

Minutes
Electrical Power Working Group
Friday, 20 January 2017
D/FW Marriott Solana
Westlake, TX

Presiding co-chairpersons:

Mitch Hefter; USITT; P; U
Ken Vannice; Ken Vannice LLC; I; G

Recording secretaries:

Karl G. Ruling and Erin Grabe; ESTA

Members in attendance:

Kevin Amick; IATSE Local 479; IATSE Local 479; P; G
Matthew Antonucci; Contract Services Administration Trust Fund; 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
Tyrone Mellon_Jr.; Lex Products; Lex TM3; P; CP
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
Bob Luther; Lex Products; Lex TM3; A; CP
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Stephen Vanciel; IATSE Local 631; P; U
Art Wanuch; Entertainment Electrical Safety Committee of Ontario; P; G
Keith S. Woods; Lakhri Impressions Ltd.; IATSE Local 891; P; U

Visitors:

Don Parman; ActSafe Safety Association
Milton Davis; Doug Fleenor Design

1 Opening remarks

Mitch Hefter called the meeting to order at 9:03 a.m. with a comment about the slightly better weather than average for January here in Texas, likely a nice change of pace for many people here.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

A chartreuse-colored sign-in sheet was passed around the table clockwise while self-introductions took place counter-clockwise.

2.2 Determination of quorum

By a count of voters' raised hands, Mitch Hefter announced a supermajority present.

2.3 Recognition of alternate voting members

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 there were no voters in jeopardy of a change to Observer status due to lack of attendance.

2.6 Processing of new and other membership requests

Mitch Hefter read the new applications received as of 20 January 2017.

Simon Hunt; IATSE Local 891; A; U
Alyxzander Bear; Insomniac; O; DE

Keith Woods moved to approve the new applications. The motion was seconded and approved by a show of hands.

2.7 Removed: Not renewing for 2017

Mitch Hefter noted that the following individuals were not going to renew for 2017.

Darry Ross; TMB; P; MP
Robert Harris; IATSE Local 891; O; U

2.8 Consensus body

The full consensus body of this group at the time of this meeting, including those not present, was:

Name	Representing	Voting status	Interest category
George Long	Aggreko	P	DR
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Heather Rowe	Contract Services Administration Trust Fund	A	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 Committee of Ontario	P	G
Ian Foulds	Entertainment Electrical Safety Committee of Ontario	A	G
Rodger Dean	Entertainment Electrical Safety Committee of Ontario	A	G
Hans Lau	Filmgear, Inc.	P	MP
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
Bob Luther	Lex TM3	A	CP
Nehad El-Sherif	Nehad El-Sherif	I	G

Name	Representing	Voting status	Interest category
Michael Lay	Philips Lighting	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Justin Bennett	University of the Incarnate Word	P	U
Mitch Hefter	USITT	P	U
Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter			
Votes by Interest Category:			
Custom-market producer		CP	1
Designer		DE	0
Dealer or rental company		DR	3
General interest		G	4
Mass-market producer		MP	3
User		U	8
Total votes possible:			19

3 Approval of the minutes from the previous meeting

See *EPmin10-2016.pdf*.

Roger Lattin moved to approve the minutes as drafted. The motion was seconded and approved by a show of hands, 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 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 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.

Erin Grabe and Karl Ruling held up copies of the pamphlet. Nothing was reported, and no copies of the pamphlet were requested.

6 Approval of agenda

Steve Terry moved to approve the agenda as drafted. The motion was seconded. In light of a question by Eddie Kramer regarding items 7.5 and 7.6, Ty Mellon suggested that items 7.5 and 7.6 swap places. The motion was amended to reflect the change in the agenda, was seconded, and was approved by a show of hands.

7 Old business - task group reports

7.1 ANSI E1.16-2002 (R2012) Configuration Standard for Metal Halide Ballast Power Cables (Revision, reaffirmation, or withdrawal by 15 October 2017)

Michael Lay moved to reaffirm this standard; the motion was seconded. A letter ballot will be issued to the working group, concurrent with a public review.

