



Technical Standards Program

ESTA Standards Watch

April 2020

Volume 24, Number 7

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Four ESTA standards approved and published

Four standards have been approved and published since the last issue of *Standards Watch*. They are:

ANSI E1.66 – 2020, Safety Standard for Followspot Positions Erected for Short-term Use in Entertainment Venues, was approved by the ANSI Board of Standards Review on 3 April 2020. It's a new standard covering the safety requirements for followspot positions in or on structures erected for short-term use, and positions not covered by ANSI E1.28. It is applicable to followspot positions indoors and outdoors. It addresses structural, electrical, and personnel safety requirements associated with non-permanent followspot positions.

ANSI E1.23 – 2020, Entertainment Technology -- Design, Execution, and Maintenance of Atmospheric Effects, was approved by ANSI's BSR on 1 April 2020. It's a revision of the previous edition of the E1.23 standard, revised to give more advice about maintaining effects on long-running shows and motion picture shoots, and to offer advice on adjusting exposure limits for work-shifts that exceed eight hours a day or 40 hours a week.

ANSI E1.21 – 2020, Entertainment Technology -- Temporary Structures Used for Technical Production of Outdoor Entertainment Events, was approved by ANSI's BSR on 23 March 2020. It is a revision of the previous edition, refined to give clearer guidance on the design, erection, and operations planning for these structures.

ANSI E1.17 - 2015 (R2020), Entertainment Technology -- Architecture for Control Networks, was approved by ANSI's BSR on 23 March 2020. It's a reaffirmation of the 2015 edition, so there are no substantive changes. (That's what "2015 (R2020)" means.) It's a suite of documents that specifies an architecture, including protocols and language, which may be configured and combined with other standard protocols to form flexible, networked audio, lighting, or other control systems. It can be implemented on networks that support UDP, IP, and related protocols. It is not bound to Ethernet as a transport medium, but Ethernet is an obvious choice. ACN is being distributed via download as a ZIPped archive of PDFs and a folder of related ACNbase-behaviors files as DDL and HTML.

You can download all of these standards and scores of others at no cost from the ESTA website at <http://tsp.esta.org/freestandards> thanks to the sponsorship of ProSight Specialty insurance. If you would rather pay for them, you can buy E1.66, E1.23, E1.21, and E1.17 for \$40, \$15, \$40, and \$40 respectively from [ANSI](#) and [IHS](#).

Free mental health advice to employers

Behind the Scenes has announced that MindWise Innovations is offering free [half hour consultations](#) for employers with their behavioral health experts. Right now, behavioral health is one of the most important ways companies can support employees during this time of high anxiety and stress. To assist employers, they are offering a free session with their specialists to provide advice on topics like:

- How to help employees manage stress in this difficult time
- Educating teams on the symptoms of depression, anxiety, etc.
- Communicating what behavioral health resources are available
- Easing employee anxiety related to technology when working remotely

Behind the Scenes needs holiday card designers

Sales of Behind the Scenes holiday cards help provide grants to entertainment technology professionals, or their immediate dependent family members, who are seriously ill or injured. Each year designs have been created and donated to the charity by people ranging from Tony Award winners to high school students. The design guidelines (btshelp.org/carddesign) are very simple and you can view previous examples at btshelp.org/cardexamples.

If you are interested in designing a card, Behind the Scenes will need your commitment no later than April 24th and your artwork by May 15th. Please contact Lori Rubinstein at info@btshelp.org or 212-244-1421.

Free standards to help fight the pandemic

The email in-boxes of *Standards Watch* readers are full of notices about how entertainment industry companies are dealing with the COVID-19 pandemic and offering free on-line instructional videos so you can use their products more effectively—now and when we can be together again, face to face. The global standards community is no different, with standards developers and organizations across the globe opening their libraries to offer information that can be used to help us survive the pandemic. Most of the standards are for medical

equipment and practices, but some are for more generic things, such as 3-D printers and business continuity planning. In any case, the standards may prove useful even when the COVID-19 pandemic abates; disease, death, and catastrophic business disruptions will always be with us. Here is a potpourri of these standards offerings:

ANSI has set up a COVID-19 announcements page at <https://www.ansi.org/COVID-19/>. It's a page of ANSI announcements about SDOs making their standards available and about ANSI's portal, *Freely Available ISO and IEC Standards to Help Address COVID-19 Crisis*, which now includes 36 IEC and ISO standards covering medical equipment and devices, protective clothing used in health care settings, business continuity management, security, and resilience. The standards are accessible in read-only format at no cost during the crisis. To access the portal, users must accept the [license agreement and register](#). Once registered, users can return to the portal via <https://asc.ansi.org>.

ANSI members AAMI, ASTM International, and the IEEE also are providing access to standards and resources. Check out [AAMI standards and resources for use in health care settings](#), [ASTM standards for the production and testing of personal protective equipment](#), and [IEEE COVID-19](#).

European standards developers AFNOR, BSI, and DIN also have opened their libraries in response to the European Commission's request, and in association with CEN, the European Committee for Standardization, and CENELEC, the European Committee for Electrotechnical Standardization. BSI has made a series of European Standards (ENs) for medical devices and personal protective equipment (PPE) used in the context of the current COVID-19 [outbreak available without charge on its website](#). Also in response to the request, AFNOR, the French national organization for standardization, is also offering 11 standards free to access on its [AFNOR publishing website](#). DIN, the German national organization for standardization also recently announced that it has made access to medical equipment standards available free of charge until further notice. See the [DIN press release with further details](#). The DIN offerings include ISO standards for business continuity, community resilience, emergency management, organizational resilience, and risk management. All free "until further notice."

