

**Minutes**  
**Electrical Power Working Group**  
Thursday 23 July 2015, 19:00 - 22:00  
Marriott Solana  
Westlake, TX

**Presiding co-chairpersons:**

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

**Recording secretaries:**

Erin Grabe; PLASA NA; exf; G  
Karl G. Ruling; PLASA NA; exf; G

**Members in attendance:**

Matthew Antonucci; Contract Services Administration Trust Fund; P; U  
Justin Bennett; University of the Incarnate Word; P; U  
Richard Dale; Bender GmbH & Co. KG; A; MP  
James Davey; AC Power Distribution Inc.; P; CP  
Michael G. Davis ; Mole-Richardson Co.; A; CP  
Rodger Dean; R. Dean Lighting Limited; Entertainment Electrical Safety Committee of Ontario; A; G  
Casey Diers; DesignLab Chicago, Inc.; A; DR  
Don Earl; Earl Girls, Inc.; P; DR  
Nehad El-Sherif; Littelfuse Startco; P; MP  
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; Royal Philips; P; MP  
George Long; Aggreko Event Services; Aggreko; O; DR  
Tyrone Mellon, Jr.; Lex Products Corp.; P; CP  
Alan M. Rowe; I.A.T.S.E. Local 728; A; U  
Steve Terry; Electronic Theatre Controls, Inc.; P; MP  
Keith S. Woods; Lakhri Impressions Ltd.; IATSE Local 891; P; U

**Visitors:**

Fred Kosiewski; Disney Creative Entertainment

**1 Opening remarks**

The meeting was called to order by Ken Vannice at 19:00. He welcomed all to the EPWG meeting in Westlake.

**2 Attendance and membership**

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

Self-introductions took place counterclockwise around the table while a sign-in sheet was passed to sign. Attendees via WebEx were called individually to introduce themselves.

**2.2 Determination of quorum**

By a show of hands and voice notifications from those on-line, Ken Vannice announced that more than a super-majority was present.

**2.3 Recognition of alternate voting members**

Rodger Dean, Richard Dale, and Casey Diers were recognized.

**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. 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 voters have missed the last two meetings and are in jeopardy of a change of status to observer, if this meeting is also missed:

James Eade; ABTT; G  
Ed Garstkiewicz and Howard Forryan; Harting KGAA; G

These voters were not present. Ken Vannice announced that they are now observers due to lack of attendance.

## 2.6 Processing of new and other membership requests

As of 23 July 2015 the following applications have been received and logged:

Kristen Kuipers; Newcomb & Boyd; O; DE  
Bruno Marx; Eventknowhow; O; G  
James Tomlinson; Team Tomlinson; O; G  
Richard Dale; Bender Inc. (Bender GmbH); Alternate;  
Justin Bennett; University of the Incarnate Word, Principal; User (change of representation from individual.)

Steve Terry moved to accept the applications and change in representation. The motion was seconded and approved by a show of hands and voice votes from those online.

## 2.7 Consensus body

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

Name	Representing	Voting status	Interest category
James Davey	AC Power Distribution Inc.	P	CP
Nathan Leonard	Bender GmbH & Co. KG	P	MP
Torsten Gruhn	Bender GmbH & Co. KG	A	MP
Stephen (Steve) Brock	Bender GmbH & Co. KG	A	MP
Richard Dale	Bender GmbH & Co. KG	A	MP
Matthew Antonucci	Contract Services Administration Trust Fund	P	U
Larry Schoeneman	DesignLab Chicago, Inc.	P	DR
Casey Diers	DesignLab Chicago, Inc.	A	DR
Don Earl	Earl Girls, Inc.	P	DR
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	I	U
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
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Roger Lattin	I.A.T.S.E. Local 728	P	U
R. Bruce Prochal	I.A.T.S.E. Local 728	A	U

Name	Representing	Voting status	Interest category
Patric J. Abaravich	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
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 Products Corp.	P	CP
Bob Luther	Lex Products Corp.	A	CP
Nehad El-Sherif	Littelfuse Startco	P	MP
Brian Eustace	Mole-Richardson Co.	P	CP
Michael G. Davis	Mole-Richardson Co.	A	CP
Gregory Quinkert	Motion Laboratories	P	MP
Michael Lay	Royal Philips	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Justin Bennett	University of the Incarnate Word	P	U
Mitch Heffer	USITT	P	U
<b>Voting Status Key: P = Principal voter, A = Alternate voter, I = Individual voter</b>			
<b>Votes by Interest Category:</b>			
Custom-market producer		CP	3
Designer		DE	0
Dealer or rental company		DR	2
General interest		G	2
Mass-market producer		MP	5
User		U	9
<b>Total votes possible:</b>			21

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

See the draft minutes of the March meeting, *EPmin03-2015.pdf*

Steve Terry moved to accept the minutes as drafted. The motion was seconded and approved by a show of hands and voice votes.

