

Minutes
Electrical Power Working Group
Friday, 23 October 2015
Westgate Las Vegas Casino & Resort
Las Vegas, NV

Presiding chairman: Mitch Hefter; USITT; P; U

Recording secretaries: Erin Grabe & Karl Ruling; PLASA North America

Members attending:

James Davey; AC Power Distribution Inc.; P; CP
Richard Cadena; Academy of Production Technology; O; G
George Long; Aggreko Event Services (Aggreko); P; DR
Richard Dale; Bender GmbH & Co. KG; A; MP
Larry Schoeneman; DesignLab Chicago, Inc.; P; DR
Don Earl; Earl Girls, Inc.; P; DR
Elizabeth E. (Lizz) Pittsley; I; U
Art Wanuch; Entertainment Electrical Safety Committee of Ontario; P; G
Ian Foulds; IATSE Local 873, representing the Entertainment Electrical Safety Committee of Ontario; A; G
Roger Lattin; I.A.T.S.E. Local 728; P; U
Alan M. Rowe; I.A.T.S.E. Local 728; A; U
Stephen Vanciel; IATSE Local 631; P; U
Keith S. Woods; Lakhri Impressions Ltd., representing IATSE Local 891; P; U
Ken Vannice; Ken Vannice LLC; I; G
Tyrone Mellon Jr.; Lex Products Corp.; P; CP
Nehad El-Sherif; Littelfuse Startco; P; MP
Louis Bradfield; O; U
Michael G. Davis ; Mole-Richardson Co.; A; CP
Gregory Quinkert; Motion Laboratories; P; MP
Michael Lay; Philips Color Kinetics (Royal Philips); P; MP
Jerry Gorrell; Theatre Safety Programs; P; U
Jeff T. Miller; Worldwide Standards and Auditing (Walt Disney Company); P; U
Mike Harwood; William F. White International; O; DR

Visitors:

Don Kneir; Lex Products
Frank Allison; UC Berkeley Dept. of Mechanical Engineering
Jon Epstein; IATSE Local 728

1 Opening remarks

Mitch Hefter called the meeting to order at 19:03. He welcomed all to the EPWG meeting, and thanked attendees for taking time out of their days to be a part of this group.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

Self introductions were done while a sunny yellow sign-in sheet was circulated.

2.2 Determination of quorum

Hefter asked for a show of hands of voting members. A quorum was present.

2.3 Recognition of alternate voting members

There were none who would be voting in lieu of a principal who was also present.

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. 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

None. There were no voters in jeopardy of a change of status to observer due to lack of attendance.

2.6 Processing of new and other membership requests

The following request has been received:

George Long; Aggreko; change of voting status from O to P; DR

Heather Rowe; CSATF; Alternate, User

Jeff T. Miller; Walt Disney Company; change of voting status from O to P; User

Keith Woods moved that the applications be accepted. The motion was seconded and then approved with a unanimous show of hands.

2.7 Consensus body

The full consensus body during this meeting, including those not present, was:

Name	Representing	Voting status	Int. cat.
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
Richard Dale	Bender GmbH & Co. KG	A	MP
Torsten Gruhn	Bender GmbH & Co. KG	A	MP
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
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	I	U
Art Wanuch	Entertainment Electrical Safety Committee of Ontario	P	G
Rodger Dean	Entertainment Electrical Safety Committee of Ontario	A	G
Ian Foulds	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
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
Stephen Vanciel	IATSE Local 631	P	U
Keith S. Woods	IATSE Local 891	P	U

Name	Representing	Voting status	Int. cat.
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 Hefter	USITT	P	U
Jeff T. Miller	Walt Disney Company	P	U
Total votes possible		23	
Votes by interest categories		3	CP
		0	DE
		3	DR
		2	G
		5	MP
		10	U

3 Approval of the minutes from the previous meeting

Jerry Gorrell moved that draft minutes of the July meeting, EPmin07-2015.pdf, be approved as written. The motion was seconded, then approved with a show of hands.

4 Reading of the NEW call for patents

The following statement was read aloud to the assembly by Mitch Hefter:

"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, 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:

"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 it up a copy of the easy-to-read pamphlet. No restraint of trade issues were raised.

6 Approval of agenda

Mitch Hefter added an agenda item to talk about the demerger, the split of PLASA North America from PLASA EU.

Steve Vanciel moved that the amended agenda be accepted. The motion was seconded and then approved with a show of hands.

7 Other business and announcements

8 Old business - task group reports

8.1 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.

8.2 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.

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

No news or action at this time.

8.4 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.

8.5 BSR E1.51—A Canadian E1.18

The document was in public review through 3 August. SummaryE1-51_3rdRevwCmmnts.pdf was distributed to the group on 5 August 2015. See SummaryE1-51_3rdRevwResolutions_7Oct2015.pdf and BSR_E1-51_CanadianFeederCableR5.pdf.

Comments and resolutions 29, 30, 31, and 40 were discussed, and rationales for the resolutions, which had been lacking, were added.

Jerry Gorrell moved that the revised resolution document be approved. The motion was seconded. The motion was approved by a supermajority, with all present voting Yes except for three abstentions: Larry Schoeneman, Keith Woods, and Mitch Hefter as chairman. Woods was asked why he abstained, and said that he has a philosophical issue with this document and feels that it is unnecessary.

Jerry Gorrell moved that the revised draft standard be offered for a fourth public review. The motion was seconded and then approved with all present voting in favor except for Keith Woods and the chairman, who abstained.

