



ESTA Standards Watch

Late November 2021 Volume 25, Number 22

Table of Contents

ESTA standards in public review.....	1
Due 29 November 2021.....	1
Due 13 December 2021.....	1
Comments on the PIP (3:1) deadline due 27 December.....	2
More GDTF.....	2
Manufacturer ID squatting.....	2
WTO Technical Barrier to Trade notifications.....	3
United Kingdom Notification GBR/42/GBR (GBR/42).....	3
Switzerland Notification CHE/264.....	4
Switzerland Notification CHE/265.....	4
Switzerland Notification CHE/263.....	5
Canada Notification CAN/655.....	6
ANSI public review announcements.....	7
Due 27 December 2021.....	7
Due 3 January 2022.....	7
Due 18 January 2022.....	8
New ANS projects.....	8
Final actions on American National Standards.....	12
Draft IEC & ISO documents.....	13
Recently published IEC & ISO documents.....	14
TSP meeting schedule.....	15
TSP donors who have made long-term, multi-year pledges.....	16
Investors in Innovation, supporters of ESTA's Technical Standards Program.....	17

ESTA standards in public review

A trio of documents are available for public review at https://tsp.esta.org/tsp/documents/public_review_docs.php. Comments are due before the end of day on the dates noted below.

Due 29 November 2021

BSR E1.69, Reporting the Dimming Performance of Entertainment Luminaires Using LED Sources, describes a way of showing the end-user or equipment specifier the dimming performance of LED luminaires, when the luminaire output level is set by a control signal slowly varying from 100% to 50% and then from 50% to black-out.

Due 13 December 2021

BSR E1.22, Fire Safety Curtain Systems, covers the design, materials, fabrication, installation, operation, testing, and maintenance of fire safety curtain systems used for proscenium opening protection in theatres.

BSR E1.41, Recommendations for the Measurement of Entertainment Luminaires Utilizing Solid State Light Sources, is intended to be used for the presentation of photometric data for luminaires employing solid state light sources used in the entertainment and performance industries. This standard defines photometric data that may be presented on documents purporting to accurately describe the photometric performance of these luminaires when producing both white and colored light.

Comments on the PIP (3:1) deadline due 27 December

NAMM has notified its members and ESTA that the U.S. Environmental Protection Agency recently issued a proposal to further extend the deadline for compliance with prohibitions imposed on the use of the chemical phenol isopropylated phosphate (3:1) known as PIP (3:1) to 2024. PIP (3:1) is one of several persistent, bioaccumulative, and toxic (PBT) chemicals EPA has addressed under the Toxic Substances Control Act. Restrictions on the use of PIP (3:1) affect NAMM and ESTA members because it is widely used in plastics, including those found in electronic devices. The EPA is seeking industry comments on the notice of proposed rule-making, Reg. 2070-AK95, with comments due by 27 December 2021.

The NAMM notice is available at <https://www.namm.org/issues-and-advocacy/regulatory-compliance/PIP>. That page has a link to the [Federal Register proposed rule-making notice](#), which gives details of the reasons for the restrictions and extension of the deadline, and instructions on how to comment.

In September 2021, the EPA already gave manufacturers a temporary reprieve after stakeholders, including NAMM, raised concerns about the compliance deadline and the disruptions it would cause to supply chains for electronic products and other critical consumer goods. The newly released proposal would extend the compliance date until 31 October 2024, and is intended to give companies time to find alternative solutions.

More GDTF

Vectorworks, MA Lighting, and Robe Lighting have announced a forthcoming DIN SPEC 15800:2021. Entertainment Technology - General Device Type Format (GDTF), a revision of the current 2020-07 edition. The updated DIN SPEC 15800:2021 will be published by Beuth Verlag soon. More information about GDTF is available at <https://gdtf-share.com/>.

GDTF 1.2 has several new features:

- SVG and .gITF Support for 2D and 3D representation.
- Support for non-Linear Behavior and SubPhysicalAttributes.
- Support for Non-DMX Based Control Protocols, such as OSC.
- Support for more object types, such as trusses, lasers, hoists, and power distribution equipment with new geometry types.

DIN SPECS are free to download. The current GDTF edition, DIN SPEC 15800:2020 -07, can be downloaded at <https://www.beuth.de/en/technical-rule/din-spec-15800/324748671>.

Information about DIN Standards and DIN SPECS is available at <https://www.din.de/en/about-standards>.

Manufacturer ID squatting

An email was recently received complaining about a company's products shipping with a Manufacturer ID listed as assigned to another company on the TSP website's Manufacturer ID page, https://tsp.esta.org/tsp/working_groups/CP/mfctrlIDs.php. ESTA does not have the resources to police the IDs embedded in lighting products produced world-wide, but we can point out the problem created by duplicating an ID and the dodgy product management it suggests.

The Manufacturer ID is a two-octet identifier that was added to ANSI E1.11, *Entertainment Technology -- USITT DMX512-A, Asynchronous Serial Digital Data Transmission Standard for Controlling Lighting Equipment and Accessories*. Its most useful function there is to allow a manufacturer to use it with Alternate START Code 91h to

create a proprietary message in lieu of using a registered proprietary Alternate START Code. The range of Alternate START Codes in DMX512-A is extremely limited, and many were adopted in the early years of DMX512 when a one-octet range seemed limitless. There was no published list of ASCs in the early 1990s, so some companies picked the same ASCs as other companies. This can result in some DMX512 features not working, but basic control is not compromised. The list of registered ASCs is available at https://tsp.esta.org/tsp/working_groups/CP/DMXAlternateCodes.php.

Duplicated Manufacturer IDs create more serious problems on ANSI E1.20, RDM, networks. In RDM, the Manufacturer ID is two octets out of six octets that make the Unique ID of each RDM-enabled device. The UID must be unique: ESTA assigns the Manufacturer ID; it is up to the manufacturer to assign the other four octets and make sure that the same number isn't given to two different devices. If two devices are on the same network with the same UID, the UID discovery process in RDM will fail. At best, the controller can't control the devices with the same ID, but, more seriously, the controller might not be able to control anything on the network. ANSI E1.20 does not specify how to handle conflicts. What a controller does is up to the controller's manufacturer; the response might be "Give up." If the Manufacturer IDs are unique, it's up to each manufacturer to make sure the other four octets are unique, but if the manufacturer fails to do that, at least the conflicts will all be within their product line.

