gov/Individuals/Taxes-Security-Together> or read Publication 4524 for more information.

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## NFPA Lithium-Ion Battery Energy Storage Systems Hazard Assessment

The NFPA has published the Fire Protection Research Foundation's report, *Hazard Assessment of Lithium Ion Battery Energy Storage Systems*, on its document information page for NFPA 70, the *National Electrical Code*, under the “about” tab, <http://estalink.us/iudyZ>. The report was done to develop a hazard assessment of the use of lithium-ion batteries in Energy Storage Systems to allow for the development of safe installation requirements and appropriate emergency response tactics.

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## ANSI Open Source Event

ANSI has announced an event, “Open Source, Open Standards, Open Minds,” to be held 15 April at the [FHI 360 Conference Center](http://www.fhi360.org/conference-center) in Washington, DC—and it's FREE. The event is intended to explore open source and its impact on the standards community and beyond. More information is available at [http://www.ansi.org/meetings\\_events/events/2016/Open-Source.aspx?menuid=3D8](http://www.ansi.org/meetings_events/events/2016/Open-Source.aspx?menuid=3D8).

McCoy Smith, patent, intellectual property, and open source attorney at Intel, will give the keynote address. Three interactive panel sessions will follow. During the first, “Industry Impact,” panelists will describe how open source is influencing the direction of their products, systems, and services. The second panel, “The Right Tool for the Job: Traditional Standards, Open Source, and Hybridization,” will feature panelists who are working effectively within the traditional and open source environments. The third panel, “IPR Policies and the Business of Standardization,” will address how intellectual property rights policies and business models have been impacted by the open source environment.

## FCC News: Revision of Part 15 for U-NII Devices and U-NII Devices in the 5 GHz Band

The FCC has published a "Memorandum Opinion and Order" addressing seven petitions for reconsideration of its First Report and Order in this proceeding, modifying rules to relax out-of-band emissions for 5.725-5.85 GHz devices, providing an alternative for manufacturers that require additional time to bring their U-NII-3 band devices into compliance, extending the deadline for certification of U-NII-3 band devices with more than 10 dBi antenna gain, and implementing other new deadlines. Full details are available at [https://apps.fcc.gov/edocs\\_public/attachmatch/FCC-16-24A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/FCC-16-24A1.pdf).

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## More FCC News: Verizon Wireless Supercookies

Verizon customers will now have the option to opt-out of Verizon Wireless's practice of inserting unique identifier headers, or so-called "supercookies," into its customers' mobile Internet traffic. These unique, undeletable identifiers, referred to as UIDH, are inserted into web traffic and are used to identify customers to deliver targeted ads from Verizon and other third parties. Furthermore, if customers had deleted cookies from their browser histories, one of Verizon's advertising partners used the UIDH supercookies to reinstate the deleted cookies, thus overriding customers' privacy choices. As a result of the FCC's investigation and settlement, Verizon Wireless is notifying consumers about its targeted advertising programs, will obtain customers' opt-in consent before sharing UIDH with third parties, and will obtain customers' opt-in or opt-out consent before sharing UIDH internally within the Verizon corporate family. In addition, Verizon Wireless must pay a fine of \$1,350,000 and adopt a three-year compliance plan. More information is available at [http://transition.fcc.gov/Daily\\_Releases/Daily\\_Business/2016/db0307/DOC-338091A1.pdf](http://transition.fcc.gov/Daily_Releases/Daily_Business/2016/db0307/DOC-338091A1.pdf).

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## WTO Technical Barrier to Trade Notifications

The U.S. Department of Commerce's service, Notify U.S., recently has announced WTO Technical Barrier to Trade notices that may be of interest to *Standards Watch* readers. If you have a problem with these notices, you can protest through your representative to the WTO. See "Guidance for Comment Submissions by U.S. Industry on TBT Notifications" at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/enterprise/tbt/> for advice on filing objections.

### Chile Notification CHL/345

**Date issued:** 2/22 February 2016

**Agency responsible:** Electricity and Fuel Board (SEC)

**National inquiry point:** Ministry of Foreign Affairs, General Directorate of International Economic Affairs

**Products covered:** Connectors for electrical installations; Electrical panel boards; Feeders and subfeeders for electrical installations; Conductors, materials and trunking systems for electrical installations; Earthing systems and equipotential bonding connections for electrical installations

**Title:** Draft Technical Regulation on the safety of electrical installations. This draft text also contains draft technical provisions for various electrical products: Draft regulatory technical provision RTIC No. 1:

Connectors for electrical installations; Draft regulatory technical provision RTIC No. 2: Electrical panel boards; Draft regulatory technical provision RTIC No. 3: Feeders and subfeeders for electrical installations; Draft regulatory technical provision RTIC No. 4: Conductors, materials and trunking systems for electrical installations; Draft regulatory technical provision RTIC No. 6: Earthing systems and equipotential bonding connections for electrical installations

**Description of content:** The notified draft Technical Regulation on the safety of electrical installations seeks to establish the minimum requirements for the proper functioning and safety of these installations, with a view to ensuring they provide an efficient service that poses no danger to people or property.

