

Minutes
Electrical Power Working Group
Friday, 21 November 2014
Westgate Las Vegas Resort & Casino
Las Vegas, NV

Presiding Chairpersons

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

Recording Secretaries: Karl G. Ruling and Erin Grabe; PLASA NA; exf; G

Members in attendance:

Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Stephen (Steve) Brock; Bender ET Inc.; Bender GmbH & Co. KG; A; MP
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
Tyrone Mellon_Jr.; Lex Products Corp.; 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; Royal Philips; P; MP
Bob Luther; Lex Products Corp.; 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
Art Wanuch; Entertainment Electrical Safety Committee of Ontario; P; G
Keith S. Woods; Lakhri Impressions Ltd.; IATSE Local 891; P; U

Visitors present:

Mike Harwood; W.F. White International

1 Opening remarks

Ken Vannice called the meeting to order at 19:03. He asked those present to turn their cell phones to vibrate.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

Self-introductions took place clockwise around the table while a fluorescent orange sign-in sheet was passed counter-clockwise for all to sign.

2.2 Determination of quorum

By counting a show of voters' hands, Ken Vannice announced a quorum present.

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. 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

No voters were in jeopardy of a change of status due to lack of attendance.

2.6 Processing of new and other membership requests

As of 21 October 2014 the following applications have been received:

James Eade; ABTT; P; G

Kaleb Best; Tait Towers; O; MP

Nehad El-Sherif; Startco (Littelfuse); P; MP

Steve Terry moved that we accept the applications as submitted, with the note that James Eade should be extended a special consideration as Principal, despite not being present. The motion was seconded and approved by a show of hands with no objections or abstentions. It was noted that this meeting would be the first absence for James Eade.

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 Eade	ABTT	P	G
James Davey	AC Power Distribution Inc.	P	CP
George Long	Aggreko	P	DR
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
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
Ed Garstkiewicz	Harting KGAA	P	G
Howard Forryan	Harting KGAA	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
Patric J. Abaravich	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	I.A.T.S.E. Local 728	A	U
Keith S. Woods	IATSE Local 891	P	U
Justin Bennett	Justin Bennett	I	U
Ken Vannice	Ken Vannice LLC	I	G
Tyrone Mellon_Jr.	Lex Products Corp.	P	CP

Bob Luther	Lex Products Corp.	A	CP
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
Nehad El-Sherif	Startco	P	MP
Jerry Gorrell	Theatre Safety Programs	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	3
Designer		DE	0
Dealer or rental company		DR	3
General interest		G	4
Mass-market producer		MP	5
User		U	8
Total votes possible:			23

3 Approval of the minutes from the previous meeting

See the draft minutes of the July 2014 meeting, *EPmin07-2014.pdf*

Roger Lattin moved that the minutes be approved as written. The motion was seconded and approved with a show of hands.

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 revealed related to patents or any other intellectual properties.

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 held up the pamphlet. No anti-trust problems were revealed.

6 Approval of agenda

An item related to "Falling equipment" was added to New Business.

Steve Terry moved to approve the amended agenda. The motion was seconded and approved by a show of hands.

7 Other business and announcements

7.1 20 mA GFCI

Nehad El-Sharif of Littelfuse made a presentation on Class C 20mA GFCIs, covered by UL 943C, "Special Purpose GFCIs." He prefers to call them "Industrial GFCIs." His presentation introduces three new classes of GFCI: Class C, Class D, Class E. The new classes cover higher voltages, up to 600V., and up to a max 20 mA trip current, with load-ground monitoring. El-Sarif presented a decision tree for deciding what class of GFCI should be used where.

Ken Vannice suggested that a concept such as detailed in this presentation could be included in the GFCI standard.

7.2 Other other business and announcements

No other business or announcements.

8 Old business - task group reports

8.1 EMC task group

From the July draft minutes:

Karl Ruling mentioned a phone conversation he had had on July 23 with Robin Townley, ABTT's CEO, about harmonics. Townly suggested that we should work on a standard for how manufacturers should report the harmonics signature of their products, and another guide for end-users on how they should understand this information, work with harmonics, and mitigate any problems. There was discussion within the working group of the utility of a harmonics document to rein in overzealous engineers. Steve Terry will ask Adam Bennette and Mark White what they have in mind on this topic.