The list of manufacturers with assigned Manufacturer IDs can be found at https://tsp.esta.org/tsp/working_groups/CP/mfctrIDs.php. The default sort order is by the hexadecimal ID, but you can click on the heading of any column to sort by that column. If a device's nominal manufacturer is not listed, it could be because the device or the control electronics are actually made by some other company. This is reasonable. However, if a manufacturer has no ID registered, but claims to have its own ID, there's a problem.

It's hard to understand why any manufacturer needing an ID would not have an ID properly assigned. It costs nothing. There is no charge. As it says at https://tsp.esta.org/tsp/working_groups/CP/mfctrIDs.php, all a manufacturer has to do is ask for an ID and give some basic contact information. That's it. ESTA's TSP management staff generally respond within 24 hours, unless the request is sent on a holiday, and then the reply is on the next business day. The request doesn't even have to be in English. Richard has some facility with Chinese and Karl has some facility with German, but DeepL and Google Translate handle another 110 languages reasonably well. The only restriction is that the company name and address have to be rendered in ASCII. The database will allow us to enter non-ASCII characters, but they later display as gibberish. 大光 would have to be entered as Da Guang.

So, what's up with a manufacturer that finds a price of zero too expensive and can't wait a day for an ID to make sure their product will work on a network? Or are they implementing RDM without consulting ANSI E1.20 standard so they don't know they are supposed to have a unique ID? If so, what else didn't they read?

By the way, there is one ID, 4C5Ah, that is assigned to two companies. The same person was/is the principal in both. He got an ID for one company, never made anything using it, started another company and produced products using the same ID. No address conflicts. No problems.

WTO Technical Barrier to Trade notifications

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

United Kingdom Notification GBR/42/GBR (GBR/42)

Date issued: 23 November 2021

Corrigendum type: Addendum

Correction type: Correction with full text

Corrigendum: Title: The Product Safety and Metrology etc. (Amendment) Regulations 2021 Reason for Addendum: [] Comment period changed - date: [] Notified measure adopted - date: [X] Notified measure

published - date: 17 November 2021 [X] Notified measure enters into force - date: 9 December 2021 [X] Text of final measure available from: <http://www.legislation.gov.uk/id/ukxi/2021/1273> [] Notified measure

withdrawn or revoked - date: Relevant symbol if measure re-notified: [] Content or scope of notified measure changed and text available from1: New deadline for comments (if applicable): [] Interpretive guidance issued and text available from1: [] Other: 1 This information can be provided by including a website address, a pdf attachment, or other information on where the text of the final/modified measure and/or interpretive guidance can be obtained. Description: In 2020, the UK Government introduced legislation which set up the UK marking and conformity assessment system (UKCA) but provided for a transitional arrangement to continue accepting EU product requirements up to and including 31 December 2021, for most goods covered by the new UKCA marking regime. This measure extends the UK's acceptance of products meeting EU requirements and marking for a further year (until 31 December 2022), for most goods covered by the new UKCA regime which are being placed on the market in Great Britain (separate rules apply in Northern Ireland). This measure also extends the time in which the UKCA marking can be affixed using a label or accompanying document, rather than being placed directly on the product itself, by a further 12 months (until 31 December 2023). The earlier draft title for this measure was updated from "The Product Safety and Metrology (Amendment) (EU Exit) Regulations 2021" to "The Product Safety and Metrology etc. (Amendment) Regulations 2021".

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/GBR/corrigenda/pdf/GBR42_add_1\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/GBR/corrigenda/pdf/GBR42_add_1(english).pdf)

Switzerland Notification CHE/264

Date issued: 23 November 2021

Agency responsible: Federal Office of Public Health (FOPH)

National inquiry point: Swiss Association for Standardization (SNV)

Products covered: INORGANIC CHEMICALS; ORGANIC OR INORGANIC COMPOUNDS OF PRECIOUS METALS, OF RARE-EARTH METALS, OF RADIOACTIVE ELEMENTS OR OF ISOTOPES (HS 28); ORGANIC CHEMICALS (HS 29); MISCELLANEOUS CHEMICAL PRODUCTS (HS 38)

Title: Annex 3 of the Ordinance on Protection against Dangerous Substances and Preparations (Chemicals Ordinance) (3 pages in German)

Description of content: Eight substances are included in the candidate list of substance of very high concern. This listing triggers information obligations along the supply chain.

Objective and rationale: National security requirements; Consumer information, labelling; Protection of human health or safety; Protection of the environment; Harmonization; Reducing trade barriers and facilitating trade

Relevant documents: - Detailed description of the changes:

<https://www.anmeldestelle.admin.ch/chem/de/home/themen/recht-wegleitungen/revisionen-des-chemikalienrechts/anpassung-anhaenge-2-3-chemikalienverordnung.html>

- Ordinance on Protection against Dangerous Substances and Preparations (Ordinance to be changed):

<https://www.admin.ch/opc/en/classified-compilation/20141117/index.html>

Proposed date of adoption: 7 January 2022

Proposed date of entry into force: 1 February 2022

Final date for comments: 31 December 2021

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE264\[1\]\(german\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE264[1](german).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE264\[2\]\(german\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE264[2](german).pdf)

Switzerland Notification CHE/265

Date issued: 23 November 2021

Agency responsible: Federal Office of Public Health (FOPH)

National inquiry point: Swiss Association for Standardization (SNV)

Products covered: Carcinogenic, mutagenic or reproductive toxicant (CMR) substances; INORGANIC CHEMICALS; ORGANIC OR INORGANIC COMPOUNDS OF PRECIOUS METALS, OF RARE-EARTH METALS, OF RADIOACTIVE ELEMENTS OR OF ISOTOPES (HS 28); ORGANIC CHEMICALS (HS 29); MISCELLANEOUS CHEMICAL PRODUCTS (HS 38)

Title: Annex 1.10 of Chemical Risk Reduction Ordinance (ORRChem) (3 page(s), in German)

Description of content: 26 additional substances are included in the Annex of the ORRChim. When the transition period expires, it will be prohibited to supply these carcinogenic, mutagenic or reproductive toxicant (CMR) substances to the general public. This revision is based on the analogous requirements of the EU.

