

MINUTES
RIGGING WORKING GROUP

Friday, 29 July 2005
Dallas/Ft. Worth Airport Marriott South
Ft. Worth, Texas

Presiding chairman: Bill Sapsis; Sapsis Rigging, Inc.; P; U

Recording secretary: Karl G. Ruling; ESTA

Members attending: Wally Blount; Columbus McKinnon Corp.; A; MP
M. Brad Dittmer; Downhome Productions; P; U
Joseph Champelli; Fisher Technical Services, Inc. (FTSI); P; CP (joined at this meeting)
Reid Neslage; H & H Specialties Inc.; H & H Specialties Inc.; P; MP
Edwin S. Kramer; IATSE Local 1; P; U
Kent H. Jorgensen; IATSE Local 80; P; G
Rodney F. Kaiser; J.R. Clancy Inc.; P; CP
Mike Garl; James Thomas Engineering, Inc.; P; MP
Tray Allen; James Thomas Engineering, Inc.; A; MP
Harvey Sweet; LVH Entertainment Systems (LVH Electric, Inc.); P; DR
Michael J. Carnaby; Mikan Theatricals; P; DR
Tim Hansen; Oasis Stage Werks; P; DR
Richard J. Nix; Performance Systems Integration; P; G
Ron Bonner; PLASA; P; G
Peter A. Scheu; Scheu Consulting Services; P; G
Dan Culhane; SECOA; P; CP
Olan Cottrill; Staging Productions, Inc. ; P; DR (joined at this meeting)
Shawn Nolan; Entertainment Structures Group (Steven Schafer Assoc.); P; G
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR
Mark Newlin; Texas Scenic Company; P; CP
James Niesel; Theatre Projects Consultants, Inc.; P; G (joined at this meeting)
Jerry Gorrell; Theatre Safety Programs; P; G
Jeff Wilkowski; Thern, Inc.; P; MP
Tim Franklin; Theta-Consulting; O; G
Keith Bohn; Tomcat USA, Inc.; P; MP
Pete Happe; Walt Disney Imagineering (Walt Disney Company); O; U
Robin Crews; Wrightson, Johnson, Haddon & Williams, Inc.; O; G

Visitors: Roger L. Lattin; IATSE Local 728
Steve Vanciel; Walt Disney Company
Ian Foulds; IATSE Local 873
Tim Wade; IATSE Local 600
Charlie Weiner; Walt Disney Company

1 Opening remarks

Bill Sapsis called the meeting to order at 19:02.

2 Attendance and membership

2.1 Introduction of those present

Those present introduced themselves, proceeding in a counter-clockwise direction around the big, hollow-square table.

2.2 Circulation of attendance sign-in sheet

An attendance sign-in sheet, printed on blue and green paper.

2.3 Call for quorum (33 voting members: 11 needed for quorum, 17 to pass supermajority votes)

Bill Sapsis counted 21 voters present, and so did Kent Jorgensen, the working group's co-chairman. Sapsis announced that a quorum was present, even enough to pass a supermajority vote.

2.4 Requirements for membership

The following was read aloud to the assembly by Bill Sapsis:

"Membership is open to all who are affected by the work of the group. However, voting members are required to attend meetings. Any principal member and voting alternate who both miss three consecutive meetings will have their membership status changed to observer. This action will be taken as the last item of business at each meeting and recorded in the minutes of that meeting."

3 Processing of new membership requests

The following applications had been received and were read aloud to the assembly:

Joseph Champelli, Fisher Technical Services, Principal, Custom-market producer
Olan Cottrill, Staging Productions , Inc.; Principal, Dealer/Rental
Kevin Denis, Gravitech Systems, Observer, Custom-market producer
James Niesel, Theatre Projects Consultants, Principal, general interest

Harvey Sweet moved that the applications be accepted. The motion was seconded. The motion was accepted by a unanimous show of hands.

