

Minutes
Electrical Power Working Group
Sunday 23 January 2011
Marriott Solana

Chairmen:

Ken Vannice; Leviton Manufacturing Co., Inc.; P; MP
Mitch Hefter; Philips Controls (Royal Philips Electronics), representing USITT; P; U

Recording secretary: Karl G. Ruling; PLASA

Members attending:

Jeff deRecat; Marinco (Actuant Corporation); P; MP
Wendy Holt; AMPTP/CSATF, representing the Alliance of Motion Picture and Television Producers; P; G
Nathan Leonard; Bender Group (Bender GmbH & Co. KG); P; MP
Larry Schoeneman; DesignLab Chicago, Inc.; O; DE
Edward R. Condit; O; U
Jody Williquette; Electrivert, Inc.; P; CP
Ian Foulds; IATSE Local 873, representing the Entertainment Electrical Safety Committee of Ontario; P; G
Ed Garstkiewicz; Harting Inc., North America (Harting KGAA); P; G
Edwin S. Kramer; I.A.T.S.E. Local 1; P; U
Roger Lattin; I.A.T.S.E. Local 728; P; U
Alan M. Rowe; IATSE Local 728; A; U
Tyrone Mellon_Jr.; Lex Products Corp.; A; CP
Louis Bradfield; I; U
W. G. Krokaugger, P. E.; Mole-Richardson Co.; P; CP
Ron Bonner; PLASA Technical Resources Office (PLASA); P; U
Michael Lay; Philips Color Kinetics (Royal Philips Electronics); P; MP
Michael Scudday; SSRC, Inc.; P; CP
Jerry Gorrell; Theatre Safety Programs; P; U

Visitor: Richard Cadena; PLSN

1 Opening remarks

Ken Vannice called the meeting to order at 9:05. He welcomed all present to the PLASA EPWG meeting

2 Attendance and membership

2.1 Introduction of those present and taking attendance

A yellow sign-in sheet was circulated while those present introduced themselves.

2.2 Determination of quorum

Ken Vannice announced that a quorum was present.

2.3 Recognition of alternate voting members

Tyrone Mellon Jr. of Lex Products Corp. was recognized.

2.4 Requirements for membership

Vannice reminded the assembly that working group 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.

There was a discussion of Ron Bonner's voting status. There were no objections to having him continue as a voting member.

2.5 Changes to observer status

Members who have missed the previous two meetings and who will not have met the minimum attendance requirement for voters if this meeting is missed:

Edwin S. Kramer; IATSE Local 1

Kramer was present, so there was no change to his voting status.

2.6 Processing of new membership requests

The following applications were on hand to be processed:

Howard Forryan; HARTING Ltd. (Harting KGAA); Alternate to Ed Garstkiewicz; G

Martin Moore; Martin Moore; Observer; DE

Larry Schoeneman; Designlab Chicago; Observer; DE

Eddie Kramer moved that the applications be accepted. The motion was seconded and then approved with a show of hands.

2.7 Consensus body

The full consensus body, including those not present, was:

Name	Representing	Voting status	Int. cat.
James Davey	AC Power Distribution Inc.	P	CP
Greg Mayberry	AC Power Distribution Inc.	A	CP
Jeff deRecat	Actuant Corporation	P	MP
William Drake	Actuant Corporation	A	MP
George Long	Aggreko	P	DR
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G
Nathan Leonard	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender GmbH & Co. KG	A	MP
Torsten Gruhn	Bender GmbH & Co. KG	A	MP
Jody Williquette	Electrivot, Inc.	P	CP
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	I	U
Ian Foulds	Entertainment Electrical Safety Committee of Ontario	P	G
Art Wanuch	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

Name	Representing	Voting status	Int. cat.
Keith S. Woods	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	A	U
Ken Vannice	Leviton Manufacturing Co., Inc.	P	MP
Bill Grande	Leviton Manufacturing Co., Inc.	A	MP
Bob Luther	Lex Products Corp.	P	CP
Tyrone Mellon_Jr.	Lex Products Corp.	A	CP
Sean Sloat	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	I	U
W. G. Krokaugger, P. E.	Mole-Richardson Co.	P	CP
Alex Yoon	Mole-Richardson Co.	A	CP
Vincent J. Cannavale	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	A	CP
Ron Bonner	PLASA	P	U
Michael Lay	Royal Philips Electronics	P	MP
Michael Scudday	SSRC, Inc.	P	CP
Jerry Gorrell	Theatre Safety Programs	P	U
Mitch Hefter	USITT	P	U
	Total votes possible	23	
	Votes by interest category	6	CP
		5	MP
		1	DR
		8	U
		3	G
		0	DE

3 Approval of the minutes from the previous meeting

See the draft minutes of the 22 October 2010 meeting, *EPmin10-2010.pdf*

Eddie Kramer moved that the minutes be accepted as written. The motion was seconded and then approved with a show of hands.