Objective and rationale: The measures are necessary to protect the general public from carcinogenic, mutagenic or reproductive toxicant (CMR) substances.; Prevention of deceptive practices and consumer protection; Protection of human health or safety; Harmonization

Relevant documents: Detailed description of the changes:

<https://www.anmeldestelle.admin.ch/chem/fr/home/themen/recht-wegleitungen/revisionen-des-chemikalienrechts/anpassung-anhangs-1-10-chemikalien-risikoreduktions-verordnung.html>

Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Ordinance to be changed):

<https://www.admin.ch/opc/en/classified-compilation/20021520/index.html#app12>

Proposed date of adoption: 7 January 2022

Proposed date of entry into force: 1 February 2022

Final date for comments: 31 December 2021

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE265\(german\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE265(german).pdf)

Switzerland Notification CHE/263

Date issued: 22 November 2021

Agency responsible: Federal Office for the Environment (FOEN)

National inquiry point: Swiss Association for Standardization (SNV)

Products covered: Pentachlorophenol (PCP, CAS RN 87-86-5), its salts and esters. Perfluorooctane sulfonic acid and its derivatives (PFOS) as a substance on its own and as a constituent of other substances, in mixtures, or in articles or any part thereof. This include substances with the following CAS RNs: 1763-23-1, 2795-39-3, 29457-72-5, 29081-56-9, 70225-14-8, 56773-42-3, 251099-16-8, 4151-50-2, 31506-32-8, 1691-99-2, 24448-09-7, 307-35-7, and others. Perfluorooctanoic acid (PFOA), CAS RN 335-67-1, its salts and PFOA-related substances as a substance on its own and as a constituent of other substances, in mixtures, or in articles or any part thereof. Perfluorocarboxylic acids containing 9 to 14 carbon atoms in the chain (C9-C14 PFCA), their salts and related substances as a substance on its own and as a constituent of other substances, in mixtures, or in articles or any part thereof. The term "C9-C14 PFCAs" is used as an abbreviation for: Perfluorononan-1-oic acid (C9-PFCA), CAS RN 375-95-1; Nonadecafluorodecanoic acid (C10-PFCA), CAS RN 335-76-2; Henicosafluoroundecanoic acid (C11-PFCA), CAS RN 2058-94-8; Tricosafluorododecanoic acid (C12-PFCA), CAS RN 307-55-1; Pentacosafuorotridecanoic acid (C13-PFCA), CAS RN 72629-94-8; Heptacosafuorotetradecanoic acid (C14-PFCA), CAS RN 376-06-7; C9-C14 PFCA related substances can be transformed in the environment to C9-C14 PFCA. Perfluorohexane sulfonic acid (PFHxS), CAS RN 355-46-4, its salts and PFHxS-related substances as a substance on its own and as a constituent of other substances, in mixtures, or in articles or any part thereof. Polycyclic aromatic hydrocarbons (PAH) in granules or mulches used as infill materials in synthetic turf pitches or in loose form on playgrounds or in sport applications. PAH is used as abbreviation for eight carcinogenic substances: Benzo[a]pyrene (BaP), CAS RN 50-32-8; Benzo[e]pyrene, CAS RN 192-97-2; Benzo[a]anthracene, CAS RN 56-55-3; Chrysen, CAS No 218-01-9; Benzo[b]fluoranthene, CAS No 205-99-2; Benzo[j]fluoranthene, CAS No 205-82-3; Benzo[k]fluoranthene, CAS No 207-08-9; Dibenz[a,h]fluoranthene, CAS No 53-70-3. Appliances and equipment with asbestos-containing components. Substances stable in the atmosphere. Foams and articles with foams containing ozone-depleting substances.; Reclaimed rubber in primary forms or in plates, sheets or strip (HS 4003)

Title: Draft Ordinance of the Federal Council concerning amendments to annexes 1.1, 1.2, 1.4, 1.5, 1.6, 1.10, 1.16, 2.9, 2.10 und 2.11 of the Ordinance on the Reduction of Risks relating to the Use of Certain Particularly Dangerous Substances, Preparations and Articles (Chemicals Risk Reduction Ordinance, ORRChem, Fedlaw number: SR 814.81) (21 pages in German)

Description of content: The draft Ordinance contains adaptations of existing and new regulations in the Chemical Risk Reduction Ordinance (ORRChem) in the areas of

- persistent organic pollutants (Annex 1.1),
- halogenated organic substances (Annex 1.2),
- substances that deplete the ozone layer (Annexes 1.4 and 2.9),
- substances stable in the atmosphere (Annexes 1.5 and 2.10),
- asbestos (Annex 1.6),
- carcinogenic, mutagenic and reprotoxic substances (Annex 1.10),
- per- and polyfluoroalkyl substances (PFOS, PFOA, C9-C14 PFCA, PFHxS; Annexes 1.16 and 2.11),
- oxo-degradable plastics (Annex 2.9), and
- polycyclic aromatic hydrocarbons (PAH; Annex 2.9) .

The existing prohibition for the placing on the market of wood, textiles and leather goods containing pentachlorophenol (PCP), its salts and esters will be extended to any other products containing PCP, its salts and esters.

The placing on the market of substances that are stable in the atmosphere will, for specific uses, be allowed in refillable containers only. Labeling requirements will be updated to specify containers with reclaimed or recycled substances. Medical devices will be exempted from the ban on supply to the general public of substances with carcinogenic, mutagenic, or reprotoxic properties (CMR-substances), and mixtures that contain such substances. Existing exemptions from the prohibition of the placing on the market and use of PFOS and PFOS-related substances as well as preparations and articles containing these substances are repealed (photoresists or anti-reflective coatings for photolithography processes; photographic coatings applied to films, papers, or printing plates) or time limited (mist suppressants for non-decorative hard chromium (VI) plating in closed loop systems).

The manufacture, placing on the market and use of PFHxS and related substances, as well as mixtures and articles containing such substances, will be prohibited.

Existing restrictions for PFOA and its precursors are extended to longer-chain perfluorocarboxylic acids (C9-C14 PFCA) and their precursors as well as mixtures and articles containing such substances.

The placing on the market and use of granules and mulches used as infill material in synthetic turf pitches or in loose form on playgrounds or in sport applications will be prohibited if they contain more than 20 mg/kg of the sum of eight listed PAH.

