

Minutes
Electrical Power Working Group
Friday 22 March 2019
Hyatt Regency Louisville
Louisville, KY

Presiding chairman: Justin Bennett; University of the Incarnate Word

Recording secretaries: Richard Nix and Karl Ruling; ESTA

Members attending:

Justin Bennett; University of the Incarnate Word; P; U
James Davey; A.C.T. Lighting, Inc.; P; CP
Robert Haycock; UC Berkeley; I; U
Mitch Heffer; USITT; P; U
Nick Holmberg; PSAV; P; DR
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; Signify; P; MP
Bob Luther; Lex TM3; P; MP
Rick Montgomery; Motion Laboratories, Inc.; A; MP
Jason Potterf; Cisco; P; MP
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
Wendy Russell; Electronic Theatre Controls, Inc; A; MP
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Stephen Vanciel; IATSE Local 631; P; U
Ken Wagner; Ken Wagner; I; U
Art Wanuch; Entertainment Electrical Safety Association; P; G
Mike Webb; Motion Laboratories, Inc.; P; MP
Keith S. Woods; IATSE Local 891; P; U

No visitors.

ESTA staff attending: Erin Grabe, Richard J. Nix, and Karl G. Ruling

1 Opening remarks

Justin Bennett called the meeting to order at 11:07, welcoming everyone to sunny Louisville, only 48 degrees but warmer than expected. He reminded everyone to silence their phones and to mute microphones if on-line and not speaking. He provided the meeting room's WiFi information for the in-person attendees' use.

2 Attendance and membership

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

A bright green sign-in sheet was circulated, as those in the room and on-line introduced themselves.

2.2 Determination of quorum

The voting body, as of 4 March 2019, is 22. Therefore, a quorum is at least 8. The minimum in attendance to be able to pass a motion requiring a supermajority would be 12.

Justin Bennett announced that more than 50% of the voting body was present.

2.3 Recognition of alternate voting members

There were no alternates voting instead of their principals.

2.4 Requirements for membership

Justin Bennett read the following statement aloud to the assembly:

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

The following requests had been received:

Nick Holmberg; PSAV; Principal; Dealer/Rental Company
 Wendy Russell; Electronic Theatre Controls, Inc.; Alternate; Mass-market Producer
 Ken Wagner; self; Individual; User

Eddie Kramer moved to accept the applications. The motion was seconded and carried without opposition on a voice vote.

2.6 Changes to observer status

None.

2.7 Consensus body

The consensus body during this meeting was:

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
Wendy Russell	Electronic Theatre Controls, Inc.	A	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	G
Stephen Vanciel	IATSE Local 631	P	U
Simon Hunt	IATSE Local 891	A	U
Keith S. Woods	IATSE Local 891	P	U
Ken Wagner	Ken Wagner	I	U
Bob Luther	Lex TM3	P	MP
John Valus, Jr.	Lex TM3	A	MP

Delegate	Representing	Voting status	Int. cat.
Nick Holmberg	PSAV	P	DR
Mike Webb	Motion Laboratories, Inc.	P	MP
Rick Montgomery	Motion Laboratories, Inc.	A	MP
Nehad El-Sherif	Nehad El-Sherif	I	G
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
Mitch Hefter	USITT	P	U
	Total votes possible	24	
	Votes by interest categories	1	CP
		0	DE
		5	DR
		3	G
		5	MP
		10	U

3 Approval of the minutes from the previous meeting

See *EPmin10-2018r1_DRAFT.pdf*.

Eddie Kramer moved to approve the minutes as drafted. The motion was seconded and carried with no objection and one abstention.

4 Reading of the call for patents

The following statement was read aloud to the assembly by Justin Bennett:

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 Justin Bennett:

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.

Karl Ruling held up one of the easy-to-read pamphlets to show it was available.

6 Approval of agenda

Mitch Hefter asked that a report be added under “Other business” regarding legislation attempting to redefine “low-voltage” electrical work. Robert Haycock moved that the modified agenda be accepted. The motion was seconded and then approved unanimously.

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)

Bob Luther initiated a discussion of recent changes to the NEC that allows ground-fault protection with a nominal 20 mA trip point and whether this might suggest a change to this standard, which is only about Class A GFCI with a nominal 5 mA +/- 1 mA. Luther thinks it would benefit the industry if this were possible, but a brief discussion about code terminology seems to indicate that the code wouldn't allow use of other class devices (higher trip points) for our purposes of personnel protection. Assured grounding was also discussed. Steve Terry noted that the NEC at this time is silent on the use of cascading GFP, which is higher GFP trip-currents on higher current circuits, going to lower trip-currents on the supplied lower current circuits.

Terry suggested that we need a running list of proposals for the 2023 NEC, which might lead to changes to ESTA's E1.19 standard.

There was no immediate action on E1.19.

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 ANSI E1.51 – 2018, The Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use At 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Television, Film, Live Performance and Event Industries in Canada (Revision, reaffirmation, or withdrawal by 7 November 2023)

No action or news at this time.

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

The public review netted no comments. See E1-53_FrstRevw_Summary-NoComments.pdf. Possible next steps include a motion for approval or additional changes and further public review.

