

Minutes
Electrical Power Working Group
Wednesday, 31 March 2010
Marriott Kansas City Downtown
Kansas City, MO

Presiding chairmen:

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

Recording secretary: Karl G. Ruling; ESTA

Members attending:

George Long; Aggreko Event Services (Aggreko); P; DR
Wendy Holt; AMPTP/CSATF representing the Alliance of Motion Picture and Television Producers; P; G
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Elizabeth E. (Lizz) Pittsley; I; U
Ed Garstkiewicz; Harting Inc., North America (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
Alan M. Rowe; IATSE Local 728; A; U
Tyrone Mellon Jr.; Lex Products Corp.; A; CP
Louis Bradfield; I; U
Peter Herrmann; Motion Laboratories; A; CP
Ron Bonner; PLASA; P; U
Eric Tishman; Rosco Laboratories; O; MP
Jerry Gorrell; Theatre Safety Programs; P; U

Visitor: David Houle; Sight & Sound Production Services

1 Opening remarks

Ken Vannice called the meeting to order at 8:05.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

Those present introduced themselves while a hot-pink sign-in sheet was circulated.

2.2 Determination of quorum

Ken Vannice asked for a show of hands of voters. He counted the hands and then announced that we have a quorum.

2.3 Recognition of alternate voting members

Alan Rowe and Roger Lattin were both present, so they were reminded that only one could vote on behalf of IATSE 728 on a question.

2.4 Requirements for membership

Ken 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.

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:

Elizabeth E. (Lizz) Pittsley

Lizz Pittsley was present, so there was no change in her voting status.

2.6 Processing of new membership requests

None.

2.7 Consensus body

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

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
George Long	Aggreko Event Services	Aggreko	P	DR
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G
Torsten Gruhn	Bender Inc.	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
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
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G
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
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP
Bill Grande	Leviton Manufacturing	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
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

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP
Ron Bonner	PLASA	PLASA	P	U
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U
		Total votes	21	
		Votes by interest categories	5	CP
			4	MP
			1	DR
			8	U
			3	G
			0	DE

3 Approval of the minutes from the previous meeting

See the draft minutes of the January 2010 meeting, EPmin01-2010.pdf.

Steve Terry moved that the draft 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 statement aloud to the assembly:

"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 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."

No patent or other intellectual property was reported.

5 Reading of the anti-trust statement

Ken Vannice read the following statement aloud to the assembly:

"The ESTA Board of Directors, the Technical Standards Committee, 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 ESTA president immediately.

"ESTA 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."

Karl Ruling, the Technical Standards Manager, held up one of the easy-to-read pamphlets to show that copies were available at this meeting.

No restraint of trade actions were reported to the assembly.

6 Approval of agenda

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

7 Old business - task group reports

7.1 EMC task group

News? See ElectroFed_17Feb2010email.pdf.

There was discussion of the email and Ken Vannice explained the situation.

Vannice reported that the European standards that the Canadian power companies are trying to get adopted in Canada are designed for 50 Hz 240 V systems. If imported to North America, modifications must be made to accommodate 60 Hz 120 V. For example, there are exemptions in the European standards for harmonics at 100 Hz, which is the main harmonic associated with a bridge rectifier on a 50 Hz power line. The analogous harmonic on a 60 Hz system is 120 Hz, so the exemptions would not apply to 60 Hz equipment, making compliance difficult.

7.2 ANSI E1.16-2002 (R2007)

No action or news.

7.3 BSR E1.18 portable feeder cable selection and use

E1.18-1 public review comment resolution ballot results—report on compilation project. See BallotReport.csv and the returned ballots and E1-18Vote_responses.pdf posted at <http://www.esta.org/meetingfiles/epwg/listfiles.php>.

Ruling reported that enough ballots were returned that at least some of the resolutions received enough votes to meet the supermajority requirement for acceptance and generated no dissenting votes. However, the ballots have generated so much data, that it appears to be many days of work to make a ballot summary. Lizz Pittsley offered to help on the collation.

Ruling said he'd try to have the compilation done by the end of April. Then Jerry Gorrell would break the compilation into sections to deliberate, and we can schedule the conference calls. The left-over Canadian issues will be removed. The editorial things will be skipped, too.

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

No news or action.

7.5 BSR E1.24 - 20xx, pin connectors

Report from the task group. Possible motion for a first public review. See E1-24r3-1.pdf

Steve Terry moved that the draft be offered for public review. The motion was seconded. The document will go to editorial committee and then to the working group for a letter ballot authorizing the public review.

Terry suggested issuing a press release for the public review that explains what this standard means in terms of listing withdrawals, re-testing, and some changes to products.

7.6 BSR E1.32 luminaire inspection guidance

Public review progress report. See E1-32WG_RslsPubRvwBlItTotal.pdf.