The placing on the market and use of plastic products containing additives that cause the plastic to break down into fragments (oxo-degradable plastics) will be prohibited.

Existing reporting requirements for stationary systems containing refrigerants will be extended with information requirements specific to heat pumps. The placing on the market of temporary ice-rinks containing a refrigerant with a global warming potential higher than 4000 will be prohibited. A new exemption will be introduced for the manufacture and placing on the market of foams containing substances with an ozone depletion potential smaller than 0.0005, as well as for the manufacture and placing on the market of articles containing such foams.

Objective and rationale: The purpose of this revision of the Chemical Risk Reduction Ordinance (ORRChem) is to ensure the protection of human health and the environment from adverse effects of hazardous chemicals; Protection of human health or safety; Protection of the environment; Reducing trade barriers and facilitating trade

Relevant documents: The current draft legal text is only available in German (see attachment and section 11). Draft legal text in German, French and Italian of March 2021: Draft modification of ORRChem (German) Draft modification of ORRChem (French) Draft modification of ORRChem (Italian) The draft legal text of March 2021 was modified in certain points (in particular deletion of restrictions for the placing on the market and use of cyclic siloxanes D4, D5, and D6).

Proposed date of adoption: 1 February 2022

Proposed date of entry into force: 1 April 2022

Final date for comments: 21 January 2022

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE263\(german\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE263(german).pdf)

Canada Notification CAN/655

Date issued: 23 January 2021

Agency responsible: Department of Innovation, Sciences and Economic Development

National inquiry point: Notification Authority and Enquiry Point Global Affairs Canada

Products covered: Radiocommunications

Title: Consultation of RSS-102 SPR-APD, Issue 1, (13 pages, available in English & French)

Description of content: Notice is hereby given by the Ministry of Innovation, Science and Economic Development Canada that the following consultation has been released:

- RSS-102, SPR-APD Issue 1, Supplementary Procedure for Assessing Specific Absorption Rate (SAR) and Absorbed Power Density (APD) Compliance of Portable Devices in the 6 GHz Band (5925-7125 MHz), which sets out the technical requirements and processes to be followed when demonstrating compliance with specific absorption rate (SAR) limits and absorbed power density (APD) limits for portable devices operating in the 6 GHz band (e.g. RLAN device in the 5925-7125 MHz) that are subject to RSS-248, newly published.

Objective and rationale: Consultation

Relevant documents: Non-applicable

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 31 January 2022

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN655\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN655(english).pdf)

ANSI public review announcements

The following documents have been announced for public review by ANSI and may be of material interest to *Standards Watch* readers. If you have comments on them, please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

Due 27 December 2021

BSR/EIA 456-A-202x, Metallized Film Dielectric Capacitors for Alternating Current Application (new standard)

This standard describes the requirements for metallized electrode film dielectric capacitors, dry or non-PCB liquid filled, and sealed in metal cases or in non-metal cases made of self-extinguishing material. They are intended for use in lighting ballasts, ferro-resonant transformer power supplies, some power factor correction, with motors and other general-purpose applications.

Single copy price: \$96.00

Obtain an electronic copy from: <https://global.ihs.com/>

Send comments to: Edward Mikoski, emikoski@ecianow.org

BSR/EIA 717-A-2010 (R202x), Solid Tantalum Capacitor Application Guideline (reaffirmation of ANSI/EIA 717-A-2010)

This specification defines the qualification program for surface mount tantalum and niobium capacitors. Table 2 lists the tests required. Specification sheets can be added, as required, to define specific products or to cover unique/specific requirements.

Single copy price: \$82.00

Obtain an electronic copy from: <https://global.ihs.com/>

Send comments to: Edward Mikoski, emikoski@ecianow.org

BSR/NETA ETT-202x, NETA Standard for Certification of Electrical Testing Technicians (revision of ANSI/NETA ETT-2018)

This standard establishes minimum requirements for qualification and certification of the Electrical Testing Technician (ETT). This standard details the minimum training and experience requirements for Electrical Testing Technicians and provides criteria for documenting qualifications and certification. This standard details the requirements for an independent and impartial certification system to certify Electrical Testing Technicians.

Single copy price: \$495.00

Order from and send comments to: neta@netaworld.org

Due 3 January 2022

BSR/ASSP Z16.1-202x, Safety and Health Metrics and Performance Measures (new standard)

(1) Historical lagging indicators of measuring work-related injuries and illnesses. It will address clarification of guidelines used by BLS for recordability and formulas used to traditionally track employee injury/illness statistics; (2) Methodologies to utilize leading indicators to measure management effectiveness in reducing risk in the workplace. This portion of the standard will identify what leading indicators should be used, how to measure their effectiveness and turn such indicators into a statistical data base; (3) Expanding metrics beyond the traditional tracking of employee injuries/illnesses. Metrics will be developed that apply to areas such as property loss, general liability, fleet, business interruption, and other nontraditional metrics.

Single copy price: \$110.00

Order from and send comments to: Lauren Bauerschmidt, LBauerschmidt@assp.org

BSR/ASSP A1264.2-202X, Reducing Slip Missteps on Walking-Working Surfaces (revision and redesignation of ANSI/ASSE A1264.2-2012)

This standard sets forth provisions for reducing the risk of slip missteps in workplace situations. These incidents may occur as a result of surface characteristics or conditions. The purpose of this standard is to establish minimum provisions for reasonably safe underfoot surfaces for persons pursuing foreseeable activities.

Single copy price: \$110.00

Order from and send comments to: Lauren Bauerschmidt, LBauerschmidt@assp.org

BSR/RVIA EGS-1-202x, Engine Generator Sets for Recreational Vehicle Requirements (revision of ANSI/RVIA EGS-1-2018)

This standard sets forth safety requirements and standards for engine generators having a continuous rating of 20 kilowatts or less for installation and operation in recreational vehicles and similar mobile applications.

Single copy price: Free

Order from and send comments to: Tyler Reamer, treamer@rvia.org

Due 18 January 2022

BSR/ASME MBE-1-202x, Framework (new standard)

The scope of this standard is the architecture framework for the representation of a Model-Based Enterprise (MBE). This standard presents an architectural view of an MBE and its constituent systems following ISO/IEC/IEEE 42010:2011 architecture concepts. The scope of the MBE Framework focuses on providing structural definition and guidance for an MBE and its elements across an entire enterprise. All MBE conventions and common practices for an architecture description established within a specific system of interest or stakeholder community are within the scope of this standard. In addition, this standard provides a prefabricated representation of an MBE and its component systems. Decomposition of the MBE elements into architectural descriptions and specifications is out of scope for this standard.

