

Minutes
Rigging Working Group
Saturday, 27 January 2024
Wyndham Anaheim

Chairpersons:

Bill Sapsis; Sapsis Rigging, Inc.; P; U (presiding)
Christine L. Kaiser; Syracuse Scenery & Stage Lighting Co., Inc.; P; DR

Recording secretaries:

Karl Ruling and Richard Nix (ESTA)

Attendees:

Jesse Adams; Rose Brand Wipers, Inc; P; DR
Jane Harrington, ARM; The Hartford Group; O; G
Peter W. Batt; Mainstage Theatrical Supply, Inc; P; DR
David Boevers; Carnegie Mellon University; P; DE
John Caudill; Productions Unlimited; P; DE
Jay Cid; R&M Materials Handling / Stagemaker; P; MP
Dawn Copeland; Dawn Copeland; I; U
Wade Cordts; Wade Cordts; I; U
Thomas Cowdery; Thomas Cowdery; I; U
Dan Culhane; Wenger Corp.; A; CP
Bruce Darden; InterAmerica Stage, Inc.; P; CP
Robert Dean; ZFX, Inc.; P; CP
Tyler DeLong; DeLong Rigging Solutions; P; U
Jonathan Deull; JSD Projects LLC; P; U
Scott England; Cirque du Soliel Entertainment Group; P; U
Jennifer Ferguson; Kito Group; P; MP
Siobhan Gee; Siobhan Gee; I; G
Ethan W Gilson; Entertainment Rigging Services, LLC; P; U
Sanford P. Gilzow; Shur-Rig LLC; P; G
Joe Golden; Gallagher Staging & Productions; P; DR
William B. Gorlin; M.G. McLaren, P.C.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
Pat Grenfell; Hoist Sales & Service; P; DR
Benjamin Hague; Benjamin Hague; I; G
Rod Haney; I.A.T.S.E. Local 891; P; U
Tim Hansen; Oasis Stage Werks; P; DR
Robert Haycock; Robert Haycock; I; U
Jeremy Hodgson; Jeremy Hodgson; I; G
Quinten James; ZFX, Inc.; O; CP
Joseph Jeremy; Niscon (LFT); P; CP
Stanley Jordan; AVL Designs, Incorporated; P; DE
Paige Kassab; Liberty Mutual Insurance; O; DE
Christina Keryczynskyj; Charcoalblue LLC; P; DE
Jerald Kraft; Electronic Theatre Controls, Inc; O; MP
Kyle Kusmer; Steven Schaefer Associates, Inc; P; DE
Ed Leahy; Chicago Flyhouse, Inc; P; CP
Ross Long; I.A.T.S.E. Local 891; A; U
John Marczeski; Texas Scenic Company; A; MP
Orestes Mihaly; Production Resource Group; P; DR
Rick Montgomery; Motion Laboratories, Inc.; P; MP
John P. Moore; Vertigo; A; CP
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Reid Neslage; Reid Neslage; I; G
Ryan Niemi; Sunset Dynamics; P; CP
Jim Niesel; Theatre Projects Consultants, Inc.; P; DE
Shawn Nolan; Clark-Reder Engineering, Inc.; A; G
Shelby Obitts; Liberty Mutual Insurance; O; DE
Robert Peterson; Shur-Rig LLC; A; G
Camille Petrillo; Sapsis Rigging, Inc.; O; U

Stefan Pries; NEP Live Events; P; DR
Jeffrey M. Reder; Clark-Reder Engineering, Inc.; P; G
Luke Ricca; Luke Ricca; O; G
John Ringelman; Freeman Companies; P; DR
John Rourke; Stagecraft Industries, Inc.; P; DR
Eric Rouse; Entertainment Project Services, LLC; P; CP
Chris Schmidt; Freeman Companies; A; DR
Daniel Schmidt; Western Illinois University; O; U
Michael Shaw; Motion Laboratories, Inc.; A; MP
Jonathan Shimon; University at Buffalo - SUNY; P; U
Eric Silzer; Reed Rigging, Inc.; A; DR
Mike Skinner; Contract Services Administration Trust Fund; P; U
Stewart Stephens; S2 Technologies; P; G
Peter V. Svitavsky; Wenger Corp.; P; CP
Stephen Vanciel; Stephen Vanciel; O; U
Elmer Veith; Reliable Design Services; P; CP
Steve Walker; Steve A. Walker & Associates; P; G
Patrick Wallace; Encore Global; O; U
Drew Wending; Encore Global; A; U
Mike Weston; Encore Global; P; U
Jeff Wilkowski; Thern, Inc.; P; MP
Max A. Wilson; Applied Electronics; P; MP
Allen Winzler; Entertainment and Rigging Engineering; P; DE
Stephan Jon Wood; Tait Towers Manufacturing LLC; P; CP

