



ESTA Standards Watch

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Three 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 the due-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.

Three ESTA standards approved and published

Three ESTA standards have been approved for reaffirmation by ANSI and the new editions published. You can download them at no cost from the ESTA website at <http://tsp.esta.org/freestandards> or you can buy them from [ANSI](#) or [IHS Markit](#).

ANSI E1.16 - 2002 (R2021), Entertainment Technology - Configuration Standard for Metal Halide Ballast Power Cables, describes a standard practice for grounding contact assignment for detachable power cables on 6 kW, 12 kW and 18 kW metal-halide lamp ballasts used in the motion picture and television industries on portable studio luminaires that use a common, three-contact, circular connector. It's retail price, if bought from ANSI or IHS, is a mere \$15.00; the standard's substance is one sentence and a picture.

ANSI E1.24 - 2012 (R2021), Entertainment Technology - Dimensional Requirements for Stage Pin Connectors, is a configuration standard giving the mating requirements for male and female pin connectors, contact set-backs from the front face, and marking requirements. The electrical reliability and flammability requirements for pin connectors are outside the scope of this standard and would be covered by other standards, such as UL 498, Attachment Plugs and Receptacles. The download from the TSP website is a ZIP file of the standard bundled with the CAD files that were used to create the illustrations in the standard. The standard is the standard; the CAD files are simply included as a convenience for those creating connector shop drawings and are not the standard. The document for sale for \$40.00 from ANSI and IHS is the standard alone without the CAD files.

ANSI E1.55 - 2016 (R2021), Standard for Theatrical Makeup Mirror Lighting, is what the title says: a standard for the lighting systems used with makeup mirrors and makeup stations in theatres and other performance venues. It describes the topology of the makeup mirror lighting system, the quantity of light, the distribution of light from those sources, apparent source size, brightness, color rendering, and correlated color temperature. This edition of the standard uses the Fidelity Index (Rf) rating per IES TM-30-15, IES Method for Evaluating Light Source Color Rendition, as an acceptable rating to meet the requirements for color rendering. The standard was developed at the request of Actors' Equity Association to help their members. List price is \$40.00, but it is available at no cost from the TSP website.

ICOPER available for public review

The International Code of Practice for Entertainment Rigging was drafted to provide an international model code of practice with a focus on arena rigging but applicable to all event production rigging disciplines. It has been translated into Traditional Chinese and Polish, with additional translations underway in Italian, Korean, Norwegian, Romanian, and Russian. The document is now available for public review to ensure it is congruent with current practices, technology, and terminology. Comments from the rigging industry are requested.

Copies of the current version of ICOPER and the Excel form for submitting comments can be downloaded from www.esta.org/icoper. You also can email icoper@esta.org to request a form be emailed to you. Completed comment forms should be emailed to icoper@esta.org and must be received by 10 December 2021.

CM-ET Basic Motor Online Course: learn and benefit the TSP

CM is offering an on-line course covering Lodestar and Prostar hoists. Topics include:

- Hoist specifications, benefits, & features
- Safe Handling & Use of hoists
- Current Industry Regulations & Standards, from a global perspective
- Inspection and Testing criteria
- Functions of mechanical and electrical components
- Adjusting limit switches
- Inspecting and adjusting the brake
- Guidance on preventative maintenance

It's a great course for beginners or anyone needing a refresher. For those individuals looking to take the more advanced hands-on CM-ET Motor Certification Technician course, this class is the good place to start. It's also a great for ETCP Certified Technicians looking to expand their knowledge and collect 4 ETCP renewal credits at the same time.

The course fee is \$199.00 per person. If you register for the course at tsp.esta.org/cmco, CM-ET will donate 100% of the fee to the TSP.

NIST requests comments on 2nd draft of supply chain cybersecurity

The National Institute of Standards and Technology has published the second public draft of Special Publication (SP) 800-161 Revision 1, [Cybersecurity Supply Chain Risk Management Practices for Systems and Organizations](#), for public comment. Comments are requested by 3 December 2021. A template for comment submissions, instructions, and more information are available on [the NIST website](#). Comments will help NIST carry out one of its multiple assignments in the President's [Executive Order \(EO\) 14028, Improving the Nation's Cybersecurity](#).

NIST requests comments on consumer software cybersecurity labeling

In an effort to improve consumers' ability to make informed decisions about software they purchase, NIST has drafted a set of cybersecurity criteria for consumer software. The criteria are intended to aid in the development and voluntary use of labels to indicate that the software incorporates a baseline level of security measures.

The document, [Draft Baseline Criteria for Consumer Software Cybersecurity Labeling](#), forms part of NIST's response to [Executive Order \(EO\) 14028 on Improving the Nation's Cybersecurity](#). The EO specifies that NIST "shall identify secure software development practices or criteria for a consumer software labeling program."

Comments on the draft document are due by 16 December 2021, and can be emailed to labeling-eo@nist.gov. Please submit comments along with your name and organization, and use the subject "Draft Consumer Software Labeling Criteria." All comments will be published on [the project's website](#).

FCC publishes new Table of Digital Television Allotments

The Federal Communications Commission has published an Order revising the Table of Allotments to reflect changes to full-power television channel allotments over the past three years. The Order also deletes or revise Commission rules that no longer have any practical effect given the conclusion of the spectrum incentive auction and post-incentive auction transition period, or that are otherwise obsolete or irrelevant. The announcement of the Order and links to it are available at <https://www.fcc.gov/document/fcc-updates-dtv-table-allotments-and-related-rules>.

The 42-page document is important to anyone trying to keep up with how the RF spectrum has been reallocated in the USA, which may have an impact on the use of wireless microphones and other low-power RF devices. There are about 20 pages of listings of where full-power TV stations are licensed to operate on what channels.

