



Technical Standards Program

ESTA Standards Watch

February 2023 Volume 27, Number 3

Table of Contents

A trio of ESTA standards in public review.....	1
The National Fire Protection Association calls for cybersecurity advisors.....	2
WTO Technical Barrier to Trade notifications.....	2
Uruguay Notification URY/72.....	2
ANSI public review announcements.....	3
Due 20 March 2023.....	3
Due 4 April 2023.....	4
BSI public review announcements.....	5
Due 15 March 2023.....	5
Due 20 March 2023.....	5
New ANS projects.....	5
Final actions on American National Standards.....	8
Draft IEC & ISO documents.....	8
Recently published ISO & IEC documents.....	9
TSP meeting schedule.....	9
Editors.....	9
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	10

A trio of ESTA standards in public review

Three ESTA standards—two new and one reaffirmation—are available for public review and comment on the ESTA website at <http://estalink.us/pr>. The downloads are free. Comments on all are due before 4 April 2023.

BSR E1.14, Entertainment Technology - Recommendations for Inclusions in Fog Equipment Manuals, is a project to reaffirm the existing standard. The standard applies to the instruction manuals for fog-making equipment manufactured for use in the entertainment industry. The standard was written to address concerns from ESTA dealers who were selling equipment with manuals that essentially said, “Fill with fluid. Plug in. Wait for light to go out. Make fog!” That’s seriously deficient. Fog users must have some general knowledge of the technology, have a clear understanding of how to operate the fog system, and be aware of the potential hazards related to the use of fog and fog systems. This standard establishes guidelines for manufacturers to provide the user with the necessary information for the safe and responsible use of fog equipment. This public review is to identify errors or serious omissions.

BSR E1.72, Powered Floor Machinery, establishes requirements for the design, manufacture, installation, inspection, operation, and maintenance of powered Stage Floor Machinery for performance, presentation, and theatrical production. It covers the machinery, mechanisms, machine safety devices, and control interface requirements for equipment and systems, installed permanently or temporarily. Examples include but are not limited to wagons, turntables, treadmills, slip stages, and trap covers. This draft reflects changes made as a result of the first public review comments.

The next draft standard in public review is a project in the Event Safety Working Group, a working group formed in partnership with the Event Safety Alliance to update chapters from the *Event Safety Guide* and turn them into American National Standards. As American National Standards, it will be harder for people in charge of event management to ignore their good advice with the defense “Who knew?” when things go wrong. Comments also are due before April 4. April 3 or any day earlier is fine.

BSR ES1.17, Electrical Safety & Lighting, applies to the application, assessment, and documentation of safe electrical working practices during the installation, event performance, and dismantling of event electrical systems and equipment. This includes the identification and assessment of specific event electrical hazards and the potential impacts of unsafe electrical working practices.

The National Fire Protection Association calls for cybersecurity advisors

At the last NFPA Standards Council meeting, the Council directed NFPA staff to publish a call for interested stakeholders with cybersecurity knowledge to gauge whether support exists for establishing a Cybersecurity Advisory Committee. The advisory committee’s goal would be to provide guidance on cybersecurity requirements for all NFPA standards on the topic of cybersecurity. The Advisory Committee would not be a Technical Committee but could provide public inputs and public comments where deemed appropriate by the committee.

If you are interested, go to <https://www.nfpa.org/cac>, click on “Tell us what you think,” and fill out the email template. The deadline to submit is 15 March 2023. If you have questions, please contact Alex Ing (aing@nfpa.org) or Laura Moreno (lmoreno@nfpa.org).

WTO Technical Barrier to Trade notifications

The World Trade Organization has announced a Technical Barrier to Trade filing that may be of interest to *Standards Watch* readers. If you have a problem with a TBT, you can protest through your representative to the World Trade Organization.

Uruguay Notification URY/72

Date issued: 26 January 2023

Agencies responsible:

- Asesoría de Política Comercial
- Ministerio de Economía y Finanzas
- Dirección Nacional de Calidad y Evaluación Ambiental
- Ministerio de Medio Ambiente

Products covered: Electrical and electronic equipment, and waste electrical and electronic equipment.

