

Minutes
Electrical Power Working Group
Friday, 22 November 2013
19:00-23:00
The Las Vegas Hotel
Las Vegas, NV

Presiding Chairpersons:

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

Recording secretaries:

Erin Grabe; PLASA
Karl G. Ruling; PLASA

Members attending:

Matthew Antonucci; Contract Services Administration Trust Fund; P; U
Louis Bradfield; Louis Bradfield; P; U
Stephen (Steve) Brock; Bender GmbH & Co. KG; A; MP
Rodger Dean; Entertainment Electrical Safety Committee of Ontario; A; G
Don Earl; Earl Girls, Inc.; O; DR
Brian Eustace; Mole-Richardson Co.; P; CP
Ed Garstkiewicz; Harting KGAA; P; G
Jerry Gorrell; Theatre Safety Programs; P; U
Torsten Gruhn; Bender GmbH & Co. KG; A; MP
Tyrone Mellon Jr.; Lex Products Corp.; P; CP
Roger Lattin; I.A.T.S.E. Local 728; P; U
Michael Lay; Royal Philips; P; MP
George Long; Aggreko; P; DR
Bob Luther; Lex Products Corp.; A; CP
Jeff T. Miller; Walt Disney Company; P; U
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
Colin Waters; TMB; O; DR
Keith S. Woods; IATSE Local 891; P; U

Visitors:

Charles H. McIntyre; IATSE Local 728
Darrell Aranda; IATSE Local 33
Mike Harwood; W. F. White International/EESCO

1 Opening remarks

Ken Vannice called the meeting to order at 19:05.

2 Attendance and membership

2.1 Introduction of those present and taking attendance

An electric green sign-in sheet trailed self-introductions counterclockwise.

2.2 Determination of quorum

Vannice asked for a show of hands of Principle and Individual voters and announced a supermajority present.

2.3 Recognition of alternate voting members

2.4 Requirements for membership

Ken Vannice. The following statement is to be read aloud to the assembly:

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:

No voting members are in currently jeopardy of a change in status.

2.6 Processing of new membership requests

There were no new applications.

Keith Woods and George Long asking to be moved back to voting status.

Larry Schoeneman moved that the requests be honored. The motion was seconded and then passed with a show of hands.

2.7 Consensus body

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

Name	Representing	Voting Status	Interest Category
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
Nathan Leonard	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender GmbH & Co. KG	A	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
Steve Terry	Electronic Theatre Controls, Inc.	P	MP
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

Name	Representing	Voting Status	Interest Category
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
Ken Vannice	Ken Vannice LLC	I	G
Bill Grande	Leviton Manufacturing Co., Inc.	P	MP
Tyrone Mellon_Jr.	Lex Products Corp.	P	CP
Bob Luther	Lex Products Corp.	A	CP
Sean Sloat	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	P	U
Brian Eustace	Mole-Richardson Co.	P	CP
Alex Yoon	Mole-Richardson Co.	A	CP
Michael Lay	Royal Philips	P	MP
Jerry Gorrell	Theatre Safety Programs	P	U
Mitch Hefter	USITT	P	U
Jeff T. Miller	Walt Disney Company	P	U

	Total
CP (Custom-market Producer)	3
DE (Designer)	0
DR (Dealer or Rental company)	2
G (General interest)	3
MP (Mass-market Producer)	5
U (User)	8
Total votes possible	21

3 Approval of the minutes from the previous meeting

See the draft minutes of the 2 August 2013 meeting, *EPmin08-2013.pdf*

Steve Terry moved to approve the draft minutes. The motion was seconded and passed by 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 reported.

5 Reading of the anti-trust statement

The following statement was read aloud to the assembly by Ken Vannice:

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 chairman 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.

Nothing was reported.

6 Approval of agenda

Colin Waters's proposal for 19-pin standard is being added under new business.

TSP marketing, TSP Above and Beyond Awards, and ProSight insurance are being added to other business.

Larry Schoeneman moved to approve the agenda as modified. The motion was seconded and approved with a show of hands.

7 Old business - task group reports

7.1 EMC task group

Vannice reported on work for an emissions and immunity standard for North America. Slow work, with Canadian utilities against everyone else. Canadian utilities withdrew, so the IEEE dropped the IEEE P1836/37 project.

7.2 ANSI E1.16-2002 (R2012) Configuration Standard for Metal Halide Ballast Power Cables

(Revision, reaffirmation, or withdrawal by 2017)

No news or action.

7.3 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

The task group met by teleconference to make revisions. Ty Mellon to offer progress report (see EP/2001-7012r17). After some discussion, Steve Terry moved that we send the draft to public review. The motion was seconded and approved by a unanimous show of hands.

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

Ty Mellon reported that Lex Products's new pin connector cord sets were tested by UL to ANSI E1.24

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

No news or action.

7.6 Grounding and Bonding on portable structures

From the draft August 2013 minutes:

Mitch Hefter revised that task group as follows: George Long, David Lester, Richard Cadena, Alan Rowe, Matthew Antonucci, Roger Lattin, Art Wanuch is the leader. He said that the task group is to consider these documents and then make a recommendation for how to move forward at the next meeting in Las Vegas.

