Technical Standards Program

ESTA Standards Watch

September 2023 Volume 27, Number 17

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A dozen ESTA standards in public review

Twelve standards are in public review at http://estalink.us/pr until 26 September 2023. The last day to comment is the 25th.

BSR E1.1, Wire Rope Ladders, describes the construction and use of wire rope ladders in the entertainment industry. Wire rope ladders are distinguished from other ladders by having flexible rails. They are used in applications where ladders with rigid rails are impractical to use, or where a rigid ladder would pose a greater danger to the user or other workers in the area. ANSI E1.1-2018 is being revised to update references and technology.

BSR E1.23, Entertainment Technology -- Design, Execution, and Maintenance of Atmospheric Effects, offers advice on the planning, execution, and maintenance of theatrical effects using glycol, glycerin, or white mineral oil fogs or mists in theatres, arenas, motion picture studios, and other places of public assembly or motion picture production. The guidance is offered to help effects designers and technicians create effects that can be executed repeatedly and reliably, and so that they can avoid excessive exposure to the fog materials and other foreseeable hazards. This revision adds a requirement for a short summary of the measures being taken to assure reasonable safety, and to add advice about ventilation and carbon dioxide fog-blast effects.

ANSI E1.31 - 2018, Lightweight streaming protocol for transport of DMX512 using ACN, is being considered for reaffirmation because the Control Protocols Working Group members feel no revisions are necessary, but public review will confirm or contradict that. ANSI E1.31 - 2018 describes a mechanism to transfer DMX512A packets over a TCP/IP network using a subset of the ACN protocol suite. It covers data format, data protocol, data addressing, and network management It also outlines a synchronization method to help ensure that multiple sinks can process this data concurrently when supervised by the same controller. It supports IPv6 as well as IPv4.

BSR E1.42, Safety Standard for Entertainment Lifts, is a revision of ANSI E1.42 - 2018, Entertainment Technology - Design, Installation, and Use of Orchestra Pit Lifts. Stage and orchestra lifts are specifically excluded from ASME A17.1 Safety Code for Elevators and Escalators. The previous version of E1.42's scope was limited to orchestra pit lifts. This revision expands its scope to include stage lifts and other similar lifts, as well as lifts used temporarily for a single production. These lifts have widely varying requirements and operating conditions. Procedures for risk assessment and risk reduction have been added to accommodate these conditions. As a result, many sections have been reorganized and renumbered. To reflect the increased scope and more closely follow ASME A17.1, the title has also been changed to Safety Standard for Entertainment Lifts.

BSR E1.43, Performer Flying Systems, establishes a minimum level of performance parameters for the design, manufacture, use, and maintenance of performer flying systems used in the production of entertainment events. The purpose of this guidance is to achieve the adequate strength, reliability, and safety of these systems to ensure safety of the performer, other production personnel, and audiences under circumstances associated with performer flying. ANSI E1.43-2016 is being revised to reflect changes in technology and referenced standards.

ANSI E1.48 - 2014 (R2019), A Recommended Luminous Efficiency Function for Stage and Studio Luminaire Photometry, is being considered for withdrawal because it is rarely used.

BSR E1.50-1, Entertainment Technology - Requirements for the Structural Support of Temporary LED, Video & Display Systems, covers the support of temporary installations of large format modular display systems, LED, video and other self-illuminating display structures not otherwise addressed by existing standards. The scope of this standard includes planning and site preparedness, assembly and erection, suspension and safety of components, special access requirements, use, and dismantling of these systems. ANSI E1.50-1 - 2018 is being revised to reflect current technology and practices in the industry.

BSR E1.64, Stage Machinery Control Systems, establishes minimum requirements for the design, manufacture, installation, commissioning, inspection, operation, and maintenance of machinery control equipment in the entertainment Industry that is used in production, touring, and temporary or permanent installation.

BSR E1.71, Powered Curtain Machines, establishes requirements for the design, manufacture, installation, inspection, and maintenance of machines intended solely for the movement of curtains for performance, presentation, and theatrical production. These requirements would apply to machines that provide movement of fabric in any direction, irrespective of their mounting location. This standard does not apply to the structure to which the machine is attached, or to machines such as those used for fire safety curtains or for performer flying, which are covered by other existing standards. The provisions of this standard are not intended to prohibit any design, materials, or methods of fabrication, provided that any such alternative is at least the equivalent of that described in this standard in quality, strength, and effectiveness.

