



# ESTA Standards Watch

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## Table of Contents

One ESTA standard in public review.....	1
FCC publishes Report and Order about unlicensed white space devices.....	1
WTO Technical Barrier to Trade notifications.....	2
China Notification CHN/1718.....	2
China Notification CHN/1725.....	2
Republic of Korea Notification KOR/1137.....	2
European Union Notification EU/966.....	3
ANSI public review announcements.....	4
Due 22 May 2023.....	4
Due 29 May 2023.....	4
CSA public review announcement.....	5
Due 9 June 2023.....	5
New ANS projects.....	5
Final actions on American National Standards.....	6
Draft IEC & ISO documents.....	6
Recently published ISO & IEC documents.....	7
TSP meeting schedule.....	9
Editors.....	9
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	10

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## One ESTA standard in public review

One draft standard is available for public review and comment on the ESTA website at <http://estalink.us/pr>. The download's free. Comments are due no later than April 24, which is before April 25, not on April 25. (This is like, "Stop your car before you hit the garage wall.")

**BSR ES1.2, Event Safety - Planning, Management, and Major Incident**, describes a process for event organizers and supporting staff to create and implement event-related plans for health and safety management. This process includes a framework, guidelines, and recommended practices that can be used to reduce risk as much as reasonably practical and to respond appropriately when an incident occurs.

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## FCC publishes Report and Order about unlicensed white space devices

The FCC has published a Report and Order on an Amendment of Part 15 of the Commission's Rules for Unlicensed Operations in the Television Bands, Repurposed 600 MHz Band, 600 MHz Guard Bands and Duplex Gap, and Channel 37, ET Docket No. 20-36. The 40-page document is available at <https://docs.fcc.gov/public/attachments/FCC-23-24A1.pdf>. It's a long, complicated document, with almost as many words in the foot notes as in the text, but it affects the spectra available for wireless microphones and IoT devices.

The document's opening summary says that in the Report and Order the FCC adopt rules specifying the database re-check interval for the new categories of mobile and narrowband white space devices established in 2020. In the Order on Reconsideration (part of the 40-page document), the FCC dismisses in part and denies a petition for reconsideration of two rule changes for white space devices operating in the broadcast television bands. In the Memorandum Opinion and Order (another part of the 40-page document), the FCC declines to modify the rules to permit white space databases to use more complex, terrain-based models to determine the available frequencies for white space devices and will instead continue to rely on the simpler established model.

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## WTO Technical Barrier to Trade notifications

The World Trade Organization has announced Technical Barrier to Trade filings 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.

### China Notification CHN/1718

**Notification date:** 11 April 2023

**Agency responsible:** State Administration for Market Regulation (Standardization Administration of the P.R.C.)

**Inquiry point:** WTO/TBT National Notification and Enquiry Center of the People's Republic of China, [tbt@customs.gov.cn](mailto:tbt@customs.gov.cn)

**Products covered:** Light source products

**Title:** National Standard of the P.R.C., Light sources – Safety requirements (15 pages in Chinese)

**Description of content:** This document specifies the safety requirements for light sources, including general requirements, signs and instructions, electrical safety, temperature-related requirements, mechanical safety, abnormal working condition safety, moisture-proof and dust-proof requirements. This document also includes other technical requirements that have a direct bearing on the protection of personal health and the safety of life and property. This document applies to light source products. "Light source" in this document refers exclusively to "electric light source", which includes lamps, LED modules, OLED panels, etc.

