



# Technical Standards Program

## ESTA Standards Watch

April 2022   Volume 26, Number 7

---

### Table of Contents

Five ESTA docs in public review.....	1
Call for interest in a weapons safety working group.....	1
Version 2.0 of International Code of Practice for Entertainment Rigging now available.....	1
New UK product regulation regime.....	1
WTO Technical Barrier to Trade notifications.....	1
China Notification CHN/1662.....	1
United States of America Notification USA/1846.....	1
United States of America Notification USA/1845.....	1
ANSI public review announcements.....	1
Due 8 May 2022.....	1
Due 16 May 2022.....	1
Due 23 May 2022.....	1
BSI public review.....	1
Due 30 May 2022.....	1
New ANS projects.....	1
Final actions on American National Standards.....	1
Draft IEC & ISO documents.....	1
Recently published IEC & ISO documents.....	1
TSP meeting schedule.....	1
TSP donors who have made long-term, multi-year pledges.....	1
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	1

---

### Five ESTA docs in public review

Five documents are available for public review through May 23 on the ESTA TSP website at [https://tsp.estaprogram.org/tsp/documents/public\\_review\\_docs.php](https://tsp.estaprogram.org/tsp/documents/public_review_docs.php). The downloads are free.

**BSR E1.68, Recommended Practice for Compliance and Interoperability in DMX512-A Systems**, is a new draft standard, a recommended practice for evaluating DMX512-A (ANSI E1.11) equipment interoperability, to help minimize problems in the field associated with violations of critical elements of the standard. The recommended practice does not attempt to assure 100% compliance with all requirements in the ANSI E1.11 standard; it will focus on those that have been proven to make interoperability unlikely or unreliable.

**BSR E1.76, Wire Rope Tension Grids**, is a new draft standard for wire rope tension grids covering design and application criteria, including the loading, self-weight considerations, transitions between levels, and suspension from structure. It provides deflection criteria for structural elements and the woven mesh. The standard offers guidance on openings, including trap doors and bays similar to loft-wells. It provides requirements for hand rails and step units, and considerations for other accessories.

**E1.32, Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires.** ANSI E1.32 is being considered for reaffirmation. The document provides guidance in the inspection of stage and studio luminaires that use incandescent sources and that are used in the entertainment industry. The inspection is to evaluate their safety and any needed maintenance. The information contained in this document is intended to supplement the information contained in manufacturer's maintenance instructions.

**E1.37-1, Additional Message Sets for ANSI E1.20 (RDM) -- Part 1, Dimmer Message Sets.** ANSI E1.37-1 is being considered for reaffirmation. It provides additional get/set parameter messages (PIDs). Most of the messages in this document are intended for use with entertainment lighting dimming systems. These additional messages allow access to configuration parameters commonly found in many theatrical dimming systems.

**E1.58, Electrical Safety Standard for Portable Stage and Studio Equipment Used Outdoors,** identifies hazards associated with the outdoor use of portable stage and studio lighting equipment and portable power distribution equipment that is not identified (listed) for outdoor use. It recommends practices for qualified personnel to use to mitigate the identified hazards at outdoor entertainment events and media production sites in the United States. The existing standard is being considered for reaffirmation.

The reviews are over when May 24 starts. May 23 is the last day to submit comments.

---

### **Call for interest in a weapons safety working group**

A proposal has been received for ESTA's Technical Standards Program to develop a new American National Standard for "Weapons Safety in Entertainment Event Production." The Technical Standards Council is considering forming a new working group for the standard's creation. If you are interested in being part of this working group, please say so by writing to [standards@esta.org](mailto:standards@esta.org). Please indicate if you would want to be a voting member or an observer, and what your interest category would be. The interest categories are not set yet, but would certainly include performers, special experts in fight choreography and weapons safety; property (weapons) suppliers; special effects technicians, event designers or directors, insurance, and general interest.

The purpose of this project is to create a guidance document for the safe use of weapons or weapon-like properties (props) in entertainment event productions. It would cover prop weapons such as those that look like firearms (whether capable of firing cartridges or not), edged weapons (e.g., swords and knives), and projectiles (e.g. arrows and darts). The standard would only cover weapons and weapon-like props used on stages, in motion picture studios, or on motion picture locations in the production of a staged or filmed event. It would not cover weapons used by security forces or carried by audience members or staff for personal protection. It also would not cover weapons used in sporting events, such as bullseye pistol or fencing competitions. The primary goal is to eliminate injuries and deaths from weapons or weapon-like props used in entertainment productions, such as stagings of *Hamlet* or *Of Mice and Men*, or the filming of Westerns. Secondary goals would be to quickly narrow down what should have been done when people are injured, and avoid problems when politicians propose laws not founded on industry practice because weapons safety appears to them to be unknown territory.

It is not terra incognita; there is lots of guidance and regulations covering this topic. However, a lot comes from particular local government or union rules. It's easy for someone to dismiss, for example, Actors' Equity's advice for stage actors as irrelevant to motion picture work, although both Equity's *Safety Tips for Use of Firearms* (<http://estalink.us/ujq8j>) and *Safety Bulletin #1* for the motion picture industry (<http://estalink.us/frkfn>) say to treat all firearms as though they are loaded—as does *Stage Combat/Stunts and Weaponry Safety Guideline for the Live Performance Industry in Ontario* (<http://estalink.us/gylj4>), which is a government regulation in that province. There's tremendous commonality in the guidance, but nothing with the status of a national standard, which in being a standard says it's the consensus of the industry, and makes it a harder for someone to decide, "Oh, none of those IATSE/AMPTP/Equity/Canadian rules apply to our low-budget, independent production—so never mind."