Single copy price: Free

Order from: <https://cstools.asme.org/csconnect/PublicReviewPage.cfm>

Send comments to: Fredric Constantino, constantinof@asme.org

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/AHAM 62301-202x, Household electrical appliances - Measurement of standby power (national adoption with modifications of IEC 62301)

Specifies methods of measurement of electrical power consumption in standby mode(s) and other low-power modes (off-mode and network mode), as applicable. It is applicable to electrical products with a rated input voltage or voltage range that lies wholly or partly in the range 100 V a.c. to 250 V a.c. for single-phase products and 130 V a.c. to 480 V a.c. for other products. The objective of this standard is to provide a method of test to determine the power consumption of a range of products in relevant low-power modes, generally where the product is not in active mode (i.e., not performing a primary function). This standard does not specify safety requirements. It does not specify minimum performance requirements nor does it set maximum limits on power or energy consumption. This second edition cancels and replaces the first edition published in 2005 and constitutes a technical revision. The main changes from the previous edition are as follows:

- greater detail in set-up procedures and introduction of stability requirements for all measurement methods to ensure that results are as representative as possible;
- refinement of measurement uncertainty requirements for power-measuring instruments, especially for more difficult loads with high crest factor and/or low power factor;
- updated guidance on product configuration, instrumentation, and calculation of measurement uncertainty;
- inclusion of definitions for low power modes as requested by TC59 and use of these new definitions and more rigorous terminology throughout the standard; and
- inclusion of specific test conditions where power consumption is affected by ambient illumination.

Contact: Matthew Williams, mwilliams@aham.org

BSR/AWS B2.1-1-018-202x, Standard Welding Procedure Specification (SWPS) for Self-Shielded Flux-Cored Arc Welding of Carbon Steel (M-1/P-1, Group 1 or 2) 1/8 inch [3 mm] through 1-1/2 inch [38 mm] Thick, E71T-8, in the As-Welded Condition, Primarily Plate and Structural Applications (revision of ANSI/AWS B2.1-1-018-2021)

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 inch [3 mm] through 1-1/2 inch [38 mm], using semiautomatic self-shielded flux-cored arc welding. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for fillet and groove welds. This SWPS was developed primarily for plate and structural applications.

Contact: Jennifer Rosario, jrosario@aws.org

BSR/BEPP/AS-WV-PR 202X-202x, Standard for Active Shooter and Workplace Violence Preparedness and Response (new standard)

This standard will focus on providing individuals and organizations the information needed to prepare for, respond to, and recover from an Active Shooter and or Workplace Violence event. This standard will provide a platform for organizational policy, procedures, and training needed better prepare individual survival if an event was to occur. By having a standard to follow, organizations may be able to mitigate an event from ever occurring.

Contact: James Cameron, info@ep-board.org

BSR C82.77-6-202X, Standard for Lighting Equipment - Temporal Light Artifacts (new standard)

This standard specifies the method of quantifying the visibility of temporal light artifacts (TLA) and specifies broad application-dependent limits on TLA.

Contact: Michael Erbesfeld, Michael.Erbesfeld@nema.org

BSR/CSA SPE 116-202x, This standard provides a rating methodology to assess and improve the Environmental, Social, and Governance (ESG) programs of associations. [sic] (new standard)

This standard is meant to do what the title says.

Contact: Debbie Chesnik, ansi.contact@csagroup.org

BSR/EIA 60115-1-202x, Fixed Resistors for Use in Electronic Equipment - Part 1: Generic Specification (identical national adoption of IEC 60115-1:2020 ED5)

This part of IEC 60115 is a generic specification and is applicable to fixed resistors for use in electronic equipment. It establishes standard terms, inspection procedures and methods of test for use in sectional and detail specifications of electronic components for quality assessment or any other purpose.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-1-202x, Fixed Capacitors for Use in Electronic Equipment - Part 1: Generic Specification (identical national adoption of IEC 60384-1:2021 ED6)

This part of IEC 60384 is a generic specification and is applicable to fixed capacitors for use in electronic equipment. It establishes standard terms, inspection procedures and methods of test for use in sectional and detail specifications of electronic components for quality assessment or any other purpose.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-2-202x, Fixed Capacitors for Use in Electronic Equipment - Part 2: Sectional Specification – Fixed Metallized Polyethylene Terephthalate Film Dielectric DC Capacitors (identical national adoption of IEC 60384-2:2021 ED5)

This part of IEC 60384 applies to fixed capacitors for direct current, with metallized electrodes and polyethylene-terephthalate dielectric for use in electronic equipment.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-11-202x, Fixed Capacitors for Use in Electronic Equipment - Part 11: Sectional Specification – Fixed Polyethylene-Terephthalate Film Dielectric Metal Foil DC Capacitors (identical national adoption of IEC 60384-11:2019 ED4)

This part of IEC 60384 is applicable to fixed direct current capacitors, for rated voltages not exceeding 6,300 V, using as dielectric a polyethylene-terephthalate film and electrodes of thin metal foils. For capacitors with rated voltages exceeding 1000 V, additional tests and requirements may be specified in the detail specification.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-16-202x, Fixed Capacitors for Use in Electronic Equipment - Part 16: Sectional Specification – Fixed Metallized Polypropylene Film Dielectric DC Capacitors (identical national adoption of IEC 60384-16:2019 ED3)

This part of IEC 60384 applies to fixed capacitors with metallized electrodes and polypropylene dielectric for use in electronic equipment. These capacitors can have "self-healing properties", depending on conditions of use. They are mainly intended for use with direct voltage. The maximum power to be applied is 500 var at 50 Hz and the maximum peak voltage is 2500 V.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-17-202x, Fixed Capacitors for Use in Electronic Equipment - Part 17: Sectional Specification – Fixed Metallized Polypropylene Film Dielectric AC and Pulse Capacitors (identical national adoption of IEC 60384-17:2019 ED3)