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 States of America Notification USA/1797

Date issued: 2 November 2021

Agency responsible: Federal Aviation Administration (FAA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Boeing model 777-9; operation without normal electrical power; Aircraft and space vehicles in general, Aerospace electric equipment and systems

Title: Special Conditions: Boeing Commercial Airplanes Model 777-9 Airplane; Operation Without Normal Electrical Power (3 pages in English)

Description of content: Final special conditions; request for comments - These special conditions are issued for the Boeing Commercial Airplanes (Boeing) Model 777-9 series airplane. This airplane will have a novel or unusual design feature when compared to the state of technology envisioned in the airworthiness standards for transport category airplanes. This design feature is electrical and electronic systems that perform critical functions, the loss of which could be catastrophic to the airplane. The applicable airworthiness regulations do not contain adequate or appropriate safety standards for this design feature. These special conditions contain the additional safety standards that the Administrator considers necessary to establish a level of safety equivalent to that established by the existing airworthiness standards.

Objective and rationale: Protection of human health or safety

Relevant documents: 86 Federal Register (FR) 54588, 4 October 2021; Title 14 Code of Federal Regulations (CFR) Part 25: <https://www.govinfo.gov/content/pkg/FR-2021-10-04/pdf/2021-21540.pdf>

This final special conditions; request for comment is identified by Docket Number FAA-2021-0894. The Docket Folder is available on Regulations.gov at

<https://www.regulations.gov/docket/FAA-2021-0894/document> and provides access to primary documents as well as comments received. Documents are also accessible from Regulations.gov by searching the Docket Number. WTO Members and their stakeholders are asked to submit comments to the USA TBT Enquiry Point. Comments received by the USA TBT Enquiry Point from WTO Members and their stakeholders will be shared with the regulator and will also be submitted to the Docket on Regulations.gov if received within the comment period.

Proposed date of adoption: 4 October 2021

Proposed date of entry into force: 4 October 2021

Final date for comments: 18 November 2021

Full text: <https://www.govinfo.gov/content/pkg/FR-2021-10-04/pdf/2021-21540.pdf>

Canada Notification CAN/654

Date issued: 2 November 2021

Agency responsible: Canadian Food Inspection Agency

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

Products covered: Tomatoes, greenhouse, fresh (HS 070200000201); tomatoes, greenhouse, organic (HS 070200000201); cucumbers, greenhouse, fresh (HS 070700300102); cucumbers, greenhouse, organic (HS 070700300112)

Title: Proposed Amendment to the Canadian Grade Compendium: Volume 2 - Fresh Fruit or Vegetables. - Standard for greenhouse cucumbers (3 pages, available in English and French); - Standard for greenhouse mini cucumbers (2 and 3 pages, available in English and French); and - Standard for greenhouse tomatoes (3 pages, available in English and French).

Description of content: Certain fresh fruit or vegetables (FFV) must be graded in order to be marketed in import or interprovincial trade in Canada. FFV grades and requirements are maintained and enforced by Canadian Food Inspection Agency (CFIA) in an incorporated by reference (IbR) document titled "Canadian Grade Compendium: Volume 2 - Fresh Fruit or Vegetables", incorporated into the Safe Food for Canadians Regulations (SFCR). CFIA is proposing to modernize and harmonize existing grade requirements related to the quality of FFV and introduce new grade standards to certain commodities. This consultation is being conducted in phases to solicit feedback on proposed changes to the grades and requirements for FFV. Each phase will focus on a different group of commodities. A notification will be sent for each phase of the

consultation. This phase focuses on the proposed changes to grades and requirements for greenhouse cucumbers and greenhouse tomatoes, including a new standard for greenhouse mini cucumbers. The Proposed Amendment to the Canadian Grade Compendium: Volume 2 - Fresh Fruit or Vegetables include

- changes to size requirements,
- clarifications to terminology for defects and tolerances, and
- the introduction of new standard for greenhouse mini cucumbers.

Objective and rationale: Existing grades and requirements are outlined in the current "Canadian Grade Compendium: Volume 2 - Fresh Fruit or Vegetables" incorporated by reference into the Safe Food for Canadians Regulations. The objective of the proposed changes is to reflect market needs: • changes in consumer demand and demographics;

- developments in technology and innovation, including but not limited to plant and variety breeding;
- improved and innovative production practices, storage and packing technologies;
- harmonization of standards with international trading partners, and
- new grade standards where there are none existing and for which industry consensus has been achieved.

In response to these market needs, the proposed changes include new size requirements, clarifications to terminology for defects and tolerances, and the introduction of new standards for certain commodities.;

Relevant documents: Proposed changes to the Canadian Grade Compendium: Volume 2 - Fresh Fruit or Vegetables: <https://inspection.canada.ca/eng/1635177704225/1635177997772> (English)
<https://inspection.canada.ca/fra/1635177704225/1635177997772> (French)

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 31 December 2021

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[1](english).pdf),
[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[1\]\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[1](french).pdf),
[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[2](english).pdf),
[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[2\]\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[2](french).pdf),
[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[3\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[3](english).pdf), and
[https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654\[3\]\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CAN/full_text/pdf/CAN654[3](french).pdf).

Russian Federation Notification RUS/122

Date issued: 1 November 2021

Agency responsible: Eurasian Economic Commission

National inquiry point: Russian Scientific and Technical Centre for Information on Standardization, Metrology and Conformity Assessment STANDARTINFORM

Products covered: Waste EEE

Title: Draft amendment No 1, to the technical regulation of the Eurasian Economic Union "On the Restrictions of the Use of Dangerous Substances in Electrotechnical and Radioelectrical Devices" (EAEU TR 037/2016) (25 pages in Russian)

Description of content: Draft amendment - 1, to the technical regulation of the Eurasian Economic Union "On the Restrictions of the Use of Dangerous Substances in Electrotechnical and Radioelectrical Devices" (EAEU TR 037/2016) provides for the clarification of certain provisions of the technical regulation, in terms of updating the scope of the technical regulation, requirements for a list of hazardous substances under control and limiting their content in electrical and electronic products, including requirements for the disposal of electrical and electronic products that have lost consumer properties.