If you're interested, please write to [standards@esta.org](mailto:standards@esta.org) and tell us what expertise and material interest you might bring to the table.

## **Version 2.0 of International Code of Practice for Entertainment Rigging now available**

ESTA and PLASA have announced the release of Version 2.0 of the **International Code of Practice for Entertainment Rigging** (ICOPER), which is available as a free download at [www.est.org/icoper](http://www.est.org/icoper) and [www.plasa.org/icoper](http://www.plasa.org/icoper). The authors believe that acceptance of this code will help promote regulatory harmony and reduce potential conflicts in practice between regions around the world.

Key areas covered in ICOPER include:

1. pre-installation;
2. planning and engineering;
3. drawing conventions;
4. equipment selection;
5. onsite rigging work, lifting operations, show rigging operations, de-rigging work; and
6. post production.

A glossary, an appendix covering determinate and indeterminate rigging systems, and a regional comparison of terms also are provided.

---

## **New UK product regulation regime**

The UK government has introduced a new product regulation regime, introducing designated standards that support conformity with the relevant UKCA marking regulation in Great Britain. New or revised standards for designation published after 1 January 2021 contain information about the new UK regulations for Great Britain and for Northern Ireland within the national foreword.

The approach to market regulation and trade within the UK and devolution is set out in the UK Internal Market Act 2020. The Northern Ireland Protocol, agreed with the EU in 2019, makes exception for certain laws within Northern Ireland, including product regulation. The UK government has therefore updated EU CE marking and similar pre-existing product regulations, including general product safety regulations, and the updates took effect from the end of the EU exit transition period. The new product regulations split the UK territory into two parts: Great Britain (England, Scotland and Wales) and Northern Ireland.

More information is available at <https://www.bsigroup.com/en-GB/about-bsi/uk-national-standards-body/standards-and-regulation/>

---

## **WTO Technical Barrier to Trade notifications**

Notify US, the U.S. Department of Commerce's service to announce Technical Barrier to Trade filings, has announced TBTs that may be of interest to *Standards Watch* readers. If you have a problem with any TBT, you can protest through your representative to the World Trade Organization.

### **China Notification CHN/1662**

**Date issued:** 29 March 2022

**Agency responsible:** WTO/TBT National Notification and Enquiry Center of the People's Republic of China

**National inquiry point:** WTO/TBT National Notification and Enquiry Center of the People's Republic of China

**Products covered:** High-risk special products HS 3002; HS 3822; HS 2934; HS 3001 (Part of the products in these four HS codes)

**Title:** Administrative Measures for Health Quarantine Access of High-risk Special Products (18 pages in Chinese)

**Description of content:** These measures apply to the quarantine access management of high-risk special products that contain or may contain pathogenic microorganisms, including initial access application and application for resuming after suspension.

These measures clarify the authority in charge and access applicants, specify the access procedures, including access application, questionnaire survey, risk assessment, result notification, etc., and specify the supervision and administration of the General Administration of Customs on quarantine access of special products.

**Objective and rationale:** Protection of human health or safety

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

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

**Final date for comments:** 28 May 2022

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/CHN/full\\_text/pdf/CHN1662\(simplified\\_chinese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHN/full_text/pdf/CHN1662(simplified_chinese).pdf)

## United States of America Notification USA/1846

**Date issued:** 31 March 2022

**Agency responsible:** Office of Energy Efficiency and Renewable Energy (OEERE)

**National inquiry point:** USA WTO TBT Enquiry Point

**Products covered:** Commercial heating and air-conditioning equipment; Air conditioning machines comprising a motor-driven fan and elements for changing the temperature and humidity, incl. those machines in which the humidity cannot be separately regulated; parts thereof (HS code(s): 8415); Refrigerators, freezers and other refrigerating or freezing equipment, electric or other; heat pumps; parts thereof (excl. air conditioning machines of heading 8415) (HS code(s): 8418); Machinery, plant or laboratory equipment whether or not electrically heated (excl. furnaces, ovens and other equipment of heading 8514), for the treatment of materials by a process involving a change of temperature such as heating, cooking, roasting, distilling, rectifying, sterilising, pasteurising, steaming, drying, evaporating, vaporising, condensing or cooling (excl. those used for domestic purposes); instantaneous or storage water heaters, non-electric; parts thereof (HS code(s): 8419); Electric instantaneous or storage water heaters and immersion heaters; electric space-heating apparatus and soil-heating apparatus; electro-thermic hairdressing apparatus, e.g. hairdryers, hair curlers and curling tong heaters, and hand dryers; electric smoothing irons; other electro-thermic appliances of a kind used for domestic purposes; electric heating resistors (other than those of heading 8545); parts thereof (HS code(s): 8516)

**Title:** Energy Conservation Program: Energy Conservation Standards for Air Cooled, Three-Phase, Small Commercial Air Conditioners and Heat Pumps With a Cooling Capacity of Less Than 65,000 Btu/h and Air-Cooled, Three-Phase, Variable Refrigerant Flow Air Conditioners and Heat Pumps With a Cooling Capacity of Less Than 65,000 Btu/h (23 pages in English)

