

Minutes
Electrical Power Working Group
Friday 16 March 2018
Hilton Ft. Lauderdale Marina
1881 SE 17th Street
Fort Lauderdale FL 33316

Presiding chairperson: Mitch Hefter; USITT; P; U

Recording secretaries: Karl Ruling and Erin Grabe; ESTA

Members in attendance:

Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Justin Bennett; University of the Incarnate Word; P; U
Don Earl; Earl Girls, Inc.; P; DR
Nehad El-Sherif; I; G
Jerry Gorrell; Theatre Safety Programs; P; U
Robert Haycock; Cal Performances; UC Berkeley; I; U
John Valus_Jr.; LEX Products; Lex TM3; A; MP
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Michael Lay; Philips Lighting; P; MP
Bob Luther; Lex Products; Lex TM3; P; MP
Chris Moulton; Contract Services Administration Trust Fund; A; U
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Stephen Vanciel; IATSE Local 631; P; U
Art Wanuch; Entertainment Electrical Safety Association; P; G
Mike Webb; Motion Laboratories, Inc.; P; MP
Keith S. Woods; Lakhri Impressions Ltd.; IATSE Local 891; P; U

Visitors: Jennifer Estremera; IATSE Local 16

1 Opening remarks

Mitch Hefter called the meeting to order at 2:03 p.m. ET. He welcomed everyone to Ft. Lauderdale, and thanked everyone for attending in person or remotely. Mitch asked everyone present to silence their phones, and those online to mute when not speaking. Mitch then said a few words about Ken Vannice:

We've all lost someone special with Ken's passing in January. Ken gave so much to all of us in the entertainment industry, from his work in ESTA, chairing the ETCP Electrical SMEs, USITT, NEC, and more. His receipt of the Swan Award in November was one acknowledgment of that service. I always learned from him every time we worked on codes and standards and taught classes together. There is so much I still had to learn from him, and we all had to learn from him. Let's take a moment to reflect.

And now time to continue on as Ken would have insisted.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

A bright pink sign-in sheet was passed around while self-introductions took place.

2.2 Determination of quorum

Mitch Hefter announced a supermajority present.

2.3 Recognition of alternate voting members

None.

2.4 Requirements for membership

The following statement was read aloud to the assembly by Mitch Hefter:

Membership is open to all who are affected by the work of the group. Voters who would be in the designer or dealer/rental company interest category in particular are encouraged to become members. There is an annual \$100 participation fee for all members. Voting members are required to attend meetings and to vote on letter ballots. Voting members and their alternates may not miss three consecutive meetings or three consecutive letter ballots without a loss of voting status.

2.5 Changes to observer status

Mitch Hefter noted that no voters were in jeopardy of a change to Observer status due to lack of attendance.

2.6 Processing of new and other membership requests

As of 16 March 2018, the following new applications or status change requests have been received:

Charles McIntyre; IATSE Local 728; Alternate; user
Robert Haycock; Cal Performances; UC Berkeley; I; U
James Davey; ACT Lighting; O to P (change in status)
Matt Antonucci; CSATF; O to P (change in status)
Chris Moulton; CSATF; A

Mitch Hefter noted the new applications. Eddie Kramer moved to approve the applications and status changes. The motion was seconded and approved by a show of hands.

3 Approval of the minutes from the previous meeting

See EPmin11-2017r1.pdf.

Steve Terry moved to approve the minutes as drafted. The motion was seconded and approved with one abstention.

4 Reading of the call for patents

The following statement was read aloud to the assembly by Mitch Hefter:

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 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.

5 Reading of the modified anti-trust statement

The following statement was read aloud to the assembly by Mitch Hefter:

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.

Erin Grabe held up a copy of the pamphlet. No anti-trust issues were raised.

6 Approval of agenda

Mitch Hefter would like to add 9.3 ESTA staffing, and USITT programming 9.4.

Eddie Kramer moved to approve the modified agenda. The motion was seconded and approved with no objections and no objections.

7 Old business - task group reports

7.1 ANSI E1.16 – 2002 (R2017) Entertainment Technology – Configuration Standard for Metal Halide Ballast Power Cables (Revision, reaffirmation, or withdrawal by 18 May 2022)

No news or action at this time.

7.2 ANSI E1.19 – 2015, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry (Revision, reaffirmation, or withdrawal by 11 February 2020)

Roger Lattin said that UL 943 may have been revised, and wondered if anyone has an idea of the changes.

Steve Terry said that he will look at the revisions and bring back anything of note in July, as it was only released one week ago.