The full consensus body during this meeting was thus:

Name	Company	Representing	Voting status	Interest cat.
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G
Michael Keppler	Bogen	IFF	P	MP
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP

Name	Company	Representing	Voting status	Interest cat.
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G
Ron Bonner	PLASA	PLASA	P	G
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G
Dan Culhane	SECOA	SECOA	P	CP
Jerald Kraft	SECOA	SECOA	A	CP
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP
James Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP
		Total votes	36	
		Votes by interest category	9	MP
			6	CP
			6	DR
			5	U
			10	G

4 Approval of minutes from the previous meeting

Dan Culhane moved that the minutes of the 16 March 2005 meeting [Rig/2005-2012] be approved as written. The motion was seconded. The motion was accepted with a unanimous show of hands.

5 ESTA declarations

5.1 Anti-trust statement

Bill Sapsis read the anti-trust 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 held up some of the easy-to-read pamphlets. No restraint of trade issues were brought to the attention of the assembly.

5.2 Call for patents

Bill Sapsis read the call for patents aloud to the assembly:

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

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

No patent issues were brought to the attention of the assembly.

6 Approval of agenda

Tim Hansen moved that the agenda as written be adopted. The motion was seconded. The motion was approved with a unanimous show of hands.

7 Old business

- 7.1 E1.1 — Wire rope ladders** — Public review report, resolution of comments, next steps
Comments from only one person had been received. The comments requested a change of numerical style and pointed out some errors in US customary to SI conversion. The proposed comment resolution document [Rig/2005-2017] addressing these comments drafted by Karl Ruling and the revised draft standard [Rig/2004-2029r1] were discussed.

Eddie Kramer moved that the resolutions document Rig/2005-2017 be accepted with the discussion of the US trade imbalance cut from resolution 1. The motion was seconded. The motion was approved by a unanimous show of hands, which was a supermajority of the voting body. Karl Ruling deleted the unwanted text and made a new version, Rig/2005-2017r1.

Brad Dittmer moved that the revised draft standard [Rig/2004-2029r1] be offered for another public review. The motion was seconded. The motion was approved by a supermajority on a roll call ballot with all present voting in favor:

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U			
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP			
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U			
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP			
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP	1		
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G			
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	1		
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP	1		
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G			
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G			

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	1		
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP			
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP			
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP			
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	1		
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G	1		
Michael Keppler	Bogen	IFF	P	MP			
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP	1		
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP			
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP			
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP	1		
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP			
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR			
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR	1		
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR	1		
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR	1		
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G	1		
Ron Bonner	PLASA	PLASA	P	G	1		
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	1		
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G	1		
Dan Culhane	SECOA	SECOA	P	CP	1		
Jerald Kraft	SECOA	SECOA	A	CP			
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR	1		
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G	1		
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR	1		
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP	1		
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP			
James Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G	1		
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G	1		
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP	1		
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G			
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP	1		
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP			
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP			
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP			
		Total votes	36		24	0	0
		Votes by interest category	9	MP	5	0	0
			6	CP	4	0	0
			6	DR	5	0	0
			5	U	3	0	0
			10	G	7	0	0

7.2 E1.2 — Aluminum trusses and towers revised

7.2.1 Report on ESTA Board acceptance vote

Ruling reported that the ESTA Board had approved the acceptance of the revised E1.2 [Rig/2002-2019r4] but that Keith Bohn had spotted a technical problem with it. The document says to use the current edition of the ADM, which is now the 2005 edition, but it cites clauses that only say what the E1.2 document says they say in the 2000 edition. Furthermore, the advice on abrasion blasting in

the 2005 edition of the ADM is different from what it said in the 2000 edition, and is not what our E1.2 document says the "current edition" of the ADM says. Therefore, Ruling alerted the TSC to the problem and has not submitted the document to ANSI for approval.

7.2.2 Problem with E1.2's ADM reference

Jerry Gorrell moved that we delete the language referring to the ADM in reference to the minimum thickness of the material for abrasion blasting. The motion was seconded and approved with a unanimous show of hands.

