

## ESTA Standards Watch

January 2021

Volume 25, Number 1

### Table of Contents

Events Industry Forum updates guidance for England almost continuously.....	1
WTO Technical Barrier to Trade notifications.....	1
United States of America Notification USA/1685.....	1
Brazil Notification BRA/1115.....	2
Israel Notification ISR/1182.....	3
Egypt Notification EGY/280.....	3
ANSI public review announcements.....	4
Due 8 February 2021.....	4
Due 15 February 2021.....	5
Due 22 February 2021.....	6
CSA public review announcements.....	6
Due 17 February 2021.....	7
Due 12 March 2021.....	7
DIN public review announcement.....	7
New ANS projects.....	7
Final actions on American National Standards.....	8
Draft IEC & ISO documents.....	8
Recently published IEC & ISO documents.....	9
TSP meeting schedule.....	11
TSP donors who have made long-term, multi-year pledges.....	12
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	13

### Events Industry Forum updates guidance for England almost continuously

The Events Industry Forum announced on 24 December an update to their COVID-19 outdoor events guidance to reflect the revised tier system in place at that time. However, new restrictions have been applied across England since 6 January. The UK government is requiring people to stay at home where possible and only travel to work if they cannot work from home. The Events Industry Forum has revised its guidance and provided links to UK government sites with COVID-19 response information and rules at [www.eventsindustryforum.co.uk](http://www.eventsindustryforum.co.uk).

### 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. The sort order is by comment due-date. If you have a problem with any TBT, you can protest through your representative to the World Trade Organization. See the guidance documents at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

### United States of America Notification USA/1685

**Date issued:** 8 January 2021

**Agency responsible:** Environmental Protection Agency (EPA)

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

**Products covered:** Asbestos (Chrysotile Asbestos), risk evaluation; Asbestos (excl. products made from asbestos) (HS 2524)

**Title:** Asbestos (Part 1: Chrysotile Asbestos); Final Toxic Substances Control Act (TSCA) Risk Evaluation; Notice of Availability (3 pages in English)

**Description of content:** Notice - The Environmental Protection Agency (EPA) is announcing the availability of the final Toxic Substances Control Act (TSCA) risk evaluation of Asbestos Part 1 (Chrysotile Asbestos). The purpose of conducting risk evaluations under TSCA is to determine whether a chemical substance presents an unreasonable risk of injury to health or the environment under the conditions of use, including an unreasonable risk to a relevant potentially exposed or susceptible subpopulation, without consideration of costs or other nonrisk factors. EPA has determined that specific conditions of use of Chrysotile Asbestos present an unreasonable risk of injury to health. For those conditions of use for which EPA has found an unreasonable risk, EPA must take regulatory action to address that unreasonable risk through risk management measures enumerated in TSCA. EPA has also determined that specific conditions of use do not present unreasonable risk of injury to health or the environment. For those conditions of use for which EPA has found no unreasonable risk to health or the environment, the Agency's determination is a final Agency action and is issued via order in the risk evaluation. EPA is currently developing Part 2 of the TSCA risk evaluation for Asbestos which will evaluate risk of injury to health or the environment for legacy uses and associated disposals of asbestos. The Agency plans to release a draft scope for Part 2 of the risk evaluation for Asbestos for public comment mid-year 2021.

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

**Relevant documents:** 86 Federal Register (FR) 89, 4 January 2021:

<https://www.govinfo.gov/content/pkg/FR-2021-01-04/pdf/2020-29109.pdf>

This notice is identified by Docket Number EPA-HQ-OPPT-2019-0501. The Docket Folder is available on Regulations.gov at <https://www.regulations.gov/docket?D=EPA-HQ-OPPT-2019-0501> and provides access to primary and supporting documents as well as comments received. Documents are also accessible from Regulations.gov by searching the Docket Number.

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

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

**Final date for comments:** Not given by country

**Full text:** <https://www.govinfo.gov/content/pkg/FR-2021-01-04/pdf/2020-29109.pdf>

## **Brazil Notification BRA/1115**

**Date issued:** 5 January 2021

**Agency responsible:** National Institute of Metrology, Standardization and Industrial Quality (INMETRO); National Telecommunications Agency – ANATEL

**National inquiry point:** TBT/WTO Enquiry Point (INMETRO)

**Products covered:** Radiocommunication equipment operating in the 1427-1518 MHz bands.

**Title:** Resolution No. 736/2020 - ANATEL (6 pages in Portuguese)

**Description of content:** Resolution No. 736/2020 - ANATEL: Approval of the destination and the regulation on conditions of use of the 1427-1518 MHz radio frequency bands (L Band)

**Objective and rationale:** Destination and Conditions for the use of 1427-1518 MHz frequency band SEI process number 53500.044911/2018-10