Title: Proyecto de Reglamento para la Gestión Integral de Residuos de Aparatos Eléctricos y Electrónicos (RAEE) (Draft regulations for the comprehensive management of waste electrical and electronic equipment (WEEE)), (32 pages in Spanish)

Description of content: The notified draft regulations seek to protect the environment and health from adverse effects arising from the generation and management of waste electrical and electronic equipment (WEEE). The draft establishes the framework necessary to promote a decrease in the generation of such waste, and making use of it rather than disposing of it definitively, through a circular economy approach. The proposed conceptual management model applies, on the one hand, the principle of extended responsibility to the importer and/or manufacturer of electrical and electronic equipment, the characteristics or design of which mean that it can be used by households, businesses, industry or other productive economic activities. On the other hand, the “polluter pays” principle applies to electrical and electronic equipment designed for specialized applications in productive economic activities.

Objective and rationale: Protection of human health or safety; Protection of the environment

Proposed date of adoption: To be determined

Proposed date of entry into force: To be determined

Final date for comments: 60 days from notification, 27 March 2023

Full text: https://members.wto.org/crnattachments/2023/TBT/URY/23_0693_00_s.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.

Due 20 March 2023

BSR/ASHRAE Addendum ch to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

The purpose of this addendum is to make changes to Clause 5 to address segmentation errors.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum ci to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

This addendum makes changes to Clause 12 to add OPTION_FUNCTIONALITY_NOT_SUPPORTED; makes changes to Clause 5 to address reliability-evaluation misunderstandings; clarifies optionally supported command procedures, schedule requirements, Reliability When Out Of Service, INVALID_ARRAY_SIZE, accumulator object scale datatype, BVLC-Result in BACnet/SC, and use of UNSUPPORTED_OBJECT_TYPE; relaxes DS-COV-A and DSCOV-P-A; and adds time series exchange format BIBBs.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum cj to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

This addendum adds a method for restoring luminaire levels, adds a method for toggling the Binary Lighting Output Object, and clarifies terminology for Current Command Priority.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-reviewdrafts>

BSR/ASHRAE Addendum ck to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

This addendum adds missing formal definitions of ASN.1 datatypes.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-reviewdrafts>

BSR/ASHRAE Addendum cl to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

This addendum adds a new Prioritization Object Type.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-reviewdrafts>

BSR/ASHRAE Addendum cn to BSR/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2020)

This addendum clarifies Engineering Units.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-reviewdrafts>

BSR/IES RP-47-202x, Recommended Practice: Landscape Lighting (new standard)

Landscape lighting provides aesthetic and practical solutions for lighting gardens, fields, statuary, walkways, steps, water features, signs, flagpoles, and more. Varied projects, materials, colors, and textures provide lighting designers vast opportunities to exercise their creative talents. The field also involves the challenges of working with complex and changing outdoor environments. For practitioners with suitable interests, knowledge, and skills, landscape lighting is a distinctly enjoyable and stimulating discipline.

Single copy price: \$25.00

Obtain an electronic copy from and send comments to pmcgillicuddy@ies.org

BSR/IES LS-3-2020 (R202x), Lighting Science: Physics and Optics of Radiant Energy (reaffirmation of ANSI/IES LS-3-2020)

This document describes the physics of radiant energy for various light source types, as well as the physical optics used for manipulating light.

Single copy price: \$25.00

Obtain an electronic copy from and send comments to pmcgillicuddy@ies.org

BSR/IES LS-4-2020 (R202x), Lighting Science: Measurement of Light - The Science of Photometry (reaffirmation of ANSI/IES LS-4-2020)

This Lighting Science (LS) document describes the various types of photometry and photometric instrumentation, including laboratory and field equipment and measurement types, and instructions for some types of field measurements. However, it does not provide instructions or methodology for performing laboratory tests. For that kind of information, the reader is referred to the IES Lighting Measurement (LM) series of documents.