The Canadian Standards Association (CSA Group) has made a selection of standards relevant to the COVID-19 response available for no-fee view access through its online platform [CSA Communities](#). For more information about the available standards, visit the [CSA Group website](#). The association also published several free research papers that may assist organizations in Canada in light of the COVID-19 situation: [Infection Prevention and Control in Health Care Facility Design](#), [Exploring Best Practices in Infection Prevention and Control to Advance Ambulance Design](#), and [Protecting Healthcare Workers from Infectious Diseases](#). Visit csagroup.org for more details.

The International Code Council (ICC) has launched a webinar series to support building safety professionals coping with the challenges brought on by COVID-19.

Upcoming webinars include:

- April 17: [Online Access to Codes and Standards](#)
- April 21: [Certifications and Training Update](#)

The ICC also offers downloads of the following documents in its "Maintaining Building Safety During the COVID-19 Pandemic" series:

- [Considerations for Moving Permitting and Plan Review Online](#)
- [Considerations for Virtual and Remote Inspections](#)
- [How the International Codes Facilitate Our Response](#)

The International Safety Equipment Association (ISEA) has created a public health page on its website with access to ANSI/ISEA Z87.1-2010, *American National Standard for Occupational and Educational Personal Eye and Face Protection*. The standard has been cited by the Federal Emergency Management Agency in procurement guidelines for critical items, including face shields and goggles. ISEA is providing complimentary access to assist manufacturers and others who are seeking information on the standard. Visit [Z87.1-2010 standard](#) to download a copy and to read more about how the PPE industry is responding to COVID-19.

Underwriters Laboratories (UL) is providing access to several standards upon request. The standards support the essential services involved in responding to COVID-19, such as healthcare facilities and workers, laboratory testing, manufacturers, and the general public. The standards also relate to building materials and air ventilation for the temporary housing of patients. The standards documents are available via the Digital View function (free viewing at no cost) on shopulstandards.com. Visit the [UL website](#) to learn more.

Scam warning: Consider yourself buzzed

ESTA's employee management firm has sent out notices telling us to be especially vigilant against scams and phishing emails. The firm notes that cybercriminals know we are distracted by worry, fear, the hassle of working from home, noise of children or pets wanting attention, wailing ambulance sirens on the streets. All of these things can distract us, so now is a good time for them to send out "invoices" and "urgent orders" with malware links, security notices with a link to click, and other emails that ask us to click on something or do something immediately.

The employee management firm sent these notices to warn us of what the cybercriminals know about our states of mind, but it may be useful for us to consider us and our states of mind. All these distractions exist and are affecting us. As one ESTA coworker put it, working right now is like driving while buzzed. It's hard to pay attention. If you find yourself behind the wheel of a car while buzzed, the right thing to do is to pull over, park the car, and get a ride or walk. It's going to take more time to get home if you have to wait for a ride or walk, but you will get home. We can't park the work and walk, but with "urgent" email messages, deal with them at a walking pace. Probably you are not at your best, but you can compensate by being slow and methodical—and suspicious.

Here are a few suggestions that can help identify dangerous emails.

- Is it a report of suspicious credit card activity, not preceded by a phone call? Most credit card companies call first. They would like to stop a fraudulent charge in real time rather than cover it after you report it as bogus. If you have doubts about a credit card warning, call the phone number listed on the back of your card and talk to a human.
- Is there a link you are supposed to click? Hover over the link, but don't click. The actual link will pop up or show on the bottom left corner of your screen. "Sendgrid.net" is not the domain for American Express, but it was under the button on a recent American Express security alert message. Microsoft-portal.ddns.net is not a Microsoft domain, although it was the URL under a Microsoft Security Essentials "Unusual Sign-in activity" button.
- If your email client has a "Show Raw Message" feature, you can use it to show what would be invoked by clicking the link and the path of servers the message took to get to you. Malicious phishing messages can arrive by interesting paths, virtual world-travelers.

Check the sender.

- Does the email address match whom you believe the sender to be?
- Does the email signature match the sender's address?

Check the recipient.

- Are you explicitly listed or is this a suppressed recipient list?
- Are you addressed by name, or is it a Dear Sir or Dear <email address> salutation—or someone else's name entirely?

Check the language.

- Are the sentences grammatically incorrect or awkward for who the sender purports to be?
- Are there high-pressure, urgent, or fear-evoking words to get you to act quickly? (Take your time.)

If you clicked the link.

- Is it asking you to sign-in to view a document? Don't.
- Is it asking you to click another link to open something? Don't.

- In general, don't sign-in to a website reached via clicking a link in an email. Go to that website directly. That PayPal email telling you to check your monthly activity statement might not be from PayPal, but after you log-in to the bogus PayPal page, the sender has your user name and password.
- If you clicked a link and then decide you should not have, contact your IT staff for expert advice.

Scams specific to coronavirus are common now. They might entice you to click a link with:

- The latest case numbers in your area
- Updates on closures
- Policy changes
- Safety tips
- Coronavirus cures
- Apps to help you. A phone app dubbed CovidLock promises to track infections near you and offers a map to view. It installs ransomware.
- Charities

ESTA becomes a NOAA Weather-Ready Nation Ambassador

ESTA has been accepted by the National Oceanic and Atmospheric Administration as a Weather-Ready Nation Ambassador. ESTA will be working with NOAA to improve the USA's readiness to deal with extreme weather, water, and climate events. This alliance was suggested by NOAA staff commenting on the ESTA/ESA draft standard, BSR ES1.7-20xx, Event Safety Requirements - Weather Preparedness. The draft offered for public review late last year echoes many of the safety planning measures recommended by NOAA for our industry. Working together, we can help to ensure that events can be safe, no matter what the weather.

Right now, ESTA members and others in the entertainment industry are dealing with the COVID-19 pandemic, which has forced the closing of entertainment and hospitality venues. However, the pandemic eventually will end, while extreme weather and climate change will always be with us. We need to be Weather-Ready when we can get back to work to protect everyone: producers, performers, workers, and attendees. For more information about being Weather-Ready visit <http://www.weather.gov/wrn/>.