The text establishes the safety, quality and efficiency requirements to be considered when designing, constructing, bringing into service, operating and maintaining electrical installations. Such installations shall be understood to include the thermo-magnetic circuit breaker that connects the installation to the distribution network. The text also establishes draft regulatory technical provisions, thereby introducing new safety standards for various products, protection measures, systems, etc.

**Objective and rationale:** Protection of human health and safety; Quality requirements

**Relevant documents:**

- Decreto con Fuerza de Ley N° 4/20.018, de 2006, del Ministerio de Economía, Fomento y Reconstrucción, Ley General de Servicios Eléctricos (Decree Law No. 4/20.018 of 2006, of the Ministry of the Economy, Development and Reconstruction, General Law on Electrical Services)
- Decreto Supremo N° 327, de 1997, del Ministerio de Minería, Reglamento de la Ley General de Servicios Eléctricos (Supreme Decree No. 327 of 1997, of the Ministry of Mining, Regulations to the General Law on Electrical Services)
- NCH Elec. 4/2003, Electricidad. Instalaciones de consumo en baja tensión, Decreto N° 115 de 2004, del Ministerio de Economía (Chilean Standard NCH Elec. 4/2003, Electricity. Low voltage electrical installations, Decree No. 115 of 2004, of the Ministry of the Economy)
- IEC 60670-1 2015, Boxes and enclosures for electrical accessories for household and similar fixed electrical installations - Part 1: General requirements
- IEC 60364-4-41 2005, Low-voltage electrical installations - Part 4-41: Protection for safety - Protection against electric shock
- IEC 60754-1 2011, Test on gases evolved during combustion of materials from cables - Part 1: Determination of the halogen acid gas content
- IEC 60754-2 2011, Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
- IEC 61084-1 1991, Cable trunking and ducting systems for electrical installations - Part 1: General requirements
- IEC 61084-2-1 1996, Cable trunking and ducting systems for electrical installations - Part 2: Particular requirements - Section 1: Cable trunking and ducting systems intended for mounting on walls or ceilings
- IEC 61084-2-4 1996, Cable trunking and ducting systems for electrical installations - Part 2: Particular requirements - Section 4: Service poles
- IEC 61386-1 2008, Conduit systems for cable management - Part 1: General requirements
- IEC 61386-21 2002, Conduit systems for cable management - Part 21: Particular requirements - Rigid conduit systems
- IEC 61386-22 2002, Conduit Systems for cable management - Part 22: Particular requirements - Pliable conduit systems
- IEC 61386-23 2002, Conduit systems for cable management - Part 23: Particular requirements - Flexible conduit systems
- IEC 61386-24 2004, Conduit systems for cable management - Part 24: Particular requirements - Conduit systems buried underground
- IEC 61439-6 2012, Low-voltage switchgear and controlgear assemblies - Part 6: Busbar trunking systems (busways)
- IEC 61537 2006, Cable management - Cable tray systems and cable ladder systems
- DIN 4102-12 1998, Fire behaviour of building materials and building components - Part 12: Circuit integrity maintenance of electric cable systems; requirements and testing
- DIN-48201 1981, Copper stranded conductors
- ISO 4589 1996, Plastics -- Determination of burning behaviour by oxygen index -- Part 1: Guidance
- UNE-EN 1366-3 2011, Ensayos de resistencia al fuego de instalaciones de servicio. Parte 3: Sellantes de penetración (Standard UNE-EN 1366-3 2011, Fire-resistance tests for service installations. Penetration seals)
- UNE-EN 50267-2-1 1999, Métodos de ensayo comunes para cables sometidos al fuego. Ensayo de gases desprendidos durante la combustión de materiales procedentes de los cables. Parte 2: Procedimientos. Sección 1: Determinación de la cantidad de gases halógenos ácidos (Standard UNE-EN 50267-2-1 1999, Common test methods for cables under fire conditions. Test on gases evolved during combustion of materials from cables. Part 2: Procedures. Section 1: Determination of the amount of halogen acid gas)
- UNE-EN 50267-2-2 1999, Métodos de ensayo comunes para cables sometidos al fuego. Ensayo de gases desprendidos durante la combustión de materiales procedentes de los cables. Parte -2-2: Procedimientos. Determinación del grado de acidez de gases de los materiales por medida del pH y la conductividad (Standard UNE-EN 50267-2-2 1999, Common test methods for cables under fire conditions. Test on gases evolved during combustion of material from cables. Part 2-2: Procedures. Determination of degree of acidity of gases for materials by measuring pH and conductivity)
- UNE-EN 50618 2015, Cables eléctricos para sistemas fotovoltaicos (Standard UNE-EN 50618 2015, Electric cables for photovoltaic systems)