Visitors:

Neil Huff; Taylor & Taylor
Scott Davis; Encore

1 Opening Remarks

2 Patent and anti-trust statements

2.1 Reading of the anti-trust statement

Bill Sapsis read the following statement aloud to the assembly:

ESTA and its members take seriously their obligation to comply with all applicable antitrust laws. Therefore, during this meeting and during all ESTA events, all discussions will be limited to those subjects that are permitted by the antitrust laws. All members should refrain from any discussion or mention of competitively sensitive subjects such as the current or future prices charged for any member product or services, current or future marketing plans or strategies, and current or future costs, including employee salaries. There also must be no agreement on the suppliers or customers that members will or will not do business with or the markets in which members will conduct business.

Violations of the antitrust laws can have serious consequences. If you have any questions or concerns about anything that is discussed at an ESTA meeting, please bring your concern to ESTA management. An easy to read pamphlet describing the antitrust laws is available from the ESTA staff.

Richard Nix held up the pamphlet.

2.2 Reading of the call for patents

Bill Sapsis read the following statement aloud to the assembly:

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

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

Nothing was revealed.

3 Attendance and Membership

3.1 Requirements for membership

Bill Sapsis read the following statement aloud to the assembly:

Membership is open to all parties who are affected by the work of the group; membership in ESTA is not a requirement, but there is a \$100/person/year participation fee to help fund the costs of running the Technical Standards Program. New applications shall not be processed until the participation fee has been paid. Voting members are required to attend meetings and vote on letter ballots. Any principal member and alternate that both miss three consecutive meetings or that miss three consecutive letter ballots will have their membership status changed to observer. This action will be taken at the beginning of the first meeting after such inaction and will be recorded in the minutes of that meeting.

Richard Nix said that all of the TSP participation fee renewals had been sent, and asked everyone to pay them quickly if they have not already done so. Anyone not finding the original emails, or needing additional time to pay should contact him immediately to avoid being removed from the TSP. The pay-by deadline is today.

3.2 Introduction of attendees

Everyone introduced themselves.

3.3 Determination of a quorum

There are 79 voting entities before application actions. A quorum is 27, a supermajority is 40.

3.4 Processing of new membership and status change requests

The following applications or status change requests have been received:

*John Marczeski; Texas Scenic Company; A; MP (new application)
Steve Vanciel; Steve Vanciel; O; U (change of representation back to self)
Quinten James; ZFX, Inc.; O; CP (change of representation)
Dawn Copeland; Dawn Copeland; I; U (new application)
Paul Brunner; WJHW Consultants; P; DE (change of representation) approved as Observer – not present
Joseph Jeremy; Niscon, a company held by LFT (LeFrancois Family Trust); P; CP (change of representation)
Wade Cordts; Wade Cordts; I; U (new application)
Stanley Jordan; AVL Designs, Incorporated; P; DE (new application)
Luke Brenon; Syracuse Scenery & Stage Lighting Co., Inc.; A; DR (new application)
Christina Keryczynskj; Charcoalblue LLC; P; DE (new application)
Patrick Wallace; Encore; O; U (new application)
Austin Utley; Thern, Inc.; P; MP; (new application, not present but Jeff Wilkowski was present, remains Alternate)*

Dan Culhane moved to approve the applications and status change requests, with all applying for voting status and present be approved as applied, all those voting but not present be approved as Observers. The motion was seconded and carried without objection or abstention.