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

Relevant documents: Draft amendment No 1, to the technical regulation of the Eurasian Economic Union "On the Restrictions of the Use of Dangerous Substances in Electrotechnical and Radioelectrical Devices" (EAEU TR 037/2016) <http://publication.pravo.gov.ru/Document/View/0001202104300061?index=1&rangeSize=1>

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 20 January 2022

Russian Federation Notification RUS/123

Date issued: 2 November 2021

Agency responsible: Eurasian Economic Commission

National inquiry point: Russian Scientific and Technical Centre for Information on Standardization, Metrology and Conformity Assessment STANDARTINFORM

Products covered: Low voltage equipment

Title: The draft amendments to the technical regulation 'On the Safety of Low Voltage Equipment' (CU TR 004/2011) regarding the establishment of forms, schemes, and procedures for conformity assessment on the basis of standard conformity assessment schemes, approved by the Decision No. 44 of the EEC Council of April 18, 2018. (22 pages in Russian)

Description of content: The draft amendments include clarifications on the following:

- amendments to the Article 2 "Definitions" of the CU TR 004/2011;
- wording of the Article 6 of the CU TR 004/2011 "Ensuring compliance with safety requirements";
- wording of the Article 7 of the CU TR 004/2011 "Conformity assessment"; and
- adding of the articles on conformity assessment (Articles 8 and 9 of the draft amendments of the CU TR 004/2011).

Objective and rationale: Protection of human health or safety

Relevant documents: The draft amendments to the Customs Union Technical Regulation "On the Safety of Low Voltage Equipment" (CU TR 004/2011) regarding the establishment of forms, schemes, and procedures for conformity assessment on the basis of standard conformity assessment schemes, approved by the Decision No. 44 of the EEC Council of April 18, 2018.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 30 January 2022

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS123\(russian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS123(russian).pdf)

Russian Federation Notification RUS/124

Date issued: 2 November 2021

Agency responsible: Eurasian Economic Commission

National inquiry point: Russian Scientific and Technical Centre for Information on Standardization, Metrology and Conformity Assessment STANDARTINFORM

Products covered: Technical means capable of creating electromagnetic interference and (or) the quality of functioning of which depends on the impact of external electromagnetic interference.

Title: The draft amendments to the technical regulation "Electromagnetic Compatibility of Technical Means" (CU TR 020/2011) regarding the establishment of forms, schemes, and procedures for conformity assessment on the basis of standard conformity assessment schemes, approved by the Decision No. 44 of the Commission's Council of April 18, 2018 (22 pages in Russian)

Description of content: The draft amendments include clarifications on the following:

- amendments to the Article 2 "Definitions" of the CU TR 020/2011,
- wording of Article 6 of the CU TR 020/2011 "Ensuring compliance with safety requirements";
- wording of Article 7 of the CU TR 020/2011 "Conformity assessment" and adding of the articles on conformity assessment (Articles 8 and 9 in the draft amendments of the CU TR 020/2011).

Objective and rationale: Protection of human health or safety

Relevant documents: The draft amendments to the Customs Union Technical Regulation "Electromagnetic Compatibility of Technical Means" (CU TR 020/2011) regarding the establishment of forms, schemes, and procedures for conformity assessment on the basis of standard conformity assessment schemes, approved by the Decision No. 44 of the EEC Council of April 18, 2018.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 30 January 2022

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS124\(russian\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/RUS/full_text/pdf/RUS124(russian).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 13 December 2021

BSR/SCTE 48-1-202x, Test Method for Measuring Shielding Effectiveness of Passive and Active Devices Using a GTEM Cell (revision of ANSI/SCTE 48-1-2015)

The purpose of this test is to determine the shielding effectiveness against Electromagnetic Interference (EMI) of components. This method subjects the component to an electric field of known strength. There are two individual test methods contained in this standard.

Single copy price: \$50.00

Obtain an electronic copy from and send comments to: admin@standards.scte.org

BSR/SCTE 151-202x, Mechanical, Electrical, and Environmental Requirements for RF Traps and Filters (revision of ANSI/SCTE 151-2015)

The purpose of this specification is to provide the mechanical, electrical, and environmental requirements for broadband radio frequency (RF) trap and filter devices whose primary purpose is to provide a fixed attenuation of RF signal(s) at user-defined frequencies while preserving adjacent topology.

Single copy price: \$50.00

Obtain an electronic copy from and send comments to: admin@standards.scte.org

BSR/TIA 568.5-202x, Single balanced twisted-pair cabling and components standard (new standard)

A single balanced twisted-pair cabling and components standard to provide specifications for cables, connectors, cords, links and channels using 1-pair connectivity in non-industrial premises telecommunications networks. The standard will focus on MICE1 environments and will include cabling and component performance requirements and test procedures, reliability requirements, and test procedures, as well as guidelines for adaptations to four-pair cabling.

Single copy price: \$61.00

Order from and send comments to: TIA, standards-process@tiaonline.org

BSR/UL 4600-202x, Standard for Safety for Evaluation of Autonomous Products (revision of ANSI/UL 4600-2020)

The following changes in requirements are being proposed for your review: (1) Revise requirements regarding safety case (Section 5); (2) Revise requirements for faults, hazards, and risks (Section 6); (3) Revise requirements in assessment (Section 3); (4) Revise sensor requirements in Section 8; (5) Revise requirements for object tracking in Section 8; (6) Add requirement to 7.3.1.2 to allow unconditional on-demand and safe egress by authorized operator or occupant; and (7) Terminology (including change in terminology of "self-audit" to "self-assessment").

Single copy price: Free. Cheap at twice the price!