- VDE 0604-2-100 2012, Electrical installation systems for electrical energy and information - Part 2-100: Test methods for halogen-free
- VDE-0295 2005, Conductors of insulated cables (IEC 60228:2004)
- UL-486A 2013, Wire connectors
- NF F16 101 1988, Rolling stock. Fire behaviour. Materials choosing
- NF F16 102 1992, Rolling stock. Fire behaviour. Materials choosing, application for electric equipments
- IEC 60228 2004, Conductors of insulated cables
- IEC 62305-2 2010, Protection against lightning - Part 2: Risk management
- IEC 62305-3 2010, Protection against lightning - Part 3: Physical damage to structures and life hazard
- IEEE 837 2002, Standard for Qualifying Permanent Connections Used in Substation Grounding
- ASTM G162-99 2010, Standard Practice for Conducting and Evaluating Laboratory Corrosions Tests in Soils
- ASTM G1-03 2011, Standard Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens
- ASTM B8-11 2011, Standard Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft
- IEEE 81 2012, Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Grounding System
- IEC 61557-5 2007, Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 5: Resistance to earth

**Proposed date of adoption:** Not given by country

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

**Final date for comments:** 22 April 2016

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[1\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[1](spanish).pdf)  
[https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[2\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[2](spanish).pdf)  
[https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[3\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[3](spanish).pdf)  
[https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[4\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[4](spanish).pdf)  
[https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[5\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[5](spanish).pdf)  
[https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHL/full\\_text/pdf/CHL345\[6\]\(spanish\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHL/full_text/pdf/CHL345[6](spanish).pdf)

#### Indonesia Notification IDN/104

**Date issued:** 9 March 2016

**Agency responsible:** Directorate General of Metal, Machinery, Textile and Multivarious Industries

**National inquiry point:** National Standardization Agency (BSN)

**Products covered:** Portable digital automatic data processing machines, weighing not more than 10 kg, consisting of at least a central processing unit, a keyboard and a display (HS 847130, 851712)

**Title:** Decree of Minister of Industry on the Terms and Method of Calculating the Value of Local Component for Electronics and ICT Products

**Description of content:** This draft of decree states that all characteristics of the electronics and ICT product can be known the value of its local component with particular terms and methods. The product certificate on the value of its local component (TKDN) shall be issued by Director General of Metal, Machinery, Transportation and Electronics Industry, Ministry of Industry through verification products by surveyor which has been appointed by the Minister of Industry. Directorate General of Metal, Machinery, Transportation and Electronics Industry, Ministry of Industry is the institution that is responsible for the implementation of this decree and shall provide a technical guidance of the decree, which cover procedure of Product Certification.

**Objective and rationale:** Improving the calculation of the value of its local component for electronics and ICT products in accordance with the characteristics of the product and / or industry business models, including hardware manufacture, software manufacture, and research development.

**Relevant documents:** (none listed)

**Proposed date of adoption:** 24 August 2015 [last year!]

**Proposed date of entry into force:** 24 August 2015

**Final date for comments:** 8 May 2016

## 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](mailto:psa@ansi.org).

### Due 11 April 2016

**BSR ASSE Z359.12-201X, Connecting Components for Personal Fall Arrest Systems** (revision of ANSI ASSE Z359.12-2009)

Sets requirements for connector performance, design, marking, qualification, and removal from service.

Single copy price: \$80.00

Order from and send comments to: Tim Fisher, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

**BSR ASSE Z359.6-201X, Specifications and Design Requirements for Active Fall Protection Systems** (revision of ANSI ASSE Z359.6-2009)

This standard is intended for engineers, who are designated as qualified persons, with expertise in designing fall protection systems. It specifies requirements for the design and performance of complete active fall protection systems, including travel restraint and vertical and horizontal fall arrest systems.