Single copy price: \$25.00

Obtain an electronic copy from and send comments to pmcgillicuddy@ies.org

BSR/IES LM-73-2004 (R202x), Approved Method: For Photometric Testing of Entertainment Lighting Luminaires Using Incandescent Filament Lamps or High Intensity Discharge Lamps (reaffirmation of ANSI/IES LM-73-2004 (R2017))

This Approved Method describes a standard procedure by which entertainment lighting luminaires, specifically designed for use in the theater, TV environment, film studios, or on-location shoots, can be measured.

Entertainment lighting luminaires usually have much narrower beam spreads than other luminaires, such as those covered by IES LM-35, Approved Method for Photometric Testing of Floodlights using HID or Incandescent Filament Lamps. Therefore, different test methods and forms of presentation may be used.

Single copy price: \$25.00

Obtain an electronic copy from and send comments to pmcgillicuddy@ies.org

BSR C82.16-202X, Light Emitting Diode Drivers - Methods of Measurement (revision of ANSI C82.16-2022)

This standard describes the procedures to be followed and the precautions to be taken in measuring performance of LED drivers. The scope includes, but is not limited to, LED drivers with these characteristics: general lighting, exterior lighting, and roadway lighting applications, input supply voltage up to 600 VDC or 600 VAC (50 or 60 Hz), output open-circuit voltage of 600 V or less, constant-current or constant-voltage direct current (DC) output, fixed, variable (dimnable), pulse-width modulation, or programmable (tunable) output power, external (standalone) or internal (enclosed in luminaire).

Single copy price: \$176.00

Order from and send comments to Michael Erbesfeld, Michael.Erbesfeld@nema.org

BSR C82.18-202X, Light Emitting Diode Drivers - Performance Characteristics (revision of ANSI C82.18-2022)

This standard provides specifications for and operating characteristics of non-integral electronic drivers (power supplies) for LED devices, arrays, or systems intended for general lighting applications, including indoor and outdoor, as well as specific cases such as Power over the Ethernet (PoE), and luminaires or lighting systems assembled with two or more LED drivers, and, in the future, may include other devices such as Light Fidelity (LiFi) or Visual Light Communication (VLC). Electronic drivers are devices that use semiconductors to control and supply DC power for LED starting and operation. The drivers operate from supply sources up to 600 V AC or DC at a frequency up to 60 Hertz.

Single copy price: \$150.00

Order from and send comments to Michael Erbesfeld, Michael.Erbesfeld@nema.org

Due 4 April 2023

BSR/ASME HST-1-202x, Performance Standard for Electric Chain Hoists (revision of ANSI/ASME HST-1-2017)

This Standard establishes performance requirements for electric chain hoists for vertical lifting service involving material handling of freely suspended (unguided) loads using load chain of the roller or welded link types with one of the following types of suspension: (1) lug; (2) hook or clevis; or (3) trolley.

Single copy price: \$45.00

BSI public review announcements

BSI Standards has announced documents for public review that might be of interest to *Standards Watch* readers. BSI documents may be commented on at <https://standardsdevelopment.bsigroup.com/>. One is an EN standard. Although the UK has left the European Union, partially to be free from being required to follow EU regulations and standards, the British Standards Institute continues to announce the public reviews for adoption as British Standards CEN and CENELEC standards. These are written to facilitate trade within the EU. The EU had been the UK's largest trading partner before Brexit. Harmonization between BS and EN standards can help maintain trade.

Due 15 March 2023

BS EN IEC 62198 ED 3 BS EN 62198 Ed 3 Managing risk in projects - Application guidelines

This International Standard provides principles and generic guidelines on managing risk and uncertainty in projects. In particular it describes a systematic approach to managing risk in projects based on ISO 31000, Risk management – Guidelines. Guidance is provided on the principles for managing risk in projects, the framework and organizational requirements for implementing risk management and the process for conducting effective risk management.