Keith Bohn moved that we add the date 2005 to identify the edition of the ADM in clauses 4.5.2 and 5.3.2, and that clause 5.3.5 be struck in its entirety. The motion was seconded and approved by a unanimous show of hands.

The sentiment of the group was that all of the standards referenced in the E1.2 document should be cited by the specific edition.

Harvey Sweet moved that the revised draft E1.2 document be offered for another public review after Mike Garl and Keith Bohn insert the appropriate dates for all the referenced standards that do not now have dates. The motion was seconded. The motion was approved by a supermajority on a roll call ballot, with all present voting in favor:

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U			
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP			
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U			
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP			
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP	1		
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G			
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	1		
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP	1		
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G			
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G			
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	1		
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP			
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP			
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP			
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	1		
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G	1		
Michael Keppler	Bogen	IFF	P	MP			
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP	1		
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP			
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP			
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP	1		
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP			
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR			
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR	1		
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR	1		
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR	1		
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G	1		
Ron Bonner	PLASA	PLASA	P	G	1		
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	1		
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G	1		
Dan Culhane	SECOA	SECOA	P	CP	1		
Jerald Kraft	SECOA	SECOA	A	CP			
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR	1		
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G	1		

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR	1		
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP	1		
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP			
James Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G	1		
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G	1		
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP	1		
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G			
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP	1		
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP			
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP			
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP			
		Total votes	36		24	0	0
		Votes by interest category	9	MP	5	0	0
			6	CP	4	0	0
			6	DR	5	0	0
			5	U	3	0	0
			10	G	7	0	0

7.3 E1.4 — Manual rigging systems

Richard Nix reported that the task group had resolved all the public review comments. However, the resolution document and the revised draft standard had not been distributed to the working group in time for people to review them for a vote at this meeting. He moved that the resolutions be accepted and that the revised document sent to public review, and that this be decided by letter ballot. The motion was seconded. There was a unanimous show of hands in support of the motion.

[Note, the "Summary of Seventh Public Review Comments on BSR E1.4 and Resolutions" (Rig/2005-2023) and "BSR E1.4, Entertainment Technology — Manual Counterweight Rigging Systems" (Rig/1997-2002r11) were distributed to working group voters with a letter ballot (Rig/2005-2024) on 11 Aug 2005.]

7.4 E1.6 — Powered rigging systems

There was a discussion of the progress being made to revise BSR E1.6 and to draft comment resolutions. Karl Ruling expressed concern that it had now been two years since the last public review, and he had no comment resolutions to send the commenters. Wally explained that the comments had been considered and resolutions drafted, but the resolutions now made no sense because the draft standard was completely rewritten and was now two documents. So, the comments are on something that doesn't exist anymore.

Kent Jorgensen moved that Karl Ruling be directed to contact the commenters to tell them that the document they commented on has been abandoned and that two new versions are being drafted. The motion was seconded. The motion was approved with a unanimous show of hands. Ruling was directed to be candid and to describe the problem. The comments showed us that the document as envisioned could not work.

7.4.1 E1.6-1, powered winch hoist systems

Harvey Sweet reported that the document should be ready to be considered for public review at the March meeting. It is completely restructured.

7.4.2 E1.6-2, electric chain hoist systems

Wally Blount reported that the document is now a hook to hook standard for serially manufactured chain hoists. It has little in common with the previous BSR E1.6 document. A complete document should be ready for the working group to review by November.

7.5 E1.8 — Speaker enclosures

Karl Ruling reported that the ESTA Board had approved it. He now needs to submit it to ANSI. He's started on the BSR-9 form, which usually takes a couple of days to complete with a document, such as this one, that has had numerous public reviews.

7.6 E1.15 – Boom & base standard

7.6.1 Public review comment resolutions

Richard Nix said that the comment resolution document sent to the working group had been modified slightly by adding the language from the previous public reviews that had simply been referenced before. Nix moved that "BSR E1.15 Boom & Base Assemblies 3rd Public Review Comment Summary With Resolutions" (Rig/2005-2016) be accepted. The motion was seconded and approved by a supermajority of the working group with a unanimous show of hands.

