

**Minutes**  
**Technical Standards Committee**  
 Wednesday, 19 March 2008  
 Hilton Americas Houston  
 Houston, Texas

**Chairman:** Mike Garl; James Thomas Engineering, Inc.; P

**Recording secretary:** Karl G. Ruling; ESTA

**Members attending:**

William Conner; Bill Conner Associates LLC, representing the American Society of Theatre Consultants; P  
 Larry Schoeneman; Designlab Chicago, Inc.; P  
 Steve Terry; Electronic Theatre Controls; P  
 Edwin S. Kramer; I.A.T.S.E. Local 1; P  
 Ken Vannice; Colortran (Leviton Manufacturing Co., Inc.); P  
 Mike Wood; Mike Wood Consulting LLC; P  
 David Johnson ; Live Design (Penton Media); O  
 Matthew Griffiths; PLASA; P  
 Ron Bonner; PLASA; A  
 Bill Groener; PRG Systems Integration Group ; P  
 Mitch Hefter; Entertainment Technology (Royal Philips Electronics); P  
 Richard Cadena; Projection, Light & Staging News (Timeless Communications Corp.); P  
 Jerry Gorrell; Theatre Safety Programs, representing USITT; P  
 Lori Rubinstein; ESTA; ex officio

**Visitors:** Michael Lay; Strand Lighting

**1 Opening remarks**

Mike Garl called the meeting to order at 13:01. He welcomed all to Houston. He noted that it had been a long, tedious effort for most of us to get to Houston yesterday. He appreciated the effort.

**2 Attendance and membership**

**2.1 Taking attendance**

A red and blue attendance sign-in sheet was circulated.

The full consensus body during the time of this meeting, including those voters not present, was:

Name	Company	Representing	Voting status
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A
Larry Schoeneman	Designlab Chicago, Inc.		P
Steve Terry	Electronic Theatre Controls		P
Edwin S. Kramer	I.A.T.S.E. Local 1		P
Mike Garl	James Thomas Engineering, Inc.		P
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P
Mike Wood	Mike Wood Consulting LLC		P
Matthew Griffiths	PLASA	PLASA	P
Ron Bonner	PLASA	PLASA	A
Bill Groener	PRG Systems Integration Group		P
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)		P
Bill Sapsis	Sapsis Rigging, Inc.		P

Name	Company	Representing	Voting status
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)		P
Jerry Gorrell	Theatre Safety Programs	USITT	P
Louis Bradfield	Louis Bradfield	USITT	A
Florian von Hofen	VPLT	VPLT	P
Eckart Steffens	SOUNDLIGHT	VPLT	A
Total votes possible			14

## 2.2 Welcome to visitors

Mike Garl welcomed Michael Lay.

## 2.3 Introductions

### 3 Approval of minutes from the previous meeting

See TSC/2008-0001, file name TSCmin01-2008.pdf

Larry Schoeneman moved that the draft minutes of the 27 January 2008 meeting be accepted as written. The motion was seconded and then approved with a unanimous show of hands.

### 4 Call for patents

Mike Garl 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 the Technical Standards Committee of the existence of a patent or copyright or other intellectual property that might protect material in a standard being developed by a working group. You need not be the holder of the patent or copyright to notify the Technical Standards Committee of its existence."

No protected intellectual property was brought to the attention of the assembly.

### 5 Anti-trust statement

Mike Garl read the following statement aloud to the assembly:

"The ESTA Board of Directors and the leadership of this Technical Standards Committee 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 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.

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

### 6 Approval of agenda

Mike Garl suggested that the following items should be added:

9.1 lighting the stage with CFLs

## 9.2 academic publishing permission

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

### **7 Reminder about ESTA committee contact information on the website**

Lori Rubinstein reminded people to check the website.

### **8 Old business and standing reports**

#### **8.1 Financial reports**

##### **8.1.1 Treasurer's report**

Mike Woods said that the budget presented is the final budget for 2008. It assumes a reduced contribution level, so the ESTA contribution must increase.

##### **8.1.2 Status of contributions and pledges**

Lori Rubinstein reported that we are almost through the dues renewal period, so the income from that in the report is about complete. \$12,500 has been invoiced but not received yet. We can expect to receive it all, plus the contribution from USITT. We expect a total of about \$60,000 for contributions.

The VAT refund for the 2006 PLASA show has not been seen yet, Rubinstein reported. We don't know when or if we will see the money.