**Description of content:** Notice of proposed rulemaking and request for comment - The Energy Policy and Conservation Act, as amended ("EPCA"), prescribes energy conservation standards for various consumer products and certain commercial and industrial equipment, including small, large, and very large commercial package air conditioning and heating equipment, of which air cooled, three-phase, small commercial air conditioners and heat pumps with a cooling capacity of less than 65,000 Btu/h and air-cooled, three-phase, variable refrigerant flow air conditioners and heat pumps with a cooling capacity of less than 65,000 Btu/h are categories. EPCA requires the U.S. Department of Energy ("DOE" or "the Department") to consider the need for amended standards each time the relevant industry standard is amended with respect to the standard levels or design requirements applicable to that equipment, or periodically under a six-year-lookback review provision. For the three-phase equipment that is the subject of this notice of proposed rulemaking ("NOPR"), DOE is proposing amended energy conservation standards that rely on new efficiency metrics and align with amended efficiency levels in the industry standard. DOE has preliminarily determined that it lacks clear and convincing evidence required by the statute to adopt standards more stringent than the levels specified in the industry standard. This NOPR also announces a webinar to receive comment on these proposed standards and associated analyses and results.

**Objective and rationale:** Prevention of deceptive practices and consumer protection; Protection of the environment

**Relevant documents:** 87 Federal Register (FR) 18290, 30 March 2022; Title 10 Code of Federal Regulations (CFR) Part 431: <https://www.govinfo.gov/content/pkg/FR-2022-03-30/pdf/2022-06450.pdf>. This notice of proposed rulemaking and request for comment is identified by Docket Number EERE-2022-BT-STD-0008. The Docket Folder is available from Regulations.gov at <https://www.regulations.gov/docket/EERE-2022-BT-STD-0008/document> and provides access to primary documents as well as comments received. Documents are also accessible from Regulations.gov by searching the Docket Number. WTO Members and their stakeholders are asked to submit comments to the USA TBT Enquiry Point by or before 4pm Eastern Time on 31 May 2022. Comments received by the USA TBT Enquiry Point from WTO Members and their stakeholders will be shared with the regulator and will also be submitted to the Docket on Regulations.gov if received within the comment period. G/TBT/N/USA/952 and G/TBT/N/USA/952/Add.1 - Energy Conservation

Program for Certain Industrial Equipment: Energy Conservation Standards and Test Procedures for Commercial Heating, Air-Conditioning, and Water-Heating Equipment, a Notice of proposed rulemaking (NOPR) and announcement of public meeting and a Final Rule identified by Docket Number EERE-2014-BT-STD-0015.

G/TBT/N/USA/1659 - Energy Conservation Program: Energy Conservation Standards for Computer Room Air Conditioners and Air-Cooled, Three-Phase, Small Commercial Package Air Conditioning and Heating Equipment With a Cooling Capacity of Less Than 65,000 Btu/h, Notification of data availability and request for information, identified by Docket Number EERE-2020-BT-STD-0008.

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

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

**Final date for comments:** 31 May 2022

**Full text:** <https://www.govinfo.gov/content/pkg/FR-2022-03-30/pdf/2022-06450.pdf>

#### United States of America Notification USA/1845

**Date issued:** 31 March 2022

**Agency responsible:** Coast Guard, Department of Homeland Security (DHS)

**National inquiry point:** USA WTO TBT Enquiry Point

**Products covered:** Electronic chart and navigational equipment

**Title:** Electronic Chart and Navigational Equipment Carriage Requirements (6 page(s), in English)

**Description of content:** Advance notice of proposed rulemaking - The Coast Guard seeks public input regarding the modification of the chart and navigational equipment carriage requirements in the Code of Federal Regulations (CFR). This advance notice of proposed rulemaking (ANPRM) outlines the Coast Guard's broad strategy to revise its CFR chart and navigational equipment carriage requirements to implement statutory electronic-chart-use provisions for commercial U.S.-flagged vessels and certain foreign-flagged vessels operating in the waters of the United States. This ANPRM is necessary to obtain additional information from the public before issuing a notice of proposed rulemaking. It will allow us to verify the extent of the requirements for the rule, such as how widely electronic charts currently are used, which types of vessels are using them, the appropriate equipment requirements for different vessel classes, and where the vessels operate, and will thereby allow us to tailor electronic chart requirements to vessel class and location.

**Objective and rationale:** Protection of human health or safety

**Relevant documents:** 87 Federal Register (FR) 17241, 28 March 2022; Title 46 Code of Federal Regulations (CFR) Parts 25, 26, 28, 32, 35, 77, 78, 96, 97, 108, 109, 121, 130, 140, 167, 169, 184, 195, and 196: <https://www.govinfo.gov/content/pkg/FR-2022-03-28/pdf/2022-06416.pdf>

This advanced notice of proposed rulemaking is identified by Docket Number USCG-2021-0291. The Docket Folder is available from Regulations.gov at

<https://www.regulations.gov/docket/USCG-2021-0291/document> and provides access to primary documents as well as comments received. Documents are also accessible from Regulations.gov by searching the Docket Number. WTO Members and their stakeholders are asked to submit comments to the USA TBT Enquiry Point by or before 4pm Eastern Time on 27 June 2022. Comments received by the USA TBT Enquiry Point from WTO Members and their stakeholders will be shared with the regulator and will also be submitted to the Docket on Regulations.gov if received within the comment period.