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

**Proposed date of adoption:** To be determined

**Proposed date of entry into force:** 24 months after standard approval

**Final date for comments:** 60 days from notification

**Full text:** [https://members.wto.org/crnattachments/2023/TBT/CHN/23\\_8854\\_00\\_x.pdf](https://members.wto.org/crnattachments/2023/TBT/CHN/23_8854_00_x.pdf)

### China Notification CHN/1725

**Notification date:** 11 April 2023

**Agency responsible:** State Administration for Market Regulation (Standardization Administration of the P.R.C.)

**Inquiry point:** WTO/TBT National Notification and Enquiry Center of the People's Republic of China, [tbt@customs.gov.cn](mailto:tbt@customs.gov.cn)

**Products covered:** Light source control devices and their components

**Title:** National Standard of the P.R.C., Controlgear and other auxiliaries for electric lighting products— Safety Requirements (9 pages in Chinese)

**Description of content:** This document specifies the safety requirements for the marking, mechanical and electrical structure of the control devices and their components used in lighting products. This document applies to light source control devices and their components for direct current up to 1000 V and AC up to 1 000 V at 50 Hz or 60 Hz. The term "light source" in this document refers exclusively to "electric light source".

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

**Proposed date of adoption:** To be determined

**Proposed date of entry into force:** 24 months after standard approval

**Final date for comments:** 60 days from notification

**Full text:** [https://members.wto.org/crnattachments/2023/TBT/CHN/23\\_8866\\_00\\_x.pdf](https://members.wto.org/crnattachments/2023/TBT/CHN/23_8866_00_x.pdf)

### Republic of Korea Notification KOR/1137

**Notification date:** 13 April 2023

**Agency responsible:** Korean Agency for Technology and Standards (KATS)

**Inquiry point:** Electrical & Telecommunications Product Safety Division; Korean Agency for Technology and Standards; Ministry of Trade, Industry and Energy, psd0@korea.kr

**Products covered:** Electrical Appliances and Consumer Products (Repurposed Battery)

**Title:** Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium batteries to repurpose used lithium batteries (Technical Regulations for Electrical and Telecommunication Products and Components: KC 10031) (30 pages in Korean)

**Description of content:** Preparation of safety standards for safety management of repurposed batteries. The main modification is as below.

- General requirements
- Quality and performance requirements
- Functional safety review with BMS, etc.

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

**Relevant documents:** KATS Public Notification No.2023-0114 (17 April 2023)

**Proposed date of adoption:** 19 October 2023

**Proposed date of entry into force:** 19 October 2023

**Final date for comments:** 60 days from notification

**Full text:** [https://members.wto.org/crnattachments/2023/TBT/KOR/23\\_8951\\_00\\_x.pdf](https://members.wto.org/crnattachments/2023/TBT/KOR/23_8951_00_x.pdf),  
[https://members.wto.org/crnattachments/2023/TBT/KOR/23\\_8951\\_01\\_x.pdf](https://members.wto.org/crnattachments/2023/TBT/KOR/23_8951_01_x.pdf),  
[https://members.wto.org/crnattachments/2023/TBT/KOR/23\\_8951\\_02\\_x.pdf](https://members.wto.org/crnattachments/2023/TBT/KOR/23_8951_02_x.pdf)

### European Union Notification EU/966

**Notification date:** 17 April 2023

**Agency responsible:** European Commission

**Inquiry point:** EU-TBT Enquiry Point, [grow-eu-tbt@ec.europa.eu](mailto:grow-eu-tbt@ec.europa.eu), <http://ec.europa.eu/growth/tools-databases/tbt/en/>

**Products covered:** Hazardous substances and mixtures

**Title:** Proposal for a Regulation of the European Parliament and of the Council amending Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (COM(2022) 748 final) (54 pages in English)

**Description of content:** This Proposal concerns a targeted revision of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP) by clarifying certain provisions, by adding new provisions to simplify labelling, by adapting the Regulation to new market trends as online sales and digital labelling, by introducing classification rules for multi-constituent substances and by referring to new hazard classes as well as streamlining some procedures.

Amongst the new provisions, one is aiming at ensuring that all chemicals are compliant with the requirements under the CLP, including when placed on the market in the EU via online sales. The draft provision will require that companies placing chemicals on the EU market are either an EU supplier themselves or designate one. In addition, some labelling requirements have been simplified (e.g. through an extended possibility to use fold-out labels) while others were adapted to new modes of sales (bulk sales, refill sales).

