

**Minutes**  
**Electrical Power Working Group**

Friday, 21 November 2003  
Sheraton World Resort  
Orlando, Florida

**Chairmen:** Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P; MP  
Bob Luther; Lex Products Corp.; P; CP

**Recording secretary:**

**Members attending:** Michael Amorelli; AC Power Distribution Inc.; P; CP  
James Davey; AC Power Distribution Inc.; A; CP  
Jeff deRecat; Advanced Devices, Inc.; P; MP  
George Long; Aggreko Global Event Services (Aggreko LLC); P; DR  
Mike Skinner; CBS Studio Center, representing the Alliance of Motion Picture and  
Television Producers; O; U (joined at the end of this meeting)  
Lowell R. Nutter; Array Connector Corp.; O; MP  
Joe Boardman; Bender Inc. (Bender GmbH & Co. KG); A; MP  
Lee J. Bloch; Blue Sky Design, Ltd.; O; G  
Wayne Kowalski; Coleman Cable Inc.; P; MP (joined at this meeting)  
Stewart Cox; Cooper Crouse-Hinds Molded Products Inc.; O; MP  
Art Wanuch; M.C. Lights & Manufacturing, Ltd., representing the Entertainment  
Electrical Safety Committee of Ontario; O; G  
Pat Miller; Hubbell Wiring Devices (Hubbell Inc.); P; MP  
Edwin S. Kramer; I.A.T.S.E, Local 1; P; U  
Roger Lattin; I.A.T.S.E. Local 728; P; U  
William L. Maiman; Lex Products Corp.; A; CP (joined at the end of this meeting)  
Louis Bradfield; Louis Bradfield; I; U  
Phil Fram; Marinco; O; MP  
Paul Menetrey; Menetrey Associates; P; G (joined at this meeting)  
Michael Klein; Metropolitan Engineering, Inc.; P; G  
W. G. Krokaugger P.E.; Mole-Richardson Co.; P; CP  
James Eade; PLASA; P; G  
Jerry Gorrell; Theatre Safety Programs ; P; U  
Richard D. Thompson; Thompson Associates; P; G  
Brian Dowd; TMB; P; MP

**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

**Visitor:** Steven Rust; Sachs Morgan Studio

**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

Vannice asked those present to introduce themselves. Karl Ruling explained the attendance sign-in sheet and asked people present to sign in.

## 2.2 Determination of quorum

Bob Luther asked the principal voting members present to identify themselves by raising a hand. Luther counted the upraised hands and announced that a quorum was present.

## 2.3 Recognition of alternate voting members

James Davey of AC Power Distribution Inc. was present at the beginning of the meeting with his company's principal, Michael Amorelli, so Davey could not vote unless Amorelli deferred to him.

Joe Boardman of Bender Inc. was present to vote in the interests of Bender GmbH & Co. KG

## 2.4 Requirements for membership

Ken Vannice reminded those present that membership in the working group is open to all who are affected by the work of the group, but that 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

Bob Luther read the new applications:

Wayne Kowalski; Coleman Cable; principal in the mass-market producer category  
Paul Menetrey; Menetrey Associates; principal in the general interest category

Eddie Kramer moved that the applications be accepted. The motion was seconded. The motion was approved by a unanimous show of hands.

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

Name	Company	Representing	voting status	Interest categories				
				MP	CP	U	G	DR
Michael Amorelli	AC Power Distribution Inc.	AC Power Distribution Inc.	P		1			
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	A					
Jeff deRecat	Advanced Devices, Inc.	Advanced Devices, Inc.	P	1				
Bud Toly	Advanced Devices, Inc.	Advanced Devices, Inc.	A					
George Long	Aggreko Global Event Services	Aggreko LLC	P					1
Kenny Delahoussaye	Aggreko	Aggreko LLC	A					
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	1				
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A					
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	P	1				
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	1				
Pat Miller	Hubbell Wiring Devices	Hubbell Inc.	P	1				
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P			1		
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P			1		
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A					
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A					
Stephen J. Kay	K-Tec Corporation	K-Tec Corporation	P	1				
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	P	1				
Tim Bachman	Leviton/Colortran	Leviton Manufacturing Co., Inc.	A					
Bill Grande	Leviton Manufacturing Co., Inc.	Leviton Manufacturing Co., Inc.	A					
Bob Luther	Lex Products Corp.	Lex Products Corp.	P		1			
Louis Bradfield	Louis Bradfield	Louis Bradfield	I			1		
Paul Menetrey	Menetrey Associates	Menetrey Associates	P				1	
Michael Klein	Metropolitan Engineering, Inc.	Metropolitan Engineering, Inc.	P				1	
W. G. Krokaugger P.E.	Mole-Richardson Co.	Mole-Richardson Co.	P		1			
James Eade	PLASA	PLASA	P				1	
Richard B. Glickman	Gliconen Corporation	Rosco Laboratories	P	1				
Eric Tishman	Rosco Laboratories	Rosco Laboratories	A					
William N. Masten	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	P		1			
Richard A. Prey	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	A					