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

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

**Final date for comments:** 27 June 2022

**Full text:** <https://www.govinfo.gov/content/pkg/FR-2022-03-28/pdf/2022-06416.pdf>

---

#### ANSI public review announcements

The following documents have been announced for public review by ANSI and may be of material interest to *Standards Watch* readers. If you have comments on them, 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 8 May 2022**

### **BSR/ASHRAE Addendum 62.2m-202x, Ventilation and Acceptable Indoor Air Quality in Residential Buildings** (addenda to ANSI/ASHRAE Standard 62.2-2019)

This proposed addendum increases the designated minimum efficiency of certain filters from MERV 6 to MERV 11, with comparable increases to minimum particle size efficiencies established using AHRI Standard 680. This change is proposed to improve indoor air quality by reducing the concentration of particulate matter, specifically by establishing a minimum performance to address particulates with a diameter of 0-2.5 µm.

Send comments to Online Comment Database at <https://www.ashrae.org/technicalresources/standards-and-guidelines/public-review-drafts>

## **Due 16 May 2022**

### **BSR/AISC 342-202x, Seismic Provisions for the Evaluation and Retrofit of Existing Structural Steel Buildings** (new standard)

Seismic Provisions for Evaluation and Retrofit of Existing Structural Steel Buildings governs the seismic evaluation and retrofit of structural steel components of the seismic force-resisting system of existing buildings. The requirements of these provisions apply to existing structural steel components, retrofitted steel components , and new structural steel components added to an existing building system.

Single copy price: \$35.00

Order from Martin Downs, [downs@aisc.org](mailto:downs@aisc.org)

Send comments to Cynthia Duncan, [duncan@aisc.org](mailto:duncan@aisc.org)

### **BSR/HPVA LTDD 2.0-202x, Due Diligence in Procuring/Sourcing Legal Timber** (revision and redesignation of ANSI/HPVA LTDD 1.0-2015)

This consensus voluntary standard serves to document a common understanding of the most suitable internal Due Diligence Quality Assurance Program for establishing confidence that illegal timber is excluded from the timber supply chain. Application of this standard enables both suppliers and customers to meet the due care requirements of the U.S. Lacey Act, and supports conformity with the EU Timber Regulation and other legal timber requirements worldwide. The flexibility of this standard's structure facilitates its incorporation into a company's existing legality and chain of custody programs. Entities may choose to self-certify or to engage a third party, with or without ISO/IEC 17065 or ISO/IEC 17021 credentials, to perform an independent audit.

Single copy price: Free

Obtain an electronic copy from [jhosen@decorativehardwoods.org](mailto:jhosen@decorativehardwoods.org)

Send comments to [jhosen@decorativehardwoods.org](mailto:jhosen@decorativehardwoods.org)

### **BSR/NEMA PB 1.1-202x, General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less** (revision and redesignation of ANSI/NEMA PB 1.1-2013)

This publication covers single panelboards or groups of panel units suitable for assembly in the form of single panelboards, including buses, and with or without switches or automatic overload protective devices (fuses or circuit breakers), or both. These units are used in the distribution of electricity at 600 volts and less with:

- 1600-ampere mains or less; or
- 1200-ampere branch circuits or less.

Specifically excluded are live-front panelboards, panelboards employing cast enclosures for special service conditions, and panelboards designed primarily for residential and light commercial service equipment.

Single copy price: Free!!!

Order from and send comments to [zijun.tong@nema.org](mailto:zijun.tong@nema.org)

### **BSR/NEMA PB 2.1-202x, General Instructions for Proper Handling, Installation, Operation, and Maintenance of Deadfront Distribution Switchboards Rated 600 Volts or Less** (revision and redesignation of ANSI/NEMA PB 2.1-2013)

This publication covers floor-mounted deadfront switchboards which consist of an enclosure; molded-case and low-voltage power circuit breakers; fusible or non-fusible switches; instruments; and metering, monitoring, or control equipment, with associated interconnections and supporting structures. These units are used in electricity distribution at 600 volts or less, and 6000 amperes or less.

Single copy price: Free!!

Order from and send comments to [zijun.tong@nema.org](mailto:zijun.tong@nema.org)

## **Due 23 May 2022**

### **BSR/ASHRAE Addendum 62.1ab-202x, Ventilation for Acceptable Indoor Air Quality** (addenda to ANSI/ASHRAE Standard 62.1-2019)

Using CO<sub>2</sub> to control outdoor air ventilation rates, called Demand Control Ventilation (DCV), has become increasingly popular to achieve energy savings in buildings that have varying occupancy rates. Specific requirements are therefore needed on how to use CO<sub>2</sub> concentration for DCV. This proposed addendum adds differential CO<sub>2</sub> concentration setpoints above ambient to Table 6-1 specifically for use with CO<sub>2</sub> DCV systems. The values were determined based on steady-state equations and outdoor air ventilation rates from Table 6-1 based on the default occupant density and default air temperature and pressure; values of CO<sub>2</sub> generation rates based on activity level, gender, body mass, and age per ASTM D6245-2018 and Persily & de Jonge [2017]; assumptions regarding activity level and the mix of gender, body size, and age in each space based on SSPC judgment; zone air distribution effectiveness (Ez) equal to 1.0, because the CO<sub>2</sub> in the space is what is being controlled and the actual airflow delivery will automatically adjust for Ez less than or more than 1.0.