##### **8.1.3 Accounting of TSP documents sold**

Lori Rubinstein noted the new format for the report, which is designed to fit the information on one sheet, and asked if the format was acceptable. No one objected.

##### **8.1.4 TSP Marketing**

Lori Rubinstein reported that the blast email was refined with the help of Mark Engel. It will be sent to ESTA members first, then to Penton's Millimeter and S&VC, with Live Design to follow. A total of seven publications from Penton will send out the email to their subscribers.

She noted that the response to the first blast for Millimeter and S&VC has resulted in very little click-through, only 26 as of today.

Steve Terry said this is not surprising. We're 14 years old, so the people who would care about what we do already know. That said, we can't stop marketing. We have to continue to remind people that we are functioning and are productive.

Lori said that we will be sending messages to local OSHA officials.

In return for the help from the Penton publications, we'll list them on the Investors In Innovation list in the ads and on the website, a one-time use of our mailing list, and there will be a thank you in Standards Watch.

David Johnson suggested that we perhaps can target the pitch better.

#### **8.2 Old Business**

##### **8.2.1 TSM's report**

**8.2.1.1 Report on status of documents: ones in process, ones stable, ones needing action or of concern**

See [TSM's Report on TSP Projects](#) (Annex A of these minutes)

Karl Ruling asked if there were any questions. There were none.

**8.2.1.2 Documents or projects requiring action by the TSC**

**8.2.1.2.1 BSR E1.6-2, chain hoists, public review**

See E1-6-2ChainHoistsR3.pdf and E1-6-2ThrdRevwResols.pdf.

Steve Terry moved that we offer BSR E1.6-2, Entertainment Technology—Purpose Designed Serially Manufactured Electric Chain Hoists for the Entertainment Industry (document Rig/2005-2040r3) for public review. The motion was seconded and then approved with a roll call ballot, with 12 out of a possible 14 voting Yes.

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X			
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A				
Larry Schoeneman	Designlab Chicago, Inc.		P	X			
Steve Terry	Electronic Theatre Controls		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Ron Bonner	PLASA	PLASA	A				
Bill Groener	PRG Systems Integration Group		P	X			
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)		P	X			
Bill Sapsis	Sapsis Rigging, Inc.		P				
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)		P	X			
Jerry Gorrell	Theatre Safety Programs	USITT	P	X			
Louis Bradfield	Louis Bradfield	USITT	A				
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
				12	0	0	0

**8.2.1.2.2 BSR E1.18, single conductor portable power feeder cable, public review**

See BSRE1-18r11.pdf

Ken Vannice moved that BSR E1.18-1, Standard for the Selection, Installation, and Use of Single-Conductor Portable Power Feeder Cable Systems for Use at 600 Volts Nominal or Less for the Distribution of Electrical Energy in the Entertainment and Live-Event Industries (EP/2002-7003r11), be offered for public review. The motion was seconded and then approved with a roll call ballot. All voters present, 12 out of a voting body of 14, voted Yes.

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X			

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A				
Larry Schoeneman	Designlab Chicago, Inc.		P	X			
Steve Terry	Electronic Theatre Controls		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Ron Bonner	PLASA	PLASA	A				
Bill Groener	PRG Systems Integration Group		P	X			
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)		P	X			
Bill Sapsis	Sapsis Rigging, Inc.		P				
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)		P	X			
Jerry Gorrell	Theatre Safety Programs	USITT	P	X			
Louis Bradfield	Louis Bradfield	USITT	A				
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
				12	0	0	0

### 8.2.1.2.3 BSR E1.19, GFCI, public review

See E1-19ThrdResolsR1.pdf and E1-19\_r14.pdf.

Ken Vannice moved that BSR E1.19, Recommended Practice for the use of Class A Ground-Fault Circuit Interrupters (GFCIs) intended for personnel protection in the Entertainment Industry (EP/2001-7012r14), be offered for public review. The motion was seconded, and then approved with a roll call ballot, with 12 (all voters present) out of a voting body of 14 voting Yes.

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X			
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A				
Larry Schoeneman	Designlab Chicago, Inc.		P	X			
Steve Terry	Electronic Theatre Controls		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Ron Bonner	PLASA	PLASA	A				
Bill Groener	PRG Systems Integration Group		P	X			
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)		P	X			
Bill Sapsis	Sapsis Rigging, Inc.		P				
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)		P	X			
Jerry Gorrell	Theatre Safety Programs	USITT	P	X			
Louis Bradfield	Louis Bradfield	USITT	A				

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
				12	0	0	0

#### 8.2.1.2.4 BSR E1.34, floor slipperiness measurement, public review

See E1-34SlipR2-2Draft.pdf

Jerry Gorrell moved that we offer BSR E1.34-200x, Entertainment Technology — Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (Floors/2006-8013r2.2), for its first public review. The motion was seconded.