This part of IEC 60384 applies to fixed capacitors with metallized electrodes and polypropylene dielectric for use in electronic equipment. Capacitors that have mixed film and metallized electrodes are also within the scope.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-24-202x, Fixed Capacitors for Use in Electronic Equipment - Part 24: Sectional Specification – Fixed Tantalum Electrolytic Surface Mount Capacitors with Conductive Polymer Solid Electrolyte (identical national adoption of IEC 60384-24:2021 ED3)

This part of IEC 60384 applies to fixed tantalum electrolytic surface-mount capacitors with conductive polymer solid electrolyte, which are primarily intended for DC applications for use in electronic equipment. Fixed tantalum electrolytic surface mount capacitors with solid (MnO₂) electrolyte are not included in IEC60384-24.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60384-25-202x, Fixed Capacitors for Use in Electronic Equipment - Part 25: Sectional Specification – Fixed Aluminium Electrolytic Surface Mount Capacitors with Conductive Polymer Solid Electrolyte (identical national adoption of IEC 60384-25:2021 ED3)

This part of IEC 60384 applies to fixed aluminium electrolytic surface mount capacitors with conductive polymer solid electrolyte, primarily intended for DC applications for use in electronic equipment. Fixed aluminium electrolytic surface mount capacitors with solid (MnO₂) are not included but are covered by IEC 60384-18.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60938-1-202x, Fixed Inductors for Electromagnetic Interference Suppression - Part 1: Generic Specification (identical national adoption of IEC 60938-1:2021 ED3)

This part of IEC 60938 applies to inductors designed for electromagnetic interference suppression intended for use within all kind of electric and electronic equipment. In this generic specification, normative references and terms and definitions are given. It also prescribes general requirements and the suitable test and measurement procedures for interference suppression inductors. Annex B states special requirements for earth inductors.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/EIA 60938-2-202x, Fixed Inductors for Electromagnetic Interference Suppression - Part 2: Sectional Specification (identical national adoption of IEC 60938-2:2021 ED3)

This part of IEC 60938 applies to fixed inductors designed for electromagnetic interference suppression, which will be connected to an AC mains or other supplies with a nominal voltage not exceeding 1000 V AC RMS or 1500 V DC with a nominal frequency not exceeding 400 Hz.

Contact: Laura Donohoe, ldonohoe@ecianow.org

BSR/IAPMO USHGC 1-2024, Uniform Solar, Hydronics and Geothermal Code (revision of ANSI/IAPMO USHGC 1-2021)

The provisions of this code applies to the erection, installation, alteration, repair, relocation, replacement, addition to, use or maintenance of solar energy, hydronic and geothermal energy systems including but not limited to equipment and appliances intended for space heating or cooling; water heating; swimming pool heating or process heating; and snow- and ice-melt systems.

Contact: Hugo Aguilar, hugo.aguilar@iapmo.org

BSR/IAPMO USPSHTC 1-2024, Uniform Swimming Pool, Spa, and Hot Tub Code (revision of ANSI/IAPMO USPSHTC 1-2021)

The Uniform Swimming Pool, Spa, and Hot Tub Code provides the built industry with uniform swimming pool, spa and hot tub standards resulting in a reduction in training costs, product development costs, and in price reduction for consumers. This standard provides consumers with safe swimming pool, spa, and hot tub units while allowing latitude for innovation and new technologies.

Contact: Hugo Aguilar, hugo.aguilar@iapmo.org

BSR/ISA 62443-4-2-202x, Security for industrial automation and control systems - Part 4-2: Technical security requirements for IACS components (revision of ANSI/ISA 62443-4-2-2018)

This part of the ISA-62443 series provides the cyber-security technical requirements for the components that make up an IACS, specifically the embedded devices, network components, host components, and software applications. This document derives its requirements from the IACS system security requirements described in ISA 62443E3E3. The intent of this document is to specify security capabilities that enable a component to mitigate threats for a given security level without the assistance of compensating countermeasures.

Contact: Eliana Brazda, ebrazda@isa.org

BSR/NETA MTS-202x, NETA Standard for Maintenance Testing Specifications for Electrical Power Equipment and Systems (revision of ANSI/NETA MTS-2019)

These specifications incorporate comprehensive field tests and inspections to assess the suitability for continued service, condition of maintenance, and reliability of electrical power distribution equipment and systems. The purpose of these specifications is to assure tested electrical equipment and systems are operational, are within applicable standards and manufacturer's tolerances, and are suitable for continued service.

Contact: Rose Kodzwa, rkodzwa@netaworld.org

BSR/NISO Z39.106-202x, Peer Review Terminology (new standard)

This proposed standard will utilize the material created by STM (the International Association of Scientific, Technical and Medical Publishers), review input from publishers who have participated in an initial pilot, design and deploy a more extensive pilot program, and review feedback from members of the working group to finalize a Version 3.0 of the terminology for ANSI/NISO standardization. The terminology is designed for peer reviewed journal articles.

Contact: Nettie Lagace, nlagace@niso.org

BSR/NFPA 13-202x, Standard for the Installation of Sprinkler Systems (revision of ANSI/NFPA 13-2022)

This standard shall provide the minimum requirements for the design and installation of automatic fire sprinkler systems and exposure protection sprinkler systems covered within this standard. This standard shall not provide requirements for the design or installation of water mist fire protection systems. Water-mist fire-protection systems shall not be considered fire-sprinkler systems.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 72-202x, National Fire Alarm and Signaling Code (revision of ANSI/NFPA 72-2022)

NFPA 72 covers the application, installation, location, performance, inspection, testing, and maintenance of fire alarm systems, supervising station alarm systems, public emergency alarm reporting systems, fire and carbon monoxide detection and warning equipment, and emergency communications systems and their components. The provisions of this chapter apply throughout the Code unless otherwise noted.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 80-202x, Standard for Fire Doors and Other Opening Protectives (revision of ANSI/NFPA 80-2022)

This standard regulates the installation and maintenance of assemblies and devices used to protect openings (including theatre proscenium openings) in walls, floors, and ceilings against the spread of fire and smoke within, into, or out of buildings. With the exception of fabric fire safety curtain assemblies, this standard addresses assemblies that have been subjected to standardized fire tests. Incinerator doors, record room doors, and vault doors are not covered in this standard. Requirements for horizontally sliding, vertically sliding, and swinging doors as used in this standard do not apply to hoistway doors for elevators and dumbwaiters. This standard does not cover fire-resistance glazing materials and horizontally sliding accordion or folding assemblies fabricated for

use as walls and tested as wall assemblies in accordance with ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials, or UL 263, Fire Tests of Building Construction and Materials.
Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 105-202x, Standard for Smoke Door Assemblies and Other Opening Protectives (revision of ANSI/NFPA 105 -2022)