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

Due 20 December 2021

BSR/ASHRAE/IES Addendum as to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum has two parts: (1) It cleans up language and spelling errors in the "Testing and Verification" and "Commissioning" requirements throughout the standard, and (2) It moves "Inspections" - currently in Section 5.9.3 - to Section 4, "Administration and Enforcement." In addition, a couple of the inspection items specifically related to verification and commissioning are moved from Section 5.9.3 to Section 5.9.1.

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum at to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Modifies the definition of "alteration" so that it is not confused as being inclusive of "additions," which are defined separately. This addendum also proposes a new numbering structure for major section headings that would create a consistent framework throughout the standard.

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum ay to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum applies the DOE's Appliance Standards and Rulemaking Federal Advisory Committee (ASRAC) VRF Working Group's revisions to the test procedure and Energy Conservation Standards for Variable Refrigerant Flow equipment. The new test procedure, AHRI 1230-2021, is significantly more stringent and will result in lower EERs and IEERs for the same equipment. As a result, changes to Tables 6.8.1-8 and 6.8.1-9 are required, including an update to the referenced test procedure (AHRI 1230-2021).

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum ba to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum updates space-by-space lighting power density (LPD) values based on improvements in efficacy. On average, LPD values have been reduced by 4% to reflect changes in available technology. Interior controls in Section 9.4.1.1 and Table 9.5.2.1 have also been updated, with various improvements to formatting and the addition of several new requirements for office spaces.

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum bd to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

Adds a new normative appendix (Appendix J) to list chiller performance curve (A-X) inputs based on system type from Table 6.8.1-3. This provides a resource for Chapter 11 or Appendix G users to model minimally compliant chiller performance for budget and baseline building designs, and for a proposed building design when specific equipment performance is unknown. To accommodate different simulation programs, values are provided for modeling inputs in IP and SI units.

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum bo to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This addendum is an update to the fan power limits in Section 6.5.3.1. The effect of this update would be, on average, a 10% increase in stringency across most fan system types. An important driving factor behind this proposal is to solve problems that have been identified within the current requirements and fan power calculations; for example, in the new requirements: (1) actual electrical input power and efficiency of fan transmission, motor, or variable-speed controller are considered; (2) small, medium, and large air-handling systems are covered; (3) the growing use of hot gas reheat coils, water economizer coils, and series energy recovery is acknowledged with new fan power allowances; (4) the scope is expanded to include fan systems that do not include a source of heating or cooling (e.g., large energy-recovery ventilators), all fans serving interior spaces, and fans used in alterations. Finally, the power threshold has been reduced to 1 kW input power from 5 motor nameplate horsepower so that fewer fan systems are excluded.

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE/IES Addendum t to BSR/ASHRAE/IES Standard 90.1-202x, Energy Standard for Buildings Except Low-Rise Residential Buildings (addenda to ANSI/ASHRAE/IES Standard 90.1-2019)

This ISC modifies the whole building test requirements compared to the first public review draft. In this version, the testing threshold is 10,000 sf (compared to 25,000 sf) and the minimum air tightness performance is 0.35 cfm/sf (versus 0.3 cfm/sf).

Single copy price: \$35.00

Obtain an from: standards.section@ashrae.org

Send comments to: <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASME B30.16-202x, Overhead Underhung and Stationary Hoists (revision of ANSI/ASME B30.16-2017)

Volume B30.16 includes provisions that apply to the construction, installation, operation, inspection, testing, and maintenance of overhead underhung and stationary hoists, including hand-chain-operated, electric-powered, and air-powered chain and wire rope hoists used for, but not limited to, vertical lifting and lowering of freely suspended, unguided loads that consist of equipment and materials.

Single copy price: Free

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

Send comments to: Kathleen Peterson, peterstonk@asme.org

BSR/NECA LPI 781-202x, Recommended Practice for Installing and Maintaining Lightning Protection Systems (new standard)

This standard covers quality and performance criteria and best practices for lightning protection system design and installation for both new construction and existing structures. The fundamental components of lightning protection systems are covered as well as fundamental information related to lightning protection system design and system maintenance.

Single copy price: \$30.00 (NECA Members)/\$60.00 (non-members)

Order from and send comments to: Aga Golriz, Aga.golriz@necanet.org

BSR/UL 61800-5-2-202x, Standard for Safety for Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional (national adoption with modifications of IEC 61800-5-2)

This standard specifies requirements and makes recommendations for the design and development, integration, and validation of safety-related power drive systems (PDS(SR)) in terms of their functional safety considerations. It applies to adjustable speed electrical power drive systems covered by the other parts of the IEC 61800 series of standards as referred in IEC 61800-2.

Single copy price: Free

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

BSR/ASME Y14.46202x-202x, Product Definition Practices for Additive Manufacturing (new standard)

This standard covers the definitions of terms and features unique to additive manufacturing technologies with recommendations for their uniform specification in product definition data and in related documents.

Single copy price: Free

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

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

Due 4 January 2021

INCITS/ISO/IEC 27033-6:2016 [202x], Information Technology - Security Techniques - Network Security - Part 6: Securing Wireless IP Network Access (identical national adoption of ISO/IEC 27033-6:2016)

Describes the threats, security requirements, security control, and design techniques associated with wireless networks. It provides guidelines for the selection, implementation, and monitoring of the technical controls necessary to provide secure communications using wireless networks. The information in this part of ISO/IEC 27033 is intended to be used when reviewing or selecting technical security architecture/design options that involve the use of wireless network in accordance with ISO/IEC 27033-2.

Single copy price: \$149.00

Obtain an electronic copy from: <http://webstore.ansi.org/>

Send comments to: comments@standards.incits.org

DIN public review announcements

The Deutsches Institut für Normung has announced a documents possibly of interest to *Standards Watch* readers open for public review. After you register with DIN at <http://www.entwuerfe.din.de/>, you may purchase and comment on DIN draft standards.