Single copy price: \$35.00

Access and offer comments at <https://www.ashrae.org/technicalresources/standards-and-guidelines/public-review-drafts>

### **BSR NEMA MG 1-202x, Motors and Generators** (revision of ANSI NEMA MG 1-2021)

Provides practical information concerning performance, safety, test, construction, and manufacture of alternating-current and direct-current motors and generators within the product scopes defined in the applicable section or sections therein.

Single copy price: \$712.00

Order from and send comments to [mike.leibowitz@nema.org](mailto:mike.leibowitz@nema.org)

---

## **BSI public review**

BSI Standards has announced a document for public review that might be of interest to *Standards Watch* readers. BSI documents may be commented on at <https://standardsdevelopment.bsigroup.com/>.

## **Due 30 May 2022**

### **BS 40102-1 Health and well-being and indoor environmental quality in buildings. Part 1: Health and well-being in buildings**

This British Standard gives recommendations for the measuring, monitoring and reporting of the well-being and IEQ performance of an occupied building and the associated building services. It provides an evaluation and rating system, the aim of which is to enhance indoor environmental quality (IEQ), with the aim of creating healthier buildings and improving the well-being of building occupants; including, but not limited to, staff, visitors, tenants and customers. The IEQ performance score generated as an outcome of this evaluation provides organizations with a benchmark score that can be used to identify areas of below par performance and enable improvements to be made accordingly. It is applicable to non-domestic buildings, including existing building stock.

---

## **New ANS projects**

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

### **BSR/ASB BPR 181-202x, Media Communications Following a Mass Fatality Incident: Best Practice Recommendations for the Medicolegal Authority** (new standard)

This document will provide recommendations to medicolegal authorities regarding media communications and information sharing during a mass fatality incident response.

Contact Teresa Ambrosius, [tambrosius@aafs.org](mailto:tambrosius@aafs.org)

**BSR/ASB BPR 182-202x, Victim Accounting: Best Practice Recommendations for Medicolegal Authorities in Mass Fatality Management** (new standard)

This document will provide recommendations regarding victim accounting procedures during a mass fatality incident response, which currently does not exist for the medicolegal audience.

Contact Teresa Ambrosius, [tambrosius@aafs.org](mailto:tambrosius@aafs.org)

**BSR/AVIXA A102.01-202X, Measurement and Classification of Audio Coverage Uniformity in Listener Areas** (revision and redesignation of ANSI/INFOCOMM A102.01-2017)

This standard provides a procedure to measure and classify the uniformity of early arriving energy from a sound system across a listener area.

Contact Loanna Overcash, [lovercash@avixa.org](mailto:lovercash@avixa.org)

**BSR/IES RP (PP)-202x, Recommended Practice: Exterior Lighting for Parks and Protected Areas** (new standard)

This recommended practice contains recommendations for exterior nighttime lighting to be used in parks and protected areas that minimize adverse effects on flora and fauna found within these environments. The recommended practices will identify the ecological impact of light spectrum, glare, light trespass, and skylight, and prescribe illumination levels for a range of applications.

Contact Patricia McGillicuddy, [pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)

**BSR/SAAMI Z299.5-202x, Voluntary Industry Performance Standards Criteria for Evaluation of New Firearms Designs Under Conditions of Abusive Mishandling for the Use of Commercial Manufacturers** (revision of ANSI/SAAMI Z299.5-2016)

This Standard provides procedures for evaluating new firearms designs and applies to rifle, shotguns, pistols, and revolvers. In the interest of safety, these tests are structured to demonstrate to the designer of new firearms that the product will resist abusive mishandling. These procedures are specifically understood not to apply to muzzle loading and black powder firearms of any type.

Contact Brian Osowiecki, [bosowiecki@saami.org](mailto:bosowiecki@saami.org)

**BSR/UL 8803-202x, Standard for Safety for Portable UV Germicidal Equipment With Uncontained UV Sources** (new standard)

Proposed adoption of the first edition of the Standard for Portable UV Germicidal Equipment with uncontained UV Sources, UL 8803, as a UL standard for the U.S. and Canada.

Contact Elizabeth Northcott, [Elizabeth.Northcott@ul.org](mailto:Elizabeth.Northcott@ul.org)

**INCITS/ISO/IEC 30147:2021 [202x], Information technology - Internet of things - Methodology for trustworthiness of IoT system/service** (identical national adoption of ISO/IEC 30147:2021)

Provides system life cycle processes to implement and maintain trustworthiness in an IoT system or service by applying and supplementing ISO/IEC/IEEE 15288:2015. The system life cycle processes are applicable to IoT systems and services common to a wide range of application areas.

Contact Deborah Spittle, [comments@standards.incits.org](mailto:comments@standards.incits.org)

**INCITS/ISO/IEC 30165:2021 [202x], Internet of Things (IoT) - Real-time IoT framework** (identical national adoption of ISO/IEC 30165:2021)

Specifies the framework of a real-time IoT (RT-IoT) system, including: RT-IoT system conceptual model based on domain-based IoT reference model defined in ISO/IEC 30141; impacts of real-time parameters in terms of four viewpoints (time, communication, control, and computation).

Contact Deborah Spittle, [comments@standards.incits.org](mailto:comments@standards.incits.org)

---

## Final actions on American National Standards

The documents listed below may be of interest to *Standards Watch* readers and have been approved by the ANSI Board of Standards Review or by an ANSI-Audited Designator on the date noted.