4 Reading of the call for patents

Ken Vannice read the following aloud to the assembly:

"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

Ken Vannice read the following aloud to the assembly:

"The PLASA Board of Directors, the Technical Standards Council, and the leadership of this working group will reject or nullify any actions that unlawfully restrain trade. Anyone who feels that such an action is being or has been taken is requested to bring that matter to the attention of the chair immediately. Anyone who feels that actions in restraint of trade have been taken and not properly annulled is requested to notify the TSC chair or PLASA president immediately.

"PLASA legal counsel has informed us that violations of the anti-trust laws can have serious consequences. Individuals engaged in certain unlawful conduct can be found criminally liable. An individual convicted of a criminal violation of the Sherman Act may be fined as much as \$1,000,000 and imprisoned for up to ten years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

No restraint of trade issues were reported.

6 Approval of agenda

Michael Lay asked that 7.3 be moved to the end of agenda.

Mitch Hefter asked for a report on the new P&P under other business.

Roger Lattin asked for some show and tell time under other business.

Wendy Holt moved that the modified agenda be adopted. The motion was seconded, and then approved with a show of hands

7 Old business - task group reports

7.1 EMC task group

Vannice reported on actions to adopt versions of IEC 61000-3-2 and 3-12 in North America. He reported that the IEEE has formed a group to write a North American equivalent to 3-2 and 3-12. It's in the process of selecting leaders and forming committee. They intend to adopt the ANSI standard that has an exemption for the entertainment industry.

[TSM note: These have been announced as BSR/IEEE 1836-201x for loads equal to or less than 16 A per phase and BSR/IEEE 1837-201x for loads greater than 16 A per phase but less than or equal to 75 A per phase.]

Vannice said that he had heard that the European power suppliers are having problems with noise on the power lines interfering with metering systems. Thus, there is a lot of pressure to write stricter standards for emissions on power lines.

7.2 ANSI E1.16-2002 (R2007)

No news or action.

7.3 BSR E1.18 portable feeder cable selection and use

Consideration of new draft in response to the resolutions. See E1-18CmmntRslnDraft_r4.pdf and BSRE1-18-1r15.pdf.

Roger Lattin moved that comment resolution 156 shall be changed to "Accept in principal. The ten foot limitation shall be removed here and other places where it appears." The motion was seconded and then approved by a supermajority with a show of hands. All voted Yes, except for one abstention.

Jerry Gorrell said that there were still some changes in the draft document (r15 for this meeting) that had not been made in accordance with the approved resolutions. Also the changes agreed upon above in regard to comment resolution 156 need to be changed. He asked for a close reading of the draft document so that he can make whatever corrections are necessary and have a clean r16 document for the March meeting.

7.4 ANSI E1.19 – 2009, Recommended Practice for the Use of Class A Ground-Fault Circuit Interrupters (GFCIs) Intended for Personnel Protection in the Entertainment Industry

Roger Lattin asked about considering the higher trip levels that are being written into the electrical code for marinas. There was discussion. No motions were offered.

7.5 BSR E1.24 - 20xx, pin connectors

Report of revision to respond to first public review comments. See E1-24FrstRevwResolsSmmry.pdf and E1-24r4edtd.pdf.

There was a discussion of issues with Mole Richardson connectors. Bill Krokaugger asked about changing the size of the front opening on 30 A female connectors for ease of manufacturing. There was discussion but no opposition. 30 A connectors will not pass the finger test anyway.

Krokaugger also talked about the projection of the grounding pin. Mole Richardson does not make the pin longer, but does have the female forward more. They would be willing to make the pin longer, but would rather not. The draft standard has the female forward and the male longer. The consensus was to keep it as drafted, with the grounding pin longer, so that the grounding connector always will make first and break last, no matter how the user angles the connectors.

The pin diameter of the 30 A connectors was discussed. Mole-Richardson makes a smaller diameter pin.

