

Minutes
Electrical Power Working Group
Friday, 20 October 2006
Las Vegas Hilton
Las Vegas, NV

Chairmen: Mitch Hefter; Entertainment Technology (Genlyte Group), representing USITT; P; U
Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P; MP

Recording secretary: Karl G. Ruling; ESTA

Members attending: James Davey; AC Power Distribution Inc.; P; CP
Brian Merriken; Airpax Corporation; O; MP
Richard L. Eberth Jr.; North Shore Safety (Airpax Corporation); O; MP (joined at this meeting)
Joe Boardman; Bender Inc. (Bender GmbH & Co. KG); A; MP
Paul Menetrey; Menetrey Partners (Bender GmbH & Co. KG); A; MP
Steve Terry; Electronic Theatre Controls, Inc.; P; MP
Ian Foulds; IATSE Local 873, representing the Entertainment Electrical Safety Committee of Ontario; P; G
Roger Lattin; I.A.T.S.E .Local 728; P; U
Keith S. Woods; Lakhri Impressions Ltd., representing IATSE Local 891; P; U
John (Javid) D. Butler; Integrated Theatre, Inc.; P; CP
Bob Luther; Lex Products Corp.; P; CP
Kenneth M. Makowski; Lex Products Corp.; A; CP
Louis Bradfield; I; U
Jeff deRecat; Marinco/ADI (Marinco); P; MP
Phil Fram; Marinco; O; MP
W. G. Krokaugger; Mole-Richardson Co.; P; CP
Nic Bowker; PLASA; P; G
Stephen Vanciel; P; U
Jerry Gorrell; Theatre Safety Programs; P; U
Brett Paddor; TMB; P; MP (joined at this meeting)
William L. Maiman; P; U

Visitors: Bob Vanden Burgt; Link USA
Marco Piromalli; Link srl
Simon Hunt; IATSE Local 891
William Bathgate; IATSE Local 122
Lizz Chancellor; Crossings Community Church

1 Opening remarks

Ken Vannice called the meeting to order at 19:00.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

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

2.2 Determination of quorum

Ken Vannice asked for a show of hands of voters. He determined that a quorum was present.

2.3 Recognition of alternate voting members

Alternates were recognized and reminded that only one vote was allowed per voting entity on a question

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. Companies that would be in the 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 without a loss of voting status."

2.5 Processing of new membership requests

Brett Paddor of TMB applied as a principal in the mass market producer interest category. He would replace Colin Waters as the principal, and Waters would become the alternate.

Richard L. Eberth Jr. of North Shore Safety applied to represent Airpax as an observer in the mass-market interest category (the interest category for Airpax).

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

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

Name	Company	Representing	Voting status	Interest 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	A	DR
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Paul Menetrey	Menetrey Partners	Bender GmbH & Co. KG	A	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	P	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	P	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
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
Ken Vannice	Colortran	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
Kenneth M. Makowski	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jeff deRecat	Marinco/ADI	Marinco	P	MP
Bud Toly	Marinco/ADI	Marinco	A	MP
William Drake	Marinco	Marinco	A	MP
W. G. Krokaugger	Mole-Richardson Co.	Mole-Richardson Co.	P	CP

Name	Company	Representing	Voting status	Interest cat.
Al DeMayo	Mole-Richardson Co.	Mole-Richardson Co.	A	CP
Nic Bowker	PLASA	PLASA	P	G
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	P	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Brett Paddor	TMB	TMB	P	MP
Colin Waters	TMB	TMB	A	MP
Richard Wolpert	Union Connector Company	Union Connector Company	P	CP
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
William L. Maiman	William L. Maiman	William L. Maiman	P	U
		Total	24	
		Totals by interest categories	7	MP
			6	CP
			1	DR
			8	U
			2	G

- 3 Approval of the minutes from the previous meeting** (EP/2006-7014, file name EPmin07-2006.pdf)
Steve Terry moved that the draft minutes of the July 2006 meeting be approved as written. The motion was seconded. The motion was approved with a unanimous 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."