**Objective and rationale:** Protection of human health or safety; Protection of the environment. Although in general the CLP works well, after 14 years of existence, it needed to be adapted to a changing economic and scientific environment. The overall objective is to improve the protection of human health and the environment. The new provisions referred to above are aimed to ensure that these objectives can be fulfilled irrespective of the means of sale (online) and that the requirements can be better enforced.

**Relevant documents:** Commission Staff Working Document Impact Assessment Report Accompanying the document Proposal for a Regulation of the European Parliament and of the Council amending Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52022SC0434&qid=1673279379748>

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

EUR-Lex - 32008R1272 - EN - EUR-Lex (europa.eu)

**Proposed date of adoption:** 1st quarter 2024

**Proposed date of entry into force:** 20 days from publication in the Official Journal of the EU (Certain provisions shall apply upon entry into force whereas others shall apply from the first day of the month following 18 months after the date of entry into force of this Regulation – most of the latter may be applied earlier on a voluntary basis)

**Final date for comments:** 90 days from notification

**Full text:** <http://ec.europa.eu/growth/tools-databases/tbt/en/>

<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=COM%3A2022%3A748%3AFIN&qid=1671458231169>

[https://members.wto.org/crnattachments/2023/TBT/EEC/23\\_9012\\_00\\_e.pdf](https://members.wto.org/crnattachments/2023/TBT/EEC/23_9012_00_e.pdf)

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## 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 22 May 2023

#### **BSR/IES LM-88-2018 (R202x), Approved Method: Optical and Electrical Measurements of AC-LED Packages and Arrays or Modules** (reaffirmation of ANSI/IES LM-88-2018)

This document describes methods of measurements for alternating-current-driven light emitting diodes (ACLEDs), including AC-LED packages and AC-LED arrays or modules that are designed to operate on an AC source such as a 120-V, 60-Hz main without the need of a driver. This document provides uniform methods for operation and measurement of AC-LEDs. It is important to note that the methods and instruments for optical measurements are not described in this document; for such information, the reader is referred to ANSI/IES LM-85-23.

Single copy price: \$25.00

Obtain an electronic copy from and send comments to Patricia McGillicuddy <[pmcgillicuddy@ies.org](mailto:pmcgillicuddy@ies.org)>

#### **BSR/TIA 607-E-202x, Generic Telecommunications Bonding and Grounding (Earthing) for Customer Premises** (revision and redesignation of ANSI/TIA 607-D-2019)

This standard specifies requirements for a generic telecommunications bonding and grounding infrastructure and its interconnection to electrical systems and telecommunications systems. This Standard may also be used as a guide for the renovation or retrofit of existing systems. New revision needed to:

- Incorporate content of addendum ANSI/TIA-607-D-1;
- Update references;
- Any other updates.

Single copy price: \$174.00

Obtain an electronic copy from and send comments to Teesha Jenkins <[standards-process@tiaonline.org](mailto:standards-process@tiaonline.org)>

### Due 29 May 2023

#### **BSR/ASSP Z359.6-202x, Specifications and Design Requirements for Active Fall Protection Systems** (revision of ANSI ASSE Z359.6-2016)

This standard is intended for engineers who are trained as qualified persons and who have expertise in the design of active fall protection systems. It specifies requirements for the design and performance of complete active fall protection systems, including travel restraint, fall arrest, positioning, rope descent, and rescue.

Single copy price: \$150.00

Obtain an electronic copy from and send comments to [LBauerschmidt@assp.org](mailto:LBauerschmidt@assp.org)

#### **BSR/CTA 490-B-202x, Test Methods of Measurement for Audio Amplifiers** (new standard)

This standard defines test conditions and test measurement procedures for determining various performance characteristics of single-channel and multichannel power amplifiers, preamplifiers, integrated amplifiers, receivers, and tuner/preamplifiers that use AC mains power. These performance characteristics include power output, total harmonic distortion (THD), and sensitivity, among others. This is a revision.