After some discussion, Bill Krokaugger moved that on the 5T30 the opening of the female shall be changed to a maximum of 0.516 inches, and the male pin shall be a diameter of 0.311 to 0.310, and corresponding adjustments shall be made to the test fixture. The motion was seconded by discussion. The motion was approved by a supermajority with a show of hands. All present voted in favor.

Roger Latin moved that the modified BSR E1.24 document (the results of the actions at this meeting and the resolution of the previous public review comments) be offered for public review. The motion was seconded and then approved by roll call ballot, with all present voting Yes.

Name	Representing	Voting status	Int. cat.	Yes	Yes w/ comments	No w/ reasons	Abstain	Not present
James Davey	AC Power Distribution Inc.	P	CP					X
Greg Mayberry	AC Power Distribution Inc.	A	CP					
Jeff deRecat	Actuant Corporation	P	MP	X				
William Drake	Actuant Corporation	A	MP					
George Long	Aggreko	P	DR					X
Wendy Holt	Alliance of Motion Picture and Television Producers	P	G	X				
Nathan Leonard	Bender GmbH & Co. KG	P	MP	X				
Joe Boardman	Bender GmbH & Co. KG	A	MP					
Torsten Gruhn	Bender GmbH & Co. KG	A	MP					
Jody Williquette	Electrivers, Inc.	P	CP	X				
Steve Terry	Electronic Theatre Controls, Inc.	P	MP					X
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	I	U					X
Ian Foulds	Entertainment Electrical Safety Committee of Ontario	P	G	X				

Name	Representing	Voting status	Int. cat.	Yes	Yes w/ comments	No w/ reasons	Abstain	Not present	
Art Wanuch	Entertainment Electrical Safety Committee of Ontario	A	G						
Ed Garstkiewicz	Harting KGAA	P	G	X					
Howard Forryan	Harting KGAA	A	G						
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U	X					
Roger Lattin	I.A.T.S.E. Local 728	P	U	X					
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					X	
Simon Hunt	IATSE Local 891	A	U						
Ken Vannice	Leviton Manufacturing Co., Inc.	P	MP	X					
Bill Grande	Leviton Manufacturing Co., Inc.	A	MP						
Bob Luther	Lex Products Corp.	P	CP						
Tyrone Mellon_Jr.	Lex Products Corp.	A	CP	X					
Sean Sloat	Lex Products Corp.	A	CP						
Louis Bradfield	Louis Bradfield	I	U	X					
W. G. Krokaugger, P. E.	Mole-Richardson Co.	P	CP	X					
Alex Yoon	Mole-Richardson Co.	A	CP						
Vincent J. Cannavale	Motion Laboratories	P	CP					X	
Peter Herrmann	Motion Laboratories	A	CP						
David Herrmann	Motion Laboratories	A	CP						
Ron Bonner	PLASA	P	U	X					
Michael Lay	Royal Philips Electronics	P	MP	X					
Michael Scudday	SSRC, Inc.	P	CP	X					
Jerry Gorrell	Theatre Safety Programs	P	U	X					
Mitch Hefter	USITT	P	U	X					
		Total votes	23 possible	17 yes	0 yes w/ comments	0 no w/ reasons	0 abstain	6 not present	
			6 possible	CP	4	0	0	0	2
			5 possible	MP	4	0	0	0	1
			1 possible	DR	0	0	0	0	1
		Votes by interest category	8 possible	U	5	0	0	0	2
			3 possible	G	3	0	0	0	0
			0 possible	DE	0	0	0	0	0

7.6 BSR E1.32 luminaire inspection guidance

Public review report. See E1-32_ThrdCmmntSmmry.pdf.

Jerry Gorrell said he would have a set of suggested comment resolutions for the next meeting.

8 New business

None.

9 Other business

9.1 P&P revision

Mitch Hefter reported that the P&P was being revised. It would reduce the number of required letter ballots. Ruling explained more about the provision for concurrent votes and public reviews.

9.2 Rogert Lattin show and tell

Roger Lattin showed a sliding joint wrench that has a range suitable for cam-type connector. He also showed an extra hard usage three-conductor cable that has a flat profile. He recommended it as a code-compliant substitute for SPT on sets.

9.3 Mitch Hefter report on publications

Said that the emergency lighting article about transfer switches written for Protocol will be in the next issue of IAEI News, a publication of the International Association of Electrical Inspectors.

