

Minutes
Electrical Power Working Group
Friday 5 October 2018
D/FW Marriott Solana
Westlake, TX

Chairpersons:

Mitch Hefter; USITT; P; U (Presiding)
Justin Bennett; University of the Incarnate Word; P; U

Recording secretaries:

Karl Ruling and Richard Nix, ESTA

Attendees:

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
James Davey; A.C.T. Lighting, Inc.; P; CP
Art Wanuch; Entertainment Electrical Safety Association; P; G
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
George Long; Aggreko; P; DR
Don Earl; Earl Girls, Inc.; P; DR
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
Rick Montgomery; Motion Laboratories, Inc.; A; MP
Jason Potterf; Cisco; P; MP
Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Stephen Vanciel; IATSE Local 631; P; U
Stewart Stephens; JSAV; O; G
Mike Webb; Motion Laboratories, Inc.; P; MP
Robert Haycock; UC Berkeley; I; U
Chris Moulton; Contract Services Administration Trust Fund; A; U

Visitors:

R. Duane Wilson; ASTC
Mike Garl; TSC

1 Opening remarks

Mitch Hefter called the meeting to order at 14:03.

2 Attendance and membership

2.1 Introduction of those present in-room and on-line and taking attendance

2.2 Determination of quorum

Mitch Hefter polled the voting members present in the room, and online. A supermajority was 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 Processing of new and other membership requests

Stewart Stephens applied to be an observer member.

Eddie Kramer moved Stewart Stephens be accepted as an observer. The motion was seconded and then approved unanimously. (This item was done out of time order, after New business because Stewart arrived late.)

2.6 Changes to observer status

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

Tyron J Mellon, Jr.; General interest

Ty Mellon was not present, so his status was changed to that of Observer in accordance with the TSP's *Policies and Procedures*.

2.7 Consensus body

The consensus body during this meeting, after processing of applications and status change requests, including those not present, is shown below.

Delegate	Representing	Voting status	Int. cat.
James Davey	A.C.T. Lighting, Inc.	P	CP
George Long	Aggreko	P	DR
Jason Potterf	Cisco	P	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Chris Moulton	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 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
Charles McIntyre	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Kevin Amick	IATSE Local 479	P	G
John (JA) Byerly	IATSE Local 479	A	U
Stephen Vanciel	IATSE Local 631	P	U
Simon Hunt	IATSE Local 891	A	U
Keith S. Woods	IATSE Local 891	P	U
Bob Luther	Lex TM3	P	MP
John Valus, Jr.	Lex TM3	A	MP
Mitch Hefter	USITT	P	U
Mike Webb	Motion Laboratories, Inc.	P	MP
Rick Montgomery	Motion Laboratories, Inc.	A	MP
Nehad El-Sherif	Nehad El-Sherif	I	G

Delegate	Representing	Voting status	Int. cat.
Rodger Dean	R. Dean Lighting Limited	P	DR
Michael Lay	Signify	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Robert Haycock	UC Berkeley	I	U
Justin Bennett	University of the Incarnate Word	P	U
	Total votes possible	22	
	Votes by interest categories	1	CP
		0	DE
		4	DR
		4	G
		5	MP
		9	U

3 Approval of the minutes from the previous meeting

See *EPmin07-2018 DRAFT.pdf*.

Eddie Kramer moved to approve the March minutes as written. The motion was seconded and carried unanimously.

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 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.

Richard Nix held up an easy-to-read pamphlet. No antitrust issues were brought forth.

6 Approval of agenda

[See EPag10-2018 DRAFT.pdf]

Roger Lattin asked for a discussion of EMF radiation and cancer to be added under “Other business.”

Don Earl moved that the modified agenda be accepted. The motion was seconded, and was carried by unanimous 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 action or news 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 action or news at this time.

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

No action or news 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)

No action or news at this time.

7.5 BSR E1.51, A Canadian E1.18

Update on status.

The BSR9 form for final acceptance has been filed with ANSI, Ruling reported. There has been no response yet from ANSI staff other than an acknowledgment of the submission.

7.6 BSR E1.53 – 2016, Overhead mounting of luminaires, lighting accessories, and other portable devices: specification and practice

It's in public review, Ruling reported.

7.7 ANSI E1.58 – 2017, – Indoor equipment outdoors (Reaffirmation, revision, or withdrawal by 11 October 2022)

No action or news at this time.

7.8 BSR E1.65, Recommended practice for the periodic inspection, testing, and maintenance of Electrical and Electronic equipment used in the entertainment and live event industries

“This standard will establish the minimum requirements for periodic inspection and maintenance of electrical systems and equipment used in the entertainment and live event industries. It is intended to complement, not replace, the guidance offered in NFPA 70E, NFPA 70B, NFPA 78, and equipment manufacturers' instructions.”
Status update.