7.6.2 Vote to accept BSR E1.15, Entertainment Technology – Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (Rig/1998-2032r12) as an American National Standard

Richard Nix moved that the BSR E1.15 document (Rig/1998-2032r12) be accepted as an American National Standard. The motion was seconded. The motion was approved by a supermajority of the working group on a roll call ballot, which also included absentee ballots from people not attending the meeting but who offered their vote on the motion. The motion had been anticipated before the meeting (it was on the draft agenda), and Karl Ruling had solicited absentee ballots on the motion in his email of Thursday, 07 July 2005, which distributed the draft agenda.

The vote on accepting BSR E1.15 (Rig/1998-2032r12) was as follows:

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U			
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP	1		
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U	1		
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP			
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP	1		
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G			
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U	1		
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP	1		
David M. Campbell	Geiger Engineers	Geiger Engineers	P	G			
Timothy Mills	Geiger Engineers	Geiger Engineers	A	G			
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP	1		
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP			
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP			
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP			
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U	1		
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G	1		
Michael Keppler	Bogen	IFF	P	MP			
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP	1		
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP			
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP			
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP	1		
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP			
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR			
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR	1		

Name	Company	Representing	Voting status	Interest cat.	Yes	No	Abstain
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR	1		
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR	1		
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G	1		
Ron Bonner	PLASA	PLASA	P	G	1		
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U	1		
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G	1		
Dan Culhane	SECOA	SECOA	P	CP	1		
Jerald Kraft	SECOA	SECOA	A	CP			
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR	1		
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G	1		
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR	1		
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP	1		
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP			
James Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G	1		
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G	1		
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP			
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP	1		
Richard D. Thompson	Thompson Associates	Thompson Associates	P	G	1		
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP	1		
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP			
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	P	MP			
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP			
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP			
		Total votes	36		27	0	0
		Votes by interest category	9	MP	6	0	0
			6	CP	4	0	0
			6	DR	5	0	0
			5	U	4	0	0
			10	G	8	0	0

7.7 E1.21 – Stage roofs

Keith Bohn reported that a draft set of comment resolutions and a revised document have been written but that the task group needs to review the revised document.

7.8 E1.22 – Fire safety curtain systems comment

Harvey Sweet reported that the task group has had 20+ hours of meetings on the public review comments and on drafting comments to NFPA 80. The task group has reviewed the 60 comments and responded to them. The resolutions need to be collated into a concise document.

Sweet moved that when the resolutions document is ready that it be approved by letter ballot. The motion was seconded. There was unanimous support shown by a show of hands.

8 New business

None.

9 Other business

Mike Garl reminded people that the deadline for registering for the first round of rigging certification tests is Monday.

10 Schedule for future meetings

It was announced that the next working group meeting is scheduled to be held at the Rosen Plaza Hotel in Orlando, Florida on Wednesday, 9 November 2005 from 19:00 to 23:00. The following meeting will be on 20 January 2006, at this hotel, the Dallas/Ft. Worth Airport Marriott South.

11 Changes of membership status resulting from lack of attendance.

Principals (and alternates) who have missed the previous two meetings:

Timothy Mills and David M. Campbell; Geiger Engineers

Richard D. Thompson; Thompson Associates

Peter Hind; Anthony Ward Partnership Ltd. for Total Structures

Bill Sapsis announced that the above people had failed to meet the minimum attendance requirement for voters and are now observers.

12 Adjournment

Peter Scheu moved that the meeting adjourn. The motion was seconded. The motion was approved with an unanimous show of hands. Sapsis declared the meeting adjourned at 20:42.