Any news?

No report.

8.2 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.

8.3 BSR E1.19 – 201x, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry

8.3.1 Final approval vote

The motion passed. See EPWG_E1-19_ballot2014-7014results.pdf

8.3.2 Resolution of public review comments

Comments were received and need to be resolved. If the resolutions substantively change the draft standard, another public review and another approval vote would be needed. See draft resolutions BSR_E1-19_PubRvwResolutionsSummary.pdf.

Steve Terry moved to accept the comment resolutions and reaffirm our acceptance of BSR E1.19-201x as an American National Standard. The motion was seconded and approved by a unanimous show of hands.

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

No news or action.

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

No news or action.

8.6 Grounding and Bonding on portable structures

From the July draft minutes:

Art Wanuch said that he had not been able to make progress on this; it needs another leader. The consensus was that we should set this aside until the next meeting. Richard Cadena offered to review the material Art Wanuch has collected. He will then send it to Karl Ruling, and Ruling will put it on the web in the meetingfiles area.

Art Wanuch relinquished to Karl Ruling all of the data collected to date. It will be archived for a future iteration of this project.

8.7 BSR E1.51—A Canadian E1.18

Was in public review through 17 November 2014. The summary document, E1-51_ScndRvwCmmntsSummary.pdf, was distributed to the working group on 18 November.

Ken Vannice appointed a task group to begin drafting comment resolutions. Art Wanuch is to be the head of the task group comprised of he and member Keith Wood.

8.8 CSA and UL harmonization

Ken Vannice reported that a new UL standard has been proposed: UL 60947-4-2, Low-Voltage Switchgear and Controlgear – Part 4-2: Contactors and Motor-Starters – AC Semiconductor Motor Controllers and Starters. This standard applies to controllers and starters, which may include a series mechanical switching device, intended to be connected to circuits, the rated voltage of which does not exceed 1,000 V a.c. The standard does not apply to continuous operation of a.c. motors at motor speeds other than the normal speed; semiconductor equipment, including semiconductor contactors controlling non-motor loads; and electronic a.c. power controllers covered by IEC 60146.

8.9 BSR E1.52—19-Pin circular connectors

From the March minutes:

Ty Mellon reported that he hadn't made any progress on this document. There is still no scope and help is needed with getting manufacturers engaged and expanding the scope statement. The working group chairs will reach out to Colin Waters to find out his intention of continuing with this endeavor.

From the July draft minutes:

Ken Vannice said that he will call Colin Waters to ask what his intention is. We need to move forward or abandon the project.

Mitch Hefter reported that Colin Waters said he has been unsuccessful in getting connector manufacturers to agree to work on this project, but that the problem is less since one of the manufacturers has changed its connector design.

Eddie Kramer moved that we abandon the project. The motion was seconded. There was discussion. The motion passed on a roll call ballot. 12 yes, 1 no, 1 abstain out of a voting body of 23.

Name	Representation	Status	Int. cat.	Yes	No	Abstain
James Eade	ABTT	P	G			

Name	Representation	Status	Int. cat.	Yes	No	Abstain
James Davey	AC Power Distribution Inc.	P	CP			
George Long	Aggreko	P	DR			
Nathan Leonard	Bender GmbH & Co. KG	P	MP			
Stephen (Steve) Brock	Bender GmbH & Co. KG	A	MP	1		
Torsten Gruhn	Bender GmbH & Co. KG	A	MP			
Matthew Antonucci	Contract Services Administration Trust Fund	P	U			
Larry Schoeneman	"DesignLab Chicago, Inc."	P	DR	1		
Casey Diers	"DesignLab Chicago, Inc."	A	DR			
Don Earl	"Earl Girls, Inc."	P	DR	1		
Steve Terry	"Electronic Theatre Controls, Inc."	P	MP	1		
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	I	U			
Art Wanuch	Entertainment Electrical Safety Committee of Ontario	P	G	1		
Rodger Dean	Entertainment Electrical Safety Committee of Ontario	A	G			
Ian Foulds	Entertainment Electrical Safety Committee of Ontario	A	G			
Ed Garstkiewicz	Harting KGAA	P	G			
Howard Forryan	Harting KGAA	A	G			
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U	1		
Roger Lattin	I.A.T.S.E. Local 728	P	U		1	
Patric J. Abaravich	I.A.T.S.E. Local 728	A	U			
R. Bruce Prochal	I.A.T.S.E. Local 728	A	U			
Alan M. Rowe	I.A.T.S.E. Local 728	A	U			
Keith S. Woods	IATSE Local 891	P	U	1		
Justin Bennett	Justin Bennett	I	U			
Ken Vannice	Ken Vannice LLC	I	G	1		
Tyrone Mellon_Jr.	Lex Products Corp.	P	CP	1		
Bob Luther	Lex Products Corp.	A	CP			
Nehad El-Sherif	Littelfuse	P	MP			1
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	1		
Jerry Gorrell	Theatre Safety Programs	P	U	1		
Mitch Hefter	USITT	P	U	1		
				12	1	1