There was discussion. Karl Ruling said that the line diameter range in the requirements of the standard didn't match the diameter range in the informative annex; the diameter in the informative annex was better. Steve Terry asked, Why not fix it before the public review? Ruling said that he thought the draft standard will receive comments that will require substantive changes, and the line specification can be changed when those changes are made. This course would lead to faster progress than rejecting the motion, sending the draft standard back to the working group, having them modify it, and then starting the public review vote again.

The motion was accepted with a roll call ballot, with 12 out of a voting body of 14 voting Yes. There were no dissenting votes.

Name	Company	Representing	Voting status	Yes	Yes with comments	No with reasons	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	X			
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A				
Lary Schoeneman	Designlab Chicago, Inc.		P	X			
Steve Terry	Electronic Theatre Controls		P	X			
Edwin S. Kramer	I.A.T.S.E. Local 1		P	X			
Mike Garl	James Thomas Engineering, Inc.		P	X			
Ken Vannice	Colortran (Leviton Manufacturing Co., Inc.)		P	X			
Mike Wood	Mike Wood Consulting LLC		P	X			
Matthew Griffiths	PLASA	PLASA	P	X			
Ron Bonner	PLASA	PLASA	A				
Bill Groener	PRG Systems Integration Group		P	X			
Mitch Hefter	Entertainment Technology (Royal Philips Electronics)		P	X			
Bill Sapsis	Sapsis Rigging, Inc.		P				
Richard Cadena	Projection, Light & Staging News (Timeless Communications Corp.)		P	X			
Jerry Gorrell	Theatre Safety Programs	USITT	P	X			
Louis Bradfield	Louis Bradfield	USITT	A				
Florian von Hofen	VPLT	VPLT	P				
Eckart Steffens	SOUNDLIGHT	VPLT	A				
				12	0	0	0

## 8.2.2 Optional reports by working and task group leaders present on active projects

### 8.2.2.1 Camera Cranes

No additional report.

#### **8.2.2.2 Control Protocols**

There was a brief discussion of the working group's projects.

#### **8.2.2.3 Electrical Power**

Ken Vannice reported that the motion to accept the comment resolutions and to offer BSR E1.32, our draft standard for the inspection of luminaires for maintenance, did not pass because a supermajority was not present. Those voters not present will be polled by letter ballot.

#### **8.2.2.4 Flame Resistance Task Group**

No additional report.

#### **8.2.2.5 Floors**

No additional report.

#### **8.2.2.6 Fog and Smoke**

Larry Schoeneman reported that we had no public review responses on the reaffirmation of ANSI E1.5 and the proposed new standard, BSR E1.29.

#### **8.2.2.7 Followspot Position**

No additional report.

#### **8.2.2.8 Photometrics**

The working group has no active projects. Jerry Gorrell reported that he plans to have a working group meeting at LDI to fulfill the once-a-year requirement to keep the working group alive. The working group is needed to maintain the existing standards and to respond to the need for new photometric standards in our industry if they arise.

#### **8.2.2.9 Rigging**

Karl Ruling reported that few comments had been received on BSR E1.4 (manual counterweight rigging) and BSR E1.22 (fire safety curtain systems) during the public reviews that ended on March 17.

### **8.3 Reports of affiliated organizations**

#### **8.3.1 ASTC**

No news, said Bill Conner.

There was a short discussion of doing something to better explain the purpose of the TSP to ASTC members. Conner suggested that there might be a discussion at the North American Theatre Engineering Architecture Conference in July.

#### **8.3.2 PLASA**

Matthew Griffiths said that there were three things of note to report about PLASA's activities:

1) PLASA has become involved increasingly in sustainability and environmental issues, particularly with stage lighting. Ken Livingston, the Mayor of London, is quite keen on this. Every sector of London by 2025 would be required to reduce carbon emissions by 60% from today's emissions. The campaign involves thinking about the full life-cycle/production cycle of a product, including transportation and disposal.