MAY DAY MAYDAY: A virtual variety show for COVID-19 relief

When: Friday, 1 May, 8 p.m. EDT, 7:00 p.m. CDT, 6:00 p.m. MDT, 5:00 p.m. PDT, 2:00 p.m. HST.

Where: Zoom

Who: You and the entire ESTA community, friends, and family.

Do you know how to play the ukulele? The harmonica? Can you dance, sing, or act? Perform a science experiment? A short stand-up routine? If you can make it happen in front of your webcam, and it's suitable for all ages and audiences, then we want to see it as part of the May Day Mayday Virtual Variety Show. Submit your idea for a 5-minute act to mayday@esta.org.

Why: The world is shouting, "Mayday!" We are ESTA, and we're answering the call by doing what we do best: putting on a spectacular show! The event will benefit [Behind the Scenes](#) and the [CDC Foundation](#).

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. See the guidance documents at <http://tsapps.nist.gov/notifyus/data/guidance/guidance.cfm> or <http://ec.europa.eu/growth/tools-databases/tbt/en/tbt-and-you/being-heard/> for advice on filing objections.

Switzerland Notification CHE/244

Date issued: 14 April 2020

Agency responsible: Federal Office of Public Health (FOPH)

National inquiry point: Swiss Association for Standardization (SNV)

Products covered: Disinfectants on the basis of alcohol or active chlorine; Chemicals for industrial and domestic disinfection purposes

Title: General Ruling of the Notification Authority for Chemicals on the authorisation of biocidal products in exceptional situations according to Art. 30 of the Ordinance on the Placing on the Market and Handling of Biocidal Products of 18 May 2005 (4 pages, in German, French, and Italian) General Ruling No.2 of the Notification Authority for Chemicals on the authorisation of biocidal products in exceptional situations according to Art. 30 of the Ordinance on the Placing on the Market and Handling of Biocidal Products of 18 May 2005 (3 pages in German, French, and Italian)

Description of content: The general rulings of the Notification Authority for Chemicals grant a general authorisation for placing certain disinfectants on the basis of alcohol or active chlorine on the market. The authorisations are limited until 31 August 2020.

Objective and rationale: Control of an unforeseen danger (Corona virus); Protection of human health or safety

Relevant documents:

- General Ruling of the Notification Authority for Chemicals on the authorisation of biocidal products in exceptional situations according to Art. 30 of the Ordinance on the Placing on the Market and Handling of Biocidal Products of 18 May 2005 (4 pages, available in French, German and Italian)

https://www.admin.ch/opc/fr/federal-gazette/2020/index_9.html

- General Ruling No.2 of the Notification Authority for Chemicals on the authorisation of biocidal products in exceptional situations according to Art. 30 of the Ordinance on the Placing on the Market and Handling of Biocidal Products of 18 May 2005 (3 pages available in French, German and Italian)

https://www.admin.ch/opc/fr/federal-gazette/2020/index_17.html

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: Not given by country

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE244\[1\]\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE244[1](french).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE244\[2\]\(french\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/CHE/full_text/pdf/CHE244[2](french).pdf)

United States of America Notification USA/1599

Date issued: 14 April 2020

Agency responsible: Environmental Protection Agency (EPA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Chemical data reporting

Title: TSCA Chemical Data Reporting Revisions Under TSCA Section 8(a) (28 page(s), in English)

Description of content: Final rule - EPA is finalizing a rule under the Toxic Substances Control Act (TSCA) to amend the Chemical Data Reporting (CDR) requirements. The CDR rule requires manufacturers (including importers) of certain chemical substances listed on the TSCA Chemical Substance Inventory (TSCA Inventory) to report data on chemical manufacturing, processing, and use every four years. EPA is finalizing several changes to the CDR rule to make regulatory updates that align with new statutory requirements of TSCA, to improve the CDR data collected as necessary to support the implementation of TSCA, and potentially to reduce burden for certain CDR reporters. In addition, these regulatory modifications may result in additional information to EPA and the public that is currently not collected; improve the usability and reliability of the reported data; and ensure that data are available in a timely manner.

Objective and rationale: Protection of human health or safety; Protection of the environment; Cost saving and productivity enhancement

Relevant documents:

- 85 Federal Register (FR) 20122, 9 April 2020; Title 40 Code of Federal Regulations (CFR) Part 60:

<https://www.govinfo.gov/content/pkg/FR-2020-04-09/pdf/2020-06076.pdf>

- TSCA Chemical Data Reporting Revisions and Small Manufacturer Definition Update for Reporting and Recordkeeping Requirements Under TSCA Section 8(a); Proposed Rule published 25 April 2019:

<https://www.govinfo.gov/content/pkg/FR-2019-04-25/pdf/2019-07716.pdf>

- G/TBT/N/USA/1015 – EPA Direct Final Rule published 20 July 2015, TSCA Section 5 Premanufacture and Significant New Use Notification Electronic Reporting:

<https://www.govinfo.gov/content/pkg/FR-2015-07-20/pdf/2015-17737.pdf>

The docket folder on Regulations.gov provides access to primary and supporting documents for this rulemaking as well as the comments received: <https://www.regulations.gov/docket?D=EPA-HQ-OPPT-2018-0321>.

Proposed date of adoption: 11 May 2020

Proposed date of entry into force: 11 May 2020

Final date for comments: Not given

Full text: <https://www.govinfo.gov/content/pkg/FR-2020-04-09/pdf/2020-06076.pdf>

Brazil Notification BRA/998

Date issued: 9 April 2020

Agency responsible: National Institute of Metrology, Standardization and Industrial Quality (INMETRO)

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

Products covered: Telecommunication equipment

Title: Telecommunication Products Reference List (10 pages in Portuguese)

Description of content: Public Consultation upon the review of Telecommunications Products Reference List and establishment of modalities and models for assessment of conformity for telecommunications products, aiming to comply with the provisions of the Regulations for Conformity Assessment and Homologation of Telecommunications Products, approved by Resolution No. 715, of 23 October 2019, in articles 31, 32 and 33.