3.5 Changes to observer status due to lack of attendance or missed letter ballots

3.5.1 Attendance notices

The following voters have missed two consecutive meetings, and their status will be changed to that of Observer if this meeting is missed:

*Brent Armstrong; Alpine Rigging & Structural Designer
Ted Jones; Grand Stagecraft
Zhou Jianzhao; Guangzhou Haoyang Electronic Co., Ltd.
Pat Bash; In-House Production
Sam Michael; Sam Michael
Dana Bartholomew; Silver State Wire Rope and Rigging
Siobhan Gee; Siobhan Gee
Kyle Kusmer; Steven Schaefer Associates, Inc.*

Siobhan Gee and Kyle Kusmer were present. The status for all others listed was changed as noted.

3.5.2 Letter ballot notices

The following voters have missed two consecutive letter ballots, and will be moved to Observer status if the next ballot is missed.

Siobhan Gee; G; Siobhan Gee
Brent Armstrong; CP; Alpine Rigging & Structural Design
John Caudill; DE; Productions Unlimited
Jennifer Ferguson; MP; Kito Group

3.5.3 Automatic status changes occurring before this meeting

The following automatic status changes have occurred since the last meeting.

Paul Brunner (no longer with Thern, Inc – see 3.4 above)
Jeff Wilkowski, Thern, Inc. (now Principal for Thern, Inc)
Joseph Jeremy (change of representation, see 3.4 above)

3.6 Consensus body

The consensus body, after today's working group meeting's actions, is as follows:

Name	Representing	Status	Int Cat
Stan Jordan	AVL Designs, Incorporated	P	DE
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Peter A. Scheu	Amer. Society of Theatre Consultants	A	DE
Max A. Wilson	Applied Electronics	P	MP
Jon Lenard	Applied Electronics	A	MP
Neil Montour	Atlanta Rigging Systems	P	DR
David Boevers	Carnegie Mellon University	P	DE
Ed Leahy	Chicago Flyhouse, Inc	P	CP
Scott England	Cirque du Soleil Entertainment Group	P	U
Jeffrey M. Reder	Clark-Reder Engineering, Inc.	P	G
Shawn Nolan	Clark-Reder Engineering, Inc.	A	G
Ken Tilson	Columbus McKinnon Corp.	P	MP
Nick Fleming	Columbus McKinnon Corp.	A	MP
Mike Skinner	Contract Services Administration Trust Fund	P	U
Chris Moulton	Contract Services Administration Trust Fund	A	U
Dave Carmack	Dave Carmack Consulting Inc	P	G
Christina Keryczynskj	Charcoalblue LLC	P	DE
Dawn Copeland	Dawn Copeland	I	U
Wade Cordts	Wade Cordts	I	U
Tyler DeLong	DeLong Rigging Solutions	P	U
Don Earl	Earl Girls, Inc.	P	DR
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Cole Muth	Electronic Theatre Controls, Inc.	A	MP
Mike Weston	Encore Global	P	U
Drew Wending	Encore Global	A	U
Demian Purdy	Encore Global	A	U
Tim Salamon	Encore Global	A	U
Greg Williams	Encore Global	A	U
Allen Winzler	Entertainment and Rigging Engineering	P	DE
Eric Rouse	Entertainment Project Services, LLC	P	CP