2) PLASA has been involved in the wireless spectrum issue. The entertainment industry has been allotted a smaller bit of the spectrum to be used by wireless microphones et cetera. The solution needs a band manager, so PLASA is applying to be the band manager. Its competitors would be some of the TV companies, which also have a stake in the use of the spectrum.

There was extended discussion of the messy transition to digital television in the US.

3) Ron Bonner reported that CEN Workshop Agreement 25, Lifting and Load-bearing Equipment for Stages and other Production Areas within the Entertainment Industry. The document is finished. CEN will put some finishing touches on it, and it should be available soon. VPLT won't promote section seven, which allows hoists without double brakes. VPLT will continue to recommend double brakes.

It's a workshop agreement, which is a "gentleman's agreement," Bonner explained. However, it can become an EN standard via a fairly fast-track after being used for a while.

#### **8.3.3 USITT**

No report.

#### **8.3.4 VPLT**

Ruling reported that at Prolight + Sound in Frankfurt he'd reviewed the German translation of ANSI E1.11 and had flagged the errors we have found in our published standard.

### **8.4 Reports on liaisons and news from other industry groups**

#### **8.4.1 CANENA**

Eddie Kramer reported that CANENA will meet at Pace in the summer when we will meet.

#### **8.4.2 ETCP**

Lori Rubinstein reported that the focus recently has been on marketing the program. The greatest interest in the program has been shown in Canada. The exams there are been mostly paper and pencil exams rather than the computerized exams, because AMP has not been able to get a relationship with any company like H&R Block to get good venues for computer exams in Canada.

Mike Wood reported that the rigging exam rates are stable, but that he expects an increase in the electrical exam rate. With rigging, the rate increased in the second year. He expects that the electrical exam rate will increase in its second year, if this pattern holds.

There was a discussion of the persistent miss-information about the program. Terry has been working diligently on the various listserves to dispel the miss-information, point by point.

#### **8.4.3 ICC**

Jerry Gorrell said that the ICC has done a good job of marrying its three constituent organizations (its predecessors) into one, but that it has serious procedural problems with drafting standards. He's been appointed to a task group to try to address them.

#### **8.4.4 NFPA**

##### **8.4.4.1 NFPA 101 (Life Safety Code) and 5000 (building code)**

No report.

##### **8.4.4.2 NFPA 1126 (proximate pyro) and 160 (flame effects)**

Larry Schoeneman reported that the technical committee will meet in 2009 to discuss possible changes for the 2010 revision cycle. The chairman has suggested that the committee look at all special effects, including fire arms, and the use of special effects when there is not a proximate audience, such as in film and television work.

##### **8.4.4.3 NFPA 70 (NEC)**

Eddie Kramer report that the committee list has been published, and that there are no significant changes.



#### **8.4.4.4 NFPA 80 (fire doors and windows--and fire safety curtains, too)**

Bill Conner reported that proposals had been solicited and presented to the technical committee, which had had no negative comments on them. The proposals will be published in the Report On Proposals.

#### **8.4.5 SAE/FAA**

Jerry Gorrell said that the draft document *Safety Considerations for High-Intensity Lights (HIL) Directed into the Navigable Airspace* has been produced by the G10 high-intensity lights committee and is in the process of being formatted per the SAE format. He said our involvement in the project is over, and it can be removed as a standing agenda item, unless the project is revived.

#### **8.4.6 Others—Fire safety curtain task group**

It was announced that Jim Niesel had submitted a proposal to Arup, and the company has agreed to fund and to carry out a fire modeling project, which will help give us data for the BSR E1.22 fire safety curtain project. Mike Garl announced that Harvey Sweet, the BSR E1.22 task group leader, has been appointed to represent ESTA in working with Arup.

#### **8.5 Review of action items from last meeting not covered above**

None.

### **9 New Business**

#### **9.1 Lighting the stage with CFLs**

Steve Terry reported on the question raised by a consultant whether we should take a position on the talk of incandescent lamp bans. The consultant thought it would be of value to have a prepared statement about incandescent lamp bans. Ruling proposed putting it somewhere on the TSP news website so we have a published statement. He will circulate it to the TSC to make sure it is okay.

Ruling said that the legislation he'd looked at didn't seem to have any immediate effect on entertainment lighting. It is aimed at general service lamps, which our stage luminaires don't use. Some particularly inefficient reflector lamps are being phased out soon, but there are T-H lamps that can be used instead of them, and they are not being phased out at this time.