Rigging Working Group Members and Contact Info as of Thursday, 25 August 2005

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Baer Long	Ninja Rigging	Act 1 Rigging Inc.	O	G
Andre Broucke	ADB - TTV Technologies	ADB-TTV Group	O	MP
Michael G. Wiener	Aerial Rigging & Leasing, Inc.	Aerial Rigging & Leasing, Inc.	O	U
Andy Sutton	AFX UK Ltd.	AFX UK Ltd.	O	U
William Conner	Bill Conner Associates LLC	Amer. Society of Theatre Consultants	P	U
Jim Fletcher	American Sling Company, Inc.	American Sling Company, Inc.	O	MP
Andrew T. Martin	ATM Group, Inc.	ATM Group, Inc.	P	MP
Dennis J. Lopez	Automatic Devices Co.	Automatic Devices Co.	O	MP
Jiantong Wu	Beijing Special Engineering Design & Research Institute	Beijing Special Engineering Design & Research Institute	O	G
Buddy Braile	Bestek Lighting & Staging	Bestek Lighting & Staging	O	U
Lee J. Bloch	Blue Sky Design, Ltd.	Blue Sky Design, Ltd.	O	G
Eric Todd	BML Inc.	BML Inc.	O	MP
Paul Tardue	BML Inc.	BML Inc.	O	MP
Joachim Stoecker	CAMCO GmbH	CAMCO GmbH	O	MP
Charles E. Gorgen	Charles E. Gorgen	Charles E. Gorgen	O	G
Mark M. Witteveen	Chicago Flyhouse Inc.	Chicago Flyhouse Inc.	O	U
Ted Jones	Chicago Spotlight, Inc.	Chicago Spotlight, Inc.	P	U
Don Dimitroff	Columbus McKinnon Corp.	Columbus McKinnon Corp.	P	MP
Wally Blount	Columbus McKinnon Corp.	Columbus McKinnon Corp.	A	MP
Mylan Lester	Creation Logics Ltd.	Creation Logics Ltd.	O	U
Howard R. Ott	D.E.O. Associates, Inc.	D.E.O. Associates, Inc.	P	G
Harry Donovan	Donovan Rigging, Inc.	Donovan Rigging, Inc.	O	G
Wes Jenkins	Down Stage Right Industries	Down Stage Right Industries	O	CP
M. Brad Dittmer	Downhome Productions	Downhome Productions	P	U
F. Robert Bauer	F.R. Bauer & Associates, LLC	F.R. Bauer & Associates, LLC	O	G
Thomas Reaoch	RC Consultoria e Representação Ltda.	Feeling Structures	O	MP
Hamilton Nunes Callegari	Feeling Structures	Feeling Structures	O	MP
Ben Hayes	Freedom Flying	Freedom Flying	O	G
Dean Hart	Stage Rigging, Inc.	Freeman Companies	O	U
Rocky Paulson	Stage Rigging, Inc.	Freeman Companies	O	DR
Joseph Champelli	Fisher Technical Services, Inc.	FTSI	P	CP
David M. Campbell	Geiger Engineers	Geiger Engineers	O	G
Timothy Mills	Geiger Engineers	Geiger Engineers	O	G
Paul Brady	Grand Stage Company, Inc.	Grand Stage Company, Inc.	O	U
Kevin Denis	Gravitec Systems, Inc.	Gravitec Systems, Inc.	O	CP
Reid Neslage	H & H Specialties Inc.	H & H Specialties Inc.	P	MP
Delbert Hall	Hall Associates Inc.	Hall Associates Inc.	O	U
Jeffrey Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	P	CP
Peter Hoffend	Hoffend & Sons, Inc.	Hoffend & Sons, Inc.	A	CP
Damon Atwood	Hoffend & Sons	Hoffend & Sons, Inc.	A	CP
Edwin S. Kramer	I.A.T.S.E. Local 1	I.A.T.S.E. Local 1	P	U
G. Anthony Phillips	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	U
Gregory C. Collis	I.A.T.S.E. Local 16	I.A.T.S.E. Local 16	O	G
Michael Di Ieso	IATSE Local 481	IATSE Local 481	O	U
Kent H. Jorgensen	IATSE Local 80	IATSE Local 80	P	G
Gian Carlo C. Bartolotti	Ibeam SP / Banco de Eventos	Ibeam SP / Banco de Eventos	O	U