[https://sei.anatel.gov.br/sei/modulos/pesquisa/md\\_pesq\\_processo\\_exibir.php?](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI)

[exlSiWoPbTSMJNP15y\\_TiUpWlFjXgqaCc-](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI)

[xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh\\_HT6NYS\\_BYkN5mlljzvvM9gtQB\\_pwRu91kbMZeWMaWrF45q\\_tAVQ9Pk8RI](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI); Other

**Relevant documents:** (01) Brazilian Official Gazette on 5 November 2020, section 1, page 6; (02) SEI process number 53500.044911/2018-10, available at:

[https://sei.anatel.gov.br/sei/modulos/pesquisa/md\\_pesq\\_processo\\_exibir.php?](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI)

[exlSiWoPbTSMJNP15y\\_TiUpWlFjXgqaCc-](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI)

[xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh\\_HT6NYS\\_BYkN5mlljzvvM9gtQB\\_pwRu91kbMZeWMaWrF45q\\_tAVQ9Pk8RI](https://sei.anatel.gov.br/sei/modulos/pesquisa/md_pesq_processo_exibir.php?exlSiWoPbTSMJNP15y_TiUpWlFjXgqaCc-xbh3o0V5ttS0uQqIkRDNDdsrlbDPN0z9DjOh_HT6NYS_BYkN5mlljzvvM9gtQB_pwRu91kbMZeWMaWrF45q_tAVQ9Pk8RI) (03) Public Consultation No. 14, 25 April 2019 (Proposed Review of the regulation in the 1427-1518 MHz bands (L Band)), available at:

[https://sistemas.anatel.gov.br/SACP/Contribuicoes/TextoConsulta.asp?](https://sistemas.anatel.gov.br/SACP/Contribuicoes/TextoConsulta.asp?CodProcesso=C2218&Tipo=1&Opcao=finalizadas)

[CodProcesso=C2218&Tipo=1&Opcao=finalizadas](https://sistemas.anatel.gov.br/SACP/Contribuicoes/TextoConsulta.asp?CodProcesso=C2218&Tipo=1&Opcao=finalizadas)

**Proposed date of adoption:** 3 November 2020 [sic]

**Proposed date of entry into force:** 1 December 2020 [sic]

**Final date for comments:** Not given by country

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/BRA/full\\_text/pdf/BRA1115\(portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA1115(portuguese).pdf)

#### Israel Notification ISR/1182

**Date issued:** 6 January 2021

**Agency responsible:** Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)

**National inquiry point:** Israel WTO-TBT Enquiry Point, Ministry of Industry, Trade and Labor (MOITAL)

**Products covered:** Industrial chemical substances

**Title:** Industrial Chemicals Registering Law, 5781-2020 (72 pages in Hebrew)

**Description of content:** Israel's Ministry of Environmental Protection promotes establishing a mechanism for registering industrial chemicals and publishes a memorandum of a law titled "Industrial Chemicals Registering Law, 5781-2020". The law establishes a new mechanism aiming to reduce harmful effects to humans and the environment from chemicals used as raw materials in the local industry. The law includes the following:

- Establishes a Chemical Inventory Registry;
  - Provides guidelines for performing risk assessment on selected chemicals;
  - Provides guidelines for conducting risk management by setting rules restricting the use of chemicals and or exposure to them;
  - Sets the authorities and power given to the registrar and to the Chemical Evaluation Advisory Committee;
- Israel has an extensive regulation relating to the practices, import, production, use, maintenance, and transportation of chemical substances. However, the existing regulations are decentralized and allocated among various government ministries and usually does not include a systematic assessment of the chemicals and their effects on humans or their environmental impact. The new draft law sets a unified mechanism to register industrial chemicals, to be governed and regulated under one entity in the Ministry of Environmental Protection.

Manufacturers and importers of significant quantities of industrial chemicals (over 10 tons per year of natural or artificial chemicals used as a raw material in the industry) will be required to report to the new online Chemicals Registry at the Ministry of Environmental Protection. The information required is primary data and a full Safety Data Sheet (SDS). This information will be made public, subject to the restrictions required to protect intellectual property and trade secrets. Special attention will be made to reducing the bureaucratic burden and using relevant official databases. The obligations imposed on manufacturers and importers will apply to chemical substances found in a mixture intended for use as a raw material in the industry, but not to mixtures of chemicals found in the finished products. The chemical quantity required to be reported will be tested according to the actual chemical quantity and not according to the total mixture.

There are four conditions for exempting an industrial chemical from the requirement to be registered, as defined in the different parts of the Law's Second Annex:

- Part 1: The chemical is regulated by different legislation;
- Part 2: A chemical substance with a known risk level;
- Part 3: A chemical substance from a natural source;
- Part 4: Polymers, except for free monomers in a weight concentration of 2 or more present from the mixture.