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 BSR E1.24 – 2012 (R201x), pin connectors (Revision, reaffirmation, or withdrawal by 10 January 2017)

Mitch Hefter noted that this document was in public review until the end of the day on 2 January, concurrent with a letter ballot to reaffirm the standard. Summaries were distributed. Since no comments were received, the measure was brought to the TSC via a letter ballot that times out on 25 January 2017.

7.4 ANSI E1.32 - 2012, Guide for the Inspection of Entertainment Industry Incandescent Lamp Luminaires (Revision, reaffirmation, or withdrawal by 3 July 2017)

Eddie Kramer moved to reaffirm the standard. The motion was seconded. A letter ballot will be issued to the working group concurrent with a public review.

7.5 A proposal about Portable Power Distribution Equipment for Canada

CSA-300 is in public review until 24 January 2017.

Ken Vannice spoke. He said that, if the changes in this document are approved as is, manufacturers would need to redesign equipment, causing an undue burden on our small industry. He noted that all portable generators in Canada would be affected. Ken Vannice offered to distribute the comments he wrote to the EPWG. Members could use these words as a basis for making their own comments, but not for copying and pasting. Ken Vannice read his full comments, as follows:

This specialized equipment is already Listed for use in Canada by UL and ETL. It is Listed for use in the US to UL 1640 and Listed for use in Canada to CSA C22.2 No.14. Since the CSA C22.2 No 14 is a general-use standard all this equipment design is essentially to UL 1640 and "blessed" by CSA C22.2 No 14. You are writing a standard specifically for this equipment that is not in alignment with the existing equipment. If this standard is not brought into alignment it will render all existing equipment unusable when the next event is inspected. Manufacturers will have to re-design their equipment to this new standard. This will be an undue burden on these manufacturers because this is a small industry.

This equipment employs connectors covered by the bi-national standard CSA C22.2 No 1691 / UL 1691. You are creating separate national standards for the use of these bi-national connectors. This issue needs to be resolved.

I was looking forward for the release of this standard for public review. I just found out about it so I have no time to do a comprehensive review. I have been involved with these issues since 1984 through membership on NEC CMP 15 and C22.1 Section 44. I would be happy to help.

Listing/Certification of equipment and licensing of electricians deals with the legality of the use of this equipment. It does not deal with the competency of those using this equipment. That is covered by a bi-national entertainment certification. It is hard to test for competency when the candidate needs to use two different sets of rules and keep them separate. Bi-nationalism is important to the entertainment industry.

Karl Ruling noted that individual EPWG members can comment in the public review, this does not have to be an EPWG project.

Eddie Kramer noted that perhaps the request should be to pull out the ET industry and let the document affect mining and construction equipment. Steve Terry said that going this route will take too long and have too many caveats and exceptions.

The general consensus was to comment and then find out who is writing this document.

7.6 BSR E1.51 - A Canadian E1.18

From the draft October minutes:

Comments were received and need to be resolved. See the comment summary, E1-51_5thRevwCmmntSmmry_r1.pdf. Draft comment resolutions to come or be developed by the working group.

Art Wanuch said that so many changes were being done to the Canadian Electrical Code that we would do well to delay action on this document until we see what those changes are. He moved that we delay action until our March meeting. The motion was seconded by Keith Woods. There was discussion. The motion was accepted by a show of hands and voice votes. Mitch Hefter announced that the motion carried.

7.7 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.

7.8 BSR E1.58, Electrical Safety Standard for Portable Stage and Studio Equipment Used Outdoors

For your consideration, see BSR_E1-58_201x_EP-2015-7020r2.pdf, the latest draft of E1.58 from the task group.

Steve Vanciel noted that the draft was distributed, which was modified in an attempt to satisfy the group's suggestions from the last meeting. Some comments were received from the working group, but he asked if there were any further questions, comments, or suggestions.