#### **9.2 Academic publishing permission**

ESTA had received a request from Eric Proce at the University of Wisconsin-Madison, for permission to reproduce the draft BSR E1.31, Entertainment Technology - DSP DMX512-A Streaming Protocol, as an appendix to his thesis, which is about implementing the draft standard.

Steve Terry moved that we allow Eric Proce to publish BSR E1.31 in up to six copies of his thesis. The motion was seconded. There was a discussion about the number of copies. The motion was approved with a unanimous show of hands.

Karl Ruling will inform Proce of the TSC's decision.

### **10 Other business**

None.

### **11 Schedule for future meetings**

It was announced that the next meeting is scheduled for Friday, 18 July 2008, from 13:00 to 17:00, at Pace University in New York, NY. The following meeting will be held in conjunction with LDI at in October Harrah's Las Vegas.

**12 Adjournment**

Larry Schoeneman moved that the meeting adjourn. The motion was seconded. Mike Garl asked if there were any objections. There were none. Hearing no objections, Mike Garl declared the meeting adjourned at 15:20.

**Technical Standards Committee Members and Contact Information as of 5 May 2008**

<b>Name</b>	<b>Company</b>	<b>Representing</b>	<b>Voting status</b>
Eugene Leitermann	Theatre Projects Consultants, Inc.	Amer. Society of Theatre Consultants	A
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P
Larry Schoeneman	Designlab Chicago, Inc.	Designlab Chicago, Inc.	P
Steve Terry	Electronic Theatre Controls	Electronic Theatre Controls, Inc.	P
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P
Ken Vannice	Colortran	Leviton Manufacturing Co., Inc.	P
Mike Wood	Mike Wood Consulting LLC	Mike Wood Consulting LLC	P
David Johnson	Live Design	Penton Media	O
Marian Sandberg	Live Design	Penton Media	O
Ron Bonner	PLASA	PLASA	A
Matthew Griffiths	PLASA	PLASA	P
Bill Groener	PRG Systems Integration Group	PRG	P
Mark Engel	Rosco Laboratories	Rosco Laboratories	O
Mitch Hefter	Entertainment Technology	Royal Philips Electronics	P
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P
Richard Cadena	Projection, Light & Staging News	Timeless Communications Corp.	P
Louis Bradfield	Louis Bradfield	USITT	A
Jerry Gorrell	Theatre Safety Programs	USITT	P
Florian von Hofen	VPLT	VPLT	P

**TSM's Report on TSP Projects  
28 February 2008  
For the 19 March 2008 TSC Meeting**

**PUBLISHED DOCUMENTS WITH NO WORK NEEDED AT THIS TIME**

Application Guide for ANSI E1.3 - 2001 Entertainment Technology Lighting Control Systems 0 to 10V Analog Control Specification (CPWG)

Camera crane operator's handbook (CCWG)

Introduction to Modern Atmospheric Effects, 4th edition (FSWG)

Nothing significant has happened in the field since this edition was published.

ANSI E1.1-2006, wire rope ladders revision (RWG)

ANSI E1.2-2006, aluminum towers and trusses revision (RWG)

ANSI E1.3 - 2001 (R2006), 0-10V analog control specification (CPWG)

ANSI E1.8-2005, speaker enclosures for rigging standard (RWG)

ANSI E1.9-2007, reporting photometric data revision (PHWG)

ANSI E1.11-2004, DMX512-A in German (CPWG)

ANSI E1.14-2001 (R2007), Recommendations for Inclusions in Fog Equipment Manuals (FSWG)

ANSI E1.15-2006, boom & base assemblies (RWG)

ANSI E1.16-2002 (R2006), Configuration Standard for Metal Halide Ballast Power Cables (EPWG)

ANSI E1.21-2006, portable roof systems (RWG)

There is some talk about the industry needing better guidance on seismic loads, particularly in those jurisdictions where the IBC is used (usually incorrectly referred to as the UBC, which is obsolete), but so far this talk hasn't coalesced into a proposal to change this standard, to publish an article in *Protocol* about dealing with the IBC, to develop a formal consensus document about seismic loads and temporary structures, or to do something else.

ANSI E1.23-2006, general fog effect planning standard (FSWG)

ANSI E1.24-2006, pin connector intermatability standard (EPWG)

ANSI E1.25-2006, flat-wall photometry basic conditions (PHWG)

ANSI E1.26-2006, floor energy absorption (FLWG)

Actors' Equity wants us to do some sort of demo on how this standard works. Members of the Floors Working Group and I are trying to see how difficult or expensive it might be to accommodate Equity.