Due 20 March 2023

PAS 51215-1 Energy and net zero assessment – Process – Specification

This PAS specifies requirements for the process of conducting an energy and net zero assessment, as well as the output of such an assessment. This PAS applies to assessments of an organization's energy use and/or greenhouse gas (GHG) emissions. Assessments covered by this PAS relate to energy use from the buildings, industrial operations or installations and transport for which the organization is responsible, and to GHG emissions for which the organization is responsible which are covered by Scopes 1, 2 and limited Scope 3 emissions from business travel and hotel stays. The PAS does not cover the supply chain's energy consumption and GHG emissions. It also does not cover upstream or downstream product emissions or offsetting.

PAS 51215-2 Energy and net zero assessment – Competencies of lead assessors and assessment teams – Specification

This PAS specifies the competencies necessary for a person to be deemed capable of planning an energy and net zero assessment, leading an assessment team, and reviewing and approving the output of an energy and net zero assessment. This PAS covers competencies necessary for the assessments of an organization's energy use and/or generated greenhouse gas (GHG) emissions. Assessments for which these competencies are relevant relate to energy use from the buildings, industrial operations or installations and transport for which the organization is responsible, and to GHG emissions for which the organization is responsible which are covered by Scopes 1, 2 and limited Scope 3 emissions from business travel and hotel stays.

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 S3.55-202x/Part 8/IEC 60318-8-202x, Electroacoustics – Simulators of human head and ear – Part 8: Acoustic coupler for high-frequency measurements of hearing aids and earphones coupled to the ear by means of ear inserts (identical national adoption of IEC 60318-8:2022)

This part of IEC 60318 describes an acoustic coupler for loading a hearing aid or insert earphone with a specified acoustic impedance when testing its acoustic performance, in the frequency range up to 16 kHz. It is suitable for air-conduction hearing aids and earphones, coupled to the ear by means of ear inserts, earmoulds or similar devices. The acoustic coupler does not simulate the human ear. However, it has an effective volume of only 0,4 cm³, which is small enough not to produce significant resonances in the coupler in the frequency range below 16

kHz. Therefore, it will load the earphone with a known acoustic impedance, which allows repeatable measurements with low uncertainty to be obtained on earphones used in extended high-frequency audiometry. Contact Raegan Ripley, standards@acousticalsociety.org

BSR/ASME HST-2-202x, Performance Standard for Hand Chain Manually Operated Chain Hoists (revision of ANSI/ASME HST-2-2018)

This standard establishes performance requirements for hand-chain manually operated chain hoists for vertical lifting service involving material handling of freely suspended (unguided) loads, using welded-link-type load chain as a lifting medium, with one of the following types of suspension: (1) hook or clevis or (2) trolley. This standard is applicable to hoists manufactured after the date on which this standard is issued. Differential pulley and self-locking worm-drive-type hoists are not covered in this standard.

Contact Maria Acevedo, ansibox@asme.org

BSR/CSA FC 3 CSA C22.2 No. 62282-5-100-202x, Fuel cell technologies - Part 5-100: Portable fuel cell power systems - Safety (identical national adoption of IEC 62282-5-100 and revision of ANSI/CSA FC 3-2004 (R2021))

This part of IEC 62282 covers construction, marking and test requirements for portable fuel cell power systems. These fuel cell systems are movable and not fastened or otherwise secured to a specific location. The purpose of the portable fuel cell power system is to produce electrical power. This document applies to AC and DC type portable fuel cell power systems, with a rated output voltage not exceeding 600 V AC, or 850 V DC for indoor and outdoor use. These portable fuel cell power systems cannot be used in hazardous locations as defined in IEC 60050-426:2008, 426-03-01 unless there are additional protective measures in accordance with IEC 60079-0. This document does not apply to portable fuel cell power systems that are permanently connected (hard wired) to the electrical distribution system, permanently connected to a utility fuel distribution system, exporting power to the grid, for propulsion of road vehicles, intended to be used on board passenger aircraft. Fuel cells that provide battery charging for hybrid vehicles where the battery provides power and energy for propulsion of the vehicle are not included in the scope of this document. The following fuels and fuel feedstocks are considered within the scope of this document: natural gas, liquefied petroleum gas, such as propane and butane, liquid alcohols, for example methanol, ethanol, gasoline, diesel, kerosene, hydrogen, chemical hydrides. This document does not preclude the use of similar fuels or oxidants from sources other than air provided the unique hazards are addressed through additional requirements.