This standard shall prescribe minimum requirements for smoke door assemblies for use in providing safety to life and protection of property from smoke.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 501-202x, Standard on Manufactured Housing (revision of ANSI/NFPA 501-2021)

This standard shall cover all the equipment and installations used in the design, construction, transportation, fire safety, plumbing, heat-producing, and electrical systems of manufactured homes that are designed to be used as dwelling units. This standard shall, to the maximum extent possible, establish performance requirements. In certain instances, however, the use of specific requirements is necessary.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 1123-202x, Code for Fireworks Display (revision of ANSI/NFPA 1123-2022)

This code shall apply to the following:

(1) Construction, handling, and use of fireworks and equipment intended for outdoor fireworks display; (2) Operation of the display.

This code shall not apply to the following:

(1) Manufacture, transportation, or storage of fireworks at a manufacturing facility; (2) Testing of fireworks under the direction of their manufacturer, provided that permission for such testing has been obtained from the authority having jurisdiction (AHJ); (3) Use of consumer fireworks by the public; (4) Transportation, handling, or use of fireworks by the armed forces of the United States; (5) Transportation, handling, or use of industrial pyrotechnic devices or fireworks, such as railroad torpedoes; fusees; automotive, aeronautical, and marine flares; and smoke signals; (6) Use of pyrotechnic devices or materials in the performing arts at distances less than those specified in this code and used in conformance with NFPA 1126; (7) Use of flame special effects in the performing arts when used in conformance with NFPA 160; (8) Sale and use of rockets, rocket motors, motor reloading kits, pyrotechnic modules, or components used in conformance with NFPA 1122 or NFPA 1127, or . . . [Ran out of space in ANSI's *Standards Action*. Too many to list them all!]

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/UL 1395-202X, Standard for Extraneous Transients Test Method (new standard)

These requirements cover the extraneous transients test method for fire safety equipment. This test method evaluates the immunity of devices to various frequencies and field strengths of RF signals. Tests conducted in accordance with these requirements are intended to demonstrate that the intended operation of the device is not impaired when subject to extraneous transients generated by the specified test method, devices and/or appliances outlined in this standard.

Contact: Nicolette Weeks; Nicolette.A.Weeks@ul.org

Final actions on American National Standards

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

ANSI N42.41-2021, Standard Minimum Performance Criteria for Active Interrogation Systems Used for Homeland Security (revision of ANSI N42.41-2007 (R2017)), 12 November 2021

ANSI/ANS 2.15-2013 (R2021), Criteria for Modeling and Calculating Atmospheric Dispersion of Routine Radiological Releases from Nuclear Facilities (reaffirmation of ANSI/ANS 2.15-2013 (R2017)), 11 November 2021

ANSI/ASTM E0620-2018, Practice for Reporting Opinions of Scientific or Technical Experts (new standard), 2 November 2021

ANSI/ASTM E0678-2007 (2013), Standard Practice for Evaluation of Scientific or Technical Data (new standard), 2 November 2021

ANSI/ASTM E1843-2020, Standard Guide for Sexual Violence Investigation, Examination, and Evidence Collection Protocol (new standard), 2 November 2021

ANSI/ASTM E2326-2014, Standard Practice for Education and Training of Seized-Drug Analysts (new standard), 2 November 2021

ANSI/ASTM E2329-2017, Standard Practice for Identification of Seized Drugs (new standard), 2 November 2021 [This is one of a series of “seized drug” standards. They are new standards; there were no American National Standards before for seized drug analysis.]

ANSI/ASTM E2882-2019, Standard Guide for Analysis of Clandestine Drug Laboratory Evidence (new standard), 2 November 2021

ANSI/ASTM E3115-2017, Standard Guide for Capturing Facial Images for Use with Facial Recognition Systems (new standard), 2 November 2021

ANSI/UL 8800-2021, Standard for Horticultural Lighting Equipment and Systems (revision of ANSI/UL 8800-2019), 12 November 2021

Draft IEC & ISO documents

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

ISO/IEC DIS 27005, Information security, cybersecurity and privacy protection - Guidance on managing information security risks, 13 November 2007 [sic], \$134.00

ISO/FDIS 25550, Ageing societies - General requirements and guidelines for an age-inclusive workforce, 13 November 2008 [sic], \$119.00

ISO/FDIS 23326, Human resource management – Employee engagement – Guidelines, 7 November 2011 [sic], \$53.00

ISO/DIS 15615.2, Gas welding equipment - Acetylene manifold systems for welding, cutting and allied processes – Safety requirements in high-pressure devices, 2 January 2022, \$71.00

21A/777/CDV, IEC 61951-2/AMD1 ED4: Secondary cells and batteries containing alkaline or other non acid electrolytes - Secondary sealed cells and batteries for portable applications - Part 2: Nickel-metal hydride, 28 January 2022

34/886/CD, IEC 63403-1 ED1: LED packages for horticultural lighting - Part 1: Specification sheet, 28 January 2022

34/887/CD, IEC 63403-2 ED1: LED packages for horticultural lighting - Part 2: Characterization method, 28 January 2022

34D/1643/CD, IEC 60598-1 ED10: Luminaires - Part 1: General requirements and tests, 28 January 2022

JTC1-SC25/3068/CD, ISO/IEC 11801-1/AMD1 ED1: Amendment 1 - Information technology - Generic cabling for customer premises - Part 1: General requirements, 28 January 2022

JTC1-SC25/3069/CD, ISO/IEC 24383 ED1: Information technology - Physical network security for the accommodation of customer premises cabling infrastructure and information technology equipment, 28 January 2022

ISO/DIS 3691-4, Industrial trucks - Safety requirements and verification - Part 4: Driverless industrial trucks and their systems, 29 January 2022, \$146.00

ISO/DIS 8100-33, Lifts for the transport of persons and goods – Part 33: T-type guide rails for lift cars and counterweights, 29 January 2022, \$67.00

ISO/IEC DIS 23859-1, Information technology - User interfaces – Part 1: Guidance on making written text easy to read and easy to understand, 29 January 2022, \$82.00