7.3 ANSI E1.24 – 2012 (R2017), pin connectors (Revision, reaffirmation, or withdrawal by 23 February 2022)

No news or action at this time.

7.4 ANSI E1.32 – 2012 (R2017), Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires (Revision, reaffirmation, or withdrawal by 15 September 2022) September 15, 2017

No news or action at this time.

7.5 BSR E1.51, A Canadian E1.18

Comments were received during the public review.

See E1-51_7thReviewCommentSummary_WithResolution.pdf for the comment and a possible resolution.

Steve Terry asked to see the modified clause in the draft standard. He then moved to approve the comment resolutions. The motion was seconded. The motion carried with one objection and three abstentions. The Yes votes were counted and constituted a supermajority.

Steve Terry then moved to accept E1.51 as an American National Standard. The motion was seconded and will be decided by letter ballot.

7.6 ANSI E1.53 – 2016, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice (Reaffirmation, revision, or withdrawal by 4 August 2021)

No news or action at this time.

7.7 ANSI E1.58 – 2017, – Indoor equipment outdoors

It was noted that Steve Vanciel had left the meeting to do a session on this standard.

7.8 Electrical inspection project

From the November 2017 minutes:

Ken Vannice said that there is a standard for checking rigging, there's a standard for checking incandescent lighting fixtures, but there is no checklist standard for inspecting electrical systems in a facility. He listed a number of things that should be routinely inspected in a facility for the electrical system and said that this body could take up a project to write an inspection standard. He asked if others thought this was a good idea.

Steve Terry moved to start a project to develop an inspection guidance document for electrical system inspections. A project request form is needed, which Ken offered to draft. The motion was seconded and approved by a show of hands.

We still need a project request form; none has been filed.

Ken Vannice did not have an opportunity to start the checklist or project request form. Eddie Kramer offered to start working on this project. Roger Lattin volunteered to help. Jerry Gorrell said that 70E requires inspection but gives no guidance on how. This document, when it is finished, would be helpful for meeting that inspection requirement.

7.9 Multiconductor cable research project

From the November minutes:

Discussion under item 8.1 led to some discussion about the possible pitfalls of writing a standard for multi-cable assemblies and the UL listing of multi-cable assemblies. The consensus of the group was that a research project to look into a possible listing method, including a potential proposal to change UL 817, was needed. John Valus was appointed to lead the research project to find out what would need to be done to have NRTL listing of multi-conductor cable assemblies.

John Valus said that he has begun to review material and assemble a team. He also said that he'd consulted with Ty Mellon on how to proceed. There was some discussion on the importance of a project like this, and the consensus was that this group is the body to take it on.

Steve Terry spoke in favor of the project, calling the current rating of multi-conductor cables a potential problem with AHJs.

8 New business – Working Group leadership

8.1 Working Group leadership

Ken Vannice passed away on January 15. Would the working group like to suggest a new co-chair to the TSC to serve alongside Mitch Hefter?

By instant runoff, Mitch Hefter will continue as co-chair, and Justin Bennett will be recommended to the TSC as his co-chair.

9 Other business and announcements

9.1 Education

9.1.1 INNOVA

Mitch Hefter said that USITT and ESTA have partnered up to bring you INNOVA, an online learning platform for the entertainment technology industry. Check it out at <http://innova.usitt.org>. Content and content providers are being sought. If you are interested, email standards@esta.org to be put in touch with someone.

9.1.2 NAMM

ESTA is partnering with NAMM to provide a curated selection of classes at the NAMM show. Proposals?

Mitch Hefter said that the show is a wonderful experience and we'll be doing it again. ESTA and NAMM were both very, very pleased with the first collaborative year. Proposals are being accepted for future classes.

9.2 Awards

9.2.1 Above & Beyond Awards

The nomination site is open year round at http://tsp.esta.org/tsp/news/award_nomination.html. Nominate your peers!

Mitch Hefter presented Eddie Kramer an Above and Beyond Award for 2017. There was a round of applause for Eddie.

Eddie Kramer was cited as having been a “tireless contributor to the Technical Standards Program serving on many different committees and Working Groups, including the Technical Standards Council. Eddie is not only involved with ESTA, but also serves as a representative for the entertainment industry to the NFPA (NFPA 70E) and the IEEE.”

9.2.2 ESTA Lifetime Technical Achievement Award

Mitch Hefter said that the ESTA Lifetime Technical Achievement Award was given to Scott Fisher on March 14 at the New World Rigging Symposium.