Name	Representing	Status	Int Cat
Joseph Champelli	Entertainment Project Services, LLC	A	CP
Ethan W Gilson	Entertainment Rigging Services, LLC	P	U
John Ringelman	Freeman Companies	P	DR
Chris Schmidt	Freeman Companies	A	DR
Gert Jan Brouwer	Frontline Rigging & Motion B.V.	P	CP
Joe Golden	Gallagher Staging & Productions	P	DR
Benjamin Hague	Benjamin Hague	I	G
Pat Grenfell	Hoist Sales & Service	P	DR
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Rod Haney	I.A.T.S.E. Local 891	P	U
Ross Long	I.A.T.S.E. Local 891	A	U
Bruce Darden	InterAmerica Stage, Inc.	P	CP
Drew Becker	InterAmerica Stage, Inc.	A	CP
Jeremy Hodgson	Jeremy Hodgson	I	G
Jonathan Deull	JSD Projects LLC	P	U
Jennifer Ferguson	Kito Group	P	MP
William B. Gorlin	M.G. McLaren, P.C.	P	G
Peter W. Batt	Mainstage Theatrical Supply, Inc	P	DR
Mike Garl	Mike Garl Consulting LLC	P	DE
Rick Montgomery	Motion Laboratories, Inc.	P	MP
Mike Webb	Motion Laboratories, Inc.	A	MP
Michael Shaw	Motion Laboratories, Inc.	A	MP
Stefan Pries	NEP Live Events	P	DR
Reid Neslage	Reid Neslage	I	G
Joseph Jeremy	Niscon (LFT)	P	CP
Tim Hansen	Oasis Stage Werks	P	DR
Orestes Mihaly	Production Resource Group	P	DR
Troy Atkinson	Production Resource Group	A	DR
Matt Jordan	Production Resource Group	A	DR
John Caudill	Productions Unlimited	P	DE
Jay Cid	R&M Materials Handling / Stagemaker	P	MP
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
Bennett Brian	Reed Rigging, Inc.	P	DR
Eric Silzer	Reed Rigging, Inc.	A	DR
Elmer Veith	Reliable Design Services	P	CP
Matt Panther	Reliable Design Services	A	CP
Richard J. Nix	Richard J. Nix	I	G
Ryan Riordan	Riordan Rigging LLC	P	U
Robert Haycock	Robert Haycock	I	U
Jesse Adams	Rosebrand Wipers, Inc.	P	DR
Chris Ruble	Chris Ruble	I	U
Stewart Stephens	S2 Technologies	P	G
Patricio (Pat) Perez	SAG-AFTRA	P	G
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Shane Kelly	Shane Kelly	I	U
Sanford P. Gilzow	Shur-Rig LLC	P	G
Robert Peterson	Shur-Rig LLC	A	G

Name	Representing	Status	Int Cat
Siobhan Gee	Siobhan Gee	I	G
John Rourke	Stagecraft Industries, Inc	P	DR
Steve Walker	Steve A. Walker & Associates	P	G
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE
Ryan Niemi	Sunset Dynamics	P	CP
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Luke Brenon	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
Ryan Kunkel	Tait Towers Manufacturing LLC	A	CP
Michael Freeman	Texas Scenic Company	P	MP
Russell Solomon	Texas Scenic Company	A	MP
John Marczeski	Texas Scenic Company	A	MP
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Jerry Gorrell	Theatre Safety Programs	P	G
Austin Utley	Thern, Inc.	P	MP
Jeff Wilkowski	Thern, Inc.	A	MP
Tim Franklin	Theta Consulting	P	G
Thomas Cowdery	Thomas Cowdery	I	U
Charlie Weiner	Total Structures, Inc.	P	MP
Nathan Villines	Tyler Truss Systems	P	MP
John Shimon	University at Buffalo - SUNY	P	U
Tracy Nunnally	Vertigo	P	CP
John P. Moore	Vertigo	A	CP
Ian Bevan	Walt Disney Company	P	DE
Lee Chuong	Walt Disney Company	A	DE
Shane Rogers	Warner Bros. Discovery	P	U
Bryan Schafer;	Warner Bros. Discovery	A	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Dan Culhane	Wenger Corp.	A	CP
Paul Zagajeski	Wenger Corp.	A	CP
Robert Dean	ZFX, Inc.	P	CP
Total consensus votes:			77
Votes by interest category	Custom market producers (CP):		11
	Mass market producers (MP):		10
	Designers (DE):		11
	Dealer or rental company (DR):		13
	User (U):		18
General Interest (G):			14

4 Approval of the minutes from the last meeting

[See *RWGmin10-2023r1_Draft.pdf*]

Dan Culhane moved to approve the minutes. The motion was seconded and carried without objection or abstention.

5 Approval of agenda

Dan Culhane moved to approve the agenda. The motion was seconded and carried without objection or abstention.