BSR E1.76, Tension Wire Grids, covers the design and application criteria including: the loading, self-weight considerations, transitions between levels, and suspension from structure. The standard will provide deflection criteria for both structural elements and the woven mesh. The standard will offer guidance on the size of openings, including trap doors and bays similar to loft-wells. The standard will provide requirements for hand rails and consideration for other accessories such as stage lighting battens.

BSR ES1.2, Event Planning, Management, & 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.

BSR ES1.5, Event Safety - Medical Preparedness, helps identify the steps necessary to create a reasonable level of protection from medical hazards that can be created by, exacerbated by, or cause effective treatment delay as a result of, the unique challenges & circumstances presented by the special event environment. Its scope includes the assessment of specific medical hazards, and also addresses the potential impact to local medical services, which may be temporarily impacted by the specific needs of the special event.

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.

People's Republic of China Notificaton CHN/1153

Notification date: 31 August 2023
Agency responsible: Ministry of Industry and Information Technology of the People's Republic of China
National enquiry point: tbt@customs.gov.cn
Products covered: Ultra-Wideband (UWB) Equipment
Title: Regulations on Radio Management of Ultra-Wideband (UWB) Equipment (6 pages in Chinese)
Description of content: This document specifies the radio management measures and radio frequency technical indicators for Ultra-Wideband (UWB) Equipment produced or imported for domestic sales and uses in China.
Objective and rationale: Quality requirements
Relevant documents: "Radio Regulations of the People's Republic of China," "Frequency Allocation Regulations of the People's Republic of China," Regulations on Radio Transmission Equipment"
Proposed date of adoption: 2023.11
Proposed date of entry into force: 2024.11
Final date for comments: 60 days from notification, 30 October 2023
Full text: https://members.wto.org/crnattachments/2023/TBT/CHN/23_12098_00_x.pdf

United Kingdom Notification GBR/68

Notification date: 5 September 2023
Agency responsible: Department for Environment, Food and Rural Affairs (DEFRA)
National enquiry point: TBTEnquiriesUK@businessandtrade.gov.uk
Products covered: Wine made of fresh grapes, including fortified wines (HS: 2204)
Title: The Wine (Amendment) (England) Regulations 2024, 10 pages in English; The Wine (Miscellaneous Amendment) (Scotland) Regulations 2024, 10 pages in English; The Wine (Amendment) (Wales) Regulations 2024, 10 pages in Welsh and English.
Description of content: These measures introduce into Great Britain (GB) law a prohibition on the marketing of ice wine unless the definitions, detailed in the Regulations, are met. The ice wine provisions as follows -
No person may market a product using a term mentioned below unless the product is a wine made exclusively from grapes naturally frozen on the vine. The terms referred to above are:
(a) 'ice wine';
(b) 'icewine';
(c) 'ice-wine';
(d) a term similar to a term mentioned in point (a), (b) or (c);
(e) a term having the same meaning as a term mentioned in point (a), (b) or (c) in a language other than English;
(f) a term having a similar meaning to a term mentioned in point (a), (b) or (c) in a language other than English.
This legislation will also amend the law so that the oenological practices that may be used to make wine will align with relevant international standards (the International Code of Oenological Practices and the International Oenological Codex of the International Organisation of Vine and Wine) taking into account changes in wine-making practices endorsed by the International Organisation of Vine and Wine (OIV).
The proposed reforms will not apply to Northern Ireland.
Objective and rationale: The law that applies in Great Britain does not contain an explicit constraint on the use of the term 'ice wine'. The measures being proposed would introduce this constraint, prohibiting the use of that and similar expressions should the specified criteria not be met. These measures are being introduced to ensure products placed on the market in GB as ice wine meet the production requirements for ice wines and to prevent consumers from being misled.
It will bring the oenological practices that may be used to produce wine in Great Britain into line with international standards published by the OIV.
Relevant documents:
Smarter Regulation: Wine Reforms Consultation - Defra - Citizen Space
Wine legislation: proposed amendments - Scottish Government consultations - Citizen Space

The Wine (Amendment) (England) Regulations 2024
Proposed date of adoption: January 2024
Proposed date of entry into force: July 2024
Final date for comments: 60 days from notification, 4 November 2023
Full text: https://members.wto.org/crnattachments/2023/TBT/GBR/23_12176_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.

