

**Minutes**  
**Electrical Power Working Group**  
Sunday, 23 July 2017  
D/FW Marriott Solana & remote via WebEx  
Westlake, TX

**Presiding chairman:** Mitch Hefter; USITT; P; U

**Recording secretaries:** Erin Grabe & Karl G. Ruling; ESTA

**Members attending:**

Kevin Amick; IATSE Local 479; P; G  
Justin Bennett; University of the Incarnate Word; P; U  
James Davey; AC Power Distribution Inc.; O; CP  
Don Earl; Earl Girls, Inc.; P; DR  
Nehad El-Sherif; I; G  
Jerry Gorrell; Theatre Safety Programs; P; U  
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 Color Kinetics (Philips Lighting); P; MP  
George Long; Aggreko Event Services (Aggreko); P; DR  
Tyrone Mellon Jr.; Lex Products (Lex TM3); P; CP  
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR  
Steve Terry; Electronic Theatre Controls, Inc.; P; MP  
Stephen Vanciel; IATSE Local 631; P; U  
Ken Vannice; Ken Vannice LLC; I; G  
Art Wanuch; Entertainment Electrical Safety Association; P; G  
Mike Webb; Motion Laboratories, Inc.; P; MP  
Keith S. Woods; Lakhri Impressions Ltd., representing IATSE Local 891; P; U  
Jeong Sik Yoo; Ghost LX; O; DE

**Visitors:** Mike Garl; Mike Garl Consulting  
Bob Luther; Lex Products

**1 Opening remarks**

Mitch Hefter called the meeting to order at 9:04 by welcoming everyone to a mild summer in Westlake, Texas.

**2 Attendance and membership**

**2.1 Introduction of those present and taking attendance**

A green sign-in sheet was passed counter-clockwise around the room while self-introductions took place. Karl Ruling checked off the names on the sheet of those on-line.

**2.2 Determination of quorum**

Mitch Hefter asked voters present to raise a hand. He counted them while Erin Grabe counted the voters on-line. Hefter announced that a supermajority was present.

**2.3 Recognition of alternate voting members**

There were none to recognize.

**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

*The following voter has missed the last two meetings and is in jeopardy of a change to Observer status if this meeting is also missed:*

Don Earl; Earl Girls, Inc.; P; DR Present. No change of status.

## 2.6 Processing of new and other membership requests

*As of 29 June 2017, the following new applications or status change requests have been received:*

Mike Webb; Motion Laboratories; P; MP

Rick Montgomery; Motion Laboratories; A; MP

George Long; O to P

Jeong Sik Yoo; O; change in representation to Ghost LX

Eddie Kramer moved to accept the applications as submitted. The motion was seconded and unanimously approved by a show of hands.

## 2.7 Consensus body

The full consensus body during this meeting, including those not present, was:

Delegate	Representing	Voting status	Int. cat.
George Long	Aggreko	P	DR
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
Don Earl	Earl Girls, Inc.	P	DR
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
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
Roger Lattin	I.A.T.S.E. Local 728	P	U
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Kevin Amick	IATSE Local 479	P	G
Stephen Vanciel	IATSE Local 631	P	U
Keith S. Woods	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	A	U
Ken Vannice	Ken Vannice LLC	I	G
Tyrone Mellon Jr.	Lex TM3	P	CP
Mike Webb	Motion Laboratories, Inc.	P	MP
Rick Montgomery	Motion Laboratories, Inc.	A	MP
Nehad El-Sherif	Nehad El-Sherif	I	G
Michael Lay	Philips Lighting	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U

Delegate	Representing	Voting status	Int. cat.
Justin Bennett	University of the Incarnate Word	P	U
Mitch Hefter	USITT	P	U
	<b>Total possible</b>	19	
	<b>Subtotals by interest category</b>	1	<b>CP</b>
		0	<b>DE</b>
		3	<b>DR</b>
		4	<b>G</b>
		8	<b>U</b>
		3	<b>MP</b>

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

See *EPmin04-2017.pdf*.

Steve Terry moved to approve the minutes of the last meeting as written. The motion was seconded and unanimously approved by a show of hands.

### 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 a 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 and Erin Grabe held up copies of the pamphlets. No restraint of trade issues were brought to the attention of the assembly.

### 6 Approval of agenda

Jerry Gorrell moved to approve the agenda as drafted. The motion was seconded and unanimously approved by a show of hands.

## 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)

No news or action at this time.

### 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 BSR E1.32 – 2012 (R201x), Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires

*The recirculated letter ballot summary was distributed on 20 April 2017, see Recirculated\_BallotSmmry\_E1-32Reaff.pdf. One voter objected to the reaffirmation, suggesting revision instead. A resolution to the objection will need to be drafted, approved, and sent to the objector before the vote can move to the TSC.*

There was discussion on the reasons for the No vote from Stephen Vanciel. The consensus of the group is that the first two reasons would make no substantive change, but that accepting the third reason and making the recommended changes would. It was suggested the resolution to the third reason would be, “Make no change, but the commenter is invited to develop language to be added in a future revision of the standard.”

Steve Terry moved to accept the first reason's suggested change, accept the second reason's suggested change in principal—add to 6, but not to 7—and “Make no change, but the commenter is invited to develop language to be added in a future revision of the standard,” as a resolution to the third reason. The motion was seconded and unanimously approved by a show of hands, with no abstentions and no opposition. With 18 votes present out of a voting body of 19, this was a supermajority of the working group voting in favor of the motion.