Contact Debbie Chesnik, ansi.contact@csagroup.org

BSR/CSA FC 6 CSA C22.2 No. 62282-2-100-202x, Fuel cell technologies - Part 2-100: Fuel cell modules – Safety (identical national adoption of IEC 62282-2-100 and revision of ANSI/CSA FC 6-2018)

This part of IEC 62282 provides safety related requirements for construction, operation under normal and abnormal conditions and the testing of fuel cell modules. It applies to fuel cell modules with the following electrolyte chemistry: alkaline; polymer electrolyte (including direct methanol fuel cells); phosphoric acid; molten carbonate; solid oxide; aqueous solution of salts. Fuel cell modules can be provided with or without an enclosure and can be operated at significant pressurization levels or close to ambient pressure. This document deals with conditions that can yield hazards to persons and cause damage outside the fuel cell modules. Protection against damage inside the fuel cell modules is not addressed in this document, provided it does not lead to hazards outside the module. These requirements can be superseded by other standards for equipment containing fuel cell modules as required for particular applications. This document does not cover fuel cell road vehicle applications. This document is not intended to limit or inhibit technological advancement. An appliance employing materials or having forms of construction differing from those detailed in the requirements of this document can be examined and tested according to the purpose of these requirements and, if found to be substantially equivalent, can be considered to comply with this document. The fuel cell modules are components of final products. These products require evaluation according to appropriate end-product safety requirements. This document covers only up to the DC output of the fuel cell module. This document does not apply to peripheral devices as illustrated in Figure 1 [not published in the new project announcement]. This document does not cover the storage and delivery of fuel and oxidant to the fuel cell module.

Contact Debbie Chesnik, ansi.contact@csagroup.org

BSR/ICC 1150-202x, Standard for 3D Automated Construction Technology for 3D Concrete Walls (new standard)

ICC is developing a new standard to establish minimum requirements for the evaluation of structural performance of 3D concrete walls and proprietary concrete wall-to-floor connections designed in accordance with applicable building codes, including material and durability properties of proprietary 3D concrete.

Contact Karl Aittaniemi, kaittaniemi@iccsafe.org

BSR/IES LP-30-202x, Lighting Practice: Designing and Specifying Color Rendition (new standard)

Provide industry with guide on specification of TM-30 by expanding on the framework of TM-30 Annex E.

Contact Patricia McGillicuddy, pmcgillicuddy@ies.org

INCITS/ISO/IEC 15408-2:2022 [202x], Information security, cybersecurity and privacy protection – Evaluation criteria for IT security - Part 2: Security functional components (identical national adoption of ISO/IEC 15408-2:2022 and revision of INCITS/ISO/IEC 15408-2:2008 [R2018])

Defines the required structure and content of security functional components for the purpose of security evaluation. It includes a catalogue of functional components that meets the common security functionality requirements of many IT products.

Contact Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 15408-3:2022 [202x], Information security, cybersecurity and privacy protection – Evaluation criteria for IT security - Part 3: Security assurance components (identical national adoption of ISO/IEC 15408-3:2022 and revision of INCITS/ISO/IEC 15408-3:2008 [R2018])

Defines the assurance requirements of the ISO/IEC 15408 series. It includes the individual assurance components from which the evaluation assurance levels and other packages contained in ISO/IEC 15408-5 are composed, and the criteria for evaluation of Protection Profiles (PPs), PP-Configurations, PP-Modules, and Security Targets (STs).

Contact Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 17826:2022 [202x], Information technology - Cloud Data Management Interface (CDMI) Version 2.0.0 (identical national adoption of ISO/IEC 17826:2022 and revision of INCITS/ISO/IEC 17826:2016 [2018])

Specifies the interface to access cloud storage and to manage the data stored therein. This International Standard applies to developers who are implementing or using cloud storage.