6 Old Business

6.1 BSR E1.1 – 202x, Wire Rope Ladders (Open for revision)

Chris Schmidt (task group leader), Sandy Gilzow, Marco Robles, Pat Bash, and Joe Golden.

[See BSR E1.1_PR1Resols_Draft.pdf]

The task group has provided draft comment resolutions for the working group to consider.

Chris Schmidt reported, there were no substantive changes made as a result of the comment resolutions. Tim Hansen moved to approve the proposed comment resolutions. The motion was seconded and carried without objection or abstentions.

Bruce Darden moved to approve the document as an ANS. The motion was seconded. A letter ballot will commence.

6.2 BSR E1.2 - 202x, Entertainment Technology - Design, Manufacture and Use of Aluminum Trusses and Towers (Open for revision).

Richard Nix to report on informal survey results regarding welding requirements.

Any other news or action?

Richard Nix reported, there is no concern for the welding requirements because all of the companies who manufacture outside of the US do not use this standard, and have TUV-certified welders, providing a pathway to meeting this standard's requirements. Elmer Veith pointed out another potential issue with labeling and serialization.

Richard Nix noted the project is open for limited revision. John Ringelman cautioned about doing limited revisions, especially since we've just discussed other issues beyond welding. Richard agreed, saying he'll refile a new PINS, for a full revision.

Bill Sapsis appointed Elmer Veith (task group leader), Shawn Nolan, Scott England, Mike Weston, and Chris Schmidt to the task group.

6.3 ANSI E1.4-1 - 2022, Entertainment Technology--Manual Counterweight Rigging Systems (Reaffirm, revise, or withdraw by 27 October 2027)

No action at this time.

6.4 ANSI E1.4-2 - 2021, Entertainment Technology—Statically Suspended Rigging Systems (Reaffirm, revise, or withdraw by 06 May 2026)

No action at this time.

6.5 ANSI E1.4-3 - 2020, Entertainment Technology - Manually Operated Hoist Rigging Systems (Reaffirm, revise, or withdraw before 02 June 2025)

No action at this time.

6.6 BSR E1.6-1 - 202x, Entertainment Technology--Powered Hoist Systems (open for revision)

Joe Jeremy, Jesse Adams, Robert Dean, Bill Gorlin, Bruce Darden (leader), Peter Batt, Tracy Nunnally, Stefan Pries, and Joe Golden

Any news or action?

Bruce Darden reported. They have been meeting regularly, with about 90% attendance rate, and will continue to make progress with a goal of WG review in July.

6.7 ANSI E1.6-2 - 2020, Entertainment Technology--Design, Inspection, and Maintenance of Electric Chain Hoists for the Entertainment Industry (Reaffirm, revise, or withdraw before 14 August 2025)

6.8 ANSI E1.6-3 - 2019, Selection and Use of Serially Manufactured Chain Hoists in the Entertainment Industry (Reaffirm, revise, or withdraw 07 October 2024)

The working group has three more meetings to decide on action.

Elmer Veith moved to open the standard for revision. The motion was seconded, and carried without objection or abstention. A PINS will be filed.

Bill Sapsis appointed Elmer Veith (TG Leader), John Ringelman, Mike Weston, Rod Haney, Tyler DeLong, Rick Montgomery, Stephan Jon Wood, and Jennifer Ferguson to the task group.

6.9 ANSI E1.6-4 - 2022, Design, Manufacture, and Inspection of Portable Controls for Electric Chain Hoists in the Entertainment Industry (Revise, reaffirm or withdraw before 30 October 2027)

No action at this time.

6.10 ANSI E1.6-5 - 2022, Selection and Use of Portable Controls for Electric Chain Hoists in the Entertainment Industry (Revise, reaffirm or withdraw before 30 October 2027)

No action at this time.

6.11 ANSI E1.8 – 2018 (R2023), Entertainment Technology—Loudspeaker Enclosures Intended for Overhead Suspension—Classification, Manufacture and Structural Testing (Revise, reaffirm, or withdraw before 05 September 2028)

No action at this time.