Objective and rationale: Consumer information

Relevant documents: SEI process number 53500.010821/2020-31

<https://www.anatel.gov.br/institucional/processo-eletronico>

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 21 May 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA998\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA998(english).pdf) and [https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA998\(portuguese\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/BRA/full_text/pdf/BRA998(portuguese).pdf)

European Union Notification EU/709

Date issued: 7 April 2020

Agency responsible: EU-TBT Enquiry Point

National inquiry point: EU-TBT Enquiry Point

Products covered: Tattoo inks or permanent make-up

Title: Draft Commission Regulation amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards substances in tattoo inks or permanent make-up (10 pages in English; 12 pages in English)

Description of content: This draft Regulation relates to a new entry of Annex XVII to Regulation (EC) No 1907/2006. It would restrict the placing on the market and the use of substances in mixtures for use for tattooing purposes. These substances are: i. substances with harmonised classification under Regulation (EC) No 1272/2008 (CLP) as carcinogenicity, mutagenicity or toxicity to reproduction, skin sensitisation, skin corrosion or irritation and serious eye damage or irritation; ii. substances prohibited by the Cosmetic Products Regulation, Regulation (EC) No 1223/2009 Annex II and Annex IV under specific conditions as listed in its columns g, h and i and iii. impurities exceeding the concentration limits as listed in the Appendix to the draft Commission Regulation.

Application of the restriction is deferred for 1 year to allow sufficient time to adapt and achieve compliance with the Regulation.

Objective and rationale: Tattoo and permanent make-up inks are mixtures administered by intentional injection into the dermis or inside the eyeball or in the mucous membranes. The insoluble pigments mostly remain in the skin, soluble constituents of the ink are distributed in the body being quickly systemically available. The aim of the restriction is to prevent the exposure of the skin and other organs over an extended period of time to the effects of substances which have hazardous properties leading to a risk to human health. The transitional period (12 months) before the application of the proposed restriction will allow stakeholders sufficient time to comply with the proposed restriction and to ensure adequate communication throughout the supply chain.

Relevant documents:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration,

Evaluation, Authorisation and Restriction of Chemicals (REACH Regulation): <http://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1423064258789&uri=CELEX:32006R1907>

- The opinions of the Committees for Risk Assessment (RAC) and Socio-economic Analysis (SEAC): <https://echa.europa.eu/documents/10162/dc3d6ea4-df3f-f53d-eff0-540ff3a5b1a0>

- Further background information is available at

<https://echa.europa.eu/nl/registry-of-restriction-intentions/-/dislist/details/0b0236e180dff62a>

Proposed date of adoption: Not given by country

1Proposed date of entry into force: Not given by country

Final date for comments: 6 June 2020

Full text: [https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU709\[1\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU709[1](english).pdf) and

[https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU709\[2\]\(english\).pdf](https://tsapps.nist.gov/notifyus/docs/wto_country/EU/full_text/pdf/EU709[2](english).pdf)

United States of America Notification USA/1601

Date issued: 14 April 2020

Agency responsible: Federal Aviation Administration (FAA)

National inquiry point: USA WTO TBT Enquiry Point

Products covered: Supersonic airplanes; Other aircraft (for example, helicopters, airplanes); spacecraft (including satellites) and suborbital and spacecraft launch vehicles (HS 8802)

Title: Noise Certification of Supersonic Airplanes (17 pages in English)

Description of content: Notice of proposed rulemaking. This action proposes to add new supersonic airplanes to the applicability of noise certification regulations, and proposes landing and takeoff noise standards for a certain class of new supersonic airplanes. There is renewed interest in the development of supersonic aircraft, and the proposed regulations would facilitate the continued development of airplanes by specifying the noise limits for the designs, providing the means to certificate the airplanes for subsonic operation in the United States.

Objective and rationale: Protection of human health or safety; Quality requirements

Relevant documents: 85 Federal Register (FR) 20431, 13 April 2020; Title 14 Code of Federal Regulations (CFR) Parts 21 and 36: <https://www.govinfo.gov/content/pkg/FR-2020-04-13/pdf/2020-07039.pdf>

The docket folder on Regulations.gov provides access to primary and supporting documents for this rulemaking: https://www.regulations.gov/docket?D=FAA_FRDOC_0001.

Proposed date of adoption: Not given by country

Proposed date of entry into force: Not given by country

Final date for comments: 13 July 2020

Full text: <https://www.govinfo.gov/content/pkg/FR-2020-04-13/pdf/2020-07039.pdf>

ANSI public review announcements

The following documents have been announced for public review by ANSI. Please send your comments before the deadline to the person indicated and to ANSI's Board of Standards Review at psa@ansi.org.

Due 3 May 2020

NEMA C18.5M Part 2, Portable Lithium Rechargeable Cells and Batteries - Technical Report (technical report)

This NEMA Technical Report specifies performance requirements for portable lithium rechargeable cells and batteries to ensure their safe operation under normal use and reasonably foreseeable misuse, and includes information relevant to hazard avoidance.