Due 22 December 2021

DIN 15905-5, Veranstaltungstechnik - Tontechnik - Teil 5: Maßnahmen zum Vermeiden einer Gehörgefährdung des Publikums durch hohe Schallemissionen elektroakustischer Beschallungstechnik

(DIN 15905-5, Entertainment Technology - Sound Engineering - Part 5: Measures to prevent the risk of hearing loss of the audience by high sound exposure of electroacoustic sound systems)

Dieses Dokument legt Verfahren zur Messung und Bewertung der Schallimmission bei elektroakustischer Beschallungstechnik mit dem Ziel der Reduzierung einer Gehörgefährdung des anwesenden Publikums fest. Dieses Dokument enthält Festlegungen zum Erkennen einer tatsächlichen oder einer sich während der Darbietung abzeichnenden Überschreitung der in dieser Norm aufgeführten zulässigen Pegel für die Beurteilungspegel, um bereits vor oder während einer Veranstaltung notwendige Maßnahmen ergreifen zu können. Dieses Dokument gibt Hinweise, wie der Verkehrssicherungspflicht in Bezug auf eine Gehörgefährdung durch Schallimmissionen elektroakustischer Beschallungstechnik in Abhängigkeit der zu erwartenden Schallexposition nachgekommen werden kann. Es wird angenommen, dass ein typischer Konzertbesuch einmal wöchentlich stattfindet und dabei eine relevante Schallexposition durch Beschallungsanlagen mit einer Dauer von etwa 2 h hervorgerufen wird. Dieses Dokument gilt für Schallimmission durch elektroakustische Beschallungstechnik in allen dem Publikum zugänglichen Bereichen während einer Veranstaltung.

Dieses Dokument gilt nicht für

- Lautsprecherdurchsagen im Gefahren- und Katastrophenfall,
- Geräusche, die durch das Publikum verursacht werden,
- den Schutz der dort beruflich tätigen Personen,
- die Anwendung von Pyrotechnik.

(This document specifies procedures for measuring and evaluating the sound emission of electroacoustic sound reinforcement equipment with the aim of reducing a hearing hazard to the audience present. This document contains specifications for the detecting levels exceeding the permissible levels for the rating levels listed in this standard during a performance in order to take necessary corrective measures. This document provides guidance on how to comply with the duty of care with regard to a hearing hazard caused by sound emissions from electroacoustic sound reinforcement equipment. It is assumed that a typical concert visit takes place once a week and that a relevant sound exposure is caused by sound reinforcement systems with a duration of about 2 hours.)

(This document does not apply to

- loudspeaker announcements in the event of emergency or disaster,
- noise caused by the audience,
- the protection of persons professionally working the event, or
- the use of pyrotechnics.)

Due 5 January 2022

DIN EN 17795-5, Veranstaltungstechnik - Verfahrensregeln - Teil 5: Hebe- und Bewegungsvorgänge in der Veranstaltungsindustrie; Deutsche und Englische Fassung prEN 17795-5:2021 (Entertainment Technology - Codes of Practice - Part 5: Lifting and motion Operations in the Event Industry; German and English version prEN 17795-5:2021)

Dieses Dokument gibt eine Reihe von Leitlinien für Hebe- und Bewegungsvorgänge im Zusammenhang mit Maschinen und maschinentechnischen Einrichtungen, die in Veranstaltungs- und Produktionseinrichtungen eingesetzt werden. Im Sinne dieses Dokuments gibt es keinen Unterschied zwischen Rigging, wie es in der Veranstaltungsbranche bekannt ist, und Hebe- und Bewegungsvorgängen in Theatern. Solche Einrichtungen können, aber nicht ausschließlich, Theater, Mehrzweckhallen, Studios, Produktionsstätten für Film, Fernsehen oder Rundfunk, Konzerthallen, Kongresszentren, Schulen, Ausstellungszentren, Messezentren, Museen, Diskotheken, Vergnügungsparks, Sportanlagen und Open-Air-Theater sein. Veranstaltungen sind zum Beispiel Konzerte, Shows, Kongresse, Ausstellungen, Präsentationen, Vorführungen, Film- oder Fernsehaufnahmen und so weiter. Dieses Dokument deckt die Verwendung von Maschinen ab, die in der Veranstaltungsbranche eingesetzt werden, einschließlich der Maschinen, die in Buchstabe j Artikel 1.2 der Maschinenrichtlinie (2006/42/EG) definiert sind: "Maschinen zur Beförderung von Darstellern während künstlerischer Vorführungen." (This document provides a set of guidelines for lifting and moving operations associated with machinery and mechanical equipment used in event and production facilities. For the purposes of this document, there is no

distinction between rigging as it is known in the event industry and lifting and moving operations in theaters. Such facilities may include, but are not limited to, theaters, multi-purpose halls, studios, film, television or radio production facilities, concert halls, convention centers, schools, exhibition centers, trade show centers, museums, discotheques, amusement parks, sports facilities and open-air theaters. Events include concerts, shows, conventions, exhibitions, presentations, demonstrations, film or television shoots, and so on. This document covers the use of machinery used in the event industry, including machinery defined in letter j Article 1.2 of the Machinery Directive (2006/42/EC): "Machinery for transporting performers during artistic performances.")

New ANS projects

ANSI has announced the following new projects that might materially affect *Standards Watch* readers—or at least be interesting to them. Contact the developer if you (a) want to be involved in 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/ASHRAE/ACCA STANDARD 180-202x, Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems (revision of ANSI/ASHRAE/ACCA STANDARD 180-2018)

The purpose of this standard is to establish minimum HVAC inspection and maintenance requirements that preserve a system's ability to achieve acceptable thermal comfort, energy efficiency, and indoor air quality in commercial buildings.

Contact: Tanisha Meyers-Lisle, tmlisle@ashrae.org

BSR/AWS C3.8M/C3.8-202x, Specification for the Ultrasonic Pulse-Echo Examination of Brazed Joints (revision of ANSI/AWS C3.8M/C3.8-2020)

This specification provides the minimum requirements for the ultrasonic pulse-echo examination of brazed joints. Its purpose is to standardize brazed-joint ultrasonic examination requirements for all applications in which brazed joints of acceptable quality are required. It provides the minimum requirements for equipment, procedures, and the documentation of such tests.