Single copy price: \$80.00

Order from and send comments to: Tim Fisher, [TFisher@ASSE.Org](mailto:TFisher@ASSE.Org)

### Due 3 May 2016

**BSR/IEEE 3333.1.1-201x, Standard for Quality of Experience (QoE) and Visual-Comfort Assessments of Three-Dimensional (3D) Contents Based on Psychophysical Studies** (new standard)

This standard establishes methods for visual saliency prediction, visual contents analysis, and subjective assessment for quantifying the visual discomfort and quality of experience (QoE) of 3D image and video.

Single copy price: \$56.00 (pdf); \$69.00 (print)

Order from: online: <http://standards.ieee.org/store>

Send comments to: Karen Evangelista, [k.evangelista@ieee.org](mailto:k.evangelista@ieee.org)

**BSR/UL 60691-201X, Standard for Safety for Thermal-Links – Requirements and Application Guide** (revision of ANSI/UL 60691-2011)

The following changes in requirements to the Standard for Thermal-Links - Requirements and Application Guide, UL 60691, are being proposed: (1) ANSI approval of the fourth edition of UL 60691.

Single copy price: Contact comm2000 for pricing and delivery options

Obtain an electronic copy from: comm2000, <http://www.comm-2000.com>

Send comments to: Heather Sakellariou, [Heather.Sakellariou@ul.com](mailto:Heather.Sakellariou@ul.com)

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## BSI Public Review Announcements

BSI Standards has announced draft documents for public review that might be of interest to *Standards Watch* readers. The documents may be commented on at <http://drafts.bsigroup.com/>. Many of these BS draft standards deal with security personnel and their equipment and procedures. These draft standards are being listed here because effective security is necessary for successful public events and safe workplaces. An active shooter ruins a concert, but security personnel who take the Altamont Speedway Free Festival as their model also can spoil the show. The EN drafts are drafts of European standards, so they would have force everywhere within the EU.

### Due 25 March 2016

**BS 8484:2016, Provision of lone worker services – Code of practice**

This British Standard provides recommendations for lone worker services (LWSs) for customers who have identified a level of risk to their lone workers (LWs). This standard recognizes two categories of risk that affect LWs: environmental risk and people risk. Considering employee safety and security at a strategic level leads to a culture of safety at work at operational level, LW protection may be a consideration for both safety and security strategies.

#### **Due 28 March 2016**

##### **EN ISO 12354-1, Building acoustics - Estimation of acoustic performance of buildings from the performance of elements Part 1: Airborne sound insulation between rooms**

This document draft European Standard describes calculation models designed to estimate the airborne sound insulation between adjacent rooms in buildings, primarily using measured data which characterize direct or indirect flanking transmission by the participating building elements, and theoretically derived methods of sound propagation in structural elements.

#### **Due 31 March 2016**

##### **EN 233, Wallcoverings in roll form. Specification for finished wallpapers, wall vinyls and plastics wallcoverings**

This European Standard:

- specifies requirements for finished wallpapers, wall vinyls and plastics wallcoverings;
- specifies requirements for marking;
- gives the designation system.

The marking requirements of this standard are primarily for the consumer's information to enable optimum selection of the product. This standard applies to finished wallpapers, wall vinyls and plastics wallcoverings not intended for subsequent decoration supplied in rolls for hanging on indoor walls and ceilings by means of an adhesive covering the whole of the interface between the wallcovering and the support surface.

#### **Due 15 April 2016**

##### **BS 7971-5 , Protective clothing and equipment for use in violent situations and in training - Part 5: Footwear - Requirements and test methods**

This part of BS 7971 specifies requirements and test methods for footwear, which is to be used predominantly but not exclusively by police and prison officers in specialist operational situations and in training and by others who might be exposed to attack and assault in the course of their duties.

##### **BS 7971-6 , Protective clothing and equipment for use in violent situations and in training - Part 6: Gloves - Requirements and test methods**

This part of BS 7971 specifies requirements and test methods for two types of gloves, general duty gloves and public order gloves intended to be used for specialist operational activities such as public order situations and public order training.

#### **Due 18 April 2016**

##### **EN 15643-5 , Sustainability of construction works. Sustainability assessment of buildings and civil engineering works. Part 5. Framework for the assessment of sustainability performance of civil engineering works**

This European Standard provides specific principles and requirements for the assessment of environmental, social and economic performance of civil engineering works taking into account its technical characteristics and functionality. Assessments of environmental, social and economic performance are the three aspects of sustainability assessment of civil engineering works.