### 7.5 BSR E1.51 - A Canadian E1.18

*See E1-51\_CmmntSmmry.pdf. Comments were received and need to be resolved.*

Mitch Hefter noted that comments were received in public review. The working group functioned as a task group to decide on language for the resolutions and addressed comments 1, 3, 4, and 5.

The working group recessed for a short break at 10:31.

When the working group reconvened, Mitch Hefter noted that resolutions had been agreed to for objections 1, 3, 4, and 5, but that the task group needs to work on objection 2. The draft resolutions document developed at this meeting will be sent to the task group, and the task group should send the final proposed resolutions document back to ESTA staff for distribution when it is complete. (See E1-51\_DraftResols.pdf for the resolutions drafted at the meeting.)

### 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 BSR E1.58 – Indoor equipment outdoors

*See E1-58\_RevwSmmry.pdf. One Yes with comments was received. Unless anyone has new objections to the content of the draft standard, the next step would be to entertain a motion to accept the document as an American National Standard.*

Steve Terry moved to accept the draft standard as an American National Standard. The motion was seconded.

The public review comment was briefly discussed. The commenter expressed no objections or misgivings about the standard; there was nothing to be resolved. By consensus, the response to the commenter was agreed to be, "Thank you for your comment."

## **8 New business**

### **8.1 Portable Power Distribution Equipment for Canada**

*CSA-300 was in public review for 22 days, from 27 June through 19 July 2017.*

Ty Melon addressed the group. He is now a member of the CSA committee developing the standard—one of only two people from the entertainment industry on the committee, the other being Rodger Dean. Most of the members are from mining and manufacturing.

He said that if the standard were to be approved as is, equipment would inevitably get larger because of the required connector spacing. He said that the CSA group developing the standard is good about considering comments that are specific, but not so willing to consider vague suggestions. There will be a meeting to review the most recent public review comments on 19 August. Ty hopes that this will result in a revised draft being made available for another public review.

## **9 Other business and announcements**

### **9.1 INNOVA**

Karl Ruling noted that USITT and ESTA have partnered to create 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](mailto:standards@esta.org) to be put in touch with someone. He said that it is a good deal for USITT, ESTA, and presenters, who all share in royalties from the sale of the training videos.

### **9.2 Please Direct People to ESTA's Website for Standards**

Working group members were directed to read the following appeal, printed in the meeting agenda:

When you want people to be aware of our standards, or to put a copy in front of them, please direct them to [http://tsp.esta.org/tsp/documents/published\\_docs.php](http://tsp.esta.org/tsp/documents/published_docs.php) rather than providing copies on your own website or direct links to the published standards. There are several reasons for this.

1. The free downloads are sponsored by ProSight Specialty Insurance, which benefits from the promotion and from the opportunity people have to click on "Please send me more information about entertainment insurance." We need to earn their continued support by helping their sponsorship to return some value to them.
2. Some of the websites offering our standards are not up to date and list superseded standards as though they are the latest version. This could cause problems for the host company and our industry, because requirements in an old standard may not be the same as the requirements in a later version of that standard. Superseded standards are still available from ESTA, but they are watermarked, "Superseded," so people can get them if they need them, but it is clear that the old standards are not the current editions.
3. If you direct people to ESTA's site, they might also see the plea to help support the TSP as an Investor in Innovation. We need continuing support from the industry, and the broader that support is, the more secure we are and the less the burden is on any individual donor.
4. If you direct people to ESTA's site, they might see some other standards that will help them in their work. At a minimum, they will see the depth of the offerings and understand that there is standards work being done in a number of areas affecting our industry.

Please, promote your work with the TSP on your website. List all of the standards for this working group, that you've personally worked on, or that are pertinent to your business, but, please, direct people to [http://tsp.esta.org/tsp/documents/published\\_docs.php](http://tsp.esta.org/tsp/documents/published_docs.php) to download the standards. If nothing else, doing so

would lessen your workload, because you wouldn't have to update the page every time a standard is reaffirmed or revised. That saves you time and money and perhaps makes a little money for the TSP.

### **9.3 NEC proposals**

Steve Terry mentioned that the deadline for proposed changes to the NEC to be submitted under the USITT banner is 31 July for review and submission to the NEC by 7 September.

### **10 Schedule for future meetings**

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

#### **10.1 November meeting**

Mitch Hefter noted that the next meeting is scheduled for Friday, 17 November 2017, at 7:00 p.m. at the Tropicana Hotel in Las Vegas.

#### **10.2 January ESTA meetings**

Mitch Hefter said that the January meetings will take place in conjunction with the NAMM show in Anaheim, CA, which is scheduled for 25-28 January 2018. Michael Lay noted that there will be a big push for entertainment technology educational content and that an ESTA committee is working with NAMM to provide this.

### **11 Adjournment**

Larry Schoeneman moved to adjourn. The motion was seconded. Hearing no objections, Mitch Hefter declared the meeting adjourned at 11:09 a.m. CDT.

Electrical Power Working Group Members as of 1 August 2017

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.	AC Power Distribution Inc.	O	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
Mitch Hefter	Mitch Hefter	USITT	P	U
Jim Holladay	Luxence	Luxence	O	G
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
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
Tyrone Mellon_Jr.	Lex Products	Lex TM3	P	CP
Rick Montgomery	Motion Laboratories, Inc.	Motion Laboratories, Inc.	A	MP
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	O	U

Electrical Power Working Group Members as of 1 August 2017

Name	Company	Representing	Voting status	Int. cat.
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
Ken Vannice	Ken Vannice LLC	Ken Vannice LLC	I	G
Art Wanuch	Entertainment Electrical Safety Association	Entertainment Electrical Safety Association	P	G
Colin Waters	TMB	TMB	O	DR
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