The call for patents was greeted with silence. No patents or other protected intellectual property was brought to the attention of the assembly.

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 some of the easy-to-read pamphlets to show that they were available.

No restraint of trade issues were brought to the attention of the assembly.

6 Approval of agenda

Steve Terry moved that the draft agenda be approved as written. The motion was seconded. The motion was approved with a unanimous show of hands.

7 Old business - task group reports

7.1 EMC task group

Nothing new to report, reported Vannice.

7.2 ANSI E1.24-2006, pin connectors

It's published. No action is required at this time to reaffirm it or revise it.

7.3 BSR E1.18 portable feeder cable selection and use

Public review report. See E1-18_1stReviewCommentsSummary.pdf.

Roger Lattin reported that he and Eddie Kramer were going to work on draft comment resolutions between now and the 10th of December. Lattin says they have work to do but plan to have a set of resolutions to consider by the January meeting, with a rewritten document by the March meeting.

Steve Terry said that the vast majority of the material in the standard has been written by Eddie Kramer. He suggested that at this point the task group would be helped by some additional people being involved in the writing.

Mitch Hefter noted that due to the vast amount of comments on the structure that it might be more efficient to rework the document first and then make sure the details of the Public Review comments had been addressed, rather than the other way around.

Steve Terry moved that the EPWG directs the task group to prioritize the comments in order of severity, with structural changes being the most severe, and that they address the comments in order of severity, addressing the 40% most severe first. The motion was seconded. The motion was approved with a unanimous show of hands.

There was a discussion of the composition of the task group. Ken Vannice, Jerry Gorrell, Javid Butler, and Mitch Hefter agreed to participate.

7.4 BSR E1.19 GFCI task group

Report on public review. See E1-19_2ndCommentsSummry.pdf.

Bob Luther said that the document is in its second comments resolution phase. He said that the task group feels that they have been able to modify the document to fit with the Canadian Electrical Code.

Steve Terry asked about Steve Kay's comment that agreed upon changes from his comments in the previous public review hadn't been made in the document that was offered for the last public review. Luther said that there had been some things left out by mistake, but that the task group is working to ensure that changes made to address Kay's comments will be included in the next version.

Luther said that he'd learned that Mexico in the late '90s adopted a translated version of the NEC. Vannice said that this was true. UL 943 is a trinational standard, said Joe Boardman of Bender, so this simplifies our job with E1.19 because we can reference a product standard that is recognized in Canada, Mexico, and United States.

7.5 BSR E1.32 luminaire inspection guidance

Progress report. See EP/2006-7016, file name BSR_E1-32_2006-7016.pdf.

Jerry Gorrell reported that we have had two working drafts since July. Hopes to have version to be considered for public review at the January meeting.

7.6 Generator earthing

Roger Lattin reported that he got some information from Aggreko and another generator company in Los Angeles. Plans to do a survey to collect opinions on how to ground portable generators.

7.7 CANENA report [Vannice]

Vannice reported that the intermateability task group has a Webex meeting scheduled for October 23, 24, 26 or 27. The contact for information about participating is Paul Orr at NEMA.

8 New business

Harting multi-cable pinouts is an issue in Europe, reported Steve Terry. There is a DIN Norm for the pin-out of the cable. The UK also has a de facto standard for the connector, but it's not the same as the DIN Norm. Plug the two together, and the chassis of a powered device can become hot. Some solution needs to be found, with cooperation between PLASA and VPLT. The DIN Norm also requires a common-trip RCD for all the circuits, which is a real problem when this gets applied to permanent equipment, although it seems to have been intended for portable applications. Terry pleaded that we need a narrowing of the scope on the RCD requirement so that it does not get applied to permanently installed equipment.

9 Other business

There was a discussion of arc flash accidents caused by portable meters being used on improperly and blowing up, thus creating enough of an ionized atmosphere in the explosion of the meter to support an arc flash involving the distribution equipment on which the meter was being used. There is a proposal in Canada to require fused test leads. This almost completely eliminates the problem.