Single copy price: Free

Obtain an electronic copy from [standards@cta.tech](mailto:standards@cta.tech)

Send comments to Catrina Akers <[cakers@cta.tech](mailto:cakers@cta.tech)>

**BSR/NECA 411-202X, Standard for Installing and Maintaining Low-Voltage Uninterruptable Power Supplies**  
(revision of ANSI/NECA 411-2014)

This Standard describes installation and maintenance procedures for permanently installed, static, three-phase Uninterruptible Power Supplies (UPSs) rated 30 kVA or more and rated 600 Volts or less, and related battery systems installed indoors or outdoors for commercial and industrial applications. UPSs described herein are solidstate power systems that provide continuous regulated AC power at the output terminals, while operating from either an AC power source or from a DC battery system.

Single copy price: Member- \$30.00/Nonmember- \$60.00

Obtain an electronic copy from and send comments to [Kyle.Krueger@NECAnet.org](mailto:Kyle.Krueger@NECAnet.org)

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**CSA public review announcement**

The CSA Group has announced a proposal 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 9 June 2023**

**Z797, Code of practice for access scaffold**

The purpose of this standard is to provide criteria for the safe erection, use, and inspection of access scaffold (as covered in CSA S269.2 and engineered systems) and for the training of erectors and users of such equipment. This standard applies to the erection, use, and inspection of access scaffold, and training requirements for access scaffold that is supported on a surface; hung from multiple points, but is not capable of moving vertically or horizontally; or mounted on wheels. It addresses key hazards, including fall hazards, structural instability, platform failures, and material handling issues.

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**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/ACI CODE-323-202x, Low-Carbon Concrete** (new standard)

The scope of the code will be on the reduction of carbon dioxide in concrete. Reuse and repair of existing structures will be covered. The topics for new structures will include:

- Paths to compliance;
- Life cycle assessment (cradle-to-grave);
- Embodied life cycle assessment (cradle-to-grave; LCA/EPD) budget approach;
- Percent reduction from Buy Clean limits where applicable;
- Other possible approaches that encourage EPD development; and
- Resiliency.

Contact Shannon Banchemo <[shannon.banchemo@concrete.org](mailto:shannon.banchemo@concrete.org)>

**BSR/ICC/THIA 1215-202x, Design, Construction and Regulation of Tiny Houses for Permanent Occupancy**  
(new standard)

This standard will provide minimum requirements for the design, construction, inspection, certification and regulatory compliance of tiny houses used for permanent occupancy to assure public safety, sustainability and resilience. The standard will include: consensus definitions for tiny houses and related terminology; prescriptive and performance-based compliance methods for tiny house permanent foundations and chassis; and plan review, inspection and certification requirements for tiny houses constructed on-site and off-site. The standard will address tiny houses built on a foundation and those with wheels and a permanent chassis intended for permanent occupancy. The 2021 International Residential Code (including Appendix AQ), and ICC/MBI Standards 1200 and 1205 will serve as the initial base documents with references to other existing standards. The standard will be written in mandatory code-intended language to support use by manufacturers and adoption by jurisdictions globally. This standard will not address tiny houses used for temporary or seasonal occupancy, tiny houses



installed on temporary foundations, or tiny house community development or microgrids.

Contact Karl Aittaniemi <[kaittaniemi@iccsafe.org](mailto:kaittaniemi@iccsafe.org)>

**BSR/RVIA A119.5-202x, Park Model Recreational Vehicle Standard** (revision and redesignation of ANSI A119.5-2020)

This standard covers fire and life safety criteria and plumbing for Park Model Recreational Vehicles considered necessary to provide a reasonable level of protection from loss of life from fire and explosion. It reflects situations and the state of the art prevalent at the time the standard was issued. Unless otherwise noted, it is not intended that the provisions of this document be applied to facilities, equipment, structures, or installations which were existing or approved for construction or installation prior to the effective date of the document, except in those cases where it is determined by the Authority Having Jurisdiction that the existing situation involves a hazard to life or adjacent property.