6.12 ANSI E1.15 - 2006 (R2021), Entertainment Technology--Recommended Practices and Guidelines for the Assembly and Use of Theatrical Boom & Base Assemblies (Reaffirm, revise, or withdraw before 08 March 2026)

No action at this time.

6.13 BSR E1.21 - 202x, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events (Open for revision)
[See [BSRE1.21_PR1_CmmntSummry.pdf](#)]

No comments were received.

Richard Nix moved to approve as an ANS. The motion was seconded. A letter ballot will commence.

6.14 ANSI E1.22 - 2022, Entertainment Technology - Fire Safety Curtain Systems (Reaffirm, revise, or withdraw by 25 April 2027)

6.15 ANSI E1.39 - 202x, Entertainment Technology –Selection and Use of Personal Fall Arrest Systems on Portable Structures Used in the Entertainment Industry (Reaffirm, revise, or withdraw by 06 May 2026)

6.16 BSR E1.43 - 202x, Live performer flying effect standard (Open for revision) *Task group members:* Eric Rouse (task group leader), Jonathan Deull, Ryan Kunkel, Robert Dean, Tracy Nunnally, Bill Gorlin, and Stewart Stephens.
[See [BSR E1.43_PR1_CmmntResolsR1_Draft.pdf](#) and [E1-43_PerformerFlyingSystems_Rig2020-2032r1.pdf](#)]

The task group has submitted draft comment resolutions and an associated draft revision for working group consideration.

Eric Rouse reported. He moved to accept the proposed resolutions. The motion was seconded. There was discussion. Reid Neslage said he still had concerns about the requirement and resolution regarding his comment on equipment labeling. He read words from E1.6-2 – 2019 sec 3.1.1, saying he would prefer those nineteen words - stating a requirement for approval by a qualified person - instead of the wording that has been proposed, and it is fewer words. Robert Dean said that changing the words would make it more difficult to manage customer expectations. John Ringelman said that we should be careful to consider the ramifications of such a change, but

agreed the fewer words was better. Richard Nix noted that the standard already requires approval by the Flying System Designer who – by definition – is a qualified person.

The motion carried with 9 objections, and no abstentions.

Robert Dean moved to send to another public review. The motion was seconded and carried without objections or abstentions. A BSR8 will be filed, with public review commencing soon thereafter.

6.17 ANSI E1.47 – 2020, Recommended Guidelines for Entertainment Rigging System Inspections
(Reaffirm, revise or withdraw before 18 June 2025)

No action at this time.

6.18 BSR E1.50-1 – 202x, Requirements for the Structural Support of Temporary LED, Video & Display Systems (Open for revision). *Task Group Members:* Charlie Weiner, Stefan Pries, Siobhan Ghee, Joe Golden, Sandy Gilzow (Task group leader), Robert Peterson, Steve Walker, and Richard Nix
[see BSR E1.50-1_PR1 CmmntResols_Draft.pdf and BSR E1.50-1-202x_Rig2023-2001r0.pdf]

The task group has submitted draft comment resolutions with an updated draft revision for working group consideration.

Joe Golden moved to approve the comment resolutions. The motion was seconded and carried without objections or abstentions.

Bruce Darden moved to send the draft to public review. The motion was seconded. There was discussion.

Dan Culhane said there's a typo in comment resolution #4. He moved to rescind the previously carried motion to fix the typo. The motion was seconded and carried without objection. The resolution was fixed by changing to "Added new section 3.2.3.4 for document accessibility."

Robert Haycock moved to approve the comment resolutions as amended. The motion was seconded, and approved without objection or abstention.

The main motion for public review carried without objections or abstentions. A BSR8 will be filed, with public review commencing soon thereafter.

6.19 BSR E1.56 - 202x, Rigging Support Points Design, Fabrication, Installation, and Testing (Open for revision) *Task Group members:* Shawn Nolan (leader), Dan Culhane, Steve Walker, Chris Schmidt, Robert Dean, Shane Kelly

Any news or action?

Shawn Nolan reported. They are making good progress, and may have a draft for review by October, maybe sooner.

6.20 ANSI E1.67 – 2021, Design, Inspection, Maintenance, Selection, and Use of Hand-operated Chain- and Lever Hoists for the Entertainment Industry (Reaffirm, revise, or withdraw by 06 May 2026).