**ANSI/UL 1088-2022, Standard for Safety for Temporary Lighting Strings** (revision of ANSI/UL 1088-2019), 21 March 2022

**ANSI/ASME HST-3-2022**, Performance Standard for Lever Hoists (revision of ANSI/ASME HST-3-2017), 31 March 2022

**INCITS/ISO/IEC 27021:2017 [2022]**, Information technology - Security techniques - Competence requirements for information security management systems professionals (identical national adoption of ISO/IEC 27021:2017), 29 March 2022

**INCITS/ISO/IEC 27031:2011 [2022]**, Information technology - Security techniques - Guidelines for information and communication technology readiness for business continuity (identical national adoption of ISO/IEC 27031:2011), 29 March 2022

---

## Draft IEC & ISO documents

This section lists proposed documents that the IEC or the ISO or both are considering for approval and that may be of interest to *Standards Watch* readers. Anyone interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. Comments from US citizens on ISO documents must be sent to the ISO Team ([isot@ansi.org](mailto:isot@ansi.org)). The comments on ISO documents must be submitted electronically in the approved ISO template and as a Word document; other formats will not be accepted. US comments should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices ([tzertuche@ansi.org](mailto:tzertuche@ansi.org)). Any prices shown are for purchases through ANSI. (Not all have prices.) The sort order is first by due date then by the project identifier alphanumeric. Some of the due dates are in the past—months, years ago—but the dates shown are what were given.

**ISO/FDIS 23218-1**, Industrial automation systems and integration - Numerical control systems for machine tools - Part 1: Requirements for numerical control systems; 2020-10-11 [*sic*]; \$82.00

**ISO/FDIS 37168**, Smart community infrastructures - Guidance on smart transportation by Electric, Connected and Autonomous Vehicles (eCAVs) and its application to on-demand responsive passenger services with shared vehicles; 2020-12-17 [*sic*]; \$62.00

**ISO/FDIS 21931-1**, Sustainability in buildings and civil engineering works - Framework for methods of assessment of the environmental, social and economic performance of construction works as a basis for sustainability assessment -Part 1: Buildings; 2021-03-18 [*sic*]; \$125.00

**ISO/IEC FDIS 27036-2**, Cybersecurity - Supplier relationships Part 2: Requirements; 2021-07-11 [*sic*]; \$107.00

**ISO/DIS 22378**, Security and resilience - Authenticity, integrity and trust for products and documents - Guidelines for interoperable object identification and related authentication systems to deter counterfeiting and illicit trade; 2022-01-22 [*sic*]; \$88.00

**ISO/DIS 6284**, Construction drawings - Indication of limit deviations; 2022-01-23 [*sic*]; \$53.00

**ISO/IEC DIS 19075-9**, Information technology - Guidance for the use of database language SQL - Part 9: Online analytic processing (OLAP) capabilities; 2022-01-28 [*sic*]; \$119.00

**65/927/DPAS, IEC PAS 63441 ED1**: Functional Architecture of Industrial Internet System for Industrial Automation Applications; 2022-05-27