ANSI E1.27-1-2006 (portable DMX512 cabling) (CPWG)

ANSI E1.35 - 2007, Lens Quality Measurements for Pattern Projecting Luminaires Intended for Entertainment Use (PHWG)

ANSI E1.36 - 2007, Model Procedure for Permitting the Use of Tungsten-Halogen Incandescent Lamps and Stage and Studio Luminaires in Vendor Exhibit Booths in Convention and Trade Show Exhibition Halls (PHWG)

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#### **PUBLISHED DOCUMENTS WITH WORK NEEDED**

##### **Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications and The Supplement to the Recommended Practice for Ethernet Cabling Systems in Entertainment Lighting Applications (CPWG)**

These two documents are listed together because we now sell them bundled. The first is old and covers obsolete systems. The supplement builds on the first, so we haven't gotten rid of the first. The supplement also is old, and the working group has discussed revising it, but it's not obsolete yet for what it covers, which is 100 megabit/second systems. There are faster versions of Ethernet and wireless available now, and there are technical problems arising with the use of switches and broadcast messages, so there are issues that these documents do not address. We will need to do something to update these documents, but the CPWG is very busy with other projects, and I doubt that revising these documents should take precedence over those other projects.

##### **ANSI E1.17-2006, ACN (CPWG)**

The portions of the document created by Philip Nye are not searchable on most computers. The fonts he used are two-byte Unicode fonts, and most people's Acrobat applications use one-byte ASCII in the search field. He says he's found a solution, but I haven't seen the fruits of it yet.

Dan Antonuk says he has found some errors and is creating a list of errata. The working group wants to publish the list of errata as a prelude to revising the standard and perhaps as the sum of the public review materials for the revision project, but the list hasn't been presented to the working group yet.

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#### **ACTIVE PROJECTS**

Things needing action by the TSC at this meeting are highlighted in green.

##### **Fire Resistance Task Group**

The three principal task group members are all in the New York area and have been meeting regularly to refine the problem and to break it down into specific issues. They have proposed some changes to the proposed NYC fire code. The new code is based on the ICC's International Fire Code.

##### **BSR E1.4, manual rigging systems (RWG)**

The Rigging Working Group's response to Jim Read Jr.'s letter has been sent to Jim Read via mail and email. The revised draft standard is in public review through March 17. The commenters from the last review have been informed that the document is back in public review.

By the way, R. Duane Wilson, Jim Read's business associate, has joined the Rigging Working Group and the Followspot Position Working Group.

##### **ANSI E1.5-2003, glycol and glycerin fog exposure standard (FSWG)**

The working group voted to reaffirm it, and, as a first step, to offer it for public review. It is in public review through March 17. No comments so far.

Children, the aged, and the infirm are outside the scope of the standard because there's very little data on theatrical fog and children, people past retirement age, or people with lung disease. There

is no data to indicate that fog exposure limits for these populations should be any different than for the general population, but there is no data to indicate that the limits should be the same.

**BSR E1.6-1, powered winch hoist systems (RWG)**

The last public review ran from 10 November 2006 through the end of the day 25 December 2006. The task group is working on draft resolutions, and is very late getting them done. The task group recently reviewed the CWA 25 draft. They believe that some of the document is superior to our document, and are now using the CWA document as a model.

**BSR E1.6-2, powered serially produced chain hoist systems (RWG)**

The RWG accepted a set of comment resolutions and voted to offer a revised standard for public review. **The TSC needs to vote on a motion to offer the revised version for public review.** See E1-6-2ChainHoistsR3.pdf and E1-6-2ThrdRevwResols.pdf.

**BSR E1.6-3, safe use of serial manufactured electric chain hoists in the entertainment industry (RWG)**

The task group is making progress. They too looked at the CWA 25 document, and found some of it helpful, but seemed to be much less favorably impressed by the CWA 25 draft than was the E1.6-1 task group. At the last working group meeting, the task group leader, Charlie Weiner, predicted that the task group would have a document ready to consider for public review in "another couple of meetings," which would be July.

**BSR E1.6-4, Control of Serially Manufactured Electric Chain Hoists in the Entertainment Industry (RWG)**

This project was created at the Summer 2007 RWG meeting. Peter Herrmann of Motion Labs is the task group leader. At the last working group meeting, Herrmann reported that they are making progress. This project has brought in a lot of hoist controls manufacturers, who were not active in the TSP before.