6.21 BSR E1.70 – 202x, Selection and Use of Ground Supported Winch Stands and Towers in the Entertainment Industry *Task group members:* Ethan Gilson (task group leader), Eric Rouse, Elmer Veith, Ryan Riordan, Max Wilson, and Mike Weston.

From the draft October meeting minutes:

Ethan Gilson sent a working draft that will be distributed to the working group. It's available on the listfile page. He said he'd have a draft to consider by end of November.

Any news or action?

Ethan Gilson reported. They did not get much feedback from the working group informal review, so they assumed they're headed in the right direction. They'll keep working on it.

6.22 BSR E1.81, Rigging system signage requirements

Task Group Members: Chris Kaiser (task group leader), Peter Scheu, Pete Svitavsky, Peter Batt, Michael Freeman, Camille Petrillo, Ed Leahy, and Stan Jordan.

Any news or action?

Chris Kaiser reported. They have a plan, and are meeting.

7 New business

7.1 New project request: Rigging Access

[see TSP_rigging access-12.29.pdf]

Robert Peterson explained the need for the standard. Inspections are required, but often no cost-effective access is provided in order to accomplish the inspection. In many cases this means no inspection. The intent is for this to be referenced by the IBC. This would require the document to conform to the ICC style guide.

Tyler DeLong moved to approve the project. The motion was seconded. There was considerable discussion, both for and against the proposal. Main reasons against the proposal are that it could potentially create unreasonable cost increases to a construction project, and that it could place an unreasonable burden on the building designers and consultants – they have little or no control over project funding, but are often held accountable for cost overruns, and must also comply with any value-engineering measures requested by the owner. The motion failed to meet the required supermajority.

The project was proposed by Sanford P Gilzow, who was also present at the meeting. These minutes serve as the required written notification of the project request's disapproval.

8 Other business and announcements

8.1 Above & Beyond Awards

Information on the Above & Beyond Awards may be found at http://tsp.esta.org/tsp/news/award_recipients.html. The nomination site is open year round, and the award is designed for members to highlight the work of their peers. The deadline for nominations is 01 November.

9 Schedule for future meetings

The meeting schedule is posted at <http://www.esta.org/ESTA/meetings.php>. The Spring meetings will occur in conjunction with the USITT conference in Seattle, WA, during the week of 18 March 2024. The Summer meetings will be held in NYC, in conjunction with the NATEAC conference, during the week of 08 July 2024. The Fall 2024 meetings will likely return to Westlake, TX.

10 Adjournment

The agenda's business being completed, Bill Sapsis declared the meeting adjourned at 20:20.

Rigging Working Group members as of 27 Jan 2024

Name	Representing	Status	Int cat
Jesse Adams	Rose Brand Wipers, Inc	P	DR
Matthew Antonucci	Contract Services Administration Trust Fund	O	U
Jane Harrington, ARM	The Hartford Group	O	G
Brent Armstrong	Alpine Rigging & Structural Design	O	CP
Troy Atkinson	Production Resource Group	A	DR
William Ian Auld	Auld Entertainment	O	U
Robert Barbagallo	Solotech Inc.	O	DR
Dana Bartholomew	Bishops Lifting	wtg	DR
Patrick Bash	In-House Production	O	DR
Peter W. Batt	Mainstage Theatrical Supply, Inc	P	DR
Drew Becker	InterAmerica Stage, Inc.	A	CP
Justin Bennett	University of the Incarnate Word	O	U
Jordi Van Berkum	Cybermotion North America	O	DR
Ian Bevan	Walt Disney Company	P	DE
Tyler Bland	Walt Disney Company	O	U
David Boevers	Carnegie Mellon University	P	DE
Luke Brenon	Syracuse Scenery & Stage Lighting Co., Inc.	A	DR
Bennett Brian	Reed Rigging Inc.	P	DR
Gert Jan Brouwer	Frontline Rigging & Motion B.V.	P	CP
Paul Brunner	WJHW Consultants	O	DE
David M. Campbell	Geiger Engineers	O	G
David Carmack	Dave Carmack Consulting, Inc.	P	G
John Caudill	Productions Unlimited	P	DE
Joseph Champelli	Entertainment Project Services, LLC	A	CP
Lee Chuong	Walt Disney Company	A	DE
Jay Cid	R&M Materials Handling / Stagemaker	P	MP
Dawn Copeland	Dawn Copeland	I	U
Wade Cordts	Wade Cordts	I	U
Thomas Cowdery	Thomas Cowdery	I	U
Dan Culhane	Wenger Corp.	A	CP
Bruce Darden	InterAmerica Stage, Inc.	P	CP
David Darland	Encore Global	O	U
Robert Dean	ZFX, Inc.	P	CP
Tyler DeLong	DeLong Rigging Solutions	P	U
Jonathan Deull	JSD Projects LLC	P	U
Jim Digby	Event Safety Alliance	O	U