### 4 Reading of the call for patents

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

PLASA intends not to publish any standard that contains protected intellectual property, unless that information can be licensed by anyone for a reasonable fee. PLASA uses a process of open patent and copyright disclosures to implement its intent. PLASA 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 or 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 reported.

## **5 Reading of the anti-trust statement**

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

PLASA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all PLASA 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 PLASA meeting, please bring your concern to PLASA management. An easy to read pamphlet describing the antitrust laws is available from the PLASA staff.

Erin Grabe held up the pamphlet. Nothing was reported.

## **6 Approval of agenda**

Steve Terry moved to accept the agenda as written. The motion was seconded. Approved with a show of hands and voice votes.

## **7 Other business and announcements**

### **8 Old business - task group reports**

#### **8.1 EMC task group**

Ken Vannice had no news and recommended that it be removed from the agenda.

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

Erin Grabe reported that we had to change the title page (see E1-16-2002R2012\_TrackedChanges.pdf) because we had failed to identify it as an American National Standard. The revised version is already published. A formal response will be made to the ANSI audit-finding with "already corrected. The updated standard was published 14 July 2015."

#### **8.3 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.

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

No news or action at this time.

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

Roger Lattin reported that he used it and found it very helpful.

#### **8.6 BSR E1.51—A Canadian E1.18**

It is in public review through August 3. There was a brief discussion of one of the public review comments about allowing cam connectors to be installed outside the enclosure.

#### **8.7 CSA and UL harmonization**

Ken Vannice reported no news and recommended this item be removed from the agenda.

#### **8.8 A proposal about Portable Power Distribution Equipment for Canada**

Karl Ruling noted that a product safety standard for portable power distribution equipment was proposed for the

Canadian market which serves the same function as UL 1640.

Rodger Dean noted that C22.2 No 300 is being developed.

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

*See the first draft, BSR\_E1-53r3.pdf. Next step: more work, public review?*

Steve Terry moved that the draft standard be offered for public review. The motion was seconded and approved by a show of hands and voice votes, with one abstention. All the rest were in favor.

### **8.10 Proposed "Electrical Safety Standard for Portable Stage and Studio Equipment Used Outdoors"**

*See TSP\_ProjectRequestOutdoorElectrical-meetingcopy.pdf.*

It was noted that the PDF version of the project request was not fully readable on some platforms, on some devices. The full text was made available for all to see on the projector and shared online.

Steve Terry moved that we approve this project. The motion was seconded and approved by a show of hands and voice votes. There was one opposed and one abstention.

Jeff Miller was requested to join the task group on this project, which now consists of task group chair Steve Vanciel, and members Matt Antonucci, Lizz Pitsley, Ty Mellon, and Jeff Miller.

There was further discussion on this topic. The consensus of this group was to not let the project be too restrictive or prescriptive, but to offer guidance by listing concerns and issues with supervising indoor equipment outdoors, and then offering some ways to address the concerns and issues. It was also noted that the issues and concerns are not just rain, water, or dampness, but are extreme conditions across a wide spectrum of environments.

Ty Mellon added that there is a chance of having an outline and some preliminary framework text by LDI.

### **8.11 Special Purpose GFCIs (SPGFCI)**

*Special-purpose ground-fault circuit interrupters are now in NFPA 70, the NEC, Article 210.8(B). Other news?*

There was a discussion of a new clause, which now can be read to apply to all NON-RESIDENTIAL applications, which pulls in entertainment, but that is impractical in many cases. There was discussion of how this will be fixed. This is not an PLASA Standards project, but a reflector has been set up where there can be a continued discussion of this issue and how to address it, [NEC@esta.org](mailto:NEC@esta.org), which currently reflects to Nehad El-Sherif, Steve Terry, Eddie Kramer, Roger Lattin, Justin Bennett, Alan Rowe, Ty Mellon, Ken Vannice, and Mitch Hefter.

## **9 New business**

There was no new business.

## **10 Other business**

### **10.1 NEC 2017**

*Take note: Points of Interest regarding the First draft which has been published at: <http://www.nfpa.org/70> Under the 'Next Edition' tab: First Draft Report - open for public comment submissions (online submission deadline: 9/25/2015; paper submission: 8/21/2015)*

This topic was mostly covered during the discussion under 8.11.

Eddie Kramer noted that there is a proposed addition to 406.12 (f) to add a requirement for tamper-resistant receptacles.