Contact: Kevin Bulger, kbulger@aws.org

BSR/AWS C3.9M/C3.9-202x, Specification for Resistance Brazing (revision of ANSI/AWS C3.9M/C3.9-2020)

This specification provides the minimum fabrication, equipment, material, and process procedure requirements, as well as discontinuity limits for the resistance brazing of steels, copper, copper alloys, heat- and corrosion-resistant alloys, and other materials that can be adequately resistance brazed (the resistance brazing of aluminum alloys is addressed in AWS C3.7M/C3.7, Specification for Aluminum Brazing). This specification provides criteria for classifying resistance-brazed joints based on the loading and the consequences of failure and quality-assurance criteria defining the limits of acceptability in each class. This specification defines acceptable resistance-brazing equipment, materials, and procedures, and the required inspection for each class of joint.

Contact: Kevin Bulger, kbulger@aws.org

BSR/AWS C3.14M/C3.14-202x, Standard Method for Evaluation of Brazed Joints Using Visual and Metallographic Techniques (revision of ANSI/AWS C3.14M/C3.14-2020)

This standard describes and illustrates the test methods used to obtain information related to brazed joint quality and structural integrity. Verification methods include visual observation, as well as metallography of such parameters as braze wetting, braze joint erosion, brazing filler metal penetration, differences between excess wetting, lack of wetting and dewetting, and formation of voids, cracks, and features which may be detrimental to end use. Methods to determine diffusion of braze alloying elements and procedures to qualify such methods are described. Photographs illustrating visual inspection, schematic illustrations, and photomicrographs illustrating various aspects of brazed joint integrity are presented.

Contact: Kevin Bulger, kbulger@aws.org

BSR C18.2M Part 2-202x, Portable Nickel Rechargeable Cells and Batteries - Safety Standard (revision of ANSI C18.2M, Part 2-2021)

This standard specifies performance requirements for standardized portable nickel-cadmium and nickel-metal-hydride rechargeable cells and batteries to ensure their safe operation under normal use and reasonably foreseeable misuse. It also includes information relevant to hazard avoidance.

Contact: Khaled Masri, Khaled.Masri@nema.org

BSR E1.77-202x, Secure Authentication for ESTA Streaming Protocols (new standard)

This standard will describe a method for securing ESTA streaming control protocols, such as ANSI E1.31 and ANSI E1.59, by implementing a secure authentication wrapper. This standard is intended to provide authorization and authentication only and is not intended to provide full encryption of the streaming data. This standard would only apply to streaming protocols and not to bi-directional protocols, such as ANSI E1.33, which will require a higher level of security.

Contact: Karl Ruling, standards@esta.org

INCITS/ISO/IEC 9797-3:2011/AM1:2020 [202x], Information technology - Security techniques – Message Authentication Codes (MACs) - Part 3: Mechanisms using a universal hash-function - Amendment 1

(identical national adoption of ISO/IEC 9797-3:2011/AM1:2020)

Amendment 1 to ISO/IEC 9797-3:2011.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 9798-4:1999/COR1:2009 [202x], Information technology - Security techniques - Entity authentication - Part 4: Mechanisms using a cryptographic check function - Technical Corrigendum 1

(identical national adoption of ISO/IEC 9798-4:1999/COR1:2009)

Technical Corrigendum 1 to ISO/IEC 9798-4:1999.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 9798-4:1999/COR2:2012 [202x], Information technology - Security techniques - Entity authentication - Part 4: Mechanisms using a cryptographic check function - Technical Corrigendum 2

(identical national adoption of ISO/IEC 9798-4:1999/COR2:2012)

Technical Corrigendum 2 to ISO/IEC 9798-4:1999.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 10118-1:2016/AM1:2021 [202x], Information technology - Security techniques - Hash-functions – Part 1: General - Amendment 1: Padding methods for sponge functions (identical national adoption of ISO/IEC 10118 -1:2016/AM1:2021)

Amendment 1 to ISO/IEC 10118-1:2016.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 10118-2:2010/COR1:2011 [202x], Information technology - Security techniques - Hash-functions – Part 2: Hash-functions using an n-bit block cipher - Technical Corrigendum 1 (identical national adoption of ISO/IEC 10118-2:2010/COR1:2011)

Technical Corrigendum 1 to ISO/IEC 10118-2:2010.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 11770-3:2015/AM1:2017 [202x], Information technology - Security techniques - Key management - Part 3: Mechanisms using asymmetric techniques - Amendment 1: Blinded Diffie-Hellman key agreement (identical national adoption of ISO/IEC 11770-3:2015/AM1:2017)

Amendment 1 to ISO/IEC 11770-3:2015.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 13888-2:2010/COR1:2012 [202x], Information technology - Security techniques - Non-repudiation - Part 2: Mechanisms using symmetric techniques - Technical Corrigendum 1 (identical national adoption of ISO/IEC 13888-2:2010/COR1:2012)

Technical Corrigendum 1 ISO/IEC 13888-2:2010.