Due 16 October 2023

BSR/AHRI Standard 1210 (SI/I-P)-202x, Performance Rating of Variable Frequency Drives (new standard)
The purpose of this standard is to establish for variable frequency drives (VFDs): definitions; classifications; general test requirements; rating requirements; minimum data requirements for published ratings; marking and nameplate data; and conformance conditions. This standard applies to encased direct expansion vapor compression type Mechanical Transport Refrigeration Units with the following components: Compressor, Aircooled condenser, Refrigerant flow control(s), Forced-Circulation Air-Cooler, Base or frame, Prime Mover as described in the unit manufacturer's literature, Power Train (coupling, power take-off, transmission, V-belt drive, etc.) connecting the unit to the Prime Mover.
Single copy price: Free!
Obtain an electronic copy from: https://connect.ahrinet.org/standards-public-review/stdsunderpublicreview
Send comments to: AHRI_Standards@ahrinet.org

BSR/CPLSO 20-202x, Effects of Charge on Human Beings and Livestock (new standard)
This standard describes the effects on the human body when a charge passes through it. This standard describes the effects of charge passing through the human body in the form of single and multiple successive discharges. A means of examining random complex irregular charges is given. The charge durations considered are from 1 µs up to and including 100 ms such as may be found in disconnecting auto charging cables. This standard does not consider a charge induced within the body caused by its exposure to an external electromagnetic field. This basic safety publication is primarily intended for use by technical committees in the preparation of standards. It is not intended for use by manufacturers or certification bodies.
Single copy price: $350.00
Obtain an electronic copy from: pratt.hugh@cplso.org
Send comments to: Same

BSR/CTA 2089-A-202x, Definitions and Characteristics of Artificial Intelligence (revision of ANSI/CTA 2089-2020)
This standard defines terms related to artificial intelligence and associated technologies.
Single copy price: Free
Obtain an electronic copy from: standards@cta.tech
Send comments to: Same

Due 7 November 2023

SR/ANS 8.26-202x, Criticality Safety Engineer Training and Qualification Program (revision of ANSI/ANS 8.26-2007 (R2022))
This standard presents the fundamental elements of a training and qualification program for individuals with responsibilities for performing the various technical aspects of criticality safety engineering. The standard presents a flexible array of competencies for use by management to develop tailored training and qualification programs applicable to site-specific job functions, facilities, and operations.
Single copy price: $44.00
Obtain an electronic copy from: orders@ans.org
Send comments to: Patricia Schroeder <pschroeder@ans.org>

BSR/UL 2901A-202x, Standard for Corrosion Control Additives for Use in Fire Sprinkler Systems (new standard)
This standard covers requirements for corrosion control additives for fire sprinkler systems, such as corrosion inhibitors. These solutions are intended for use in wet pipe sprinkler systems for installation in accordance with the manufacturer's design and installation instructions and the following standards: a) Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes, NFPA 13D; b) Standard for the Installation of Sprinkler Systems in Low-Rise Residential Occupancies, NFPA 13R; and c) Standard for Installation of Automatic Sprinkler Systems, NFPA 13. These solutions are intended for use in wet pipe sprinkler systems and intended to be inspected, tested, and maintained in accordance with the Standard for Inspection, Testing and Maintenance of Water Based Fire Protection Systems, NFPA 25. This standard does not contain requirements to evaluate the risk associated with products of combustion. The requirements of this standard evaluate the safety and compatibility of the corrosion control additives when used in a fire sprinkler system but do not evaluate the level of corrosion protection provided by an individual corrosion control additive.
Single copy price: Free
Access and comment at https://csds.ul.com/ProposalAvailable