#### **Due 23 April 2016**

##### **BS 8549 , Security consultancy - Code of practice**

This British Standard gives recommendations for the management, resourcing and operation for the provision of contracted security consultancy services. The services offered by a security consultancy might include, but are not limited to:

- a) assessing and identifying security risks to the customer's organization;
- b) advising on the adequacy of resilience, existing security procedures, defences and processes – and outlining areas of possible improvement;
- c) development and maintenance of security policies and plans etc.;
- d) strategic security planning;
- e) crisis management;
- f) security budget management;

- g) providing security training to the customer's members of staff;
- h) pre-employment screening;
- i) workplace investigation;
- j) asset and lone worker tracking;
- k) acting as an expert witness in court cases (civil and criminal);
- l) compliance management.

This British Standard also assists procurers wishing to contract such services to ensure the service fits the end user requirements and risk profile.

#### **Due 30 April 2016**

##### **BS 8517-1, Security dogs - Part 1: Code of practice for the use of general purpose security dogs**

This British Standard gives recommendations for the operational use of a dog by a security dog handler when providing manned guarding services on a static site or mobile patrol, including records, kennelling/husbandry, dog health and welfare, equipment and clothing, training and operational requirements.

##### **BS 8517-2, Security dogs - Part 2: Code of practice for the use of detection dogs**

This part of BS 8517 gives recommendations for the operational use of a detection dog by a detection dog handler when providing passive and proactive detection services (e.g. drugs, firearms, munitions, explosives, pyrotechnics, intentionally concealed persons), including records, kennelling/husbandry, dog health and welfare, equipment and clothing, training and operational requirements.

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## **CSA Public Review Announcements**

The CSA Group has announced draft changes to the Canadian Electrical Code documents that might be of interest to *Standards Watch* readers. To participate in the public reviews please visit: <http://publicreview.csa.ca/>. One proposal is about single-conductor portable power feeder cables!

#### **Due 2 April 2016**

##### **C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4053, Disconnecting means for panelboard supplied by more than one system. (Amendment)**

Revise Rule 6-106 as shown.

6-106 Current supply from more than one system

(1) Where an installation, or part of an installation, is to be supplied with current from two or more different systems, the switching equipment controlling the various supplies shall be constructed or arranged so that it will be impossible to accidentally switch on power from one source before power from another has been cut off.

(2) Where either automatic or manual transfer switches are used to transfer equipment or electrical panels between two power sources such as a normal and emergency power supply, a main disconnect or circuit breaker shall be installed at the point of supply to such equipment or electrical panel.

##### **C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4054, Disconnecting means for panelboards.**

Add new Rule 26-404 as shown.

26-404 Panelboard disconnecting means

Panelboards located in the following areas are to have an integral main breaker or local disconnect for servicing

(a) panelboards located in a separate building from the source of supply;

(b) panelboards where the voltage to ground or neutral exceeds 120 volts;

(c) panelboards where the supply breaker does not have a means off locking in the "OFF" position; and

(d) panelboards where the supply breaker is more than 50 meters from the source of supply.

##### **C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4056, Transfer switch control connections. (Amendment)**

Add new Rule 46-214 as shown.

46-214 Transfer switch control connections

Where the transfer switch control described in Rule 46-202(3)(b) is wired to a main distribution panel and not emergency lighting circuits, a central generator will not be acceptable for providing reliable emergency lighting to NBC requirements.

**C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4057, Filler plates in panelboards. (Amendment)**

Add new Rule 26-406 as shown.

26-406 Panelboard filler plates

Any filler plates to cover open branch breaker positions shall be of the same metal gauge as the original panel enclosure.

**Due 24 April 2016**

**C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4067, Revision to definition of “Inaccessible”. (Amendment)**

Revise definition for “Inaccessible” as shown.

Inaccessible —

(a) when applied to a room or compartment, signifies that the room or compartment is sufficiently remote from access or placed or guarded so that unauthorized persons cannot inadvertently enter the room or compartment; and

(b) when applied to electrical equipment, signifies that the electrical equipment is covered by the structure or finish of the building in which it is installed or maintained, or is sufficiently remote from access or placed so that unauthorized persons cannot inadvertently touch or interfere with the energized parts of equipment.

**Due 26 April 2016**

**C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4068, Deletion of Subrules 66-456(7) and (8). (Amendment)**

Delete Subrules 66-456(7) and (8)

66-456 Single-conductor cable connections (see Appendix I)

(1) Connections to single-conductor cables shall not be accessible to unqualified persons.

(2) Plug-in connectors for single-conductor cables shall

(a) be of a locking type;

(b) incorporate a mechanical interlock to prevent wrong connections or be colour-coded; and

(c) have all connections that are not in use covered with a seal or cap that is acceptable.

(3) Single-conductor cables shall not be connected in parallel except as a means of reducing voltage drop, and cables so connected shall have overcurrent protection sized to protect the cable having the smallest ampacity as though it were used alone.