The law is due to enter into force on 1 March 2023, and the establishment of the Chemical Inventory Registry should be completed and launched by 1 September 2024.

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

**Relevant documents:**

- Regulatory Impact Analysis (RIA);
- Hazardous Materials Law, 5733 - 1993.

**Proposed date of adoption:** 1 March 2023

**Proposed date of entry into force:** 1 March 2023

**Final date for comments:** 7 March 2021

**Full text:** [https://tsapps.nist.gov/notifyus/docs/wto\\_country/ISR/full\\_text/pdf/ISR1182\[1\]\(hebrew\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR1182[1](hebrew).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto\\_country/ISR/full\\_text/pdf/ISR1182\[2\]\(hebrew\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/ISR/full_text/pdf/ISR1182[2](hebrew).pdf)

#### Egypt Notification EGY/280

**Date issued:** 11 January 2021

**Agency responsible:** Egyptian Organization for Standardization and Quality Control (EOS)

**National inquiry point:** Egyptian Organization for Standardization and Quality Control (EOS)

**Products covered:** Rotating machinery in general

**Title:** The Ministerial Decree No. 463/2020 (3 pages, in Arabic) amended by Ministerial Decree No. 474/2020 (2 pages in Arabic) mandating the following Egyptian Standards: ES 2623-3/ 2017 for "Rotating electrical machines - part 3: Efficiency classes of line operated AC motors (IE code)" (59 pages in English), ES 2623-1/2015 for "Rotating electrical machines - Part 1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)" (195 pages in English), ES 8268-1/2019 for "Rotating electrical machines - Part 1: - Rating and performance" (157 pages in English)

**Description of content:** These two Decrees No. 463/2020 and Decree No. 474/2020 give the producers and importers a six-month transitional period to abide by: 1. ES 2623-3/ 2017 for "Rotating electrical machines - part 3: Efficiency classes of line operated AC motors (IE code)", and its modifications.

This standard specifies efficiency classes for single-speed electric motors, for operation on a sinusoidal voltage supply, and establishes a set of limit efficiency values based on frequency, number of poles and motor power.

2. ES 2623-1/2015 for "Rotating electrical machines - Part 1: Standard methods for determining losses and efficiency from tests (excluding machines for traction vehicles)" and its modifications.

This standard intended to establish methods of determining efficiencies from tests, and to specify methods of obtaining specific losses, and applies to d.c. machines and to a.c. synchronous and induction machines of all sizes.

3. ES 8268-1/2019 for "Rotating electrical machines - Part 1:- Rating and performance"

This standard is applicable to all rotating electrical machines except those covered by other IEC standards for example IEC 60349.

The producers and importers of the three-phase, cage-rotor induction motors with capacities of 0.75 kilowatts and up to 375 kilowatts, given Eighteen-month transitional period to abide by no less than (IE3) energy efficiency level rating.

The producers and importers must abide by installing a special dashboard for each engine in a visible place while adhering to the required data on the dashboard according to the Egyptian Standard ES 8268-1/2019 and declaring the degree of energy efficiency (IE CODE) according to the tables of the Egyptian standard ES 2623-3/ 2017 and its modifications. Testing and verification of energy efficiency levels for electric motors shall be conducting according to the Egyptian standard ES 2623-1, using efficiency class tables in the Egyptian standard ES 2623-3, or accompanied by an accredit certificate confirming their conformity to the energy efficiency level according to the relevant Egyptian standards

Worth mentioning is that the: ES 2623-3/ 2017 adopts the technical content of IEC 60034-30-1:2014. ES 2623-1/2015 adopts the technical content of IEC 60034-2-1:2014. ES 8268-1/2019 adopts the technical content of IEC 60034-1:2017.

**Objective and rationale:** Energy conservation, testing, labelling, quality; Other

**Relevant documents:**

- Ministerial decrees No.463/2020.
- Ministerial decrees No.474/2020.
- IEC 60034-30-1:2014.
- IEC 60034-2-1:2014.
- IEC 60034-1:2017.

**Proposed date of adoption:** 14 October 2020 [sic]

**Proposed date of entry into force:** 1 November 2020 [sic]

**Final date for comments:** 12 March 2021

---

## 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 8 February 2021

**BSR/ASABE EP585.1-MON2021, Animal Mortality Composting** (revision and redesignation of ANSI/ASABE EP585-2015 (R2019))

This Engineering Practice provides guidelines for biosecure, environmentally acceptable, and economically sustainable disposal of livestock and poultry carcasses and carcass parts via composting.