Contact Tyler Reamer <[treamer@rvia.org](mailto:treamer@rvia.org)>

**BSR/RESNET/ICC 1550-202x, Standard for Calculating and Reporting the Embodied Carbon of Dwelling and Sleeping Units** (new standard)

The purpose of this standard is to provide a consistent methodology for the calculation and reporting of the embodied carbon of dwelling and sleeping units. The standard will define the scope for calculating embodied carbon and a methodology for conducting the calculations that uses the same modeling data and processes and reporting employed by ANSI/RESNET/ICC 301.

Richard Dixon <[rick.dixon@resnet.us](mailto:rick.dixon@resnet.us)>

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## 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/ASHRAE Addendum s to ANSI/ASHRAE Standard 135.1-2019**, Method of Test for Conformance to BACnet (addenda to ANSI/ASHRAE Standard 135.1-2019) Final Action Date: 31 March 2023

**ANSI/ASME HST-1-2023**, Performance Standard for Electric Chain Hoists (revision of ANSI/ASME HST-1-2017) Final Action Date: 6 April 2023

**ANSI/AVIXA D401.01-2023**, Documentation Requirements for Audiovisual Systems (new standard) Final Action Date: 27 March 2023

**INCITS/ISO/IEC 38503:2022 [2023]**, Information technology - Governance of IT - Assessment of the governance of IT (identical national adoption of ISO/IEC 38503:2022) Final Action Date: 28 March 2023

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## Draft IEC & ISO documents

This section lists proposed documents listed in ANSI's *Standards Action* 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](mailto: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](mailto:tzertuche@ansi.org)). ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department, [sales@ansi.org](mailto:sales@ansi.org).

**CIS/A/1391/FDIS, CISPR 16-2-3/AMD2 ED4: Amendment 2: Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements**, 12 May 2023

**65/1008/DTR, IEC TR 63283-5 ED1:** Industrial-process measurement, control and automation - Smart manufacturing Part 5: Market and innovation trends analysis, 2 June 2023

**O/IEC DIS 39075,** Information technology - Database languages – GQL, 17 June 2023, \$281.00

**ISO/DIS 10075-2,** Ergonomic principles related to mental workload - Part 2: Design principles, 18 June 2023, \$88.00

**111/699/CD, IEC 63395 ED1:** Sustainable management of waste electrical and electronic equipment (e-waste), 23 June 2023

**JTC1-SC41/334/CDV, ISO/IEC 20924 ED3:** Internet of Things (IoT) and Digital Twin - Vocabulary, 23 June 2023

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## 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 20671-2:2023,** Brand evaluation - Part 2: Implementation and reporting, \$157.00

**ISO/TR 9241-100:2023,** Ergonomics of human-system interaction - Part 100: Overview of ISO 9241 software ergonomic standards, \$157.00

**ISO/TR 21636-2:2023,** Language coding - A framework for language varieties - Part 2: Description of the framework, \$116.00

**ISO/IEC 4005-1:2023,** Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 1: Communication model and requirements, \$157.00

**ISO/IEC 4005-2:2023,** Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 2: Physical and data link protocols for shared communication, \$237.00

**ISO/IEC 4005-3:2023,** Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 3: Physical and data link protocols for control communication, \$237.00

**ISO/IEC 4005-4:2023,** Telecommunications and information exchange between systems - Unmanned aircraft area network (UAAN) - Part 4: Physical and data link protocols for video communication, \$237.00

**IEC 61158-5-2 Ed. 5.0 en:2023,** Industrial communication networks - Fieldbus specifications - Part 5-2: Application layer service definition - Type 2 elements, \$512.00