10 Schedule for future meetings

The next working group meeting is scheduled for 9 March 2011, from 09:00 to noon, at the Westin Charlotte in Charlotte, NC in conjunction with the USITT Conference and Expo, announced Mitch Hefter.

11 Adjournment

Michael Scudday moved that the meeting adjourn. The motion was seconded. The motion was approved with a show of hands. Mitch Hefter declared the meeting adjourned at 11:30.

Working Group Membership as of 16 February 2011

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP
Greg Mayberry	AC Power Distribution Inc.	AC Power Distribution Inc.	A	CP
Jeff deRecat	Marinco	Actuant Corporation	P	MP
William Drake	Marinco	Actuant Corporation	A	MP
George Long	Aggreko Event Services	Aggreko	P	DR
Kenny Delahoussaye	Aggreko	Aggreko	O	DR
Richard L. Eberth_Jr.	North Shore Safety	Airpax Corporation	O	MP
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
André Broucke	André Broucke	André Broucke	O	G
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	O	G
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Nathan Leonard	Bender Group	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Torsten Gruhn	Bender Inc.	Bender GmbH & Co. KG	A	MP
Kevin O'Brien	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Marty Lazarus	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	O	DR
Eric Bouchard	Cirque du Soliel	Cirque du Soliel	O	CP
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	O	MP
Ford Sellers	Cornell University	Cornell University	O	U
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	O	DE
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	DR
Edward R. Condit	Edward R. Condit	Edward R. Condit	O	U
Jody Williquette	Electrivers, Inc.	Electrivers, Inc.	P	CP

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	I	U
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	P	G
Art Wanuch	Entertainment Electrical Safety Committee of Ontario	Entertainment Electrical Safety Committee of Ontario	A	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	P	G
Howard Forryan	Harting Ltd.	Harting KGAA	A	G
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Kirk D. Keen	Hollywood Lighting Services, Inc.	Hollywood Lighting, Inc.	O	DR
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	O	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Alan M. Rowe	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Keith S. Woods	Lakhri Impressions Ltd.	IATSE Local 891	P	U
Simon Hunt	IATSE Local 891	IATSE Local 891	A	U
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	O	CP
David Murray	IPC Resistors Inc.	IPC Resistors Inc.	O	CP
Jose J. Flores	Kino Flo, Inc.	Kino Flo, Inc.	O	MP
Ken Vannice	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	P	MP
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	A	MP
Bob Luther	Lex Products Corp.	Lex Products Corp.	P	CP
Tyrone Mellon_Jr.	Lex Products Corp.	Lex Products Corp.	A	CP
Sean Sloat	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jim Holladay	Luxence	Luxence	O	G
Martin Moore	Martin Moore	Martin Moore	O	DE

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	O	DR
W. G. Krokaugger, P. E.	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
Alex Yoon	Mole-Richardson Co.	Mole-Richardson Co.	A	CP
Vincent J. Cannavale	Motion Laboratories	Motion Laboratories	P	CP
Peter Herrmann	Motion Laboratories	Motion Laboratories	A	CP
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Natti Pierce-Thomson	North American Theatre Technology	North American Theatre Technology	O	U
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Steve DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Ron Bonner	PLASA Technical Resources Office	PLASA	P	U
James Eade	PLASA	PLASA	O	G
Paul F. Mardon	Pulsar Ltd.	Pulsar Ltd.	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Eric Tishman	Rosco Laboratories	Rosco Laboratories	O	MP
Richard B. Glickman	Gliconen Corporation	Rosco Laboratories	O	MP
Michael Lay	Philips Color Kinetics	Royal Philips Electronics	P	MP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	O	U
Reuben Goldberg	Technic Services	Technic Services	O	U
Dominic Vincenty	TPS	Television Production Service	O	DR
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Colin Waters	TMB	TMB	O	DR
Phillip M. Gallo	TMB	TMB	O	DR
Charles (Chuck) Kurten	Underwriters Laboratories, Inc.	Underwriters Laboratories, Inc.	O	G
Richard Wolpert	Union Connector Company (MO)	Union Connector Company	O	CP

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Mitch Heffer	Philips Controls (Royal Philips Electronics)	USITT	P	U
William L. Maiman	William L. Maiman	William L. Maiman	O	U

Key to codes:

P principal voting member
A alternate voting member
I individual voting member
O observer, non-voting

MP mass-market producer interest category
CP custom-market producer interest category
DR dealer or rental company interest category
U user interest category
G general-interest interest category
DE designer interest category