Michael Lay	Strand Lighting	Strand Lighting Ltd.	P	1					
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P			1			
Richard D. Thompson	Thompson Associates	Thompson Associates	P				1		
Brian Dowd	TMB (NJ)	TMB	P	1					
Colin Waters	TMB	TMB	A						
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P			1			
				24	10	4	5	4	1

**3 Approval of the minutes from the previous meeting**

Mitch Hefter moved that the draft minutes of the July 2003 meeting be approved as written. The motion was seconded. The motion was accepted by a unanimous show of hands.

**4 Reading of the call for patents**

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

"ESTA intends to publish no standard that contains protected intellectual property, unless that property can be licensed by anyone for a reasonable fee. ESTA uses a process of open patent disclosure to implement this intent. ESTA does not conduct patent searches and does not warrant that its standards contain no protected intellectual property.

"In keeping with the open disclosure policy, I ask if anyone present wishes to notify the working group of the existence of a patent or copyright that might protect material in a standard being developed by the working group. You need not be the holder of the patent or copyright in order to notify the working group of its existence."

No patent or trademark issues were called to the attention of the assembly.

**5 Reading of the anti-trust statement**

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

"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 \$100,000 and imprisoned for up to three years. An easy to read pamphlet describing restraint of trade issues is available from the Technical Standards Manager."

Karl Ruling held up some pamphlets to show their ready availability. No restraint of trade issues were brought to the attention of the assembly.

**6 Approval of agenda**

The use of the archived reflectors was added to Old Business. Roger Lattin's show and tell was added to Other Business.

Eddie Kramer moved that the agenda as amended be accepted. 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**

Ken Vannice reported that there are two things are going on:

- 1) In regard to IEC 61000-3-12, we need to be aware of this document, and to make comments to Ken Vannice, who will send them to Ed Yandek. The final due date for comments is January 16, 2004.

2) The electrical products industry in the United States has done its best to keep 61000-3-2 out of North America, but there was the possibility that Canadian Standards Council was going to consider adopting it. Industry advocates have been successful in getting the Canadian Standards Council to drop the idea.

## **7.2 BSR E1.24 pin connectors**

Mitch Hefter reported email reflector problems that impeded work. After receiving no responses to documents sent by the reflector, he sent out draft 0.2 directly to task group members. He still had received no comments. He asked task group members to review the document.

Hefter reported that tables would be used to give the significant dimensions of the pin connectors. This way SI and U.S. customary units can be handled easily.

## **7.3 BSR E1.18 portable feeder cable selection and use task group**

Eddie Kramer apologized for not having done more work on the draft standard and explained that he had been overwhelmed this Fall in work at Radio City Music Hall. He promised to have more by January.

There was a discussion of the need to hand off projects to others when a person becomes buried in other projects. Bob Luther suggested that Wayne Kowalski might join the task group to help smooth the progress of the work. He agreed, and Eddie Kramer said that he would send him the draft document.

There was a discussion of color coding on conductors.

## **7.4 BSR E1.19 GFCI task group**

There was a long discussion of the problems in the field this project is trying to address. GFCIs malfunctioning because of high levels of harmonics or significant DC components was one of the problems discussed. Richard Thompson suggested that the poor performance of some GFCIs should be addressed by the working group pressuring UL to change the GFCI testing standard. The consensus of the group was that this BSR E1.19 document should address these problems by warning people of the problems and suggesting solutions.

## **8 New business**

None.

## **9 Other business**

Roger Lattin showed a new product he had bought that allows one to drill a hole in one side of a wall that will line up with a desired spot on the opposite side.

## **10 Changes to observer status with third meeting missed**

Members who have missed the previous two meetings: None. No changes were made.

At this time, at the end of meeting, the following people submitted applications:

Bill Maiman; Lex Products; alternate; CP

Michael Skinner; CBS Studio Center; observer; user group

Jerry Gorrell moved that these applications be accepted. The motion was seconded. The motion was approved with a unanimous show of hands.

## **11 Schedule for future meetings**

Vannice announced that the next meeting would be 16 January 2004 at 08:00 to noon at the Dallas/Ft. Worth Airport Marriott South in Ft. Worth, Texas. The subsequent meeting will be 17 March 2004 in Long Beach, California from 08:00 to noon. The summer meeting will be 16 July from 08:00 noon at the Dallas/Ft. Worth Airport Marriott South.