It was reported to the EPWG that the TSC had declined to approve the public review and decided that the EPWG should address Goddard's response, and to review the resolutions to make sure that none are being rejected simply because no text has been submitted, but to reject them only if no text and the comment is so unclear that no considered response is possible. The EPWG can request commenters to clarify their request.

Steve Terry moved that the working group draft a response to Bob Goddard. The motion was seconded, and approved by acclamation. A set of resolutions to Goddard's objections was drafted and the draft standard was modified, making an r8a version.

The working group reviewed the resolutions and made their best effort to determine that there were none that dismissed a comment simply for not having provided text. The response to comment 235 was modified, making an r3 version of the resolution document.

Wendy Holt moved that the response to Goddard's letter be accepted. The motion was seconded and then approved with a show of hands, with 13 voting in favor and one abstention.

Steve Terry moved to approve the modified comment resolutions. The motion was seconded and then approved with a show of hands, with 13 voting in favor and one abstention.

Steve Terry moved that the modified standard be offered for public review. The motion was seconded and then approved with a roll call ballot. All votes were Yes except for one No.

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP	
Greg Mayberry	AC Power Distribution Inc.	AC Power Distribution Inc.	A	CP	
George Long	Aggreko Event Services	Aggreko	P	DR	Yes
Wendy Holt	AMPTP/CSATF	Alliance of Motion Picture and Television Producers	P	G	Yes
Torsten Gruhn	Bender Inc.	Bender GmbH & Co. KG	P	MP	
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP	
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP	Yes
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	I	U	Yes
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	
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G	
Ed Garstkiewicz	Harting Inc., North America	Harting KGAA	A	G	Yes
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	No, because he does not feel standard is necessary.
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U	Yes
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U	

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.	Vote
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	
Ken Vannice	Leviton Manufacturing	Leviton Manufacturing Co., Inc.	P	MP	Yes
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	Yes
Sean Sloat	Lex Products Corp.	Lex Products Corp.	A	CP	
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U	Yes
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	Yes
David Herrmann	Motion Laboratories	Motion Laboratories	A	CP	
Ron Bonner	PLASA	PLASA	P	U	Yes
Michael Lay	Philips Strand Lighting	Royal Philips Electronics	P	MP	
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP	
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U	Yes
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)	USITT	P	U	Yes

	Yes	No	Not present	Total
CP	2	0	3	5
MP	2	0	2	4
DR	1	0	0	1
U	6	1	1	8
G	2	0	1	3
DE	0	0	0	0
Total	13	1	7	21

8 New business

None.

9 Other business

9.1 LDI sessions

Ideas for LDI sessions and possible participants were suggested:

Sustainability, Efficiency, and Harmonic Mitigation Issues in Entertainment Lighting Systems

Chair: Steve Terry

Participants: Tyrone Mellon Jr., Curtis Kasefang, Jim Niesel, George Long

Basic Luminaire Testing

Chairman: Alan Rowe

Participants: Roger Lattin, Steve Vanciel

Portable power and portable electrical distribution

George Long, Roger Lattin, Tyrone Mellon

9.2 Other other business

None.

10 Schedule for future meetings

Vannice announced that the next working group meeting is scheduled for July 23 from 8:00 to noon at the Marriott Solana in Westlake, TX.

11 Adjournment

Wendy Holt moved that the meeting adjourn. The motion was seconded and then approved with a show of hands.

Ken Vannice announced that the meeting was adjourned at 11:51.

Working Group Membership and Contact Information as of 6 April 2010

Name	Company	Representing	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
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
Torsten Gruhn	Bender Inc.	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
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
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	DR
Edward R. Condit	Edward R. Condit	Edward R. Condit	O	U
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Elizabeth E. (Lizz) Pittsley	Elizabeth Pittsley	Elizabeth Pittsley	I	U

Name	Company	Representing	Voting status	Int. cat.
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
Jody Williquette	Harting Inc., North America	Harting KGAA	P	G
Ed Garstkiewicz	Harting Inc., North America	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	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

Name	Company	Representing	Voting status	Int. cat.
Phil Fram	Marinco	Marinco	O	MP
Jeff deRecat	Marinco/ADI	Marinco	O	MP
William Drake	Marinco	Marinco	O	MP
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	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 Strand Lighting	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

Name	Company	Representing	Voting status	Int. cat.
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
Mitch Heffer	Entertainment Technology (Royal Philips Electronics)	USITT	P	U
William L. Maiman	William L. Maiman	William L. Maiman	O	U

Key to codes:

- | | | | |
|---|--------------------------|----|--|
| P | principal voting member | MP | mass-market producer interest category |
| A | alternate voting member | CP | custom-market producer interest category |
| I | individual voting member | DR | dealer or rental company interest category |
| O | observer, non-voting | U | user interest category |
| | | G | general-interest interest category |
| | | DE | designer interest category |