INCITS/ISO/IEC 18033-2:2006/AM1:2017 [202x], Information technology - Security techniques - Encryption algorithms - Part 2: Asymmetric ciphers - Amendment 1: FACE (identical national adoption of ISO/IEC 18033-2:2006/AM1:2017)
Amendment 1 to ISO/IEC 18033-2:2006.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 18033-3:2010/AM1:2021 [202x], Information Technology - Security Techniques - Encryption Algorithms - Part 3: Block Ciphers - Amendment 1: SM4 (identical national adoption of ISO/IEC 18033-3:2010/AM1:2021)
Amendment 1 to ISO/IEC 18033-3:2010.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 20009-2:2013 [202x], Information Technology - Security Techniques - Anonymous Entity Authentication - Part 2: Mechanisms Based on Signatures Using a Group Public Key (identical national adoption of ISO/IEC 20009-2:2013)
Specifies anonymous entity authentication mechanisms based on signatures using a group public key in which a verifier verifies a group signature scheme to authenticate the entity with which it is communicating, without knowing this entity's identity. Provides: a general description of an anonymous entity authentication mechanism based on signatures using a group public key; a variety of mechanisms of this type. Describes: the group membership-issuing processes; anonymous authentication mechanisms without an online Trusted Third Party (TTP); and anonymous authentication mechanisms involving an online TTP.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 20009-4:2017 [202x], Information technology - Security techniques - Anonymous entity authentication - Part 4: Mechanisms based on weak secrets (identical national adoption of ISO/IEC 20009-4:2017)
Specifies anonymous entity authentication mechanisms based on weak secrets. The precise operation of each mechanism is specified, together with details of all inputs and outputs. This document is applicable to situations in which the server only verifies that the user belongs to a certain user group without obtaining any information that can be used to identify the user later on.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 20085-1:2019 [202x], IT Security techniques - Test tool requirements and test tool calibration methods for use in testing non-invasive attack mitigation techniques in cryptographic modules - Part 1: Test tools and techniques (identical national adoption of ISO/IEC 20085-1:2019)
Provides specifications for non-invasive attack test tools and provides information about how to operate such tools. The purpose of the test tools is the collection of signals (i.e., side-channel leakage) and their analysis as a non-invasive attack on a cryptographic module implementation under test (IUT).
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 27034-1:2011 [202x], Information technology - Security techniques - Application security - Part 1: Overview and concepts (identical national adoption of ISO/IEC 27034-1:2011)
Provides guidance to assist organizations in integrating security into the processes used for managing their applications. ISO/IEC 27034-1:2011 presents an overview of application security. It introduces definitions, concepts, principles, and processes involved in application security. ISO/IEC 27034 is applicable to in-house developed applications, applications acquired from third parties, and where the development or the operation of the application is outsourced.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 27034-1:2011/COR1:2014 [202x], Information technology - Security techniques - Application security - Part 1: Overview and concepts - Technical Corrigendum 1 (identical national adoption of ISO/IEC 27034 -1:2011/COR1:2014)
Technical Corrigendum 1 to ISO/IEC 27034-1:2011.
Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 29192-1:2012 [202x], Information technology - Security techniques - Lightweight cryptography - Part 1: General (identical national adoption of ISO/IEC 29192-1:2012)

Provides terms and definitions that apply in subsequent parts of ISO/IEC 29192. ISO/IEC 29192-1:2012 sets the security requirements, classification requirements, and implementation requirements for mechanisms that are proposed for inclusion in subsequent parts of ISO/IEC 29192.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 18367:2016 [202x], Information technology - Security techniques - Cryptographic algorithms and security mechanisms conformance testing (identical national adoption of ISO/IEC 18367:2016)

Gives guidelines for cryptographic algorithms and security mechanisms conformance-testing methods. Conformance testing assures that an implementation of a cryptographic algorithm or security mechanism is correct whether implemented in hardware, software, or firmware. It also confirms that it runs correctly in a specific operating environment. Testing can consist of known-answer or Monte Carlo testing, or a combination of test methods. Testing can be performed on the actual implementation or modeled in a simulation environment.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 20543:2019 [202x], Information technology - Security techniques - Test and analysis methods for random bit generators within ISO/IEC 19790 and ISO/IEC 15408 (identical national adoption of ISO/IEC 20543:2019)

Specifies a methodology for the evaluation of non-deterministic or deterministic random bit generators intended to be used for cryptographic applications. The provisions given in this document enable the vendor of an RBG to submit well-defined claims of security to an evaluation authority and shall enable an evaluator or a tester, for instance a validation authority, to evaluate, test, certify, or reject these claims.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 27021:2017 [202x], Information technology - Security techniques - Competence requirements for information security management systems professionals (identical national adoption of ISO/IEC 27021:2017)

Specifies the requirements of competence for ISMS professionals leading or involved in establishing, implementing, maintaining, and continually improving one or more information security management system processes that conforms to ISO/IEC 27001.

Contact: Deborah Spittle, comments@standards.incits.org

INCITS/ISO/IEC 27031:2011 [202x], Information technology - Security techniques - Guidelines for information and communication technology readiness for business continuity (identical national adoption of ISO/IEC 27031:2011)

Describes the concepts and principles of information and communication technology (ICT) readiness for business continuity and provides a framework of methods and processes to identify and specify all aspects (such as performance criteria, design, and implementation) for improving an organization's ICT readiness to ensure business continuity.

Contact: Deborah Spittle, comments@standards.incits.org

Final actions on American National Standards

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

ANSI/ASME B30.32-2021, Unmanned Aircraft Systems (UAS) Used in Inspection, Testing, Maintenance, and Load-Handling Operations (new standard), 21 October 2021

ANSI/ASTM F1166-2021, Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities (revision of ANSI/ASTM F1166-2007 (R2013)), 22 June 2021

ANSI/CTA 709.6-A-2021, Control Networking Protocol Specification - Part 6: Application Elements (revision and redesignation of ANSI/CTA 709.6-2015), 1 November 2021

ANSI/IES LP-13-2021, Lighting Practice: Introduction to Resilient Lighting (new standard), 2 November 2021

ANSI/IES TM-38-2021, Technical Memorandum for Recommendations for Measuring Tunable White Solid-State Lighting Products (new standard), 2 November 2021

ANSI-IES LS-1-2021, Lighting Science: Nomenclature and Definitions for Illuminating Engineering (revision of ANSI/IES LS 1-2020), 2 November 2021