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/NFPA 3-202x, Standard for Commissioning of Fire Protection and Life Safety Systems (revision of ANSI/NFPA 3 -2024)
This standard shall provide the required procedures, methods, and documentation for the commissioning of active and passive fire protection and life safety systems and their interconnections with other building systems.
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 17-202x, Standard for Dry Chemical Extinguishing Systems (revision of ANSI/NFPA 17-2024)
This standard includes minimum requirements for dry chemical fire-extinguishing systems that discharge dry chemical from fixed nozzles or hand hose lines by means of expellant gas.
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 17A-202x, Standard for Wet Chemical Extinguishing Systems (revision of ANSI/NFPA 17A-2024
The provisions of this standard apply to the design, installation, operation, testing, and maintenance of pre-engineered wet chemical fire-extinguishing systems that discharge wet chemical from fixed nozzles and piping by means of expellant gas. It contains only the essential requirements and recommendations needed to make the standard workable in the hands of those skilled in this field.
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 30-202x, Flammable and Combustible Liquids Code (revision of ANSI/NFPA 30-2024)
This code shall apply to the storage, handling, and use of ignitible (flammable or combustible) liquids, including waste liquids, as herein defined and classified.
This code shall not apply to the following:
(1)* Any liquid that has a melting point of 100°F (37.8°C) or greater
(2)* Any liquid that does not meet the criteria for fluidity given in the definition of liquid in Chapter 3 and in the provisions of Chapter 4
(3) Any cryogenic fluid or liquefied gas, as defined in Chapter 3
(4)* Any liquid that does not have a flash point, but which is capable of burning under certain conditions
(5)* Any aerosol product
(6) Any mist, spray, or foam
(7)* Transportation of ignitible (flammable or combustible) liquids as governed by the US Department of Transportation
(8)* Use of alcohol-based-hand-rub (ABHR) dispensers that comply with the applicable provisions of NFPA 101 or the adopted fire code for ABHR dispensers

(9) Liquids in the fuel tanks of motor vehicles, aircraft, boats, or portable or stationary engines
(10) Liquids that… [sic]
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 51B-202x, Standard for Fire Prevention During Welding, Cutting, and Other Hot Work (revision of ANSI/NFPA 51B-2024)
This standard shall cover provisions to prevent injury, loss of life, and loss of property from fire or explosion as a result of hot work.
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 70E-202x, Standard for Electrical Safety in the Workplace (revision of ANSI/NFPA 70E-2024)
This standard addresses electrical safety-related work practices, safety-related maintenance requirements, and other administrative controls for employee workplaces that are necessary for the practical safeguarding of employees relative to the hazards associated with electrical energy during activities such as the installation, removal, inspection, operation, maintenance, and demolition of electric conductors, electric equipment, signaling and communications conductors and equipment, and raceways. This standard also includes safe work practices for employees performing other work activities that can expose them to electrical hazards as well as safe work practices for the following:
(1) Installation of conductors and equipment that connect to the supply of electricity
(2) Installations used by the electric utility, such as office buildings, warehouses, garages, machine shops, and recreational buildings that are not an integral part of a generating plant, substation, or control center…. [sic]
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 78-202x, Guide on Electrical Inspections (revision of ANSI/NFPA 78-2024)
This document covers the minimum criteria for aiding in organizing and conducting electrical inspections, including administration, plans review, and field inspection, for new electrical installations, modifications, and maintenance to existing electrical installations in accordance with AHJ requirements.
Contact Dawn Michele Bellis <dbellis@nfpa.org>

BSR/NFPA 220-202x, Standard on Types of Building Construction (revision of ANSI/NFPA 220-2024)
This standard defines types of building construction based on the combustibility and the fire resistance rating of a building's structural elements. Fire walls, nonbearing exterior walls, nonbearing interior partitions, fire barrier walls, shaft enclosures, and openings in walls, partitions, floors, and roofs are not related to the types of building construction and are regulated by other standards and codes, where appropriate.
Contact Dawn Michele Bellis <dbellis@nfpa.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 S12.3-2023, Declaration of Product Noise Emission Values (revision of ANSI/ASA S12.3-1985 (R2020)), 1 September 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum ao to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 31 August 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum ba to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 30 August 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum be to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 31 August 2023

ANSI/ASHRAE/ICC/IES/USGBC Addendum t to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020, Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/ICC/IES/USGBC Standard 189.1-2020), 30 August 2023

ANSI/ASHRAE/IES Addendum cw to ANSI/ASHRAE/IES Standard 90.1-2022, Energy Standard for Sites and Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2022), 30 August 2023

ANSI/ASHRAE/IES Addendum e to ANSI/ASHRAE/IES Standard 100-2018, Energy Efficiency in Existing Buildings (addenda to ANSI/ASHRAE/IES Standard 100-2018), 31 August 2023

ANSI E1.8-2018 (R2023), Entertainment Technology-Loudspeaker Enclosures Intended for Overhead Suspension Classification, Manufacture and Structural Testing (reaffirmation of ANSI E1.8-2018), 5 September 2023

ANSI E1.46-2018 (R2023), Standard for the Prevention of Falls from Theatrical Stages and Raised Performance Platforms (reaffirmation of ANSI E1.46-2018), 5 September 2023