**ANSI E1.11-2004, DMX512-A recommended practice (CPWG)**

Adam Bennette is working, with ETC's support, on a revised version of his recommended practice. Members of the CPWG will review its technical content.

**BSR E1.11-20xx, DMX512-A revision (CPWG)**

The working group is voting by letter ballot on a first review of a revised version. The ballot closes March 20. The revisions include fixing the stupid mistakes and removing the section dealing with the Protocol Implementation Conformance Statement (PICS), which was confusing and not used by anyone as far as we know. The new version also has a section allowing the transmission of text messages for diagnostic purposes in UTF-8 when the messages cannot be sent in ASCII, for example, if they are messages in Chinese or German.

**Chinese standard based on ANSI E1.11-2004, a project of CETA**

We have an agreement on the royalty payment—250 Yuan payable within 60 days of publication. We also worked out the ASC and manufacturer ID registration problem. I'm waiting for news that the Ministry of Culture has approved it, and it's been published. The good news with this waiting is that longer we wait, the more 250 Yuan will be worth in dollars.

**BSR E1.12 camera crane standard (CCWG)**

Work continues on this slowly, with infrequent meetings. The working group recently met in January in Burbank, but I have not seen the draft minutes yet. The working group may split the document into parts, and develop the user's part from the Camera Crane Operators Handbook.

**BSR E1.18, Recommended practice for selection, installation, and use of portable feeder cable (EPWG)**

The working group accepted a radically trimmed version, which will be designated E1.18-1. Other documents, with designations in the form of E1.18-x, will offer much of the excised material. The working group has voted to offer E1.18-1 for public review. We have no comment resolution document, because the working group essentially rewrote the standard, so we'll send the commenters a summary of all the comments and the revised document, and we'll ask them to review it again to see if it addresses their concerns. We will offer to provide a response to any specific comment if asked to do so. **The TSC needs to vote on a motion to offer the revised version for public review.** See BSRE1-18r11.pdf.

**BSR E1.19, Recommended practice for use of Class A GFCIs (EPWG)**

The working group approved a set of comment resolutions and voted to offer a revised version of the standard for public review. I think the working group has refined this document to the point where everyone is reasonably satisfied with it. It doesn't offer advice on every possible situation, because we don't have good advice for all the messy places where GFCIs should be used but where they don't work well, but it gives a lot of useful advice. The manufacturers of GFCI products have also reached a truce over some requirements that would have put some products at a disadvantage in the market. **The TSC needs to vote on a motion to offer the revised version for public review.** See E1-19\_r14.pdf and E1-19ThrdResolsR1.pdf.

**BSR E1.20 - 200x, a revision of ANSI E1.20-2006, Remote Device Management (CPWG)**

We've formally started the revision process to correct errors. Scott Blair has developed an errata, and I have put it in *Standards Watch* as part of the notice of the revision project and as a warning that some clauses have problems. Scott is working on what the exact changes to the text would be to correct the errors. Our intention is to public review just the list of those changes to correct the errors.

**BSR E1.22, fire safety curtain systems (RWG)**

The draft standard is in public review through March 17. One response so far, with three comments.

We'll need to resolve the comments, but what we do next may be affected by the progress of a fire modeling project being funded and carried out by Arup. This project may yield data that would suggest specific forces on a fire safety curtain, and that information about forces might change specifications in the standard. However, we can't hold the project and wait for test results. Per ANSI's procedures, we're not to let more than a year go after a public review before we either do another public review or publish the standard. So, if we keep changing the document and offering it for public review while we're waiting for the results of the study, fine, but if we get to a point where the document is okay and fits with what we know at this time, we should publish it. We can then do a revision, if necessary, when the fire modeling results become available.

**BSR E1.27-2, permanent DMX512 cabling (CPWG)**

The last public review ended November 19 with 56 comments. Some influential members of the CPWG have argued for abandoning the project because the last draft said that both data pairs have to be wired, when in fact there is no consensus in the industry (although there is strong feeling both for and against) that this is so. Since we have good systems wired both ways, and the standard would seem to be able to sanction only one way, they wanted to abandon the project. At the last meeting, the CPWG did not agree that abandoning the project was the solution. The consensus was that some accommodation needs to be made in the standard for both one-pair and two-pair wiring. The principal author, Javid Butler, did not seem very happy about this, but he did not quit. He asked for more time to think about the comments and how to resolve them, and whether this document should continue as a standard or as some kind of recommended practice. We have motion that was deferred to the 20 March CPWG meeting to change the document to a recommended practice.