**65E/851(F)/CDV, IEC 62769-8 ED1**: Field device integration (FDI)- Part 8: EDD to OPC-UA Mapping; 2022-05-27

**65E/852(F)/CDV, IEC 62769-102-2 ED1**: Field device integration (FDI) - Part 102-2: Profiles - EtherNet/IP; 2022-05-27

**65E/853(F)/CDV, IEC 62769-151-1 ED1**: Field device integration (FDI) - Part 151-1: Profiles - OPC UA,; 2022-05-27

- 65E/854(F)/CDV, IEC 62769-1 ED3:** Field Device Integration (FDI) - Part 1: Overview; 2022-05-27
- 65E/855(F)/CDV, IEC 62769-2 ED3:** Field Device Integration (FDI) - Part 2: FDI Client; 2022-05-27
- 65E/856(F)/CDV, IEC 62769-3 ED3:** Field Device Integration (FDI) - Part 3: Server; 2022-05-27
- 65E/857(F)/CDV, IEC 62769-4 ED3:** Field Device Integration (FDI) - Part 4: FDI Packages; 2022-05-27
- 65E/858(F)/CDV, IEC 62769-5 ED3:** Field Device Integration (FDI)- Part 5: Information Model; 2022-05-27
- 65E/859(F)/CDV, IEC 62769-7 ED3:** Field Device Integration (FDI) - Part 7: Communication Devices; 2022-05-27
- 65E/860(F)/CDV, IEC 62769-101-1 ED3:** Field device Integration (FDI) - Part 101-1: Profiles - Foundation Fieldbus H1; 2022-05-27
- 65E/861(F)/CDV, IEC 62769-101-2 ED3:** Field Device Integration (FDI) - Part 101-2: Profiles - Foundation Fieldbus HSE; 2022-05-27
- 65E/862(F)/CDV, IEC 62769-103-1 ED3:** Field Device Integration (FDI) - Part 103-1: Profiles - PROFIBUS; 2022-05-27
- 65E/863(F)/CDV, IEC 62769-103-4 ED3:** Field Device Integration(FDI) - Part 103-4: Profiles - PROFINET; 2022-05-27
- 65E/864(F)/CDV, IEC 62769-109-1 ED3:** Field device integration (FDI) - Part 109-1: Profiles - HART and WirelessHART,; 2022-05-27
- 65E/865(F)/CDV, IEC 62769-100 ED2:** Field device integration (FDI) - Part 100: Profiles - Generic protocols; 2022-05-27
- 65E/866(F)/CDV, IEC 62769-150-1 ED2:** Field device integration (FDI) - Part 150-1: Profiles - ISA100 WIRELESS; 2022-05-27
- 65E/867(F)/CDV, IEC 62769-6 ED3:** Field Device Integration (FDI) - Part 6: Technology Mapping; 2022-05-27
- 65E/868(F)/CDV, IEC 62769-6-100 ED1:** Field Device Integration (FDI) - Part 6-100: Technology Mapping - Net; 2022-05-27
- 65E/870(F)/CDV, IEC 62769-6-200 ED1:** Field Device Integration (FDI) - Part 6-200: Technology Mapping - HTML5; 2022-05-27
- ISO/DIS 28564-4,** Public information guidance systems - Part 4: Guidelines for installation and assessment; 2022-06-13; \$53.00
- 48B/2942/CDV, IEC 63171-7 ED1:** Connectors for electrical and electronic equipment - Part 7: Detail specification for up to 7 ways including PE or FE (data/power) and shield pin, free and fixed circular connectors for balanced single-pair data transmission with current-carrying capacity: mechanical mating information, pin assignment and additional requirements for type 7; 2022-06-17
- 64/2545/CDV, IEC 60364-4-43 Ed. 4:** Low-voltage electrical installations - Part 4-43: Protection for safety – Protection against overcurrent; 2022-06-17
- 65C/1158/CDV, IEC 61784-5-X ED5:** Industrial communication networks - Profiles - Part 5-x: Installation of fieldbuses Installation profiles for CPF x (x=2, 3, 6, 12, 21); 2022-06-17

**65C/1159/CDV, IEC 61784-5-19 ED2:** Industrial communication networks - Profiles - Part 5-19: Installation of fieldbuses Installation profiles for CPF 19; 2022-06-17

**65C/1160/CDV, IEC 61784-5-8 ED3:** Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses Installation profiles for CPF 8, ; 2022-06-17

**65C/1161/CDV, IEC 61784-5-22 ED1:** Industrial communication networks - Profiles - Part 5-22: Installation of fieldbuses Installation profiles for CPF 22,; 2022-06-17

**JTC1-SC41/270/CDV, ISO/IEC 30161-2 ED1:** Internet of Things (IoT) - Data exchange platform for IoT services - Part 2: Transport interoperability between nodal points; 2022-06-17

**65E/880/CDV, IEC 63365 ED1:** Digital Nameplate – Digital Product Marking; 2022-06-24

---

## Recently published IEC & ISO documents

Listed here are documents recently approved by the IEC or ISO and listed in ANSI's *Standards Action* that may be of use or interest to *Standards Watch* readers. Prices shown are for purchases from the [ANSI Webstore](#).

**ISO 17842-3:2022,** Safety of amusement rides and amusement devices - Part 3: Requirements for inspection during design, manufacture, operation and use, \$73.00

**IEC 81346-1:2022,** Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules, \$437.00

**ISO/IEC 23093-1:2022,** Information technology - Internet of media things - Part 1: Architecture, \$149.00

**ISO/IEC 23093-2:2022,** Information technology - Internet of media things - Part 2: Discovery and communication API, \$111.00

**ISO/TR 9241-311:2022,** Ergonomics of human-system interaction Part 311: Application of ISO 9241-307: LCD screens for workstations, \$111.00

**ISO 17506:2022,** Industrial automation systems and integration COLLADA™ digital asset schema specification for 3D visualization of industrial data, \$250.00

---

## ESTA Standards Watch

is distributed as a benefit to ESTA members and as a communication medium for participants in ESTA's Technical Standards Program. Original material is copyright ESTA.

### Editors:

Karl G. Ruling, Senior Technical Standards Manager  
ESTA, Technical Standards Program  
PO Box 23200  
Brooklyn, NY 11202-3200 USA  
[karl.ruling@esta.org](mailto:karl.ruling@esta.org)  
1 212 244 1505 ext. 703

Richard Nix, Asst. Technical Standards Manager  
ESTA, Technical Standards Program  
PO Box 23200  
Brooklyn, NY 11202-3200 USA  
[richard.nix@esta.org](mailto:richard.nix@esta.org)  
1 212 244 1505 ext. 649

If you would like to receive an email notice each time a new edition of *Standards Watch* is published, send a request to [standards@esta.org](mailto:standards@esta.org).

The archive of *Standards Watch* issues back to the beginning of 2011 is available at <http://estalink.us/n7a1>.

## TSP meeting schedule

The meeting schedule webpage is <https://www.estab.org/ESTA/meetings.php>. Attendance for the next set of meetings will be in-person at the Wyndham Anaheim and world-wide via WebEx.

