

**Minutes**  
**Electrical Power Working Group**  
Wednesday 1 June 2022  
14:00 – 17:00 Pacific Daylight Time (UTC -7 hours)  
Wyndham Anaheim and WebEx

**Chairperson:**

Mitch Hefter; USITT; P; U

**Recording secretaries:**

Karl Ruling and Richard Nix (ESTA)

**Attendees:**

Kevin Amick; IATSE Local 479; P; G  
Richard Cadena; Academy of Production Technology; O; G  
Don Earl; Earl Girls, Inc.; P; DR  
Todd Fouyer; Musson Theatrical; O; DR  
Jerry Gorrell; Theatre Safety Programs; P; U  
Erin Grabe; ESTA; exf; G  
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U  
Hans Lau; I.A.T.S.E. Local 728; A; U  
Michael Lay; Candela Controls, Inc; P; G  
Mark Pollock; Littelfuse, Inc.; P; MP  
Jason Potterf; Cisco; P; MP  
Alan M. Rowe; I.A.T.S.E. Local 728; A; U  
Mike Skinner; Contract Services Administration Trust Fund; P; U  
Steve Terry; Electronic Theatre Controls, Inc.; P; MP  
Stephen Vanciel; Stephen Vanciel; P; U  
Art Wanuch; Entertainment Electrical Safety Association; P; G  
Mike Webb; Motion Laboratories, Inc.; P; MP  
Keith S. Woods; IATSE Local 891; P; U

**Visitors:**

Christina Smith (ETCP)

**1 Opening remarks**

Mitch Hefter called the meeting to order at 14:03, welcoming everyone back to Anaheim, and thanking everyone for taking time from their schedules to attend. He reminded online participants to keep their microphones muted when not speaking, and to use the “raise hand” feature if they need to speak. He introduced himself as the co-chair presiding over today’s meeting.

**2 Patent and anti-trust statements**

**2.1 Reading of the anti-trust statement**

Mitch Hefter read the following statement aloud to the assembly:

*ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.*

*Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.*

Karl Ruling held up the pamphlet for everyone to see.

**2.2 Reading of the call for patents**

Mitch Hefter read the following statement aloud to the assembly:

*ESTA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent and copyright disclosures to implement its intent. ESTA does not conduct patent or copyright searches and does not warrant that its standards contain no protected intellectual property.*

*In keeping with the open disclosures policy, I ask if anyone present wishes to notify this working group of the existence of a patent, patent application, copyright, or other protected intellectual property that might protect material in a standard being developed by this working group. You need not be the holder of the patent or copyright to notify this working group of its existence.*

Nothing was revealed.

### **3 Attendance and Membership**

#### **3.1 Requirements for membership**

Mitch Heffer read the following statement aloud to the assembly:

*Membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement, but there is a \$100/person/year participation fee to help fund the costs of running the Technical Standards Program. Voting members are required to attend meetings and vote on letter ballots. Any principal member and alternate that both miss three consecutive meetings or letter ballots will have their membership status changed to observer. This action will be taken at the beginning of the first meeting after such inaction and will be recorded in the minutes of that meeting.*

#### **3.2 Introduction of attendees and taking attendance.**

Everyone introduced themselves.

#### **3.3 Determination of quorum**

*As of 3 May the consensus body has 21 voters. A quorum would be seven.*

Richard Nix reported that we had a quorum and supermajority present. Mitch Heffer announced that this was so and the meeting could proceed.

#### **3.4 Processing of new and other membership requests**

*One as of 11 May 2022:*

*Todd Fouyer; Musson Theatrical; Observer; Dealer-Rental company*

Eddie Kramer moved to approve the application. The motion was seconded. It carried without objection.

#### **3.5 Changes to observer status due to lack of participation**

*As of 11 May 2022, no one was in danger of losing voting status due to lack of participation.*

#### **3.6 Consensus body**

*The consensus voting body, after all relevant meeting actions were taken, is as follows.*

<b>Delegate</b>	<b>Representing</b>	<b>Voting status</b>	<b>Int. cat.</b>
George Long	Aggreko	P	DR
Michael Lay	Candela Controls, Inc	P	G
Jason Potterf	Cisco	P	MP
Mike Skinner	Contract Services Administration Trust Fund	P	U
Matthew Antonucci	Contract Services Administration Trust Fund	A	U
Chris Moulton	Contract Services Administration Trust Fund	A	U
Don Earl	Earl Girls, Inc.	P	DR
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
Wendy Russell	Electronic Theatre Controls, Inc	A	MP

Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	P	U
Art Wanuch	Entertainment Electrical Safety Association	P	G
Ian Foulds	Entertainment Electrical Safety Association	A	G
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Charles McIntyre	I.A.T.S.E. Local 728	P	U
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Hans Lau	I.A.T.S.E. Local 728	A	U
Kevin Amick	IATSE Local 479	P	G
Keith S. Woods	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	A	U
Bob Luther	Lex TM3	P	MP
John Valus Jr.	Lex TM3	A	MP
Mark Pollock	Littelfuse, Inc.	P	MP
Mike Webb	Motion Laboratories, Inc.	P	MP
Rick Montgomery	Motion Laboratories, Inc.	A	MP
Michael Shaw	Motion Laboratories, Inc.	A	MP
Nehad El-Sherif	Nehad El-Sherif	I	G
Stephen Vanciel	Stephen Vanciel	I	U
Jerry Gorrell	Theatre Safety Programs	P	U
Robert Haycock	UC Berkeley	I	U
Justin Bennett	University of the Incarnate Word	P	U
Mitch Hefter	USITT	P	U
	<b>Total votes possible</b>	<b>21</b>	
Subtotals by interest categories	Custom producer (CP):	0	CP
	Designer (DE):	0	DE
	Dealer or rental company (DR):	2	DR
	General interest (G):	4	G
	Mass-market producer (MP):	5	MP
	User (U):	10	U

*P = Principal voter; A = Alternate voter; I=Individual voter*

#### 4 Approval of the minutes from the previous meeting

See *EPmin03-2022r1\_DRAFT.pdf*

Steve Terry moved to approve the minutes. The motion was seconded and carried without objection or abstention.

#### 5 Approval of agenda

Steve Terry moved to approve the agenda. The motion was seconded and carried without objection or abstention.

#### 6 Old business

##### 6.1 ANSI E1.16 – 2002 (R2021) Entertainment Technology – Configuration Standard for Metal Halide Ballast Power Cables

*Reaffirmation, revision, or withdrawal by 28 October 2026. Any news or action?*

No news or action.

**6.2 ANSI E1.19 – 2021, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry**

*Reaffirmation, revision, or withdrawal by 15 October 2026. Any news or action?*

Steve Terry suggested that the original task group reconvene to consider Richard Cadena's recent article in Protocol on feeding dimmers with GFCI's (the article is "*Do GFCIs Work with Dimmers*", Winter 2021 Protocol.) Mitch Hefter agreed, and appointed Steve Terry to lead the task group, comprised of Richard Cadena, Mike Skinner, Justin Bennett - and perhaps someone from Lex Products (John Valus). Mark Pollock also volunteered. Mitch asked them to bring a report back to the working group in September.

**6.3 ANSI E1.24 – 2012 (R2021), pin connectors**

*Reaffirmation, revision, or withdrawal by 28 October 2026. Any news or action?*

No news or action.

**6.4 ANSI E1.32 – 2012 (R2017), Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires**

*In public review through May 23 with a concurrent working group letter ballot. No comments as of 3 May 2022.*

The letter ballot motion carried, and now forwards to the TSC. It's on their agenda for the upcoming Sunday meeting.

**6.5 ANSI E1.51 – 2018, The Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use At 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Television, Film, Live Performance and Event Industries in Canada**

*Revision, reaffirmation, or withdrawal by 7 November 2023. Any news or action?*

No news or action.

**6.6 ANSI E1.53 – 2019, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice**

*Revision, reaffirmation, or withdrawal by 3 June 2024. Any news or action?*

No news or action.

**6.7 ANSI E1.58 – 2017, Indoor equipment outdoors**

*In public review through May 23 with a concurrent working group letter ballot. No public review comments as of 3 May 2022, but there is one "Yes with comments" vote in the working group that will push the closing of the ballot until at least June 13, after this meeting.*

Karl Ruling noted an error in the agenda's note, which should say that the extension ends on 07 June, not 13 June.

Karl also noted that it references an out-of-date version (2017) on the NEC, and explained that the motion would need to fail in order to update the NEC references, if everyone wanted to update them. There was discussion about whether or not to update the older NEC references. It cannot be done as an editorial update. He encouraged all voting members to reconsider if they wanted to update the references or not. If so, vote "No" on the letter ballot motion.

Steve Vanciel suggested that we make no change to this until the 2023 NEC is actually published.

**7 New business**

None.

**8 Other business and announcements**

### **8.1 Above & Beyond Awards**

*Nominations can be made on the website, at [http://tsp.esta.org/tsp/news/award\\_recipients.html](http://tsp.esta.org/tsp/news/award_recipients.html).*

Mitch Hefter reminded everyone of the link and its purpose.

### **8.2 IES report**

Mitch Hefter reported that the IES Controls Committee has resolved Committee comments on new BSR/IES LP 16 Lighting Practice – Documenting Control Intent Narratives and Sequence of Operation. Public Review concluded with comments, which are now all resolved, but they are still waiting on response back from one commentor. He also noted that IES has reduced their staff by 1/3, due to fiscal issues.

### **8.3 NEC report**

Mitch Hefter reported. The NFPA annual conference is next week. There are no certifying or amending motions that have impact to our industry. Bill Ellis was accepted as Jason Potterf's Alternate on CP-18.