(4) Tapping tees, paralleling tees, or rigid turnarounds shall

(a) not be directly connected to any single-pin plug or connector rigidly housed or mounted in a multiple connection device;

(b) not be directly connected to a panel mount inlet or outlet or to a multiple connection device with a cable less than 2 m in length; and

(c) be arranged so that no mechanical strain is imposed on the connection.

(5) In-line single-conductor cable connections forming part of a circuit of more than 150 volts-to-ground shall be mechanically protected by enclosing the connector(s) in a lockable, non-conductive box or similar enclosure.

(6) The lockable enclosure referred to in Subrule (5) shall

(a) be labelled on the outside, in a conspicuous, legible, and permanent manner, identifying the supply voltage of the circuit; and

(b) be acceptable.

~~(7) No more than one tapping or parallel tee per conductor shall be used at any one point in a power distribution system.~~

~~(8) Any distribution splitting or combining devices requiring more than two load connections per conductor shall use a single, approved multiple connection device at that point.~~

## New ANS Projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in the project, or (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

### **BSR ASA S3.41-201x, Audible Emergency Evacuation (E2), Evacuation Signals with Relocation Instructions (ESRI), and Carbon Monoxide Notification Signals (T4)** (revision of ANSI ASA S3.41-2015)

This standard specifies the characteristics of acoustic signals used for audible emergency evacuation, audible evacuation signals with relocation instructions, and carbon monoxide notification signals. It applies to the audible signal only and not to the signaling system components or equipment. These audible emergency signals are intended to draw the attention of all persons within the signal reception area to an emergency situation so that they can take the required action.

Contact: Susan Blaeser, [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

### **BSR/ASSE Z88.10-201X, Respirator Fit Testing Methods** (revision and redesignation of ANSI/AIHA Z88.10-2010)

This standard provides guidance on how to conduct fit testing of tightfitting respirators and appropriate methods to be used. Fit testing is only one element of a complete respiratory protection program. Examples of complete respiratory protection programs are defined in ANSI Z88.2, 29 CFR 1910.134 (OSHA), etc.

Contact: Ovidiu Munteanu, [OMunteanu@ASSE.org](mailto:OMunteanu@ASSE.org)

### **BSR/ASSE Z88.6-201X, Respiratory Protection - Respirator Use - Physical Qualifications for Personnel** (revision and redesignation of ANSI/AIHA Z88.6-2006)

This standard provides information that is useful for the medical evaluation of respirator users. This standard does not deal with medical surveillance or biological exposure monitoring. It is understood that local circumstances vary, that no set of guidelines can cover all situations, and that specific programs and procedures should be modified for each individual workplace. Medical evaluation is only one element of a complete respiratory protection program.

Contact: Ovidiu Munteanu, [OMunteanu@ASSE.org](mailto:OMunteanu@ASSE.org)

### **BSR/ILTVA Z130.1-201x, Standard for Golf Cars - Safety and Performance Specifications** (revision of ANSI/ILTVA Z130.1-2012)

The existing standard provides safety and performance specifications relating to golf cars. A golf car is a vehicle used to convey a person or persons and equipment to play the game of golf in an area designated as a golf course. [Of course, in the entertainment industry, golf carts are frequently used for transportation at music festivals not sited on golf courses.]

Contact: Fred Somers, [fsomers@iltva.org](mailto:fsomers@iltva.org)

### **BSR/NASPO BC-201x, Minimum Security Requirements for Official Certificates of Birth** (new standard)

The scope of this standard will define minimum security requirements for the design, production, transportation and issuance of government issued birth certificates used for official purposes. The standard will not establish requirements for the handling of Personal Identity Information (PII) or the inputting of that data into the birth certificates. [At last, a standards project for Birthers!]

Contact: Michael O'Neil, [mikeo@naspo.info](mailto:mikeo@naspo.info)

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## 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 Addendum 62.1e-2016**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 24 February 2016

**ANSI/ASHRAE Addendum 62.1h-2016**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 24 February 2016

**ANSI/ASHRAE Addendum 62.1i-2016**, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2013): 24 February 2016

**ANSI/ASHRAE/IES 90.1al-2016**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 24 February 2016

**ANSI/ASHRAE/IES 90.1aq-2016**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 24 February 2016

**ANSI/ASHRAE/IES 90.1ba-2016**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 24 February 2016

**ANSI/ASHRAE/IES 90.1ce-2016**, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IESNA Standard 90.1-2013): 24 February 2016

**ANSI/QIF Part 1-2015 & ANSI/QIF Part 2-2015**, Quality Information Framework - QIF Library Information Model and XML Schema Files v2.1 (revision and redesignation of ANSI/DMSC QIF Part 1-2014 and ANSI/DMSC QIF Part 2-2014): 19 February 2016