INCITS/ISO/IEC 22989:2022 [2023], Information technology - Artificial intelligence - Artificial intelligence concepts and terminology (identical national adoption of ISO/IEC 22989:2022), 5 September 2023

INCITS/ISO/IEC 23894:2023 [2023], Information technology - Artificial intelligence - Guidance on risk management (identical national adoption of ISO/IEC 23894:2023), 5 September 2023

INCITS/ISO/IEC 24668:2022 [2023], Information technology - Artificial intelligence - Process management framework for big data analytics (identical national adoption of ISO/IEC 24668:2022), 5 September 2023

INCITS/ISO/IEC 29500-1:2016 [2018], Information technology -- Document description and processing languages -Office Open XML File Formats -- Part 1: Fundamentals and Markup Language Reference (withdrawal of INCITS/ISO/IEC 29500-1:2016 [2018]), 31 August 2023

INCITS/ISO/IEC 29500-2:2012 [R2018], Information technology - Document description and processing languages Office Open XML File Formats - Part 2: Open Packaging Conventions (withdrawal of INCITS/ISO/IEC 29500-2:2012 [R2018]), 31 August 2023

INCITS/ISO/IEC 29500-3:2015 [2018], Information technology -- Document description and processing languages -Office Open XML File Formats -- Part 3: Markup Compatibility and Extensibility (withdrawal of INCITS/ISO/IEC 29500 -3:2015 [2018]), 31 August 2023

INCITS/ISO/IEC 29500-4:2016 [2018], Information technology -- Document description and processing languages -Office Open XML File Formats -- Part 4: Transitional Migration Features (withdrawal of INCITS/ISO/IEC 29500-4-2016 [2018]), 31 August 2023

NCITS/ISO/IEC 26300:2006/COR 1:2010 [R2018], Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 1 (withdrawal of INCITS/ISO/IEC 26300:2006/COR 1:2010 [R2018]), 31 August 2023

INCITS/ISO/IEC 26300:2006/AM 1:2012 [R2018], Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Amendment 1: Open Document Format for Office Applications (OpenDocument) v1.1 (withdrawal of INCITS/ISO/IEC 26300:2006/AM 1:2012 [R2018]), 31 August 2023

INCITS/ISO/IEC 26300:2006/COR 2:2011 [R2018], Information technology - Open Document Format for Office Applications (OpenDocument) v1.0 - Technical Corrigendum 2 (withdrawal of INCITS/ISO/IEC 26300:2006/COR 2:2011 [R2018]), 31 August 2023

Draft IEC & ISO documents

This section lists documents reported 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 ANSI's 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). ISO and IEC Drafts can be made available by contacting ANSI's Customer Service department, sales@ansi.org.

65C/1268(F)/FDIS, IEC 61139-3 ED1: Industrial networks Single-drop digital communication interface - Part 3: Wireless extensions, 15 September 2023

35/1526/CD, IEC 60086-4 ED6: Primary batteries - Part 4: Safety of lithium batteries, 27 October 2023

100/4037/DTR, IEC TR 63478-1 ED1: User's Quality of Experience (QoE) on Multimedia Conferencing Services - Part 1: General, 27 October 2023

ISO/DIS 59014, Environmental management and circular economy - Sustainability and traceability of secondary materials recovery - Principles and requirements,11/9/2023, $93.00

ISO/DIS 24505-2, Ergonomics - Accessible design - Method for creating colour combinations - Part 2: For people with colour deficiency and low vision, 11 November 2023, $67.00

ISO/DIS 23725, Autonomous System and Fleet Management System Interoperability. 12 November 2023, $155.00

ISO/DIS 37153, Smart community infrastructures – Maturity model for assessment and improvement, 12 November 2023, $102.00

ISO/DIS 37176, Smart community infrastructure Responsiveness assessment and maturity model, 12 November 2023, $71.00

ISO/DIS 50002-1, Energy audits - Requirements with guidance for use - Part 1: General requirements, 11 November 2023, $98.00

ISO/DIS 50002-2, Energy audits - Requirements with guidance for use - Part 2: Buildings, 12 November 2023, $67.00

ISO/DIS 50002-3, Energy audits - Requirements with guidance for use - Part 3: Processes, 12 November 2023, $71.00

ISO/DIS 9241-112, Ergonomics of human-system interaction Part 112: Principles for the presentation of information, 16 November 2023,$82.00