10 Changes to observer status with third meeting missed

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

Steve Terry; Electronic Theatre Controls

Javid Butler; Integrated Theatre, Inc.

W. G. Krokaugger and Al DeMayo; Mole-Richardson Co.

All were present, so there was no change in voting status.

11 Schedule for future meetings

It was announced that the next meeting is scheduled for Friday, 19 January 2007, 09:00 to noon, at the Dallas/Ft. Worth Airport Marriott South, in Ft. Worth, Texas.

12 Adjournment

Keith Wood moved that we adjourn. The motion was seconded. The motion was approved on a voice vote. Vannice declared the meeting adjourned at 20:11.

Working Group Membership and Contact Information as of 01 November 2006

Name	Company	Representing (This is the sort field.)	Vot. stat.	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
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
George Long	Aggreko Event Services	Aggreko	P	DR
Kenny Delahoussaye	Aggreko	Aggreko	A	DR
Brian Merriken	Airpax Corporation	Airpax Corporation	O	MP
Richard L. Eberth Jr.	North Shore Safety	Airpax Corporation	O	MP
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
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
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Paul Menetrey	Menetrey Partners	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
Julie Rogers	City of Phoenix Civic Plaza	City of Phoenix	O	G
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	O	MP
Ford Sellers	Cornell University	Cornell University	O	U
Ron Dahlquist	Dadco	Dadco	O	MP
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	DR
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Ian Foulds	IATSE Local 873	Entertainment Electrical Safety Committee of Ontario	P	G
Art Wanuch	Robertson Electric Wholesale	Entertainment Electrical Safety Committee of Ontario	O	G
Michael Lay	Strand Lighting	Genlyte Group LLC	P	MP
Trevor Forrest	Helvar Lighting Control	Helvar Lighting Control	O	MP
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	P	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
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Bill Kanne	Illumination Dynamics	Illumination Dynamics	O	U
John (Javid) D. Butler	Integrated Theatre, Inc.	Integrated Theatre, Inc.	P	CP
David Murray	IPC Resistors Inc.	IPC Resistors Inc.	O	CP
Stephen J. Kay	K-Tec Corporation	K-Tec Corporation	O	MP
Jose J. Flores	Kino Flo, Inc.	Kino Flo, Inc.	O	MP
Don Gray	Kohler Event Services	Kohler Co.	O	U
Ken Vannice	Colortran	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
Reinhold Luther	Lex Products Corp.	Lex Products Corp.	O	CP

Name	Company	Representing (This is the sort field.)	Vot. stat.	Int. cat.
Kenneth M. Makowski	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jim Holladay	Luxence	Luxence	O	G
Jeff deRecat	Marinco/ADI	Marinco	P	MP
Phil Fram	Marinco	Marinco	O	MP
Bud Toly	Marinco/ADI	Marinco	A	MP
William Drake	Marinco	Marinco	A	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Michael Klein	Metropolitan Engineering, Inc.	Metropolitan Engineering, Inc.	O	G
W. G. Krokaugger	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
Al DeMayo	Mole-Richardson Co.	Mole-Richardson Co.	A	CP
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Steve DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
Nic Bowker	PLASA	PLASA	P	G
James Eade	PLASA	PLASA	O	G
Mac Perkins	PNTA Inc.	PNTA Inc.	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
Jeremy B. Collins	Selecon	Selecon	O	MP
Richard A. Prey	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	O	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Michael Scudday	SSRC, Inc.	SSRC, Inc.	P	CP
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	P	U
Reuben Goldberg	Technic Services	Technic Services	O	U
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Richard D. Thompson	Thompson Associates	Thompson Associates	O	G
Brett Paddor	TMB	TMB	P	MP
Colin Waters	TMB	TMB	A	MP
Richard Wolpert	Union Connector Company	Union Connector Company	P	CP
Mitch Hefter	Entertainment Technology (Genlyte Group)	USITT	P	U
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
William L. Maiman	William L. Maiman	William L. Maiman	P	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