Single copy price: \$100.00

Order from: khaled.masri@nema.org

Due 11 May 2020

BSR/IES LS-5-202x, Lighting Science: Color (new standard)

This document covers the basics of color science, including color vision fundamentals and an overview of colorimetry. It also describes color terminology, color properties of light sources, and the use of color in applied lighting, which includes discussions of common color metrics. This document is not meant as a substitute for more comprehensive literature on this topic or for the standards that are referenced within; instead, it is meant to

provide general knowledge to a lighting practitioner and direct readers to appropriate material. It focuses on practical use, rather than acting as a historical record.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

BSR/IES TM-24-202x, Lighting Science: An Optional Method for Adjusting the Recommended Illuminance for Visually Demanding Tasks within IES Illuminance Categories P through Y Based on Light Source Spectrum (new standard)

This TM describes how a light source's SPD affects pupil size, visual acuity, and visual efficiency under interior lighting conditions, and establishes an optional calculation method, Equivalent Visual Efficiency (EVE), for adjusting IES recommended illuminance targets under limited circumstances when visual tasks require the ability to discern achromatic visual detail to ensure speed or accuracy in the performance of the visual task. EVE is a method for achieving a balance between light level and SPD that results in maintaining equal visual acuity; it is not intended to improve visual acuity or visual performance. The calculation makes no claim as to any effect on overall visual performance, other than to state that the use of this calculation ensures equivalent visual efficiency for visually demanding tasks. The calculation is optional, and its use should be balanced with other lighting design criteria and objectives.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

Due 18 May 2020

BSR/ASHRAE Addendum 62.1aa-202x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2019)

For design, the indoor air quality procedure (IAQP) requires (simplified version): (1) Identification if contaminants of concern, (2) Determining indoor and outdoor sources, (3) Identifying a concentration limit and exposure period, (4) Specifying percentage of building occupants to be satisfied with perceived IAQ, and (5) Performing a mass balance analysis for selected compounds. Weaknesses exist in items (1), (3), and (4). This proposed addendum adds a minimum requirement of percentage of people satisfied and requirements for designing to specific limits for design compounds and particulate matter, design compounds are specifically identified, mixtures are specifically identified, and objective and subjective testing are added.

Single copy price: \$35.00

Access and offer comments at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ASHRAE Addendum 62.1ab-202x, Ventilation for Acceptable Indoor Air Quality (addenda to ANSI/ASHRAE Standard 62.1-2019)

The 2016 version of the Standard Informative Appendix D (Rationale for Minimum Physiological Requirements for Respiration Air Based on CO₂ Concentration) described CO₂ generation rates based on physical activity. This appendix was deleted as it contained outdated information. This proposed addendum adds a normative appendix which describes how to apply the steady-state equation to estimate indoor CO₂ concentrations from per person values of CO₂ generation rates and outdoor air ventilation rates, and to use those to estimate zone population for DCV. It also describes the estimation of dynamic changes in indoor carbon dioxide concentrations for various changes in room conditions and multiple-zone systems, and their application to DCV.

Single copy price: \$35.00

Access and offer comments at <https://www.ashrae.org/technical-resources/standards-and-guidelines/public-review-drafts>

BSR/ATIS 1000678.v4-202x, Lawfully Authorized Electronic Surveillance (LAES) for Voice over Internet Protocol in Wireline Telecommunications Networks, Version 4 (revision and redesignation of ANSI/ATIS 1000678.v4-201x)

This standard defines the interfaces between a Telecommunication Service Provider (TSP) and a Law Enforcement Agency (LEA) to assist the LEA in conducting lawfully authorized electronic surveillance for Voice over Internet Protocol (VoIP) in Wireline Telecommunications Networks. This version of the standard extends the capabilities in ATIS 1000678.v32.2006 (2015) and also provides corrections. This document provides the mechanisms to perform lawfully authorized electronic surveillance of VoIP subject to the appropriate legal and

regulatory environment. It is not the intent of this document to imply or impact any pending Communications Assistance for Law Enforcement Act (CALEA) regulatory decisions related to VoIP.

Single copy price: \$330.00

Order from and send comments to: Anna Karditzas, akarditzas@atis.org

BSR/IES RP-4-202x, Recommended Practice: Lighting Library Spaces (new standard)

Today's library is different in many ways from libraries of the past. Newer lighting techniques and lighting equipment provide the designer with the tools to meet the needs of the varied visual tasks encountered in today's libraries. This document has been written for use by lighting design professionals, architects, engineers, library administrators, librarians, and educators to provide useful practical information that will help produce an energy efficient, pleasing lighted environment.

Single copy price: \$25.00

Order from and send comments to: Patricia McGillicuddy, pmcgillicuddy@ies.org

Due 25 May 2020

BSR/ASHRAE Addendum bv to ANSI/ASHRAE Standard 135-2019, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum adds new property Write_Every_Schedule_Action to the Schedule object, fixes XML namespace, and prevents Remote Traffic Duplication.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum ca to ANSI/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum introduces the Concept of Color for BACnet; adds new Color object type, new Color Temperature object type, color-reference properties to LO and BLO object types, and high/low trim to LO object type; and makes aggregated changes to Clauses 21 and 25.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASHRAE Addendum cc to ANSI/ASHRAE Standard 135-202x, BACnet - A Data Communication Protocol for Building Automation and Control Networks (addenda to ANSI/ASHRAE Standard 135-2016)

This addendum extends the Network Port Object Type for BACnet/SC.

Single copy price: \$35.00

Access and offer comments at <http://www.ashrae.org/standards-research--technology/public-review-drafts>

BSR/ASIS SA-202X, Security Awareness (new standard)

The goal of the security awareness program is to promote organizational and individual actions that can be taken to reduce vulnerabilities to risks and threats and promote a culture of security. This standard provides general principles, guidance, and examples to assist organizations in creating and maintaining an effective security awareness posture as part of an enterprise security risk management program.

Single copy price: \$25.00

Order from and send comments to: standards@asisonline.org

BSR/EASA AR100-202x, Recommended Practice for the Repair of Rotating Electrical Apparatus (revision of ANSI/EASA AR100-2015)

This document describes record-keeping, tests, analysis, and general guidelines for the repair of induction, synchronous, and direct-current rotating electrical apparatus. It is not intended to take the place of the customer's or the machine manufacturer's specific instructions or specifications or specific accepted and applicable industry standards or recommended practices.

Single copy price: online download free to anyone

Obtain an electronic copy from: easainfo@easa.com

Send comments to: tbishop@easa.com

BSR/HFES 100-202x, Human Factors Engineering of Computer Workstations (new standard)

This standard covers operator-machine interface issues associated with computer workstations used regularly in offices (i.e., intentionally built indoor office workplaces) for text-, data-, and simple graphics-processing tasks. This standard applies to computer workstations for a wide range of users; in general, the physical dimensions and force requirements are designed to accommodate the North American population. Its three chapters cover input devices, computer displays, and the physical design of the workplace.