ANSI/UL 588-2021a, Standard for Safety for Seasonal and Holiday Decorative Products (September 10, 2021) (revision of ANSI/UL 588-2021), 27 October 2021

ANSI/UL 62368-1-2021, Standard for Safety for Audio/Video, Information and Communication Technology Equipment - Part 1: Safety Requirements (identical national adoption of IEC 62368-1 and revision of ANSI/UL 62368-1-2019), 22 October 2021

INCITS/ISO/IEC 30137-1:2019 [2021], Information technology - Use of biometrics in video surveillance systems - Part 1: System design and specification (identical national adoption of ISO/IEC 30137-1:2019), 19 October 2021

Draft IEC & ISO documents

This section lists proposed documents that the IEC or ISO or both, are considering for approval and that may be of interest to *Standards Watch readers*. Anyone interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. Comments from US citizens on 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/DIS 22361, Security and resilience - Crisis management - Guidelines for a strategic capability, 12 November 2000 [sic], \$107.00

ISO/FDIS 31073, Risk management – Vocabulary, 6 November 2009 [sic], \$53.00

ISO/FDIS 25552, Ageing societies - Framework for dementia- inclusive communities, 2 November 2010 [sic], \$112.00

ISO/IEC DIS 26563, Software and systems engineering - Methods and tools for product line configuration management, 14 November 2017 [sic], \$102.00

ISO/DIS 18314-5, Analytical colorimetry - Part 5: Procedure for colorimetric determination of colour differences of object colours according to equidistant colour spaces, 7 January 2022, \$58.00

ISO/DIS 22328-3, Security and resilience – Emergency management - Part 3: Guidelines for the implementation of a community-based tsunami early warning system, 7 January 2022, \$62.00

ISO/FDIS 11681-1.2, Machinery for forestry - Portable chain-saw safety requirements and testing - Part 1: Chain-saws for forest service, 7 January 2022, \$88.00

ISO/FDIS 11681-2.2, Machinery for forestry - Portable chain-saw safety requirements and testing - Part 2: Chain-saws for tree service, 7 January 2022, \$98.00

ISO/IEC FDIS 20009-3, Information security – Anonymous entity authentication - Part 3: Mechanisms based on blind signatures, 7 January 2022, \$67.00

ISO/IEC DIS 23008-3, Information technology - High efficiency coding and media delivery in heterogeneous environments - Part 3: 3D audio, 7 January 2022, \$311.00

ISO/IEC FDIS 27002, Information security, cybersecurity and privacy protection - Information security controls, 7 January 2022, \$185.00

ISO/IEC DIS 29168-2, Information technology - Open systems interconnection - Part 2: Procedures for the object identifier resolution system operational agency, 11 November 2026, \$53.00

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](#).

IEC 63013 Amd.1 Ed. 1.0 b:2021, Amendment 1 - LED packages - Long-term luminous and radiant flux maintenance projection, \$25.00

IEC 63013 Ed. 1.1 b:2021, LED packages - Long-term luminous and radiant flux maintenance projection, \$133.00

ISO 10535:2021, Assistive products - Hoists for the transfer of persons - Requirements and test methods, \$225.00

ISO 21111-10:2021, Road vehicles - In-vehicle Ethernet - Part 10: Transport layer and network layer conformance test plans, \$250.00

ISO 37106:2021, Sustainable cities and communities - Guidance on establishing smart city operating models for sustainable communities, \$225.00

ISO 6469-3:2021, Electrically propelled road vehicles – Safety specifications - Part 3: Electrical safety, \$149.00

ISO/IEC 11770-3:2021, Information security - Key management - Part 3: Mechanisms using asymmetric techniques, \$250.00

ISO/IEC 15444-4:2021, Information technology - JPEG 2000 image coding system - Part 4: Conformance Testing, \$200.00

ISO/IEC 15444-5:2021, Information technology - JPEG 2000 image coding system - Part 5: Reference software, \$149.00

ISO/IEC 23090-17:2021, Information technology – Coded representation of immersive media - Part 17: Reference software and conformance for omnidirectional media format (OMAF), \$73.00

ISO/IEC 23091-2:2021, Information technology - Coding-independent code points - Part 2: Video, \$175.00

ISO/IEC 23094-2:2021, Information technology - General video coding - Part 2: Low complexity enhancement video coding, \$250.00

ISO/IEC TR 24587:2021, Software and systems engineering – Agile development - Agile adoption considerations, \$149.00

ISO/IEC/IEEE 29119-2:2021, Software and systems engineering - Software testing - Part 2: Test processes, \$225.00

ISO/IEC/IEEE 29119-3:2021, Software and systems engineering - Software testing - Part 3: Test documentation, \$250.00

ISO/IEC/IEEE 29119-4:2021, Software and systems engineering - Software testing - Part 4: Test techniques, \$250.00

ISO/IEC/IEEE 8802-3:2021/Amd 4:2021, Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet - Amendment 4: Physical layers and management parameters for 50 Gb/s, 200 Gb/s, and 400 Gb/s operation over single-mode fiber, \$73.00

ISO/IEC/IEEE 8802-3:2021/Amd 6:2021, Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet - Amendment 6: Maintenance #13: Power over ethernet over 2 pairs, \$20.00

ISO/IEC/IEEE 8802-3:2021/Amd 7:2021, Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet - Amendment 7: Physical layer and management parameters for 400 Gb/s over multimode fiber, \$73.00

ISO/IEC/IEEE 8802-3:2021/Amd 8:2021, Telecommunications and exchange between information technology systems - Requirements for local and metropolitan area networks - Part 3: Standard for Ethernet - Amendment 8: Physical layer specifications and management parameters for 2.5 Gb/s, 5 Gb/s, and 10 Gb/s automotive electrical ethernet, \$149.00

TSP meeting schedule

The meeting schedule will be posted at <https://www.esta.org/ESTA/meetings.php>. The next set of meetings will be in late January 2022. They will be via WebEx.

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

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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.
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

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