Ken Vannice offered some of his comments on the draft standard, which he described as a good start. This led to further discussion of the notes he had offered before with the file names "KenVannice_More Notes on Using Indoor Equipment Outdoors" and "KenVannice_Additional Requirements for Wet Locations for Stage Luminaires Per UL 1573."

There was further discussion of the draft standard and how much detail it should give on evaluating equipment, the environment that it is being used in, the interaction between the two, and the steps that might be taken to mitigate any problems.

The task group requested a meeting by WebEx in February so they can have a better document for the March working group meeting.

There was another question about the relevancy of IP ratings in the US. Karl Ruling suggested that the group reference IP ratings, if IP ratings are what the group would like to reference. Ken Vannice noted that you'd have to also suggest equivalent NEMA ratings, because they are the law. There was some more discussion on IP rating relevance and practicality in a US document.

8 New business

None.

9 Other business

9.1 NEC 2020

Steve Terry announced that the NEC is open for comments for the 2020 edition. (See <http://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards?mode=code&code=70&tab=nextedition>.) He then asked Ken Vannice how the USITT NEC comment aggregation committee planned to proceed. Ken Vannice said that he was willing to accept comments, so send them to him.

Steve Terry added that he will propose a class of conditions for cable called “protected applications,” which would be places where SJ cable can be used in Section 520 venues without failure. Ken Vannice said this proposal would bring 520 power cable requirements into line with Sections 518 and 530.

9.1 TSP Funding

Karl Ruling spoke about the fundraising campaign and the 55 people and companies that have made long-term pledges, noting that the prognosis for ending 2017 in the black is good. However, all is not safe or calm; attention to the problem is still needed to avoid falling into a pit. Alan Rowe added that we cannot take our foot off the gas.

Steve Terry said that there should be a snow-ball effect, where companies see their competitors on the list of donors and decide to add their names, too.

9.3 Above & Beyond Awards

The nomination site is open year-round at <http://tsp.esta.org/AboveandBeyond>.

Michael Lay said that no nominations were received last year and asked the group to nominate their peers this year.

9.4 Other other business

10 Schedule for future meetings

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

10.1 USITT 2017

Mitch Hefter said that the next EPWG meeting is scheduled for 9:00 a.m. on Thursday, 9 March 2017, at the Marriott St. Louis Grand.

10.2 July meetings

Mitch Hefter said that the July meeting is scheduled for 9:00 a.m. on Sunday, 23 July 2017, at the D/FW Marriott Solana, but that the schedule is not normal due to conflicts with the IA convention.

11 Adjournment

Roger Lattin moved that we adjourn, and said that he had some tool show-and-tell for after the meeting. The motion was seconded. Hearing no objections, Mitch Hefter declared the meeting adjourned at 10:46.

Electrical Power Working Group Members as of 20 January 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
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
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	Entertainment Electrical Safety Committee of Ontario	A	G
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
Brian Eustace	Mole-Richardson Co.	Mole-Richardson Co.	O	CP
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	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
Tyrone Mellon_Jr.	Lex Products	Lex TM3	P	CP
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
Hans Lau	Filmgear, Inc.	Filmgear, Inc.	P	MP
Michael Lay	Philips Color Kinetics	Philips Lighting	P	MP

Electrical Power Working Group Members as of 20 January 2017

Name	Company	Representing	Voting status	Int cat
Nathan Leonard	Bender Incorporated	Bender GmbH & Co. KG	O	MP
George Long	Aggreko Event Services	Aggreko	P	DR
Bob Luther	Lex Products	Lex TM3	A	CP
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	O	MP
Kevin O'Brien	Bestek Lighting & Staging	Bestek Lighting & Staging	O	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
Heather Rowe	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	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	EESCO	Entertainment Electrical Safety Committee of Ontario	P	G
Colin Waters	TMB	TMB	O	DR
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Jeong Sik Yoo	Korea Testing Laboratory	Korea Testing Laboratory / Theatre Safety Center	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