No reasons were offered for the No vote.

9 New business

9.1 Falling equipment

Keith Sklar of Actors' Equity had written the following email asking for help in addressing the problem of falling lighting equipment. The email had also been shared with the Rigging Working Group.

From: Sklar, Keith
Sent: Thursday, 23 October 2014 17:57
To: Karl Ruling
Subject: Equipment Fall Prevention

Dear Karl,

As mentioned, it has been brought to the attention of Actors' Equity Association that there has been a few incidents under our agreements involving lighting instruments falling from their positions and crashing onto the stage floor when people are working. Recently, a lighting instrument managed to become undone from its overhead position during a performance and fell to the stage floor. Luckily, no one was injured. Another recent incident was a top hat from a lighting instrument free falling and landing on the stage floor during a performance. Again, no one was injured in that incident.

Are there any entertainment standards currently in place that protect everyone on the stage and backstage from falling equipment etc. (e.g. lighting instruments and their accessories (e.g. top hats, gobos, gel frames, etc.), snow machines, bubble machines, haze machines)? Are the use of safety cables required on all equipment in order to prevent a free fall? What other practices are in place to prevent equipment from falling?

We would appreciate any assistance PLASA can provide in identifying what regulations are currently in effect and, if there is an opportunity here for additional standards to be created to better protect all backstage and onstage personnel?

If you have any question, let me know.

Sincerely,
ACTORS' EQUITY ASSOCIATION
Keith Sklar
Chief Outside Business Representative

There was discussion. Jerry Gorrell suggested that we wait for the results of the Rigging Working Group's task group's study.

Ty Mellon moved that the working group wait for the results of the Rigging Working Group's task group's study before deciding what action to take on this issue. That motion was seconded and approved by a show of hands with two objections.

9.2 Above & Beyond Awards

Ken Vannice reminded the group that the nomination site is open year round at tsp.plasa.org/AboveandBeyond.

9.3 TSP sessions at LDI 2014

The group was reminded that members of the EPWG are participating in the following sessions on Saturday, 22 November 2014:

11:00-12:30 p.m., "Listed Switchboards And SJ Power Cords: Changes To The NEC"
3:30-5:30 p.m., "The Technician's Tool Kit."

10 Schedule for future meetings

The group's consensus was that the next face-to-face meeting would take place in conjunction with the USITT Conference and Stage Expo in Cincinnati in March 2015. A teleconference meeting could be held before then, if the working group wishes.

11 Adjournment

Eddie Kramer moved to adjourn. The motion was seconded and approved by a show of hands. Ken Vannice then declared the meeting adjourned at 21:49.

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	Justin Bennett	Justin Bennett	I	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
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	O	CP
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
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	Philips Color Kinetics	Royal Philips	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
William Drake	Marinco	Power Products, LLC	O	MP

Name	Company	Representing	Voting Status	Int. Cat.
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	P	G
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	P	DR
Nehad El-Sherif	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	A	G
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	A	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Richard B. Glickman	Gliconen Corporation	Rosco Laboratories	O	MP
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
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
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

Name	Company	Representing	Voting Status	Int. Cat.
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	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	P	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
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
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

Name	Company	Representing	Voting Status	Int. Cat.
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
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	O	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