Single copy price: The draft is available without charge during the review period.

Obtain an electronic copy from: <https://www.hfes.org/resources/technical-standards/new-item>

Send comments to: hfes100@hfes.org

BSR/ISA 62443-3-2-202x, Security for industrial automation and control systems - Part 32: Security risk assessment and system design (new standard)

This standard establishes requirements for defining a system under consideration for an industrial automation and control system; partitioning the system under consideration into zones and conduits; assessing risk for each zone and conduit; establishing the target security level for each zone and conduit; and documenting the security requirements.

Single copy price: \$150.00

Obtain an electronic copy from: ebrazda@isa.org

Send comments to: ebrazda@isa.org

Due 26 May 2020

BSR/LES IPSC.001.1-202x, Management System for the Protection of Intellectual Property in the Supply Chain - Requirements (new standard)

Developed by the LES Standards Development Organization, the Management System for the Protection of Intellectual Property in the Supply Chain – Requirements draft standard defines a common set of expectations for what organizations can and should do to protect all types of their own IP and the IP of customers, suppliers, and partners. The Committee's vision is to achieve standardization around how organizations develop and implement an intellectual property protection management system. This standard seeks to supplement legal and contractual IP protection methods through performance standards and business processes and practices that define the management systems required to protect all types of intellectual property (IP) in the global supply chain. The LES Standards Development Organization encourages IP thought leaders around the globe to participate in the public review and comment of LES draft standards as part of the standardization development process. As an Accredited Standards Developer of the American National Standards Institute (ANSI), LES provides the 60-day public review period to encourage manufacturers, distributors, and any interested stakeholder to represent each organization's best interests while helping to shape this field for the future.

Single copy price: Free

Obtain an electronic copy from: <https://www.lesusacanada.org/pae/Standards-Review>

Send comments to: Standards@LES.org

BSR/UL 498-202x, Standard for Safety for Attachment Plugs and Receptacles (revision of ANSI/UL 498-2016)

This proposal for UL 498 covers: (1) Addition of Requirements for Markings and Instructions as New Paragraph 193.1.1.1.

Single copy price: Free

Obtain an electronic copy and offer comments at: <https://csds.ul.com/Home/ProposalsDefault.aspx>

Due 9 June 2020

INCITS/ISO/IEC 15444-1:2019 [202x], Information technology - JPEG 2000 image coding system - Part 1: Core coding system (identical national adoption of ISO/IEC 15444-1:2019 and revision of INCITS/ISO/IEC 15444-1:2016 [2019])

Defines a set of lossless (bit-preserving) and lossy compression methods for coding bi-level, continuous-tone grey-scale, palletized color, or continuous-tone color digital still images.

Single copy price: \$232.00

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

Send comments to: comments@standards.incits.org

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 the project, (b) object to the project and wish it to be abandoned, or (c) if you would like to point out that its scope is covered by an existing standard, thereby possibly making the project redundant or conflicting.

BSR X9.125-202x, Cloud Management and Security (new standard)

Cloud computing has led the “bleeding edge” of IT for the past 3 years, and the financial industry has led all industries in the adoption of this new computing environment. As such, bankers need to understand these technologies, establish an approach for identifying key risks and controls, and create the requirements for automating compliance reporting against established control frameworks. The traditional control frameworks applied to cloud computing can be effective, but are complicated by the fact that the technologies and control responsibilities are outside of the entity being audited. A key to the success of cloud computing is the ability for end-users to demonstrate defensible compliance reporting against established control frameworks. To assist in automating compliance reporting, the data standards proposed in this NWI are needed to ensure interoperability between compliance systems at a Bank (e.g., SIEM platforms, Audit and GRC platforms, IT Management Systems) and cloud service provider IT management systems. The data standard would be designed to support standard control frameworks, including ISO 2700x, COSO/COBIT, PCI DSS, and others, used commonly in the marketplace today.

Contact: Ambria Frazier, Ambria.frazier@x9.org

BSR/DSI VRST1.1-202x, Usage of Therapeutic Virtual Reality for Anxiety Reduction In Healthcare (new standard)

This standard defines the content, usage and disinfection protocols of Therapeutic Virtual Reality (TVR) used for anxiety reduction in healthcare. The goal of this Standard is to protect the healthcare patient from adverse reactions within Therapeutic Virtual Reality experiences, while empowering healthcare professionals to adequately manage patients’ experiences and disinfection of devices.

Contact: Bryan Laskin, dentalstandards@gmail.com

BSR/IEEE 2668-202x, Standard for Maturity Index of Internet-of-Things: Evaluation, Grading and Ranking (new standard)

Internet-of-Things (IoT) is a globally adopted concept and development trend in the smart city development. The number of IoT objects is forecast to proliferate exponentially. It is expected that the number of IoT objects will exceed 20 billion by 2020. Standardization to quantify the IoT maturity of objects will be a vital step to thrive the IoT market. Hitherto, up to this point, there is no standard to grade and rank IoT objects. This standard proposes a universal standard, namely IoT Index (IDex), for the evaluation of performance as well as grading and ranking of IoT objects. IDex will provide key indication on major performance of IoT objects. Moreover, IDex will aid consumers, companies and entities to compare, adopt, develop and select IoT products efficiently, thus proliferating efficiency and render contributions on reduction in reconciliation costs, efficiency of decision making, progress of international integration, and market integrity. Attention is drawn to the fact that IDex facilitates an international integration, blending, and innovation to evolve into better performance through its open platform for IoT objects.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/IEEE 3004.7-202x, Recommended Practice for the Protection of Conductors Used in Industrial and Commercial Power Systems (new standard)

This recommended practice covers the protection of conductors used in main and branch power circuits in industrial and commercial power systems against damage from short circuits and overloads as well as against physical damage from mechanical hazards, adverse environmental conditions, and improper handling.