Steve Terry moved to approve the draft as an American National Standard. The motion was seconded. There was no discussion of the motion, but Steve Vanciel said he had a picture of a truss completely rigged with cable ties. The motion will be decided by letter ballot.

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.”

Eddie Kramer gave a task group progress report. The document has been outlined, and sections have been assigned for writing. The task group is:

Wendy Russell
Larry Schoeneman
Robert Haycock
Eddie Kramer
Mitch Hefter

Eddie Kramer said that the task group has a regular phone meeting schedule every three weeks: 11 April, 2 May, 23 May, 13 June, and so on.

7.9 Multiconductor cable proposal for NEC 2023

Is there anything to report? Steve Terry's proposal was presented at the last working group meeting, NEC 2023 Proposal Multi-Circuit Cable Systems.pdf. This is not an official EPWG standards-drafting project.

Terry reported that he'd met with Chuck Kurten at UL. He is a primary investigator at UL for these devices. He asked Chuck how UL would deal with these requirements for a listing. He said he didn't see any road blocks. Terry expects a response from Chuck within a few months.

Terry asked this group to look at the proposal again and make sure that it is something they can live with. Is anything a show-stopper? September 2020 will be when this proposal or any others will need to be submitted.

Bob Luther asked that the proposal be recirculated to the working group.

8 New business

The consensus was that we shall keep an agenda item that is a running list of proposal ideas for the NEC.

9 Other business and announcements

9.1 Education

9.1.1 INNOVA

Erin Grabe said that we need more stuff on the platform for us to make money and for it to stay around. It needs high-quality technical content.

9.1.2 NAMM

Karl Ruling reminded everyone that we provide content for NAMM, and asked the group to think about topics that can be presented. The same topics could be presented through the INNOVA platform as well. He also asked those who have a regular direct marketing campaign to include statements promoting the NAMM show.

9.2 Low Voltage contractor licensing

Jason Potterf reported that Cisco has been watching legislative activity that would have an impact on our industry as well as the IT network industry. This activity is to restrict the exemptions from licensure for installing Class 1, 2 and 3 low voltage circuits so that an electrical contractor's license would be required for all low-voltage control circuits controlling more than 50 watts, which would remove the licensure exemption for all stage wiring controlling moving lights, dimmers, fog machines, stage machinery, and more.

There was a lot of discussion. A head's up and Cisco's draft position statement has been sent to the TSC for its meeting.

Current legislation in Texas includes House Bill 1141 <https://capitol.texas.gov/BillLookup/History.aspx?LegSess=86R&Bill=HB1141> and Senate Bill 1004 <https://capitol.texas.gov/BillLookup/History.aspx?LegSess=86R&Bill=SB1004>.

9.3 Above & Beyond Awards

*The nomination site is open year round at http://tsp.esta.org/tsp/news/award_nomination.html.
Presentation of Above & Beyond Awards.*

The award was presented to Art Wanuch by Justin Bennett. Wanuch was recognized for his work on developing ANSI E1.51.

10 Schedule for future meetings

Visit <http://tsp.esta.org/tsp/meetings/index.php> for the most current schedule. The July TSP meetings will be around the weekend of July 19 through 21 at the Marriott Solana. No EPWG meeting is scheduled yet. The October TSP meetings will be October 26-27 at the same hotel.

The consensus was that we shall not have a meeting in July. We will have a WebEx meeting if needed for addressing letter ballot objections.

11 Adjournment

Steve Terry moved that the meeting adjourn and the motion was seconded. Furthermore, the agenda had been completed, and no further business was brought forth, so Justin Bennett declared the meeting adjourned at 12:28.

Electrical Power Working Group Members as of 15 April 2019

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
Alyxander 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
John (JA) Byerly	IATSE Local 479	IATSE Local 479	A	G
Richard Cadena	Academy of Production Technology	Academy of Production Technology	O	G
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	P	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
Mike Garl	Mike Garl Consulting LLC	Mike Garl Consulting LLC	exf	
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

Electrical Power Working Group Members as of 15 April 2019

Name	Company	Representing	Voting status	Int. cat.
Jim Holladay	Luxence	Luxence	O	G
Nick Holmberg	PSAV	PSAV	P	DR
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
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	Signify	Signify	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.	O	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
Richard J. Nix	ESTA	ESTA	exf	G
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	O	U
Jason Potterf	Cisco	Cisco	P	MP
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Karl G. Ruling	ESTA	ESTA	exf	G
Wendy Russell	Electronic Theatre Controls, Inc	Electronic Theatre Controls, Inc	A	MP
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

Electrical Power Working Group Members as of 15 April 2019

Name	Company	Representing	Voting status	Int. cat.
Jonny Starr	TMB	TMB	O	MP
Stewart Stephens	JSAV	Ashford Management Group	O	G
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Robert Timmerman	Philips Color Kinetics	Signify	O	MP
James Tomlinson	Team Tomlinson	Team Tomlinson	O	G
Stephen Vanciel	IATSE Local 631	IATSE Local 631	P	U
Ken Wagner	Ken Wagner	Ken Wagner	I	U
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