**ANSI/QIF Part 3-2015**, Quality Information Framework, Model Based Definition, information Model and XML Schema Files 2.1 (revision and redesignation of ANSI/DMSC QIF Part 3-2014): 19 February 2016

**ANSI/QIF Part 4-2015**, Quality Information Framework (QIF) – An Integrated Model for Manufacturing Quality Information; Part 4: QIF Plans Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF 1.0, Part 4, v1.0-2013): 19 February 2016

**ANSI/QIF Part 5-2015**, Quality Information Framework – QIFResources Information Model and XML Schema Files v. 2.1 (revision and redesignation of ANSI/DMSC QIF Part 5-2014): 19 February 2016

**ANSI/QIF Part 6-2015**, Quality Information Framework (QIF) – An Integrated Model for Manufacturing Quality Information; Part 6: QIF Rules Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 6-2014): 19 February 2016

**ANSI/QIF Part 7-2015**, Quality Information Framework (QIF) – An Integrated Model for Manufacturing Quality Information; Part 7: QIF Results Information Model and XML Schema File Version 2.1 (revision and redesignation of ANSI/DMSC QIF Part 7-2014): 19 February 2016

**ANSI/QIF Part 8-2015**, Quality Information Framework Statistics v.2.1 (revision and redesignation of ANSI/DMSC QIF Part 8-2014): 19 February 2016

**ANSI/TIA 5017-2016**, Telecommunications - Physical Network Security Standard (new standard): 19 February 2016

**ANSI/TIA 862-B-2016**, Structured Cabling Infrastructure Standard for Intelligent Building Systems (revision and redesignation of ANSI/TIA 862-A-2011): 29 February 2016

**ANSI/UL 1558-2016**, Standard for Safety for Metal-Enclosed Low- Voltage Power Circuit Breaker Switchgear (new standard): 18 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](mailto:czegers@ansi.org). Comments from US citizens regarding ISO documents should be sent to Karen Hughes at [isot@ansi.org](mailto:isot@ansi.org). The sort order is by deadline month and then by designation. The prices, when shown, are for purchases through ANSI; prices elsewhere may differ.

### Due March 2016

**ISO/DIS 18668-2**, Traditional Chinese medicine - Coding System of Chinese Medicines - Part 2: Codes of Decoction Pieces – 18 March 2016, \$134.00

**ISO/DIS 18668-3**, Traditional Chinese medicine - Coding System of Chinese Medicines - Part 3: Codes of Chinese Materia Medica – 19 March 2016, \$112.00

**ISO/DIS 18668-4**, Traditional Chinese medicine - Coding System of Chinese Medicines - Part 4: Codes of granule forms of individual medicinals for prescriptions - 19 March 2016, \$134.00

**ISO/DIS 4309**, Cranes - Wire ropes - Care and maintenance, inspection and discard – 26 March 2016, \$125.00

**ISO/DIS 9241-220**, Ergonomics of human-computer interaction – Part 220: Processes for enabling, executing and assessing humancentred design within organizations - 19 March 2016, \$146.00

### Due April 2016

**34B/1850/FDIS, IEC 60838-1 Ed.5**: Miscellaneous lampholders – Part 1: General requirements and tests, 1 April 2016

**34B/1850A/FDIS, IEC 60838-1 Ed.5**: Miscellaneous lampholders – Part 1: General requirements and tests, 1 April 2016 [The designation is one letter different.]

**34B/1851/FDIS, IEC 60838-2-3 Ed.1**: Miscellaneous lampholders - Part 2-3: Particular requirements - Lampholders for double-capped linear LED-lamps, 1 April 2016

**34D/1202/FDIS, Amendment 2 to IEC 60598-2-13 Ed.1**: Luminaires - Part 2-13: Particular requirements - Ground recessed luminaires, 8 April 2016

**38/503/FDIS, IEC 62689-1**: Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 1: general principles and requirements, 8 April 2016

**38/504/FDIS, IEC 62689-2**: Current and voltage sensors or detectors, to be used for fault passage indication purposes - Part 2: System aspects, 1 April 2016

**42/341/FDIS, IEC 61180/Ed1**: High-voltage test techniques for low-voltage equipment - Definitions, test and procedure requirements, test equipment, 8 April 2016

**46C/1037/FDIS, IEC 61156-9/Ed.1**: Multicore and Symmetrical Pair/Quad Cables for Digital Communications - Part 9: Cables for channels with transmission characteristics up to 2 GHz – Sectional specification, 1 April 2016