**BSR E1.28, followspot position planning guidance document (FPWG)**

The document was in public review through January 14. It received a lot of comments from members of the theatre consultant community, and few from anyone outside it.

The working group has started drafting resolutions to the comments. See E1-28FrstResls2008-2-13.pdf. This document is a working draft that shows all the comments, possible resolutions for some, and no resolutions for others, because possible resolutions for them haven't been drafted yet. The working group worked as a task group at the last meeting, and the resolutions without highlighting are those that came out of the meeting. I volunteered to write the resolutions to the general comments that said we had no business writing such a standard. I did so after the meeting, and those resolutions are in yellow to show that they have not been discussed by the working group at a meeting yet. There are a few other sentences here and there that also are in yellow, and these too have not yet been discussed at a meeting. This working draft document has been circulated to the working group, and members are supposed to be writing responses to those comments that don't have responses.

This resolution document is a working draft and is simply for your information at this time; no TSC action is needed yet. The working group will continue to work on resolutions at its next meeting.

**BSR E1.29, fog equipment product safety standard (FSWG)**

The document is in public review through March 17. No comments so far.

**BSR E1.30, Application level equipment interoperability for control of commonly encountered entertainment technology devices using E1.17 (CPWG)**

At the November Control Protocols Working Group meeting, Dan Antonuk said that the task group has several EPIs (the modules that make up this standard) that it would like to offer for public review. Javid Butler moved that these EPIs be offered for public review, and Philip Nye seconded the motion. Since this is a motion for first public review, the motion needs to be decided by letter ballot, but nothing has been done, no ballot has been issued, because I have not received any of the EPIs that are the subject of the motion. Dan Antonuk, the leader of this project, has been seriously ill, which I am sure is having an impact on this project.

**BSR E1.31, Lightweight streaming protocol for transport of DMX512 using ACN (CPWG)**

The most recent public review ended EOD, 19 March 2007. Eight people commented, and offered 115 comments. The working group needs to resolve those comments, but I do not have a draft comment resolution document yet to send to the working group.

**BSR E1.32, luminaire maintenance guidance (EPWG)**

It was in public review through July 30. It received a total of 51 comments from three people. Work is being done to resolve the comments and revise the draft standard. We're supposed to have a set of possible comment resolutions for the March 2008 EPWG meeting, but I do not have that document yet.

**BSR E1.33, RDM over ACN (CPWG)**

This project has been rolled into E1.31, but we're not formally abandoning this project yet in case describing in one document how RDM and DMX512 data are to be transported via ACN turns out to be too difficult.

**BSR E1.34-200x, Entertainment Technology-Measuring and Specifying the Slipperiness of Floors Used in Live Performance Venues (FLWG)**

The Floors Working Group voted unanimously by letter ballot to offer the standard for public review. **The TSC needs to vote on a motion to offer the revised version for public review.** See E1-34SlipR2-2Draft.pdf



**BSR E1.37, Additional Message Sets for ANSI E1.20, Remote Device Management (CPWG)**

Work continues, but the same group that is working on this is working on BSR E1.31, so there is competition for resources.

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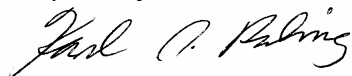
**OTHER THINGS OF NOTE**

Eddie Kramer telephoned me recently to say that he has had discussions with William Walters, vice president of Local One, about developing some sort of guidance document that explains in easily understood language how the OSHA and ASSE standards for fall protection should be applied to our industry and that highlights common mistakes. It would be in the interests of Local One, when dealing with employers, to have this be an American National Standard.

I think this could be done, and would be an interesting project: writing an American National Standard that is easy to read, that references and does not contradict the established standards, and that is not a nightmare to keep up to date. It would be quite a wordsmithing job, but I think it could be done.

I suggested that they look at *Fall Protection for Arena Shows* by Rocky Paulson and Steve Nelson as a start. An updated version of this might be all they need, if an American National Standard is not absolutely necessary. This document is available for free at <http://www.usitt.org/bookstore/downloads/F27%20FallProtect20050610.pdf>. Eddie and I will meet with Willie Walters to discuss this further, some time after the USITT meetings.

Respectfully submitted,



Karl G. Ruling  
Technical Standards Manager