SO/CIE DIS 8995-1, Light and lighting - Lighting of work places Part 1: Indoor, 18 November 2023, $165.00

ISO/DIS 20109, Simultaneous interpreting - Equipment Requirements, 18 November 2023, $88.00

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 23853:2023, Cranes - Training of slingers and signallers, $157.00

ISO 11243:2023, Cycles - Luggage carriers for bicycles, Requirements and test methods, $183.00

ISO 6742-1:2023, Cycles - Lighting and retro-reflective devices Part 1: Lighting and light signalling devices, $157.00

ISO 6742-2:2023, Cycles - Lighting and retro-reflective devices Part 2: Retro-reflective devices, $157.00

ISO 6742-3:2023, Cycles - Lighting and retro-reflective devices Part 3: Installation and use of lighting and retro-reflective devices, $77.00

ISO 6742-4:2023, Cycles - Lighting and retro-reflective devices Part 4: Lighting systems powered by the cycles movement, $116.00

ISO 6742-5:2023, Cycles - Lighting and retro-reflective devices Part 5: Lighting systems not powered by the cycles movement, $51.00

ISO/IEC 20619:2023, Information technology - C# specification suite, $51.00

ISO 9241-221:2023, Ergonomics of human-system interaction Part 221: Human-centred design process assessment model, $263.00

ISO/TS 7127:2023, Light and lighting - Building information modelling properties for lighting - Lighting systems, $237.00

ISO/TS 24665:2023, Playground and recreational areas, Framework for the competence of playground inspectors and playground maintenance technicians, $157.00

IEC/TS 61496-5 Ed. 1.0 en:2023, Safety of machinery - Electrosensitive protective equipment - Part 5: Particular requirements for radar-based protective devices, $329.00

IEC/TS 62998-3 Ed. 1.0 en:2023, Safety of machinery - Safety-related sensors used for the protection of persons – Part 3: Sensor technologies and algorithms, $367.00

ESTA Standards Watch

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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.

TSP meetings and Plugfest schedule

The next set of TSP working group meetings and Plugfest will be held at the Marriott DFW hotel in Westlake, Texas near the Dallas/Ft. Worth Airport. All the times shown are Central Time. There is a “Reserve a Hotel Room” link at https://esta.org/ESTA/meetings.php. Plugfest information is at https://tsp.esta.org/tsp/news/plugfest.html.

CP E1.11 & E1.68, DMX512 TG	14:00 - 18:00:	Friday 6 October 2023
CP E1.20, RDM TG	19:00 - 23:00	Wednesday 4 October 2023
CP E1.37-4, Firmware Upload TG	09:00 - 13:00	Sunday 8 October 2023
CP E1.37-8, IPv4/v6 RDM Config TG	14:00 - 17:00	Saturday 7 October 2023
CP E1.63, NAEP TG	17:00 - 18:00	Saturday 7 October 2023
CP E1.73, UDR TG	09:00 - 13:00	Friday 6 October 2023
CP E1.77, sACN Security TG	14:00 - 18:00	Thursday 5 October 2023
CP NextGen Overall/Transport Study Group TG	09:00 - 10:00	Thursday 5 October 2023
CP NextGen Transport TG	10am - 13:00:	Thursday 5 October 2023
Control Protocols (CP) WG	09:00 - 13:00	Saturday 7 October 2023
Electrical Power WG	19:00 - 22:00	Friday 6 October 2023
Event Safety WG	14:00 - 18:00	Saturday 7 October 2023
Floors WG	13:00 - 16:00	Friday 6 October 2023
Fog & Smoke WG	noon - 15:00	Thursday 5 October 2023
Followspot WG	10am - 11:00	Thursday 5 October 2023
Photometrics WG	10:00 - noon	Friday 6 October 2023
Plugfest	09:00 - 23:00	Thursday 5 October 2023
	09:00 - 23:00	Friday 6 October 2023
	09:00 - 23:00	Saturday 7 October 2023
	09:00 - 23:00	Sunday 8 October 2023
	17:00 - 23:00	Wednesday 4 October 2023
Rigging WG	19:00 - 23:00	Saturday 7 October 2023
Stage Machinery WG	16:00 - 18:00	Friday 6 October 2023
Technical Standards Council	09:00 - 13:00	Sunday 8 October 2023
Weapons Safety WG	16:00 - 20:00	Thursday 5 October 2023

TG = Task Group meeting
WG = Working Group meeting

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