9.3 ESTA staffing

Erin Grabe reported that she is being moved to Executive Director and Richard Nix is becoming Assistant TSM starting May 7.

9.4 USITT programming

Mitch Hefter said the system for putting sessions together has been changed slightly. The proposals are normally finalized by this show, but currently they are open until June. Go to <https://www.usittshow.com/call-for-sessions> to fill out a program form.

10 Schedule for future meetings

Visit <http://tsp.esta.org/tsp/meetings/index.php> for the most current schedule.

10.1 July meetings

Mitch Hefter said that the next EPWG meeting is scheduled for 9:00 a.m. to 11:00 a.m on Friday 20 July, at the Marriott Solana in Westlake, Texas.

10.2 October meetings

Mitch Hefter noted that the fall meetings will be held 4-8 October, also at the Marriott Solana in Westlake, Texas. Meeting times are yet to be determined.

11 Adjournment

Eddie Kramer moved to adjourn. The motion was seconded. Hearing no objections, Mitch Hefter declared the meeting adjourned at 3:13 p.m. ET.

Electrical Power Working Group Members as of 16 March 2018

Name	Company	Representing	Voting status	Int cat
Kevin Amick	IATSE Local 479	IATSE Local 479	P	G
Matthew Antonucci	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	P	U
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Alyxzander Bear	Insomniac	Insomniac	O	DE
Justin Bennett	University of the Incarnate Word	University of the Incarnate Word	P	U
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Richard Cadena	Academy of Production Technology	Academy of Production Technology	O	G
Ron Dahlquist	Dadco	Dadco	O	MP
James Davey	AC Power Distribution Inc.	A.C.T. Lighting, Inc.	P	CP
Jeremy Day	Lumenpulse Lighting Inc.	Lumenpulse Lighting Inc.	O	MP
Rodger Dean	R. Dean Lighting Limited	R. Dean Lighting Limited	O	DR
Jim Digby	Event Safety Alliance	Event Safety Alliance	O	U
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
James Eade	ABTT	ABTT	O	G
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR
Nehad El-Sherif	Nehad El-Sherif	Nehad El-Sherif	I	G
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Association	A	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Erin Grabe	ESTA	ESTA	exf	G
Mike Harwood	William F. White International	William F. White International	O	DR
Robert Haycock	Cal Performances	UC Berkeley	I	U
Mitch Hefter	Mitch Hefter	USITT	P	U
Jim Holladay	Luxence	Luxence	O	G
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U

Electrical Power Working Group Members as of 16 March 2018

Name	Company	Representing	Voting status	Int cat
John Valus_Jr.	LEX Products	Lex TM3	A	MP
Jerald Kraft	JTH Lighting Alliance	JTH Lighting Alliance	O	G
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Charles (Chuck) Kurten	Underwriters Laboratories, Inc.	Underwriters Laboratories, Inc.	O	G
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Michael Lay	Philips Color Kinetics	Philips Lighting	P	MP
George Long	Aggreko Event Services	Aggreko	P	DR
Bob Luther	Lex Products	Lex TM3	P	MP
Charles McIntyre	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Ty Mellon	Tyron J Mellon, Jr.	Tyron J Mellon, Jr.	I	G
Rick Montgomery	Motion Laboratories, Inc.	Motion Laboratories, Inc.	A	MP
Chris Moulton	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	A	U
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	O	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Karl G. Ruling	ESTA	ESTA	exf	G
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P	DR
Ford Sellers	Chauvet Lighting	Chauvet Lighting	O	MP
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
Jonny Starr	TMB	TMB	O	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Robert Timmerman	Philips Color Kinetics	Philips Lighting	O	MP
James Tomlinson	Team Tomlinson	Team Tomlinson	O	G
Stephen Vanciel	IATSE Local 631	IATSE Local 631	P	U
Art Wanuch	Entertainment Electrical Safety Association	Entertainment Electrical Safety Association	P	G
Colin Waters	TMB	TMB	O	DR

Electrical Power Working Group Members as of 16 March 2018

Name	Company	Representing	Voting status	Int cat
Mike Webb	Motion Laboratories, Inc.	Motion Laboratories, Inc.	P	MP
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Jeong Sik Yoo	Ghost LX	Ghost LX	O	DE

Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter, O = Observer member, exf = Ex Officio member (staff)

Interest Category Key: CP = Custom-market producer, DE = Designer, DR = Dealer or rental company, G = General interest, MP = Mass-market producer, U = User