Contact: Lisa Weisser, l.weisser@ieee.org

BSR/NFPA 1126-202x, Standard for the Use of Pyrotechnics before a Proximate Audience (revision of ANSI/NFPA 1126-2021)

This standard shall provide requirements for the protection of property, operators, performers, support personnel, and the viewing audiences where pyrotechnic effects are used indoors or outdoors with a proximate audience.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 600-202x, Standard on Facility Fire Brigades (revision of ANSI/NFPA 600-2020)

A major concern of industrial fire protection professionals is the protection of employees and property from the threat of fire in the workplace. In 1980, the Occupational Safety and Health Administration (OSHA) defined its requirements for industrial fire brigades. These requirements apply to industrial fire brigades once corporate or local management, in the role as an authority having jurisdiction, has determined that they want an industrial fire brigade at a facility. In OSHA, 29 CFR 1910.156, Subpart L, two types of industrial fire brigades are defined in an attempt to establish levels of industrial fire brigade function and to identify the training and safety requirements for each of those levels. Industrial fire protection professionals have wrestled with categorizing every existing industrial fire brigade into either the incipient stage category or the interior structural category. In attempting to develop a state-of-the-art industrial fire brigade standard, the Technical Committee on Loss Prevention Procedures and Practices has followed OSHA's lead in setting requirements based on the incipient and interior structural industrial fire brigade definitions.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 73-202x, Standard for Electrical Inspections for Existing Dwellings (revision of ANSI/NFPA 73-2020)

This standard provides criteria for identification of hazardous conditions of electrical systems in existing one-family, two-family, and multifamily dwellings, including mobile homes and manufactured homes.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 730-202x, Guide for Premises Security (revision of ANSI/NFPA 730-2020)

This guide describes construction, protection, occupancy features, and practices intended to reduce security vulnerabilities to life and property. This guide should not supersede government statutes or regulations.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

BSR/NFPA 75-202x, Standard for the Fire Protection of Information Technology Equipment (revision of ANSI/NFPA 75-2020)

This standard covers the requirements for the protection of information technology equipment (ITE) and ITE areas.

Contact: Dawn Michele Bellis, dbellis@nfpa.org

Final actions on American National Standards

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

ANSI C82.16-2020, Light Emitting Diode Drivers - Methods of Measurement (revision of ANSI C82.16-2015): 27 March 2020

ANSI E1.17-2015 (R2020), Entertainment Technology - Architecture for Control Networks (ACN) (reaffirmation of ANSI E1.17-2015): 23 March 2020

ANSI E1.21-2020, Entertainment Technology - Temporary Structures Used for Technical Production of Outdoor Entertainment Events (revision of ANSI E1.21-2013): 23 March 2020

ANSI E1.23-2020, Entertainment Technology - Design, Execution, and Maintenance of Atmospheric Effects (revision of ANSI E1.23-2010 (R2015)): 1 April 2020

ANSI E1.66-2020, Safety Standard for Followspot Positions Erected for Short-Term Use in Entertainment Venues (new standard): 3 April 2020

ANSI/ASME HST-5-2020, Performance Standard for Air Chain Hoists (revision of ANSI/ASME HST-5-2014): 2 April 2020

ANSI/ASME PTC 52-2020, Concentrated Solar Power Plants (new standard): 23 March 2020

ANSI/AWS B2.1-1-002-2020, Standard Welding Procedure Specification (SWPS) for Gas Tungsten Arc Welding of Carbon Steel, (M-1/P-1, Group 1 or 2), 3/16 inch [5 mm] through 7/8 inch [22 mm], ER70S-2, ER70S-3, in the As-Welded Condition, Primarily Plate and Structural Applications (new standard): 16 March 2020

ANSI/IES LM-84-2020, Approved Method: Measuring Luminous, Radiant, and Photon Flux; and Color and Aspects of Spectral Maintenance of LED Lamps, Light Engines, and Luminaires (new standard): 23 March 2020

ANSI/IES RP-29-2020, Recommended Practice: Lighting Hospital and Healthcare Facilities (revision of ANSI/IES RP-29-2016): 23 March 2020

ANSI/IES RP-30-2020, Recommended Practice: Lighting Museums (revision of ANSI/IES RP-30-16): 20 March 2020

ANSI/IES RP-41-2020, Recommended Practice: Lighting Theatre and Auditorium Spaces (new standard): 23 March 2020

ANSI/IES RP-7-2020, Recommended Practice: Lighting Industrial Facilities (revision of ANSI/IES RP-7-2017): 23 March 2020

ANSI/IES RP-9-2020, Recommended Practice: Lighting Hospitality Spaces (new standard): 19 March 2020

ANSI/NECA 331-2020, Standard for Installing Building Service Entrance Grounding (new standard): 24 March 2020

ANSI/NECA 402-2020, Standard for Installing and Maintaining Motor Control Centers (new standard): 24 March 2020

ANSI/TIA 1005-A-2012 (R2020), Telecommunications Infrastructure Standard For Industrial Premises (reaffirmation of ANSI/TIA 1005-A-2012): 17 March 2020

ANSI/TIA 568.0-E-2020, Generic Telecommunications Cabling for Customer Premises (revision and redesignation of ANSI/TIA 568.0-D-2015): 24 March 2020

ANSI/TIA 568.1-E-2020, Commercial Building Telecommunications Cabling Standard (revision and redesignation of ANSI/TIA 568.1-D-2015): 24 March 2020

Draft IEC & ISO documents

This section lists proposed documents that the IEC or ISO, or both, are considering for approval and that may be of interest to *Standards Watch readers*. Anyone interested in reviewing and commenting on a document should order a copy from their national representative and submit their comments through them. Comments from US citizens on IEC documents should be sent to Charles T. Zegers at czegers@ansi.org. Comments from US citizens on ISO documents should be sent to Karen Hughes at isot@ansi.org. Any prices, if shown, are for purchases through ANSI. The sort order is by due date then alphanumeric.