**46C/1038/FDIS, IEC 61156-10/Ed.1**: Multicore and Symmetrical Pair/Quad Cables for Digital Communications - Part 10: Cables for cords with transmission characteristics up to 2 GHz – Sectional specification, 1 April 2016

**81/508/FDIS, IEC 62793 Ed.1**: Protection against lightning - Thunderstorm warning systems, 1 April 2016

## Due May 2016

**35/1356/CDV, IEC 62281/Ed3:** Safety of primary and secondary lithium cells and batteries during transport, 20 May 2016

**65A/781/CDV, IEC 61326-3-1 Ed. 2: Part 3-1:** Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications, 27 May 2016

**65A/782/CDV, IEC 61326-3-2 Ed. 2:** Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment, 27 May 2016

**65C/839/CDV, IEC 62948 Ed 1.0:** Industrial networks – Wireless communication network and communication profiles – WIA-FA, 27 May 2016

**78/1141/CDV, IEC 60895:** Live working - Conductive clothing, 27 May 2016

**ISO/DIS 15746-2,** Automation systems and integration - Integration of advanced process control and optimization capabilities for manufacturing systems - Part 2: Activity models and information exchange -26 May 2016, \$112.00

**ISO/DIS 532-1,** Acoustics - Method for calculating loudness - Part 1: Stationary sounds - 5/25/2016

**ISO/DIS 532-2,** Acoustics - Methods for calculating loudness - Part 2: Moore-Glasberg method – 5/25/2016

**ISO/DIS 7250-1,** Basic human body measurements for technological design - Part 1: Body measurement definitions and landmarks -26 May 2016

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## 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>.

**IEC 61511-1 Ed. 2.0 b:2016,** Functional safety - Safety instrumented systems for the process industry sector - Part 1: Framework, definitions, system, hardware and application programming requirements, \$351.00

**IEC 61511-SER Ed. 1.0 b:2016,** Functional safety – Safety instrumented systems for the process industry sector - ALL PARTS, \$935.00

**IEC 62439-1 Amd.2 Ed. 1.0 b:2016,** Amendment 2 – Industrial communication networks - High availability automation networks - Part 1: General concepts and calculation methods, \$17.00

**IEC 62439-1 Ed. 1.2 b:2016,** Industrial communication networks – High availability automation networks - Part 1: General concepts and calculation methods, \$424.00

**IEC 62595-1-2 Ed. 2.0 en:2016,** Display lighting unit - Part 1-2: Terminology and letter symbols, \$157.00

**IEC/TR 61000-1-7 Ed. 1.0 en:2016,** Electromagnetic compatibility (EMC) - Part 1-7: General - Power factor in single-phase systems under non-sinusoidal conditions, \$230.00

**IEC/TS 62436 Amd.1 Ed. 1.0 en:2016, Amendment 1** - Guideline for implementation of copy controlled multimedia interface, \$22.00

**IEC/TS 62436 Ed. 1.1 en:2016,** Guideline for implementation of copy controlled multimedia interface, \$145.00

**ISO 10303-21:2016**, Industrial automation systems and integration - Product data representation and exchange - Part 21: Implementation methods: Clear text encoding of the exchange structure, \$51.00

**ISO 11145:2016**, Optics and photonics - Lasers and laser-related equipment - Vocabulary and symbols, \$149.00

**ISO 12707:2016**, Non-destructive testing - Magnetic particle testing - Vocabulary, \$51.00

**ISO 7870-6:2016**, Control charts - Part 6: EWMA control charts, \$149.00

**ISO 8903:2016**, Broadleaved sawn timber - Nominal sizes, \$51.00

**ISO 9241-161:2016**, Ergonomics of human-system interaction – Part 161: Guidance on visual user-interface elements, \$240.00

**ISO/IEC 23001-7:2016**, Information technology - MPEG systems technologies - Part 7: Common encryption in ISO base media file format files, \$149.00

**S+ IEC 61511-1 Ed. 2.0 en:2016** (Redline version), Functional safety - Safety instrumented systems for the process industry sector – Part 1: Framework, definitions, system, hardware and application programming requirements, \$494.00

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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](#).

<b>At the Salt Lake City Downtown Marriott at City Creek:</b>		
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
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

<b>At the Roosevelt Hotel in New York City:</b>		
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

<b>At the Roosevelt Hotel in New York City:</b>		
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

Note that there will be no coffee or other beverages offered in the July meetings. The Roosevelt Hotel charges dinner-prices for beverages at meetings, thus putting providing refreshments out of budget. There are many coffee and snack places within the hotel, next door, or across the street. Take your pick and bring your own.

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## 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](#).



## Investors in Innovation

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