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Michael Keppler	Bogen	IFF	P	MP
Rodney F. Kaiser	J.R. Clancy Inc.	J.R. Clancy, Inc.	P	CP
Jack Suesse	J.R. Clancy, Inc. (NC)	J.R. Clancy, Inc.	A	CP
Thomas S. Young	J.R. Clancy Inc.	J.R. Clancy, Inc.	A	CP
Mike Garl	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	P	MP
Tray Allen	James Thomas Engineering, Inc.	James Thomas Engineering, Inc.	A	MP
Jay O. Glerum	Jay O. Glerum & Associates, Inc.	Jay O. Glerum & Associates, Inc.	O	U
Chuck McClelland	Jeamar Winches Inc.	Jeamar Winches Inc.	O	MP
John Kaes	John Kaes	John Kaes	O	U
John R. Burgess	John R. Burgess	John R. Burgess	O	U
Edward Paget	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Christopher Purpura	Jones & Phillips Associates, Inc.	Jones & Phillips Associates, Inc.	O	G
Nevin Kleege	Kleege Industries	Kleege Industries	O	U
William Beautyman	Limelight Productions, Inc.	Limelight Productions, Inc.	P	DR
Louis Bradfield	Louis Bradfield	Louis Bradfield	O	U
Harvey Sweet	LVH Entertainment Systems	LVH Electric, Inc.	P	DR
Michael L. Savage, Sr.	Middle Dept. Inspection Agency, Inc.	Middle Dept. Inspection Agency, Inc.	O	G
Michael J. Carnaby	Mikan Theatricals	Mikan Theatricals	P	DR
Todd Petersen	Mixed Productions	Mixed Productions	O	U
Bradford A. Kegel	National Production Services Inc.	National Production Services Inc.	O	U
David Gisbourne	Newtex Industries, Inc.	Newtex Industries, Inc.	O	CP
François Deffarges	Nexo	Nexo	O	MP
Tracy Nunnally	Northern Illinois University	Northern Illinois University	O	U
Ted Hickey	OAP Audio Products	OAP Audio Products	O	MP
Tim Hansen	Oasis Stage Werks	Oasis Stage Werks	P	DR
Gary Justesen	Oasis Stage Werks	Oasis Stage Werks	O	DR
Robert A. Grenier Jr.	Ocean State Rigging Systems Inc.	Ocean State Rigging Systems Inc.	O	DR
Olaf Soot	Olaf Soot Associates	Olaf Soot Associates	O	CP
Joseph Rapier	Parkhill, Smith & Cooper, Inc.	Parkhill, Smith & Cooper, Inc.	O	CP
Richard J. Nix	Performance Systems Integration	Performance Systems Integration	P	G
Ron Bonner	PLASA	PLASA	P	G
Michael Akrep	Polar Focus, Inc.	Polar Focus, Inc.	O	MP
Michael Patterson	Pook Diemont & Ohl, Inc.	Pook Diemont & Ohl, Inc.	O	CP
Marc Hendriks	Prolyte	Prolyte	O	MP
Douglas Franz	QVC Network	QVC Network	O	U
Scott Mohr	R&R Cases and Cabinets	R&R Cases and Cabinets	O	G
Michael Reed	Reed Rigging, Inc.	Reed Rigging, Inc.	O	U
Rinus Bakker	Rhino Rigs B.V.	Rhino Rigs B.V.	O	G
Rikki Newman	Rikki Newman	Rikki Newman	O	U
Randall W. A. Davidson	Risk International & Associates, Inc.	Risk International & Associates, Inc.	O	U
Heinz Siller	RST Präsentationssysteme	RST Präsentationssysteme	O	G
Thomas M. Granucci	Associated Students, Cox Arena	San Diego State University	O	U
Bill Sapsis	Sapsis Rigging, Inc.	Sapsis Rigging, Inc.	P	U
Peter A. Scheu	Scheu Consulting Services	Scheu Consulting Services	P	G
Dan Culhane	SECOA	SECOA	P	CP
Jerald Kraft	SECOA	SECOA	A	CP
Luigi Sbalzarini	Selvolina SNC	Selvolina SNC	O	MP
Robert Barbagallo	Solotech Inc.	Solotech Inc.	O	DR
Jon Lagerquist	South Coast Repertory	South Coast Repertory	O	U