## **10.2 Above & Beyond Awards**

Ken Vannice reminded the group that the nomination site is open year round at [tsp.plasa.org/AboveandBeyond](http://tsp.plasa.org/AboveandBeyond).

## **10.3 TSP funding**

Erin Grabe mentioned that the TSP needs continuing donations.

## **10.4 Other other business**

## **11 Schedule for future meetings**

Ken Vannice noted that the next meeting will take place in conjunction with LDI in October in Las Vegas, on 23 October 2015, from 19:00 – 22:00 .

Mitch Hefter noted that the July 2016 meetings will take place in conjunction with NATEAC at the Roosevelt Hotel in New York.

Rodger Dean asked about the affiliation with Event Safety Alliance. Karl Ruling responded by saying that PLASA is working with them on the Event Safety Summit and is presenting three sessions at the Summit in December.

The PLASA meeting schedule can be found at <http://na.plasa.org/news/meetings.php>.

## **12 Adjournment**

Eddie Kramer moved to adjourn. The motion was seconded. Hearing no objections, Ken Vannice declared the meeting adjourned at 8:57 p.m.

Name	Company	Representing	Voting status	Int cat
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
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
Kaleb Best	Tait Towers	Tait Towers	O	MP
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Ron Bonner	PLASA Technical Resources Office	PLASA EU	O	U
Eric Bouchard	Cirque du Soliel	Cirque du Soliel	O	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Stephen (Steve) Brock	Bender ET Inc.	Bender GmbH & Co. KG	A	MP
André Broucke	André Broucke	André Broucke	O	G
Richard Cadena	Academy of Production Technology	Academy of Production Technology	O	G
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	O	CP
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR
Edward R. Condit	Edward R. Condit	Edward R. Condit	O	U
Richard Dale	Bender GmbH & Co. KG	Bender GmbH & Co. KG	A	MP
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP
Michael G. Davis	Mole-Richardson Co.	Mole-Richardson Co.	A	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
Kenny Delahoussaye	Aggreko	Aggreko	O	DR
Casey Diers	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	A	DR
Jim Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U

Name	Company	Representing	Voting status	Int cat
William Drake	Marinco	Power Products, LLC	O	MP
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Steve 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	Littelfuse Startco	Littelfuse Startco	P	MP
Brian Eustace	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
Jose J. Flores	Kino Flo, Inc.	Kino Flo, Inc.	O	MP
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Howard Forryan	Harting Ltd.	Harting KGAA	O	G
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	A	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	O	G
Reuben Goldberg	Technic Services	Technic Services	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Erin Grabe	PLASA NA	PLASA NA	exf	G
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	O	MP
Torsten Gruhn	Bender Inc.	Bender GmbH & Co. KG	A	MP
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
Peter Herrmann	Motion Laboratories	Motion Laboratories	O	CP
David Herrmann	Motion Laboratories	Motion Laboratories	O	CP
Jim Holladay	Luxence	Luxence	O	G
Simon Hunt	IATSE Local 891	IATSE Local 891	O	U



Name	Company	Representing	Voting status	Int cat
Tyrone Mellon_Jr.	Lex Products Corp.	Lex Products Corp.	P	CP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	O	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Kristen Kuipers	Newcomb & Boyd	Newcomb & Boyd	O	DE
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	Royal Philips	P	MP
Marty Lazarus	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	DR
Nathan Leonard	Bender Group	Bender GmbH & Co. KG	P	MP
Dave Lester	Clair Global	Clair Global	O	U
George Long	Aggreko Event Services	Aggreko	O	DR
Bob Luther	Lex Products Corp.	Lex Products Corp.	A	CP
William L. Maiman	William L. Maiman	William L. Maiman	O	U
Paul F. Mardon	Pulsar Ltd.	Pulsar Ltd.	O	MP
Bruno Marx	Eventknowhow	Eventknowhow	O	G
Greg Mayberry	AC Power Distribution Inc.	AC Power Distribution Inc.	O	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
Natti Pierce-Thomson	North American Theatre Technology	North American Theatre Technology	O	U
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	I	U
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Gregory Quinkert	Motion Laboratories	Motion Laboratories	P	MP

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	PLASA NA	PLASA NA	exf	G
Jared Saltzman	Jared Saltzman	Jared Saltzman	O	U
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
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	O	G
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Robert Timmerman	Philips Color Kinetics	Royal Philips	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 Committee of Ontario	Entertainment Electrical Safety Committee of Ontario	P	G
Colin Waters	TMB	TMB	O	DR
Richard Wolpert	Union Connector Company (MO)	Union Connector Company	O	CP
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G

**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