Contact Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 18045:2022 [202x], Information security, cybersecurity and privacy protection – Evaluation criteria for IT security - Methodology for IT security evaluation (identical national adoption of ISO/IEC 18045:2022 and revision of INCITS/ISO/IEC 18045:2008 [R2018])

Defines the minimum actions to be performed by an evaluator in order to conduct an ISO/IEC 15408 series evaluation, using the criteria and evaluation evidence defined in the ISO/IEC 15408 series.

Contact Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 23270:2018 [202x], Information technology - Programming languages - C (identical national adoption of ISO/IEC 23270:2018 and revision of INCITS/ISO/IEC 23270:2006 [R2018])

Describes the form and establishes the interpretation of programs written in the C# programming language. It describes: the representation of C# programs; the syntax and constraints of the C# language; the semantic rules for interpreting C# programs; the restrictions and limits imposed by a conforming implementation of C#.

Contact Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 24707:2018 [202x], Information technology - Common Logic (CL) - A framework for a family of logic-based languages (identical national adoption of ISO/IEC 24707:2018 and revision of INCITS/ISO/IEC 24707:2007 [R2018])

Specifies a family of logic languages designed for use in the representation and interchange of information and data among disparate computer systems. The following features are essential to the design of this document.

Languages in the family have declarative semantics. Languages in the family are logically comprehensive, and

Languages in the family are translatable by a semantics-preserving transformation to a common XML-based syntax, facilitating interchange of information among heterogeneous computer systems.
Contact Deborah Spittle, 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. "Final actions" means "done for now." No standard is ever finished.

ANSI/APA 405-2023, Standard for Adhesives for Use in Structural Glued Laminated Timber (revision of ANSI 405-2018), 19 January 2023

ANSI/IES RP-9-2023, Recommended Practice: Lighting Hospitality Spaces (revision of ANSI/IES RP-9-2020), 24 January 2023

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 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), and must be submitted electronically in the approved ISO template as a Word document. US comments on IEC documents should be sent to Tony Zertuche, General Secretary, USNC/IEC, at ANSI's New York offices (tzertuche@ansi.org). Any prices shown are for purchases through ANSI. (Not all have prices.) The sort order is by due-date.

56/1983/CD, IEC 62198 ED3: Managing risk in projects Application guidelines, 14 April 2023

8B/155/DTS, IEC TS 62898-3-3 ED1: Microgrids - Part 3-3: Technical requirements - Self-regulation of dispatchable loads, 14 April 2023

ISO/DIS 68-1, ISO general purpose screw threads - Basic and design profiles - Part 1: Metric screw threads, 14 April 2023, \$40.00

ISO/DIS 68-2, ISO general purpose screw threads - Basic and design profiles - Part 2: Inch screw threads, 14 April 2023, \$53.00

ISO/DIS 9241-5, Ergonomics of human-system interaction – Part 5: Workstation layout and postural requirements, 15 April 2023, \$93.00

ISO/DIS 9241-115, Ergonomics of human-system interaction Part 115: Guidance on conceptual design, user-system interaction design, user interface design, and navigation design, 15 April 2023, \$88.00

77A/1163/CD, IEC TR 61000-1-9 ED1: Assessment of measurement uncertainty for IEC 61000-3-2 and IEC 61000-3-12, 04/21/2023

108/799/CDV, IEC 63316 ED1: Audio/Video, Information and Communication Technology Equipment - Safety - Power transfer between Communications equipment ports using Communications cabling at - 60 Vd.c. and AC, 04/21/2023

64/2586A/CD, IEC 60364-4-41 ED6: Low-voltage electrical installations - Part 4-41: Protection for safety – Protection against electric shock, 19 May 2023

Recently published ISO & IEC documents

Listed here are documents recently approved by the ISO or IEC 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/IEC 30179:2023, Internet of Things (IoT) - Overview and general requirements of IoT system for ecological environment monitoring, \$149.00

ISO/IEC 19086-2:2018/Amd 1:2023, Cloud computing – Service level agreement (SLA) framework - Part 2: Metric model Amendment 1, \$20.00