Name	Company	Representing (This is the sort field.)	Voting status	Int. cat.
Jerrold S. Tiers	St. Louis Music Inc.	St. Louis Music Inc.	O	MP
Olan Cottrill	Staging Productions, Inc.	Staging Productions, Inc.	P	DR
Roger Barrett	Star Events Group Ltd.	Star Events Group Ltd.	O	DR
Shawn Nolan	Entertainment Structures Group	Steven Schafer Associates	P	G
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Reuben Goldberg	Technic Services	Technic Services	O	U
Mark Newlin	Texas Scenic Company	Texas Scenic Company	P	CP
Richard C. Mecke	Texas Scenic Company	Texas Scenic Company	O	CP
Larry Lutz	Texas Scenic Company	Texas Scenic Company	A	CP
Alan Broadhurst	The Broadhurst Partnership	The Broadhurst Partnership	O	P
James Niesel	Theatre Projects Consultants, Inc.	Theatre Projects Consultants, Inc.	P	G
Jerry Gorrell	Theatre Safety Programs	Theatre Safety Programs	P	G
Ed Nicholas	Theatrical Lighting Systems, Inc.	Theatrical Lighting Systems, Inc.	O	DR
John Van Lennep	Theatrix Inc.	Theatrix Inc.	O	DR
John C. Snook	Thermotex Industries Inc.	Thermotex Industries Inc.	P	CP
Jeff Wilkowski	Thern, Inc.	Thern, Inc.	P	MP
Tim Franklin	Theta-Consulting	Theta-Consulting	O	G
Thomas Paterson	Thomas Paterson	Thomas Paterson	O	G
Richard D. Thompson	Thompson Associates	Thompson Associates	O	G
Keith Bohn	Tomcat USA, Inc.	Tomcat USA, Inc.	P	MP
Mitch Clark	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
John James	Tomcat USA, Inc.	Tomcat USA, Inc.	A	MP
Ian Coles	Total Structures, Inc.	Total Structures, Inc.	O	MP
Peter Johns	Total Structures, Inc.	Total Structures, Inc.	O	MP
Doug Recher	Total Structures, Inc.	Total Structures, Inc.	O	MP
Peter Hind	Anthony Ward Partnership Ltd.	Total Structures, Inc.	O	MP
Hans van der Moolen	Stagemaker Division Europe	Verlinde Spa. France	P	MP
Carlos Garcia	R&M Materials Handling	Verlinde Spa. France	A	MP
JoAnna Kamorin-Lloyd	Vincent Lighting Systems	Vincent Lighting Systems	O	U
Eckart Steffens	SOUNDLIGHT	VPLT	O	G
Hank Miller	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
Rand Goddard	W.E. Palmer Co.	W.E. Palmer Co.	O	CP
Pete Happe	Walt Disney Imagineering	Walt Disney Company	O	U
Warren A. Bacon	Warren A. Bacon	Warren A. Bacon	O	U
Robin Crews	Wrightson, Johnson, Haddon & Williams, Inc.	Wrightson, Johnson, Haddon & Williams, Inc.	O	G
Ray Robins	XS Lighting, Inc.	XS Lighting, Inc.	O	CP
Robert Dean	ZFX Inc.	ZFX Inc.	O	CP

Key to codes:

P	principal voting member	MP	mass-market producer interest category	G	general-interest 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		