Control Protocols Working Group	09:00 – 11:30 PDT	Friday 3 June 2022
Electrical Power Working Group	14:00 – 17:00 PDT	Wednesday 1 June 2022
Event Safety Working Group	14:00 – 18:00 PDT	Saturday 4 June 2022
Floors Working Group	09:00 – 13:00 PDT	Saturday 4 June 2022
Fog & Smoke Working Group	09:00 – 13:00 PDT	Thursday 2 June 2022
Followspot Positions Working Group	19:00 – 23:00 PDT	Wednesday 1 June 2022
Photometrics Working Group	15:00 – 18:00 PDT	Friday 3 June 2022
Rigging Working Group	19:00 – 23:00 PDT	Friday 3 June 2022
Stage Machinery Working Group	14:00 – 18:00 PDT	Thursday 2 June 2022
Technical Standards Council	09:00 – 13:00 PDT	Sunday 5 June 2022

## **TSP donors who have made long-term, multi-year pledges**

About the Stage  
Actors' Equity Association  
Altman Lighting  
Barbizon Lighting Company  
B-Hive Industries  
Scott Blair  
BMI Supply  
Boston Illumination Group  
Candela Controls  
Chauvet  
City Theatrical  
Clark-Reder Engineering  
Columbus McKinnon Corporation  
Tracey Cosgrove and Mark McKinney  
Bruce Darden  
Doug Fleenor Design  
Earl Girls Inc. EGI Pro  
Electronic Theatre Controls  
Entertainment Project Services  
Geiger Engineers, PC  
Tony Giovannetti  
GLP German Light Products  
Golden Sea Professional Equipment Limited  
H & H Specialties  
Harlequin Floors  
High Output  
Neil Huff  
Hughston Engineering  
IATSE Local 891  
InCord  
Beverly and Tom Inglesby  
Interactive Technologies  
InterAmerica Stage  
iWeiss Inc.  
J.R. Clancy  
Jules Lauve  
Brian Lawlor  
Lex Products  
Link USA, Inc.  
Lycian Stage Lighting  
John T. McGraw  
McLaren Engineering Group  
Mike Garl Consulting  
Mike Wood Consulting  
Morpheus Lights  
NAMM  
Niscon  
Oasis Stage Werks  
Reed Rigging  
Reliable Design Services  
Robe  
Rosco Laboratories  
Rose Brand  
Alan M. Rowe  
Sapsis Rigging  
Stage Equipment & Lighting  
Stage Rigging  
Stagemaker  
Stageworks  
Syracuse Scenery and Stage Lighting, Co.  
Dana Taylor  
Steve Terry  
Texas Scenic Company  
Theatre Projects Consultants  
Theatre Safety Programs  
TMB  
Tyler Truss Systems  
Vertigo  
Vincent Lighting Systems  
Steve Walker & Associates  
Walt Disney Parks and Resorts  
Westview Productions  
WNP Services, Inc.

## **Investors in Innovation, supporters of ESTA's Technical Standards Program**

This lists the donors who have made contributions in the last 12 months.

### **VISIONARY LEADERS (\$50,000 & up)**

ETC

PLASA

---

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

Cisco

Columbus McKinnon Entertainment Technology

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

Altman Lighting, Inc.

McLaren Engineering Group

Rose Brand

Stage Rigging

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

About the Stage

B-Hive Industries, Inc.

Scott Blair

Boston Illumination Group

Candela Controls, Inc.

Clark Reder Engineering

Tracey Cosgrove & Mark McKinney

Doug Fleenor Design

Down Stage Right Industries Ltd.

EGI Event Production Services

Entertainment Project Services

Neil Huff

Interactive Technologies

Jules Lauve

Brian Lawlor

Disney Parks Live Entertainment

Theatre Projects

Theatre Safety Programs

TMB

Michael Lay

Link

John T. McGraw

Mike Garl Consulting

Mike Wood Consulting

Lizz Pitsley

Reed Rigging

Reliable Design Services

Alan Rowe

Sapsis Rigging Inc.

SBS Lighting

Steve A. Walker Associates

Dana Taylor

Steve Terry

Vertigo

WNP Services

---

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

Actors' Equity Association

Golden Sea Professional Lighting Provider

IATSE Local 728

IATSE Local 891

Lex

NAMM

Texas Scenic Company

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

American Society of Theatre Consultants

Area Four Industries

BMI Supply

City Theatrical Inc.

H&H Specialties, Inc.

InterAmerica Stage, Inc.

Lycian Stage Lighting

Niscon Inc.

Tomcat Staging, Lighting and Support Systems

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

Baxter Controls, Inc.

ChamSix

Concept Smoke Systems Ltd.

Ian Foulds

Liberal Logic, Inc.

Luminator Technology Group

Sehr Gute GmbH

David Thomas

Tracy Underhill

Ralph Weber

---

### **SUPPORTER (\$50 - \$2,999; >100 employees/members)**

Harlequin Floors

**SUPPORTER** (\$50 - \$1,499; 20–100 employees/members)

H&H Specialties Inc.

High Output

InCord

iWeiss

Oasis Stage Werks

Stagemaker

Syracuse Scenery and Stage Lighting Co., Inc.

Vincent Lighting Systems

Wuhan Zhongtian Jiaye Mechanical & Electrical Eng.  
Co.

**SUPPORTER** (\$50 - \$199; <20 employees/members)

Chip Scott Lighting Design

Beverly and Tom Inglesby

Luminator Technology Group

Bill McCord

Motion FX

Sigma Net

---

Extraordinary legacy gift: Ken Vannice

You can make a donation by visiting [https://tsp.estra.org/tsp/inv\\_in\\_innovation/sponsor.html](https://tsp.estra.org/tsp/inv_in_innovation/sponsor.html).  
Become an *Investor in Innovation!*