Art Wanuch said that he wondered if we can make a standard for this, due to differences in different jurisdictions.

There was discussion. The consensus was to make the project be for "grounding and bonding on portable structures," eliminating "electrical systems." The task group will meet in January at our meetings.

7.7 A Canadian E1.18

From the draft August 2013 minutes:

Art Wanuch said that the document is nearing completion and will be sent out to meet the required two weeks before the meeting in Las Vegas.

There was discussion in which it was re-iterated that the group will consider what action to take on this document when the completed piece is presented.

Art Wanuch moved that the draft document become the basis for an American National Standard. The motion received a second and was unanimously approved by a show of hands.

7.8 CSA and UL harmonization

CSA C22.2 No. 166, IHC 61810-1, et cetera

Ken Vannice reported on the revision of CSA C22.2. Leakage current set at 3.5 mA per information technology equipment, but there is some opposition. It was also reported that IEC 60947 is for relays and that, IHC 61810-1, when finished, is UL 61810-1.

7.9 UL 1573

From the draft August 2013 minutes:

Mitch Hefter said that there was no action item from this, but Terry suggested that the CSA harmonization project that Vannice reported on might suggest possible changes for UL 1573. With interest, this item will remain on the agenda.

Steve Terry spoke on the change to UL 1573 to allow physically smaller cables to supply low-power luminaires.

8 New business

Colin Waters spoke on the 19-pin circular connector standard proposal. He noted the wide use of the connectors. They are made by many manufacturers, but some of the connectors do not intermate with connectors by other manufacturers. He is therefore proposing we develop a configuration standard for these connectors. He has asked Amphenol for their specifications.

Terry spoke in favor, but suggested that there were several layers to this project. First, we need a common configuration specification and to make a standard of that. Then, we need to work with UL to make it acceptable to them and referenced it in their standards. This project might be the impetus to get entertainment industry power connectors out of UL 498, which is more aimed at connectors installed by building electrical contractors.

Ty Mellon argued for dimensional only, not pin assignments and not current ratings. UL 498 is not really applicable to solder & crimp connectors. UL 1977 is usually used for this type of connector. The name "Socapex" should not be in the standard or the description.

Steve Terry moved that we undertake this project as a project to create a configuration standard for 19-pin Socapex-compatible circular connectors. The motion was seconded and then approved with a unanimous show of hands.

A task group, consisting of Colin Waters and Ty Mellon was appointed. They will reach out to other manufacturers for involvement.

9 Other business

9.1 UL 1008 BCELTS--Branch Circuit Emergency Lighting Transfer Switch

Update? Any news of importance?

Steve Terry reported that this is in the middle of the CANENA process and should be done in time for the BCELTS to be written into the NEC.

9.2 TSP Marketing

Michael Lay put out a call for photos and instances where standards were used or made something possible.

9.3 Above and Beyond Awards

Mitch Hefter described the awards and gave a call for nominations, which are due at the end of the month.

9.4 ProSight and free standards sponsorship

Ken Vannice spoke about the sponsorship, then handed deferred to Mitch Hefter. They urged members to move ProSight's name to the insurance decision makers within members' respective companies.

10 Schedule for future meetings

The next meeting is scheduled for Saturday, 18 January 2014, between 09:00 and 12:00 at the D/FW Marriott Solana in Westlake, TX.

11 Adjournment

Steve Terry moved to adjourn. The motion was seconded and approved by a show of hands. Ken Vannice declared the meeting adjourned at 21:11.

Name	Company	Representing	Voting Status	Interest Category
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
Lee J. Bloch	Bloch Design Group, Inc.	Bloch Design Group, Inc.	O	G
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
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	P	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
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
Jeff deRecat	Marinco	Actuant Corporation	P	MP
Jim Digby	The Collaborative Endeavor Group	Linkin Park Touring/The Collective	O	U
William Drake	Marinco	Actuant Corporation	A	MP
Marsha DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP

Name	Company	Representing	Voting Status	Interest Category
Steve DuBois	Pintech Stage Connectors, Inc.	Pintech Stage Connectors, Inc.	O	CP
James Eade	PLASA	PLASA EU	O	G
Don Earl	Earl Girls, Inc.	Earl Girls, Inc.	O	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	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
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	P	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
Richard L. Eberth_Jr.	North Shore Safety	Airpax Corporation	O	MP
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
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

Name	Company	Representing	Voting Status	Interest Category
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.	A	CP
Tyrone Mellon_Jr.	Lex Products Corp.	Lex Products Corp.	P	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	O	U
R. Bruce Prochal	IATSE 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
Jared Saltzman	Jared Saltzman	Jared Saltzman	O	U
Larry Schoeneman	DesignLab Chicago, Inc.	DesignLab Chicago, Inc.	P	DR
Ford Sellers	Cornell University	Cornell University	O	U
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
Sean Sloat	Lex Products Corp.	Lex Products Corp.	A	CP
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

Name	Company	Representing	Voting Status	Interest Category
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
Jody Williquette	Electrivot, Inc.	Electrivot, Inc.	O	CP
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
Alex Yoon	Mole-Richardson Co.	Mole-Richardson Co.	A	CP

Voting Status and Interest Category Legend

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