Keith Woods complained that the document only had input from two of the union locals in Canada. He had sent the draft to 16 locals, but there had been no responses from them. Karl Ruling thanked Woods for helping to get the word out to materially affected parties about the document being developed and its public review.

8.6 A proposal about Portable Power Distribution Equipment for Canada

See UL1640_ProposalReturned.pdf.

Mitch Hefter noted the rejection of the project proposal by UL. UL had written that it is "aware that Canada currently has a standard that parallels UL 1640, which is CSA C22.2, No. 300, the Standard for Low and Medium Voltage Portable Power Distribution Equipment." Therefore, "proceeding with UL 1640 as a Canadian National Standard would be a duplication of standards." However, no one in the Electrical Power Working Group has seen CSA C22.2, No. 300. Art Wanuch said that it has not been published yet, but might be in the Spring.

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

The document was in public review through the end of the day 28 September 2015. See BSR_E1-53_FrstRevwCmmntSmmry.pdf, BSR_E1-53_FrstRevw_Resols_Smmry.pdf, and BSR_E1-53r4.pdf.

Karl Ruling briefly explained the comment resolutions. Most of the comments were non-substantive, offering alternative wording that the commenter thought was better. He proposed rejecting those because they were simply different statements of the requirements, not better statements. The proposed resolutions made only one substantive change.

Lizz Pislely moved to accept the comment resolutions. The motion was seconded and then approved with a show of hands. There was no opposition, and, other than the working group chairman, no abstentions.

Steve Vanciel moved that the revised draft be offered for another public review. The motion was seconded and then approved with a show of hands. There was no opposition, and, other than the working group chairman, no abstentions.

8.8 BSR E1.58 "Electrical Safety Standard for Portable Stage and Studio Equipment Used Outdoors"

See Portable Equipment Outdoors Draft 10_2015.pdf.

Steve Vanciel reported that this version more clearly ties the scope and purpose to specific issues in the NEC. The meat of the standard has been worked on, and the structure of the document developed. The next step is content, said Vanciel, with possibly another draft for the EPWG meeting in January.

There was discussion of the wide variety of outdoor hazards besides rain. Ken Vannice said that he will look for historical information about NEC code panel discussions on what was intended for sections 520.10 and 530.6, and will provide this information to the task group.

8.9 Special Purpose GFCIs (SPGFCI)

Ken Vannice reported that he has submitted comments on SPGFCI requirements in the NEC to keep them from being a problem for the entertainment industry. He also said that the NEC reflector on the ESTA email server had been quiet. He had sent out his proposed comments but gotten no replies from others on the reflector.

9 New business

9.1 TSP participation fee

See LetterFromTSCChairs_2Oct2015.pdf.

Mitch Hefter asked if there were questions on the letter and the fee. Clarification was provided that the fee is per person, not per representative organization. Invoices will be sent out by mid-December.

9.2 The Demerger

Mitch Hefter explained the reasons for the split with PLASA EU. Our cooperation agreement with them ends December 14. It will have minimal effect on the TSP because the TSP has been solely within PLASA North America and funded by it. We will probably return to the name "ESTA."

10 Other business

10.1 NEC 2017

Any news or updates?

Mitch Hefter reported that public comments on first draft were due a month and a half ago. Code Panel 15 will meet November 5 through 7 to respond to them. The 2017 edition of the NEC should be published in August or September 2016.

10.2 Above & Beyond Awards

Mike Lay reminded attendees that the nomination site is open year-round at <http://tsp.plasa.org/AboveandBeyond>. He urged them to nominate a volunteer who has been particularly helpful, diligent, or hard-working.

10.3 Other other business

None.

11 Schedule for future meetings

See <http://na.plasa.org/news/meetings.php> for the most current schedule.

11.1 January 2016 meetings

It was announced that the January meetings are scheduled for Thursday through Sunday, 28-31 January 2016 at the D/FW Marriott Solana in Westlake, TX.

11.2 USITT 2016

The March 2016 meetings will take place in conjunction with the 2016 USITT Conference, scheduled to be held in Salt Lake City, UT, 16-19 March 2016.

11.3 July 2016 meetings in conjunction with NATEAC

The July 2016 meetings will be held in conjunction with NATEAC in New York City. Meeting dates are tentatively scheduled for 14-18 July, while the conference dates are 17-18 July 2016. Information on the conference is available at <http://www.nateac.org/>. Mitch Hefter said that we would not plan to have an EPWG meeting at that time, but this might change.

11.4 LDI 2016

Dates for meetings in conjunction with LDI 2016 are TBD, but LDI itself will be exactly 52 weeks from this LDI, October 21, 22, and 23.

11.5 USITT 2017 & 2018

USITT 2017 is scheduled to be held in St. Louis, MO. USITT 2018 is scheduled to be held in Ft. Lauderdale, FL. mark your calendars!

12 Adjournment

Larry Schoeneman moved that the meeting adjourn. The motion was seconded and then approved with a show of hands. Mitch Hefter declared the meeting adjourned at 20:22.

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
Jim Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U
William Drake	Marinco	Power Products, LLC	O	MP
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP

Name	Company	Representing	Voting status	Int. cat.
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
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
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

Name	Company	Representing	Voting status	Int. cat.
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	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
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	P	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
Heather Rowe	Contract Services Administration Trust Fund	Contract Services Administration Trust Fund	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

Name	Company	Representing	Voting status	Int. cat.
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