65/799/FDIS, IEC 62443-3-2 ED1: Security for industrial automation and control systems - Part 3-2: Security risk assessment for system design, 15 May 2020

85/720/FDIS, IEC 61557-11 ED2: Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 11: Effectiveness of residual current monitors (RCM) in TT, TN and IT systems, 15 May 2020

65C/1009/CD, IEC 62657-2 ED3: Industrial communication networks - Wireless communication networks - Part 2: Coexistence management, 29 May 2020

ISO/IEC DIS 15962, Information technology - Radio frequency identification (RFID) for item management - Data protocol: data encoding rules and logical memory functions, 5 June 2020, \$215.00

ISO/IEC DIS 18000-63, Information technology - Radio frequency identification for item management - Part 63: Parameters for air interface communications at 860 MHz to 960 MHz Type C, 5 June 2020, \$245.00

ISO 27875/DAMd1, Space systems - Re-entry risk management for unmanned spacecraft and launch vehicle orbital stages - Amendment 1: Equation to obtain E_c by the product of the probability of impact on a specific latitude band, and the population within the band, which is integrated over the latitude range covered by the orbital inclination, 6 June 2020, \$29.00

65/797/CD, IEC 62443-2-2 ED1: Security for industrial automation and control systems - Part 2-2: IACS Security Program Ratings, 19 June 2020

100/3392/CDV, IEC 61937-3/AMD1 ED3: Amendment 1 - Digital audio - Interface for non-linear PCM encoded audio bitstreams applying IEC 60958 - Part 3: Non-linear PCM bitstreams according to the AC -3 and enhanced AC-3 formats (TA 20), 26 June 2020

Recently published IEC & ISO documents

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

IEC 61156-5 Ed. 3.0 en:2020, Multicore and symmetrical pair/quad cables for digital communications - Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Sectional specification, \$199.00

S+ IEC 61156-5 Ed. 3.0 en:2020 (Redline version), Multicore and symmetrical pair/quad cables for digital communications - Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Horizontal floor wiring - Sectional specification, \$259.00

IEC 61156-6 Ed. 4.0 en:2020, Multicore and symmetrical pair/quad cables for digital communications - Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz – Work area wiring - Sectional specification, \$199.00

S+ IEC 61156-6 Ed. 4.0 en:2020 (Redline version), Multicore and symmetrical pair/quad cables for digital communications - Part 6: Symmetrical pair/quad cables with transmission characteristics up to 1 000 MHz - Work area wiring - Sectional specification, \$259.00

IEC 61547 Ed. 3.0 b:2020, Equipment for general lighting purposes - EMC immunity requirements, \$164.00

S+ IEC 61547 Ed. 3.0 en:2020 (Redline version), Equipment for general lighting purposes - EMC immunity requirements, \$213.00

IEC 62386-105 Ed. 1.0 b:2020, Digital addressable lighting interface - Part 105: Particular requirements for control gear and control devices - Firmware Transfer, \$199.00

IEC/TR 63079 Ed. 1.2 en:2020, Code of practice for hearing-loop systems (HLS), \$528.00

IEC/TR 63079 Amd.2 Ed. 1.0 en:2020, Amendment 2 - Code of practice for hearing-loop systems (HLS), \$12.00

ISO 14649-17:2020, Industrial automation systems and integration - Physical device control - Data model for computerized numerical controllers - Part 17: Process data for additive manufacturing, \$103.00

ISO 21455:2020, Mobile elevating work platforms - Operators controls - Actuation, displacement, location and method of operation, \$138.00

ISO 8548-2:2020, Prosthetics and orthotics - Limb deficiencies – Part 2: Method of describing lower limb amputation stumps, \$138.00

ISO/IEC 14543-3-10:2020, Information technology - Home electronic systems (HES) architecture - Part 3-10: Wireless short-packet (WSP) protocol optimized for energy harvesting - Architecture and lower layer protocols, \$162.00

ISO/IEC 15963-1:2020, Information technology - Radio frequency identification for item management - Part 1: Unique identification for RF tags numbering systems, \$103.00

ISO/IEC 15963-2:2020, Information technology - Radio frequency identification for item management - Part 2: Unique identification for RF tags registration procedures, \$45.00

ISO/IEC 18046-2:2020, Information technology - Radio frequency identification device performance test methods - Part 2: Test methods for interrogator performance, \$162.00

ISO/IEC 19566-4:2020, Information technologies - JPEG systems - Part 4: Privacy and security, \$162.00

ISO/IEC TR 24772-2:2020, Programming languages - Guidance to avoiding vulnerabilities in programming languages - Part 2: Ada, \$185.00

TSP meeting schedule

No meetings! Well, not really, but the schedule is not set.

Meetings had been scheduled to fit around the North American Theatre Engineering and Architecture Conference, to be at the Roosevelt Hotel in Manhattan, July 18 and 19. Right now Manhattan is locked down. Everyone except End Times enthusiasts expect New York to be functioning better by July, but, even if the theatres, bars, and restaurants are back open, attending a conference at Manhattan hotel would not be high on anyone's priorities list at that time. The NATEAC organizers have postponed NATEAC 2020 to 2021. Current plans are for the Conference to be at the same place, the Roosevelt Hotel, with the Cruise, Conference Dinner, and Cocktail Party to be on the same schedule and in the same locations as they were supposed to be in 2020 but one year later.

This means that the Summer 2020 TSP meetings do not have an event or location to anchor them. Probably they will not be face-to-face, but will be virtual via WebEx, but the schedule is still to be decided. When it is, it will be published at <https://esta.org/ESTA/meetings.php> and in *Standards Watch*.

ESTA Standards Watch

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