ISO/DIS 24553, Ergonomics - Accessible design - Ease of operation, 29 January 2022, \$107.00

ISO/IEC DIS 27556, Information security, cybersecurity and privacy protection - User-centric privacy preferences management framework, 29 January 2022, \$82.00

ISO/IEC DIS 27557, Information technology - Information security, cybersecurity and privacy protection - Organizational privacy risk management, 29 January 2022, \$77.00

ISO/IEC DIS 27559, Privacy enhancing data de-identification framework, 29 January 2022, \$77.00

ISO/DIS 31700, Consumer protection - Privacy by design for consumer goods and services, 30 January 2022, \$107.00

96/526/CDV, IEC 61558-2-13 ED3: Safety of transformers, reactors, power supply units and combinations thereof - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers for general applications, 4 February 2022

ISO/DIS 17842-1, Safety of amusement rides and amusement devices - Part 1: Design and manufacture, 5 November 2023, \$185.00

Recently published IEC & ISO documents

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

ISO 21111-6:2021, Road vehicles - In-vehicle Ethernet - Part 6: Electrical 100-Mbit/s physical entity requirements and conformance test plan, \$250.00

ISO 22329:2021, Security and resilience - Emergency management - Guidelines for the use of social media in emergencies, \$111.00

ISO 8373:2021, Robotics - Vocabulary, \$48.00

ISO/IEC TR 24027:2021, Information technology – Artificial intelligence (AI) - Bias in AI systems and AI-aided decision making, \$200.00

ISO/IEC TR 30174:2021, Internet of Things (IoT) - Socialized IoT system resembling human social interaction dynamics, \$175.00

ISO/IEC TR 30176:2021, Internet of Things (IoT) - Integration of IoT and DLT/blockchain: Use cases, \$200.00

ISO/IEC TS 23532-1:2021, Information security, cybersecurity and privacy protection - Requirements for the competence of IT security testing and evaluation laboratories - Part 1: Evaluation for ISO/IEC 15408, \$149.00

ISO/IEC TS 23532-2:2021, Information security, cybersecurity and privacy protection - Requirements for the competence of IT security testing and evaluation laboratories - Part 2: Testing for ISO/IEC 19790, \$149.00

ISO/TS 18950:2021, Imaging materials - Photographic prints – Effect of light sources on degradation under museum conditions, \$111.00

TSP meeting schedule

The meeting schedule is posted at <https://www.esta.org/ESTA/meetings.php>. The next set of meetings will be via WebEx.

Control Protocols Working Group	11:00 - 14:00 EST	Wednesday 19 January 2022
Electrical Power Working Group	15:00 - 17:00 EST	Monday 17 January 2022
Event Safety Working Group	14:00 – 16:00 EST	Friday 21 January 2022
Floors Working Group	15:00 - 17:00 EST	Tuesday 18 January 2022
Fog & Smoke Working Group	11:00 - 13:00 EST	Monday 17 January 2022
Followspot Positions Working Group	11:00 - 14:00 EST	Thursday 20 January 2022
Photometrics Working Group	15:00 - 17:00 EST	Wednesday 19 January 2022
Rigging Working Group	11:00 - 13:00 EST	Tuesday 18 January 2022
Stage Machinery Working Group	15:00 - 17:00 EST	Thursday 20 January 2022
Technical Standards Council	11:00 - 13:00 EST	Monday 24 January 2022

ESTA Standards Watch

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

Editors:

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

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

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

VISIONARY LEADERS (\$50,000 & up)

ETC

PLASA

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

Chauvet Professional

Cisco

Columbus McKinnon Entertainment Technology

Disney Parks Live Entertainment

ProSight Specialty Insurance

Robe

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

Altman Lighting, Inc.

German Light Products

McLaren Engineering Group

Rose Brand

Stage Rigging

Theatre Projects

Theatre Safety Programs

TMB

Wenger/JR Clancy

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

About the Stage

B-Hive Industries, Inc.

Scott Blair

Boston Illumination Group

Candela Controls, Inc.

Clark Reder Engineering

Tracey Cosgrove & Mark McKinney

Doug Fleenor Design

Down Stage Right Industries Ltd.

EGI Event Production Services

Entertainment Project Services

Neil Huff

Interactive Technologies

Jules Lauve

Brian Lawlor

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)

American Society of Theatre Consultants

Area Four Industries

BMI Supply

City Theatrical Inc.

H&H Specialties, Inc.

InterAmerica Stage, Inc.

Lycian Stage Lighting

Niscon Inc.

Tomcat Staging, Lighting and Support Systems

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

Baxter Controls, Inc.
Bruce Darden
ChamSix
Guangzhou Color Imagination LED Lighting
Indianapolis Stage Sales & Rentals, Inc.
Kenney Drapery Associates, Inc.
L1 Inc.
Liberal Logic, Inc.
Lighting Infusion LLC
Luminator Technology Group
Scott Madaski

Mediam Sp. zo.o.
Karen Miller
Nanyi Audio & Lighting Enterprise Co., Ltd.
Qdot Lighting Ltd.
Sanko Device Co. Ltd.
Sehr Gute GmbH
Show Light Oy
Shawn Silverman
Tracy Underhill
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.
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
Wuhan Zhongtian Jiaye Mechanical & Electrical Eng.
Co.
Zhisheng Huang
Zhuhai Shengchang Electronics Co.

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

Adam Blair
Alyxzander Bear
Capture Visualisation AB
Chip Scott Lighting Design
DMX Pro Sales
Emilum GmbH
Peter Erskine
Foshan Leiyuan Photoelectric Co. Ltd.
Jack Gallagher
Tony Giovannetti
Pat Grenfell
John Huntington
Beverly and Tom Inglesby
Klik Systems
Eddie Kramer

Jason Kyle
David Lascout
Jason Livingston
LuxBalance Lighting
Luminator Technology Group
Tyrone Mellon, Jr.
Lizz Pittsley
Sigma Net
Michael Skinner
Studio T+L
TELMIC Neo
Terrier Marketing
Arjan van Vught
Lars Wernland

Extraordinary legacy gift: Ken Vannice

You can make a donation by visiting https://tsp.esta.org/tsp/inv_in_innovation/sponsor.html.
Become an *Investor in Innovation!*