Vannice reviewed the goals for the next meeting:

1. The BSR E1.24 pin connector will have something for next meeting.
2. The BSR E1.18 portable feeder cable group will have a document for working group review at the next meeting.
3. The BSR E1.19 GFP group will revise the document and send it to the working group by Christmas 2003.

## **12 Adjournment**

Jerry Gorrell moved that the meeting adjourn. The motion was seconded. The motion was approved by acclamation. Vannice declared the meeting adjourned at 21:15.

**Electrical Power Working Group Membership and Contact Information as of 2003-12-5**

Name	Company	Representing (This is the sort field)	Voting status	Int. cat.
Michael Amorelli	AC Power Distribution Inc.	AC Power Distribution Inc.	P	CP
James Davey	AC Power Distribution Inc.	AC Power Distribution Inc.	A	CP
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
Bud Toly	Advanced Devices, Inc.	Advanced Devices, Inc.	A	MP
Jeff deRecat	Advanced Devices, Inc.	Advanced Devices, Inc.	P	MP
George Long	Aggreko Global Event Services	Aggreko LLC	P	DR
Kenny Delahoussaye	Aggreko	Aggreko LLC	A	DR
Mike Skinner	CBS Studio Center	Alliance of Motion Picture and Television Producers	O	U
Arnold Tang	Arnold Tang Productions	Arnold Tang Productions	O	G
Lowell R. Nutter	Array Connector Corp.	Array Connector Corp.	O	MP
Wolfgang Hofheinz	Bender GmbH & Co. KG	Bender GmbH & Co. KG	P	MP
Joe Boardman	Bender Inc.	Bender GmbH & Co. KG	A	MP
Lee J. Bloch	Blue Sky Design, Ltd.	Blue Sky Design, Ltd.	O	G
Wayne Kowalski	Coleman Cable Inc.	Coleman Cable Inc.	P	MP
Jeffrey Measley	Crouse-Hinds Molded Products	Cooper Crouse-Hinds Molded Products Inc.	O	MP
Stewart Cox	Crouse-Hinds Molded Products	Cooper Crouse-Hinds Molded Products Inc.	O	MP
Ron Dahlquist	Dadco	Dadco	O	MP
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P	MP
Art Wanuch	M.C. Lights & Manufacturing, Ltd.	Entertainment Electrical Safety Committee of Ontario	O	G
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
R. Bruce Prochal	IATSE Local 728	I.A.T.S.E. Local 728	A	U
Roger Lattin	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	P	U
Patric J. Abaravich	I.A.T.S.E. Local 728	I.A.T.S.E. Local 728	A	U
Richard Thornton Brown	Zero 88 Ltd.	i Light Group PLC	O	MP
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U
Bill Kanne	Illumination Dynamics	Illumination Dynamics	O	U
Kevin Stolpe	Illumination Dynamics	Illumination Dynamics	O	U
Stephen J. Kay	K-Tec Corporation	K-Tec Corporation	P	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
Tim Bachman	Leviton/Colortran	Leviton Manufacturing Co., Inc.	A	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
William L. Maiman	Lex Products Corp.	Lex Products Corp.	A	CP
Louis Bradfield	Louis Bradfield	Louis Bradfield	I	U
Jim Holladay	Luxence	Luxence	O	G
Phil Fram	Marinco	Marinco	O	MP
Hiroshi Kita	Marumo Electric Co., Ltd.	Marumo Electric Co., Ltd.	O	MP
Paul Menetrey	Menetrey Associates	Menetrey Associates	P	G
Michael Klein	Metropolitan Engineering, Inc.	Metropolitan Engineering, Inc.	P	G
W. G. Krokaugger P.E.	Mole-Richardson Co.	Mole-Richardson Co.	P	CP
James Eade	PLASA	PLASA	P	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	A	MP
Richard B. Glickman	Gliconen Corporation	Rosco Laboratories	P	MP
William N. Masten	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	P	CP
Richard A. Prey	SMS Inc. / PGS LLC	SMS Inc. / PGS LLC	A	CP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Stephen Vanciel	Stephen Vanciel	Stephen Vanciel	O	U
Michael Lay	Strand Lighting	Strand Lighting Ltd.	P	MP
Reuben Goldberg	Technic Services	Technic Services	O	U
Andy Topinka	Technical Group Services, Inc.	Thea & Schoen, Inc.	O	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	U
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Colin Waters	TMB	TMB	A	MP
Brian Dowd	TMB (NJ)	TMB	P	MP
Richard Wolpert	Union Connector Company	Union Connector Company	O	CP
Mitch Hefter	Entertainment Technology (Genlyte Thomas Group)	USITT	P	U
Eckart Steffens	SOUNDLIGHT	VPLT	O	G

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