IEC 62722-2-1 Ed. 2.0 b:2023, Luminaire performance - Part 2-1: Particular requirements - LED luminaires, \$221.00

ISO 22328-3:2023, Security and resilience – Emergency management - Part 3: Guidelines for the implementation of a community-based early warning system for tsunamis, \$111.00

TSP meeting schedule

The next set of meetings will be held at the Wyndham Anaheim in conjunction with the NAMM Show. The [ESTA meetings](#) page has [a link to reserve a room](#) at the Wyndham Anaheim. The meetings will be via WebEx as well as in-person at the Wyndham. All the times shown are Pacific Time.

Control Protocols Working Group	09:00 – 13:00 PDT	Thursday 13 April 2023
Electrical Power Working Group	14:00 – 17:00 PDT	Tuesday 11 April 2023
Event Safety Working Group	09:00 – 13:00 PDT	Friday 14 April 2023
Floors Working Group	19:00 – 23:00 PDT	Tuesday 11 April 2023
Fog & Smoke Working Group	09:00 – 13:00 PDT	Wednesday 12 April 2023
Photometrics Working Group	15:00 – 18:00 PDT	Thursday 13 April 2023
Rigging Working Group	19:00 – 23:00 PDT	Thursday 13 April 2023
Stage Machinery Working Group	14:00 – 18:00 PDT	Wednesday 12 April 2023
Technical Standards Council Council	14:00 – 18:00 PDT	Saturday 15 April 2023
Weapons Safety Working Group	09:00 – 13:00 PDT	Saturday 15 April 2023

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

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

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

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. Find back issues at <http://estalink.us/nn7a1>.

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

Disney Parks Live Entertainment

Columbus McKinnon Entertainment Technology

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

Altman Lighting, Inc.

Theatre Projects

McLaren Engineering Group

Theatre Safety Programs

Rose Brand

TMB

Stage Rigging

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

About the Stage

Michael Lay

B-Hive Industries, Inc.

Link

Scott Blair

John T. McGraw

Boston Illumination Group

Mike Garl Consulting

Candela Controls, Inc.

Mike Wood Consulting

Clark Reder Engineering

Lizz Pitsley

Tracey Cosgrove & Mark McKinney

Reed Rigging

Doug Fleenor Design

Reliable Design Services

Down Stage Right Industries Ltd.

Alan Rowe

EGI Event Production Services

Sapsis Rigging Inc.

Entertainment Project Services

SBS Lighting

Neil Huff

Steve A. Walker Associates

Interactive Technologies

Dana Taylor

iStudio Projects

Steve Terry

Jules Lauve

Vertigo

Brian Lawlor

WNP Services

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

Actors' Equity Association

Lex

Golden Sea Professional Lighting Provider

NAMM

IATSE Local 728

Texas Scenic Company

IATSE Local 891

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

American Society of Theatre Consultants

InterAmerica Stage, Inc.

Area Four Industries

Lycian Stage Lighting

BMI Supply

Niscon Inc.

City Theatrical Inc.

Tomcat Staging, Lighting and Support Systems

H&H Specialties, Inc.

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

Baxter Controls, Inc.

Jessica Sanders

ChamSix

Sehr Gute GmbH

Concept Smoke Systems Ltd.

David Thomas

Bruce William Darden

Techni-Lux

Ian Foulds

Tracy Underhill

Liberal Logic, Inc.

Ralph Weber

Luminator Technology Group

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

Harlequin Floors

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

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

Matthew Douglas III

Beverly and Tom Inglesby

KASUGA

Bill McCord

Motion FX

Northern Lights Electronic Design

Shanxi Tian Gong Sheng Optoelectronic Equipment
Technology Co.

Sigma Net

Stephen Vanciel

Patrick Wallace

Mitchell Weisbrod

Extraordinary legacy gift: Ken Vannice

You can make a donation by visiting https://tsp.esta.org/tsp/inv_in_innovation/sponsor.html.

Become an *Investor in Innovation!*