Single copy price: \$68.00

Order from and send comments to: Jean Walsh, [walsh@asabe.org](mailto:walsh@asabe.org)

**BSR/ACCA 6 QR-2015 (R202x), Restoring the Cleanliness of HVAC Systems** (reaffirmation of ANSI/ACCA 6 QR-2015)

This standard establishes minimum requirements to restore the cleanliness of residential and commercial HVAC systems in accordance with manufacturer- or customer-specified criteria. The methodologies used address the designed HVAC air pathways and associated air-side HVAC components such as evaporator fan sections, air ducts, and components contained within HVAC systems.

Single copy price: Free

Order from and send comments to: David Bixby, [david.bixby@acca.org](mailto:david.bixby@acca.org)

**BSR/ASSP Z9.9-202x, Portable Ventilation Systems** (new standard)

This standard discusses portable ventilation equipment and systems used for the reduction, control, or prevention of exposure to hazardous atmospheres or airborne substances in the occupational environment, and for provision of comfort to employees.

Single copy price: \$110.00

Order from and offer comments to: Lauren Bauerschmidt, [L.Bauerschmidt@assp.org](mailto:L.Bauerschmidt@assp.org)

**BSR Z590.3-202x, Prevention through Design. Guidelines for Addressing Occupational Hazards and Risks in Design and Redesign Processes** (revision and redesignation of ANSI/ASSE Z590.3-2011 (R2016))

This standard provides guidance on including prevention through design concepts within an occupational safety and health management system. Through the application of these concepts, decisions pertaining to occupational hazards and risks can be incorporated into the process of design and redesign of work premises, tools, equipment, machinery, substances, and work processes including their construction, manufacture, use, maintenance, and ultimate disposal or reuse. This standard provides guidance for a life-cycle assessment and design model that balances environmental and occupational safety and health goals over the life span of a facility, process, or product.

Single copy price: \$110.00

Order from and offer comments to: Lauren Bauerschmidt, [L.Bauerschmidt@assp.org](mailto:L.Bauerschmidt@assp.org)

**BSR/BOMA Z65.5-202x, BOMA 2020 for Retail Properties: Standard Method of Measurement** (new standard)

BOMA 2020 for Retail Properties: Standard Method of Measurement is for retail properties and their associated structures and may be applied to single-tenant, multi-tenant or multi-building configurations. It features a single method of measurement, with two levels of measurement data, known as Partial Measurement and Overall Measurement, for retail properties. It does not measure sidewalks, surface parking, drainage structures, or other ancillary site improvements. This standard is chiefly designed to generate Gross Leasable Area figures, a key metric in retail leasing; however, it also produces area figures which may be of interest to those examining space utilization, valuation, benchmarking, and the allocation of building expenses to various cost centers. The scope of this standard is not intended to be submitted for consideration as an ISO, IEC, or ISO/IEC JTC-1 standard.

Single copy price: Free

Order from and submit comments to: [floorstandards@boma.org](mailto:floorstandards@boma.org)

**Due 15 February 2021**

**BSR/ASSP Z359.11-202X, Safety Requirements for Full Body Harnesses** (revision and redesignation of ANSI/ASSE Z359.11-2014)

This standard establishes requirements for the performance, design, marking, qualification, instruction, training, test methods, inspection, use, maintenance, and removal from service of full body harnesses (FBH). FBHs are used for fall arrest, positioning, travel restraint, suspension, or rescue applications for users within the capacity range of 130 to 310 pounds (59 to 140 kg).

Single copy price: \$110.00

Order from and offer comments to: Lauren Bauerschmidt. [L.Bauerschmidt@assp.org](mailto:L.Bauerschmidt@assp.org)



**BSR/NEMA MG 1-202x, Motors and Generators** (revision of ANSI/NEMA MG 1-2016)

Assists users in the proper selection and application of motors and generators. Contains practical information concerning performance, safety, testing, and construction and manufacture of ac and dc motors and generators. Single copy price: \$125.00

Order from: <https://www.techstreet.com>

Send comments to: Michael Leibowitz, [mike.leibowitz@nema.org](mailto:mike.leibowitz@nema.org)

**BSR/NSF 456-202x (i1r1), Vaccine Storage** (new standard)

Equipment covered by this standard includes, but is not limited to, refrigerators, freezers, and combination units that are comprised of separate refrigerator and freezer sections.

Single copy price: Free

Obtain an electronic copy from: [https://standards.nsf.org/apps/group\\_public/download.php/56991/456i1r1%20-%20New%20Standard%20-%20JC%20Memo%20%26%20Ballot.pdf](https://standards.nsf.org/apps/group_public/download.php/56991/456i1r1%20-%20New%20Standard%20-%20JC%20Memo%20%26%20Ballot.pdf)

Send comments to: Rachel Brooker, [rbrooker@nsf.org](mailto:rbrooker@nsf.org)

**Due 22 February 2021**

**BSR/ASTM WK60578-202x, Test Method for Walkway Friction Testing using Portable Walkway Tribometers** (new standard)

1.1 This test method covers the use of portable walkway tribometers for obtaining walkway friction measurements in the field or laboratory. 1.2 This test method is for obtaining walkway friction data; it does not address the interpretation of data regarding pedestrian slip risk or safety. 1.3 This test method is not intended to address the suitability of a walkway surface for a particular . . . .