Eddie Kramer reported on recent task group meetings. Steve Terry posed a series of questions to help clarify scope, and there was discussion.

- What is the intended audience? The consensus was that perhaps the most appropriate audience is facility managers and operators, both qualified and unqualified.
- Would it be used for training?
- What types of equipment are in its scope? The consensus was that both permanent & portable production equipment could be included.
- What's excluded?
- Terry suggested a 600 V upper limit, since some power distribution is at 480 volts.

- Is there potential for procedural complexity?
- Terry suggested that the problem to be solved should be in the scope.

A task group meeting is scheduled for Anaheim, during the NAMM meeting cycle. Both Justin Bennett and Mitch Hefter were added to the task group and its email reflector, e1-65@esta.org.

7.9 Multiconductor cable project

At the last meeting, Steve Terry moved to defer the project due to insurmountable technical issues. He has a proposed solution.

There was discussion of Steve Terry's proposal (NEC 2023 Proposal Multi-Circuit Cable Systems.pdf).

Eddie Kramer proposed we develop a guidance document on cable marking, congruent with point 6 in Steve Terry's proposal, stating to the effect that "All multi-circuit, multipole connectors shall be clearly marked with the voltage of the branch circuits serviced by the connector." This was not taken up as a new work project.

Mitch Hefter asked working group members to submit comments on Terry's proposal to Steve Terry.

8 New business

None.

9 Other business and announcements

Roger Lattin said that someone in his Local had expressed concern about a correlation between EMF radiation and cancer. The concern initially expressed was about the low-frequency radiation of electrical power distribution, but the gist of the conversation was that people thought higher frequency radiation is more likely to be a health concern.

Jerry Gorrell moved that we refer the concern about non-ionizing electromagnetic radiation as a possible carcinogen to the USITT's Safety and Health Commission. The motion was seconded, and carried without opposition.

9.1 Education

9.1.1 INNOVA

Mitch Hefter reminded the assembly 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

Mitch Hefter reminded everyone that we are once again partnering with NAMM to provide workshops in January. All available content slots have been filled.

9.2 Above & Beyond Awards

Mitch Hefter reminded the assembly that the nomination site is open year round at http://tsp.esta.org/tsp/news/award_nomination.html. Nominate your peers!

10 Schedule for future meetings

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

10.1 January meeting

The January ESTA meetings are taking place in conjunction with the NAMM show in Anaheim, California.

Don Earl moved to cancel the January meeting at NAMM. The motion was seconded and, after discussion, the motion carried without opposition.

10.2 March meeting

The March meeting is scheduled to be held in conjunction with the USITT Conference and Stage Expo, which is scheduled for March 20 through 23 in Louisville, KY. There was no expressed opposition to meeting then.

11 Adjournment

Steve Vanciel moved to adjourn the meeting. The agenda being completed, and hearing no objections, Mitch Hefter declared the meeting adjourned at 15:19.

Electrical Power Working Group Members as of 22 October 2018

Name	Representing	Status	Int Cat
Kevin Amick	IATSE Local 479	P	G
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Robert Barbagallo	Solotech Inc.	O	DR
Alyxander Bear	Insomniac	O	DE
Justin Bennett	University of the Incarnate Word	P	U
Louis Bradfield	Louis Bradfield	O	U
John (JA) Byerly	IATSE Local 479	A	U
Richard Cadena	Academy of Production Technology	O	G
James Davey	A.C.T. Lighting, Inc.	P	CP
Jeremy Day	Lumenpulse Lighting Inc.	O	MP
Rodger Dean	R. Dean Lighting Limited	P	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
Jerry Gorrell	Theatre Safety Programs	P	U
Mike Harwood	William F. White International	O	DR
Robert Haycock	UC Berkeley	I	U
Mitch Hefter	USITT	P	U
Jim Holladay	Luxence	O	G
Simon Hunt	IATSE Local 891	A	U
John Valus_Jr.	Lex TM3	A	MP
Jerald Kraft	JTH Lighting Alliance	O	G
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Charles (Chuck) Kurten	Underwriters Laboratories, Inc.	O	G
Roger Lattin	I.A.T.S.E. Local 728	P	U

Electrical Power Working Group Members as of 22 October 2018

Name	Representing	Status	Int Cat
Michael Lay	Signify	P	MP
George Long	Aggreko	P	DR
Bob Luther	Lex TM3	P	MP
Charles McIntyre	I.A.T.S.E. Local 728	A	U
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	O	U
Jason Potterf	Cisco	P	MP
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
Ford Sellers	Chauvet Lighting	O	MP
Mike Skinner	Alliance of Motion Picture and Television Producers	O	U
Jonny Starr	TMB	O	MP
Stewart Stephens	Ashford Management Group	O	G
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
Robert Timmerman	Signify	O	MP
James Tomlinson	Team Tomlinson	O	G
Stephen Vanciel	IATSE Local 631	P	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