**IEC 61158-5-4 Ed. 4.0 en:2023,** Industrial communication networks - Fieldbus specifications - Part 5-4: Application layer service definition - Type 4 elements, \$417.00

**IEC 61158-6-2 Ed. 5.0 en:2023,** Industrial communication networks - Fieldbus specifications - Part 6-2: Application layer protocol specification - Type 2 elements, \$512.00

**IEC 61158-6-4 Ed. 4.0 en:2023,** Industrial communication networks - Fieldbus specifications - Part 6-4: Application layer protocol specification - Type 4 elements, \$329.00

**IEC 61784-1-0 Ed. 1.0 b:2023,** Industrial networks - Profiles – Part 1-0: Fieldbus profiles - General concepts and terminology, \$95.00

**IEC 61784-1-9 Ed. 1.0 b:2023,** Industrial networks - Profiles – Part 1-9: Fieldbus profiles - Communication Profile Family 9, \$95.00

**IEC 61158-5-10 Ed. 5.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 5-10: Application layer service definition - Type 10 elements, \$512.00

**IEC 61158-6-10 Ed. 5.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 6-10: Application layer protocol specification - Type 10 elements, \$512.00

**IEC 61158-6-23 Ed. 3.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 6-23: Application layer protocol specification - Type 23 elements, \$512.00

**IEC 61158-6-24 Ed. 2.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 6-24: Application layer protocol specification - Type 24 elements, \$481.00

**IEC 61158-6-28 Ed. 1.0 b:2023**, Industrial communication networks - Fieldbus specifications - Part 6-28: Application layer protocol specification - Type 28 elements, \$190.00

**IEC 61784-1-16 Ed. 1.0 b:2023**, Industrial networks - Profiles -Part 1-16: Fieldbus profiles - Communication Profile Family 16, \$95.00

**IEC 61784-1-19 Ed. 1.0 b:2023**, Industrial networks - Profiles -Part 1-19: Fieldbus profiles - Communication Profile Family 19, \$417.00

**IEC 61158-1 Ed. 3.0 b:2023**, Industrial communication networks -Fieldbus specifications - Part 1: Overview and guidance for the IEC 61158 and IEC 61784 series, \$417.00

**IEC 61158-3-4 Ed. 4.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 3-4: Data-link layer service definition - Type 4 elements, \$234.00

**IEC 61158-3-24 Ed. 2.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 3-24: Data-link layer service definition - Type 24 elements, \$278.00

**IEC 61158-5-26 Ed. 2.0 en:2023**, Industrial communication networks - Fieldbus specifications - Part 5-26: Application layer service definition - Type 26 elements, \$455.00

**IEC 61158-6-27 Ed. 1.0 b:2023**, Industrial communication networks - Fieldbus Specifications Part 6-27: Application layer protocol specification - Type 27 elements, \$512.00

**IEC 62386-150 Ed. 1.0 b:2023**, Digital addressable lighting interface - Part 150: Particular requirements - Auxiliary power supply, \$51.00

**ISO 23704-3:2023**, General requirements for cyber-physically controlled smart machine tool systems (CPSMT) - Part 3: Reference architecture of CPSMT for additive manufacturing, \$237.00

**ISO/TS 24064:2023**, Document management – Portable document format - RichMedia annotations conforming to the ISO 10303-242 (STEP AP 242) specification, \$77.00

**ISO/IEC 29168-1:2023**, Information technology - Open systems interconnection - Part 1: Object identifier resolution system, \$157.00

**ISO/IEC 30161-2:2023**, Internet of Things (IoT) - Data exchange platform for IoT services - Part 2: Transport interoperability between nodal points, \$157.00



## TSP meeting schedule

The next set of TSP working group meetings will be held at the Marriott DFW hotel in bucolic Westlake, Texas near the Dallas/Ft. Worth Airport during the week of July 19. The schedule is not set yet, but when it is, it will be posted at <https://www.esta.org/ESTA/meetings.php>.

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## 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.

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

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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

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#### 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

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