Single copy price: Free

Order from and send comments to: Laura Klineburger, [accreditation@astm.org](mailto:accreditation@astm.org)

**BSR/NECA 5-202X, Recommended Practice for Prefabrication of Electrical Installations for Construction** (new standard)

This standard describes recommended on-site and off-site practices for prefabrication of electrical installations for construction projects. The term "prefabrication" collectively refers to any kind of completion of electrical components, (sub-) assemblies, or modules of a construction project that is taken from the final point of installation to a different, off-site location and performed in a controlled environment. The off-site completed, prefabricated item is then transported to the construction site for final installation and assembled in place.

Single copy price: \$6.00

Order from and send comments to: Aga Golriz, [Aga.golriz@necanet.org](mailto:Aga.golriz@necanet.org)

**BSR/UL 1480A-2016 (R202x), Standard for Safety for Speakers for Commercial and Professional Use** (reaffirmation of ANSI/UL 1480A-2016)

UL proposes a reaffirmation for ANSI approval of UL 1480A-2016. These requirements cover speakers for indoor and/or outdoor use in dry, damp, wet, or underwater locations and are intended for Commercial and professional audio systems providing non-emergency sound reinforcement and reproduction in accordance with the National Electrical Code, NFPA 70 (this includes equipment for institutional, industrial use); Non-fire emergency voice-warning systems in accordance with NFPA 70; and Underwater speakers in accordance with Article 680 of NFPA 70. An underwater speaker is not to be used in a fire alarm system or as an emergency (non-fire) voice-warning system. These requirements do not cover the following: Speakers intended for use in hazardous locations as defined in the National Electrical Code, NFPA 70; Speakers intended for personal or private consumer use; Speakers which are intended for commercial or professional audio applications and which employ integral active electronics; and Speakers intended for security applications.

Single copy price: Free

Access and offer comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

---

**CSA public review announcements**

The CSA Group has announced draft documents for public review that might be of interest to Standards Watch readers. To participate in CSA public reviews, please visit: <http://publicreview.csa.ca/>.

## Due 17 February 2021

### **Z259.16, Design of active fall-protection systems** (new edition)

This standard specifies requirements for the design and performance of complete active fall-protection systems, including travel-restraint and vertical and horizontal fall-arrest systems. This standard is intended for engineers with expertise in designing fall-protection systems.

## Due 12 March 2021

### **C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4645, Revise definition for Voltage** (amendment)

The amendment does not actually change the definition of “voltage” but it raises the boundaries between the classifications of “Extra-low voltage,” “Low voltage,” and “High voltage” in DC circuits. For example, extra-low voltage for DC would be any voltage not exceeding 60 V. The present upper limit is 42.4 V.

### **C22.1, Amendment - Canadian Electrical Code, Part I, Subject No. 4637, Revision to the definition of “industrial establishment”** (amendment)

Revise definition of “industrial establishment” as follows:

“Industrial establishment—a building or part of a building (other than office or exhibit space) or a part of the premises outside the building where persons are employed for the purpose of assembling, fabricating, manufacturing, processing, repairing or storing of goods and materials in manufacturing processes or in the handling of material, as distinguished from dwellings, offices, and similar occupancies.”

---

## DIN public review announcement

The Deutsches Institut für Normung has announced a draft document possibly of interest to *Standards Watch* readers that will be open for public review from 29 January until 29 March 2021. The document is in German. After you register with DIN at <http://www.entwuerfe.din.de/>, you may purchase and comment on DIN draft standards.

### **DIN 56950-2, Veranstaltungstechnik - Maschinentechnische Einrichtungen - Teil 2: Sicherheitstechnische Anforderungen an bewegliche Leuchtenhänger** (Entertainment technology - Machinery installations - Part 2: Safety requirements for studio hoists)

The announced changes in this document compared to DIN 56950-2: 2014-09 are the references to DIN 56950-1 and editorial corrections.

