

Minutes
Electrical Power Working Group

Friday, 21 October 2016
Embassy Suites
3600 Paradise Road
Las Vegas, NV 89169

Presiding co-chairpersons:

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

Recording secretaries:

Karl Ruling and Erin Grabe; ESTA

Members in attendance:

Kevin Amick; IATSE Local 479; P; G
Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Louis Bradfield; O; U
Richard Cadena; Academy of Production Technology; O; G
Ron Dahlquist; Dadco; O; MP
Don Earl; Earl Girls, Inc.; P; DR
Nehad El-Sherif; I; G
Jerry Gorrell; Theatre Safety Programs; P; U
Mike Harwood; William F. White International; O; DR
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
Hans Lau; Filmgear, Inc.; P; MP
George Long; Aggreko Event Services; Aggreko; P; DR
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
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

1 Opening remarks

Ken Vannice called the meeting to order at 7:00 p.m.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

A yellow sign-in sheet was passed counterclockwise around the room while self-introductions took place clockwise. Mitch Hefter offered regrets from Mike Lay and Steve Terry who are unable to attend.

2.2 Determination of quorum

By counting a show of hands and voters online, a quorum and supermajority were announced present by Mitch Hefter and Ken Vannice.

2.3 Recognition of alternate voting members

2.4 Requirements for membership

The following statement was read aloud to the assembly by Ken Vannice:

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

Ken Vannice noted that the following members have missed the last three meetings and are being moved to observer status:

James Eade; ABTT; P; G
James Davey; AC Power Distribution Inc.; P; CP

2.6 Processing of new and other membership requests

Kevin Amick; IATSE Local 479; P; G
Nathan Leonard; Bender; P; MP (accepted as Observer)
Jeong Sik Yoo; Korea Testing Laboratory / Theatre Safety Center; P; DE (accepted as Observer)
Hans Lau; Filmgear, Inc.; P; MP
Ron Dahlquist; Dadco; O; MP

Roger Lattin moved that the applications be accepted, with those not present being accepted as observer members. The motion was seconded and approved by a show of hands.

2.7 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
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
Michael Lay	Philips Lighting	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Darryl Ross	TMB	P	MP

Name	Representing	Voting status	Interest category
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	4
User		U	8
Total votes possible:			20

3 Approval of the minutes from the previous meeting

See *EPmin07-2016.pdf*.

Eddie Kramer moved to approve the minutes as drafted. The motion was seconded and approved by a show of hands.

4 Reading of the call for patents

The following statement was read aloud to the assembly by Ken Vannice:

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 Ken Vannice:

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.

Both Erin and Karl held up copies of the pamphlet to show that it was available.

6 Approval of agenda

Roger Lattin added NEC 2017 code changes in Other business. Eddie Kramer moved to approve the agenda as amended. The motion was seconded and 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 2017)

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 2020)

No news or action at this time.

7.3 ANSI E1.24 - 2012, pin connectors (Revision, reaffirmation, or withdrawal by 2017)

Eddie Kramer moved that we reaffirm the standard. The motion was seconded. There was some discussion of UL's use of this standard. The motion carried by a unanimous show of hands. A public review and letter ballot to the EPWG will be done.

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

No news or action at this time.

7.5 BSR E1.51 - A Canadian E1.18

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.

Keith Woods said that revisions of the CEC are currently underway (C22.1 amendment, subject number 4148), including a proposal to move some subsections from section 66 to 76. He noted that these changed, if approved, would change the scope of this draft standard. Keith Woods then moved that further action on this project, including comment resolution, be postponed until the CEC revisions are done around March 2017. There was discussion. The motion was amended to postpone further action until the January meeting. The motion carried with 17 in favor, none opposed, and no abstentions. No further action will be taken at this time.

7.6 A proposal about Portable Power Distribution Equipment for Canada

Art Wanuch reported that the substantive work of the committee is done, but that the document is being cleaned up. The public review might be in November or December.

7.7 ANSI E1.53 - 2016, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice

Ken Vannice noted that the standard is approved and published. No other news or action at this time.

The group took a break from 7:49 p.m. to 8:01 p.m.

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

Steve Vanciel said that the latest draft was distributed to the group. He then moved to offer the draft standard for its first public review. The motion was seconded. Ken Vannice noted that he had made some comments which were also distributed to the group. There was some discussion between Ken Vannice and Steve Vanciel about potential conflicts with this document and the NEC. There was further discussion about other potential problems with this document, including a potential lack of recommendations and requirements.

Eddie Kramer called the question. Ken Vannice asked for a show of hands in favor of the question being called. By a count of those hands, Ken Vannice announced the discussion over and called for a vote on the motion on the floor. By a show of hands, six in favor, and seven opposed, the motion failed. The task group will continue work on the draft standard.

8 New business

No new business..

9 Other business

9.1 PoE cables and the 2017 NEC

Mitch Hefter explained the problem: high levels of power being distributed over Ethernet cable which has lead to changes in the NEC 2017. High currents can generate heat in cable bundles. The new NEC sets a limit of 60 W for PoE to be covered in Chapter 8. At levels above this, PoE cabling will have to be treated as Class 2 wiring and there is a new table addressing rules for cable bundles.

9.2 TSP Funding

Karl Ruling spoke to the group regarding the TSP budget shortfalls. The TSP is actively seeking five-year commitments for contributions of \$1,000, \$2,500, \$5,000, \$10,000, or more, from companies of any size. Contributing companies will be added to the Investors in Innovation list. Without continued donations from the Investors in Innovation, the TSP will cease to exist, and with it all of the published ANSI standards will no longer be American National Standards. See *FundraisingScript.pdf* for information to use in helping us connect with someone in your company that can be approached for a contribution.

9.3 Above & Beyond Awards

Ken Vannice noted that the nomination site is open year-round at <http://tsp.esta.org/AboveandBeyond>.

9.4 Other other business

10 Schedule for future meetings

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

Ken Vannice noted that the January meetings are scheduled for 18-23 January 2017 at the D/FW Marriott Solana in Westlake, TX. The group consensus was to meet in January.

11 Adjournment

Larry Schoeneman moved to adjourn. The motion was seconded. Hearing no objections, Ken Vannice declared the meeting adjourned at 8:51 p.m.

Electrical Power Working Group Members as of 21 October 2016

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
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
Robert P. Harris	IATSE Local 891	IATSE Local 891	O	U
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

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Name	Company	Representing	Voting status	Int cat
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
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
Jeff T. Miller	Worldwide Standards and Auditing	Walt Disney Company	O	U
Kevin O'Brien	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	O	U
Darryl Ross	TMB	TMB	P	MP
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

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Ken Vannice	Ken Vannice LLC	Ken Vannice LLC	I	G
Art Wanuch	Entertainment Electrical Safety Committee of Ontario	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