Jason Potterf expressed relief that there was nothing for us to defend in any of the motions.

### **8.4 USITT report**

Mitch Hefter reported. David Grindle has resigned to become the Executive Director at SMPTE. Lee Asbell-Swanger is the interim director until the search is completed. The USITT board meets in two weeks to finalize some of the new policies, consistent with the new bylaws.

### **8.5 Event Safety WG – Electrical Task Group**

*Robert Haycock to report on BSR ES1.17, Event Safety - Electrical Installations and Lighting, progress.*

Richard Nix reported that the Event Safety task group had returned a revised draft the previous week. He had done a review of the document from three perspectives (TSC comments, EPWG comments, and his perspective as an ESWG voting member), and found it to fall short of satisfying the comments previously given to the task group. He said he had distributed the draft as-is to the ESWG for their upcoming meeting, with a 48-point list of issues he had found during his limited review. The Event Safety Working Group meets on Saturday, so this working group won't receive a formal report about that meeting until we meet again in September.

### **9 Schedule for future meetings**

*The meeting schedule may be found at <http://www.esta.org/ESTA/meetings.php>.*

*TSP meetings will be held in Westlake, TX at the Marriott Dallas/Fort Worth Westlake (what we used to call the Marriott Solana). The EPWG will meet from 19:00 to 23:00 on 16 September, 2022.*

### **10 Adjournment**

The agenda business being completed, there being no further business brought forth, Mitch Hefter thanked everyone for their participation, then declared the meeting adjourned at 14:49.

Electrical Power Working Group Members as of 01 June 2022

<b>Name</b>	<b>Representing</b>	<b>Status</b>	<b>Int cat</b>
Kevin Amick	IATSE Local 479	P	G
Matthew Antonucci	Contract Services Administration Trust Fund	A	U
Robert Barbagallo	Solotech Inc.	O	DR
Alyxander Bear	Insomniac	O	DE
Justin Bennett	University of the Incarnate Word	P	U
Steve Brock	Guardian Entertainment Inc	O	DR
John (JA) Byerly	IATSE Local 479	O	G
Richard Cadena	Academy of Production Technology	O	G
James Davey	A.C.T. Lighting, Inc.	O	CP
Jeremy Day	Lumenpulse Group	O	MP
Rodger Dean	R. Dean Lighting Limited	O	DR
Jim Digby	Event Safety Alliance	O	U
Marsha DuBois	Pintech Stage Connectors, Inc.	O	CP
James Eade	ABTT	O	G
Don Earl	Earl Girls, Inc.	P	DR
Nehad El-Sherif	Nehad El-Sherif	I	G
Trevor Forrest	Helvar Lighting Control	O	MP
Ian Foulds	Entertainment Electrical Safety Association	A	G
Todd Fouyer	Musson Theatrical	O	DR
Jerry Gorrell	Theatre Safety Programs	P	U
Mike Harwood	William F. White International	O	DR
Robert Haycock	Robert Haycock	I	U
Mitch Hefter	USITT	P	U
Simon Hunt	IATSE Local 891	A	U
Quinten James	QtoCue Lighting Design	O	U
John Valus Jr.	Lex TM3	A	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Charles (Chuck) Kurten	Underwriters Laboratories, Inc.	O	G
Hans Lau	I.A.T.S.E. Local 728	A	U
Michael Lay	Candela Controls, Inc	P	G
George Long	Aggreko	P	DR
Bob Luther	Lex TM3	P	MP
Charles McIntyre	I.A.T.S.E. Local 728	P	U

Electrical Power Working Group Members as of 01 June 2022

<b>Name</b>	<b>Representing</b>	<b>Status</b>	<b>Int cat</b>
Ty Mellon	Tyron J Mellon, Jr.	O	G
Rick Montgomery	Motion Laboratories, Inc.	A	MP
Chris Moulton	Contract Services Administration Trust Fund	A	U
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	P	U
Mark Pollock	Littelfuse, Inc.	P	MP
Jason Potterf	Cisco	P	MP
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Wendy Russell	Electronic Theatre Controls, Inc	A	MP
Ford Sellers	Chauvet Lighting	O	MP
Michael Shaw	Motion Laboratories, Inc.	A	MP
Mike Skinner	Contract Services Administration Trust Fund	P	U
Jonny Starr	TMB	O	MP
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
Robert Timmerman	Signify	O	MP
Stephen Vanciel	Stephen Vanciel	P	U
Ken Wagner	Ken Wagner	O	U
Art Wanuch	Entertainment Electrical Safety Association	P	G
Colin Waters	TMB	O	DR
Mike Webb	Motion Laboratories, Inc.	P	MP
Keith S. Woods	IATSE Local 891	P	U
Jeong Sik Yoo	Ghost LX	O	DE