---

## New ANSI projects

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

### **BSR/UL 8802-202X, Standard for Safety for Ultraviolet (UV) Germicidal Equipment and Systems** (new standard)

The requirements in this proposed new standard apply to ultraviolet germicidal irradiation equipment and systems emitting uncontained UV and intended for use in commercial and industrial environments and installed in accordance with the U.S. National Electrical Code (NEC), ANSI/NFPA 70, and in accordance with the Canadian Electrical Code, Part I (CEC), CSA C22.1. These requirements cover: Germicidal systems – intended to expose surfaces within an unoccupied area with ultraviolet (UV) energy where the exposure dose would otherwise pose a risk of personal injury to occupants. System components include UV emitters, switches, sensors, and other controls acting as site or equipment safeguards. The installation and operating instructions are considered an integral system component. A system may also include devices that produce visible light. Upper-room germicidal equipment – intended for use while a space is occupied. The UV risk is mitigated by a fixed installation at a minimum height above the floor as well as directional baffling to minimize direct emissions towards the occupied space. The effectiveness of these safeguards is confirmed by a photobiological risk assessment. UV emitters – intended for use either as standalone components of upper-air equipment or a

germicidal system.

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

---

**BSR/NFPA 1194-202x, Standard for Recreational Vehicle Parks and Campgrounds** (revision of ANSI/NFPA 1194-2021)

This standard shall provide minimum construction requirements for safety and health for occupants using facilities supplied by recreational vehicle parks and campgrounds offering temporary living sites for use by recreational vehicles, recreational park trailers, and other camping units. This standard shall not cover the design of recreational vehicles, recreational park trailers, or other forms of camping units. ANSI A119.2/NFPA 1192 and ANSI A119.5 are companion standards on which the provisions of this standard are largely based. This standard shall not cover operational and maintenance practices for recreational vehicle parks and campgrounds.

Contact: Dawn Michele Bellis, [dbellis@nfpa.org](mailto:dbellis@nfpa.org)

---

## Final actions on American National Standards

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

**ANSI/RIA R15.08-1-2020, Industrial Mobile Robots - Safety Requirements - Part 1: Requirements for the Industrial Mobile Robot** (new standard) 18 December 2020

**ANSI/UL 793-2020, Standard for Automatically Operated Roof Vents for Smoke and Heat** (revision of ANSI/UL 793-2017) 15 December 2020

---

## Draft IEC & ISO documents

This section lists proposed documents that the IEC or 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 IEC documents should be sent to Charles T. Zegers at [czegers@ansi.org](mailto:czegers@ansi.org). Comments from US citizens on ISO documents should be sent to Karen Hughes at [isot@ansi.org](mailto:isot@ansi.org). Any prices, if shown, are for purchases through ANSI. The sort order is first by due date then by the project identifier alphanumeric.

**100/3548/FDIS, IEC 63245-1 ED1: Spatial wireless power transfer based on multiple magnetic resonances - Part 1: Requirements**, 29 January 2021

**110/1276/CD, IEC 62977-3-4 ED1: Electronic displays - Part 3-4: Evaluation of optical performance - High dynamic range displays**, 12 February 2021

**110/1277/NP, PNW 110-1277 ED1: Electronic displays - Part 3-6: Evaluation of optical performances - Spatial resolution**, 12 February 2021

**JTC1-SC25/3000/CD, ISO/IEC 11801-6/AMD1 ED1: Amendment 1 - Information technology - Generic cabling for customer premises - Part 6: Distributed building services**, 12 February 2021

**JTC1-SC41/195/FDIS, ISO/IEC 20924 ED2: Internet of Things (IoT) - Vocabulary**, 12 February 2021

**JTC1-SC41/197/DTR, ISO/IEC TR 30176 ED1: Internet of Things (IoT) - Integration of IoT and DLT/Blockchain: Use Cases**, 12 February 2021

**JTC1-SC41/198/CD, Internet of Things (IoT) - Integration of IoT and DLT/Blockchain: Use Cases**, 19 February 2021

**34/770(F)/CDV, IEC 62386-250 ED1: Digital addressable lighting interface - Part 250: Particular requirements - Integrated Power Supply (Device Type 49)**, 5 March 2021



**34/771(F)/CDV, IEC 62386-251 ED1:** Digital addressable lighting interface - Part 251: Particular requirements - Memory bank 1 extension (Device Type 50), 5 March 2021

**34/772(F)/CDV, IEC 62386-252 ED1:** Digital addressable lighting interface - Part 252: Particular requirements - Energy Reporting (Device Type 51), 5 March 2021

**34/773(F)/CDV, IEC 62386-253 ED1:** Digital addressable lighting interface - Part 253: Particular requirements - Diagnostics and maintenance (Device Type 52), 5 March 2021

**ISO/DIS 37168,** Smart community infrastructures - Guidance on smart transportation by autonomous shuttle, 11 March 2021, \$62.00

**70/153/CDV, IEC 62262/AMD1 ED1:** Amendment 1 - Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code), 12 March 2021

**76/672/CD, IEC TR 60825-13 ED3:** Safety of laser products - Part 13: Measurements for classification of laser products, 12 March 2021

**ISO/DIS 37181,** Smart community infrastructures – Smart transportation by autonomous vehicle on public roads, 12 March 2021, \$58.00

**JTC1-SC41/196/NP, PNW JTC1-SC41-196 ED1:** Internet of Things (IoT) - Data format, value and coding, 12 March 2021

**100/3523/CDV, IEC 61937-11 ED2:** Digital audio - Interface for nonlinear PCM encoded audio bitstreams applying IEC 60958 - Part 11: MPEG-4 AAC and its extensions and MPEG-D USAC in LATM/LOAS (TA 20), 26 March 2021

**64/2477/CD, IEC 60364-7-702 ED4:** Low-voltage electrical installations - Part 7-702: Requirements for special installations or locations - Swimming pools and fountains, 9 April 2021

---

## Recently published IEC & ISO documents

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

**IEC 61158-4-4 Ed. 3.0 b:2019,** Industrial communication networks - Fieldbus specifications - Part 4-4: Data-link layer protocol specification - Type 4 elements, \$281.00

**IEC 61158-6-25 Ed. 1.0 b:2019,** Industrial communication networks - Fieldbus specifications - Part 6-25: Application layer protocol specification - Type 25 elements, \$387.00

**IEC 61784-5-12 Ed. 2.0 b:2018,** Industrial communication networks - Profiles - Part 5-12: Installation of fieldbuses - Installation profiles for CPF 12, \$164.00

**IEC 61784-5-18 Ed. 2.0 b:2018,** Industrial communication networks - Profiles - Part 5-18: Installation of fieldbuses - Installation profiles for CPF 18, \$164.00

**IEC 61784-5-20 Ed. 1.0 b:2018,** Industrial communication networks - Profiles - Part 5-20: Installation of fieldbuses - Installation profiles for CPF 20, \$281.00

**IEC 61784-5-21 Ed. 1.0 b:2018,** Industrial communication networks - Profiles - Part 5-21: Installation of fieldbuses - Installation profiles for CPF 21, \$164.00

**IEC 61784-5-6 Ed. 4.0 b:2018,** Industrial communication networks - Profiles - Part 5-6: Installation of fieldbuses - Installation profiles for CPF 6, \$317.00

**IEC 61784-5-8 Ed. 2.0 b:2018**, Industrial communication networks - Profiles - Part 5-8: Installation of fieldbuses - Installation profiles for CPF 8, \$352.00

**ISO 22525:2020**, Tourism and related services - Medical tourism - Service requirements, \$138.00

**ISO/IEC 10646:2020**, Information technology - Universal coded character set (UCS), \$232.00

**ISO/IEC 14651:2020**, Information technology - International string ordering and comparison – Method for comparing character strings and description of the common template tailorable ordering, \$209.00

**ISO/IEC 14882:2020**, Programming languages - C++, \$232.00

**ISO/IEC 23531:2020**, Systems and software engineering - Capabilities of issue management tools, \$185.00

**ISO/IEC 27014:2020**, Information security, cybersecurity and privacy protection - Governance of information security, \$103.00

**ISO/IEC 30141/Cor1:2018**, Internet of Things (IoT) – Reference Architecture - Technical Corrigendum 1, FREE

**ISO/IEC 5230:2020**, Information technology – OpenChain Specification, \$68.00

**ISO/IEC 9594-11:2020**, Information technology - Open systems interconnection directory - Part 11: Protocol specifications for secure operations, FREE

**ISO/IEC TS 27100:2020**, Information technology - Cybersecurity - Overview and concepts, \$103.00

**ISO/IEC/IEEE DIS 8802-22/Amd1:2017**, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Policies and Procedures for Operation in the TV Bands - Amendment 1: Management and control plane interfaces and procedures and enhancement to the management information base (MIB), \$281.00

**ISO/IEC/IEEE DIS 8802-22/Amd2:2017**, Information technology - Telecommunications and information exchange between systems - Local and metropolitan area networks - Specific requirements - Part 22: Cognitive Wireless RAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications: Policies and Procedures for Operation in the TV Bands - Amendment 2: Enhancement for broadband services and monitoring applications, \$215.00

**ISO/PAS 45005:2020**, Occupational health and safety management - General guidelines for safe working during the COVID-19 pandemic, \$185.00

---

## TSP meeting schedule

The meeting schedule is posted at <https://www.esta.org/ESTA/meetings.php>. All the meetings will be by WebEx.

Control Protocols E1.68 Compliance TG	10:00 – noon EST	Tuesday 26 January 2021
Control Protocols GitHub SG	13:00 – 14:00 EST	Tuesday 26 January 2021
Control Protocols Next Gen Library SG:	13:00 – 14:00 EST	Wednesday 20 January 2021
Control Protocols Next Gen Overall SG	noon – 14:00 EST	Monday 25 January 2021
Control Protocols Next Gen Transport SG	noon – 13:00 EST	Tuesday 19 January 2021
Control Protocols Working Group	11:00 – 13:00 EST	Wednesday 27 January 2021
Electrical Power Working Group	15:00 – 17:00 EST	Friday 29 January 2021
Event Safety Working Group	11am – 13:00 EST	Friday 29 January 2021
Floors Working Group	15:00 – 17:00 EST	Tuesday 26 January 2021
Followspot Position Working Group	14:00 – 14:30 EST	Wednesday 27 January 2021
Photometrics Working Group	15:00 – 17:00 EST	Wednesday 27 January 2021
Rigging Working Group	11:00 – 13:00 EST	Tuesday 26 January 2021
Stage Machinery Working Group	11:00 – 13:00 EST	Thursday 28 January 2021
Technical Standards Council	11am – 13:00 EST	Monday 1 February 2021

---

## 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, 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/nn7a1>.

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

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

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

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

ETC

PLASA

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

Chauvet Professional

Cisco

Columbus McKinnon Entertainment Technology

ProSight Specialty Insurance

Robe

Disney Parks Live Entertainment

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

Altman Lighting, Inc.

German Light Products

JR Clancy

McLaren Engineering Group

Rose Brand

Stage Rigging

Theatre Projects

Theatre Safety Programs

TMB

#### 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

EGI Event Production Services

Entertainment Project Services

Neil Huff

Interactive Technologies

Jules Lauve

Brian Lawlor

Michael Lay

Limelight Productions, Inc.

Link

John T. McGraw

Mike Garl Consulting

Mike Wood Consulting

Reed Rigging

Reliable Design Services

Alan Rowe

Sapsis Rigging Inc.

Steve A. Walker & Associates

Dana Taylor

Steve Terry

Vertigo

WNP Services

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

Actors' Equity Association

Barbizon Lighting Company

Golden Sea Professional Lighting Provider

IATSE Local 728

IATSE Local 891

Lex

NAMM

Rosco Laboratories

Texas Scenic Company

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

Area Four Industries

American Society of Theatre Consultants

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)

Bruce Darden

Guangzhou Color Imagination LED Lighting

Indianapolis Stage Sales & Rentals, Inc.

Kenney Drapery Associates, Inc.

L1 Inc.

Lighting Infusion LLC

Scott Madaski

Mediam Sp. zo.o.

Karen Miller

Nanyi Audio & Lighting Enterprise Co., Ltd.

Qdot Lighting Ltd.

Sanko Device Co. Ltd.

Show Light Oy

Shawn Silverman

Steve Vanciel

Ralph Weber



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

**SUPPORTER** (\$50 - \$1,499; 20–100 employees/members)  
ACT Lighting Inc./AC Power Distribution  
ARM Automation, Inc.  
Ian Foulds, IATSE Local 873  
General Lighting Electronic Co. Ltd.  
Guangzhou Shenghui Electronic Technology  
Guangzhou YaFeng Optoelectronic Equipment Co.  
Guangzhou Yilaiming Photoelectric Technology Co., Ltd.  
ELECTRON SA  
HAYA Light Equipment Ltd. Co.  
High Output  
InCord  
Intella Systems Co., Ltd.  
iWeiss  
LA ProPoint, Inc.

**SUPPORTER** (\$50 - \$199; <20 employees/members)  
Adam Blair  
Alyxzander Bear  
Capture Visualisation AB  
Chip Scott Lighting Design  
DMX Pro Sales  
Emilium GmbH  
Peter Erskine  
Foshan Leiyuan Photoelectric Co. Ltd.  
Jack Gallagher  
Tony Giovannetti  
Pat Grenfell  
John Huntington  
Beverly and Tom Inglesby

LUPO SRL  
Moss LED Inc.  
Nanshi Lighting  
Oasis Stage Werks  
Shenzhen Ifountain Technology  
Skjonberg Controls Inc.  
Stage Equipment & Lighting  
Stagemaker  
Stageworks  
Syracuse Scenery and Stage Lighting Co., Inc.  
Taurus Light Co. Ltd.  
Ultratec Special Effects  
Vincent Lighting Systems  
Zhisheng Huang  
Zhuhai Shengchang Electronics Co.

Klik Systems  
Eddie Kramer  
Jason Kyle  
David Lascaut  
Jason Livingston  
LuxBalance Lighting  
Tyrone Mellon, Jr.  
Lizz Pittsley  
Michael Skinner  
Studio T+L  
Terrier Marketing  
Arjan van Vught  
Lars Wernland

---

Extraordinary legacy gift: Ken Vannice