Rigging Working Group members as of 27 Jan 2024

Name	Representing	Status	Int cat
Don Earl	Earl Girls, Inc.	P	DR
Scott England	Cirque du Soliel Entertainment Group	P	U
Jennifer Ferguson	Kito Group	P	MP
Nick Fleming	Columbus McKinnon Corp.	A	MP
Tim Franklin	Theta Consulting LLC	P	G
Michael Freeman	Texas Scenic Company	P	MP
Mike Garl	Mike Garl Consulting LLC	P	DE
James M. Garner	Walt Disney Company	O	G
Siobhan Gee	Siobhan Gee	I	G
Ethan W Gilson	Entertainment Rigging Services, LLC	P	U
Sanford P. Gilzow	Shur-Rig LLC	P	G
Joe Golden	Gallagher Staging & Productions	P	DR
Tiny Good	Showtech Australia	O	U
William B. Gorlin	M.G. McLaren, P.C.	P	G
Jerry Gorrell	Theatre Safety Programs	P	G
Pat Grenfell	Hoist Sales & Service	P	DR
Benjamin Hague	Benjamin Hague	I	G
Rod Haney	I.A.T.S.E. Local 891	P	U
Tim Hansen	Oasis Stage Werks	P	DR
Robert Haycock	Robert Haycock	I	U
Jeremy Hodgson	Jeremy Hodgson	I	G
Quinten James	ZFX, Inc.	O	CP
Joseph Jeremy	Niscon (LFT)	P	CP
Zhou Jianzhao	Guangzhou Haoyang Electronic Co., Ltd.	O	CP
Ted Jones	Grand Stage	O	U
Matt Jordan	Production Resource Group	A	DR
Stanley Jordan	AVL Designs, Incorporated	P	DE
Christine L. Kaiser	Syracuse Scenery & Stage Lighting Co., Inc.	P	DR
Paige Kassab	Liberty Mutual Insurance	O	DE
Shane Kelly	Shane Kelly	I	U
Christina Kerczynskij	Charcoalblue LLC	P	DE
Chong Kim	CMK Engineering, PLLC	O	DE
Jerald Kraft	Electronic Theatre Controls, Inc	O	MP
Edwin S. Kramer	I.A.T.S.E. Local 1	P	U
Ryan Kunkel	Tait Towers Manufacturing LLC	A	CP
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE

Rigging Working Group members as of 27 Jan 2024

Name	Representing	Status	Int cat
Ed Leahy	Chicago Flyhouse, Inc	P	CP
Jon Lenard	Applied Electronics	A	MP
Paul "Luke" Lewkowicz	Paul E Lewkowicz PC	O	DE
Michael Lichter	Electronic Theatre Controls, Inc.	A	MP
Ross Long	I.A.T.S.E. Local 891	A	U
John Marczeski	Texas Scenic Company	A	MP
Orestes Mihaly	Production Resource Group	P	DR
Rick Montgomery	Motion Laboratories, Inc.	P	MP
Neil Montour	Atlanta Rigging Systems	P	DR
John P. Moore	Vertigo	A	CP
Chris Moulton	Contract Services Administration Trust Fund	A	U
Bartholomew J. Mueller	Recreation Engineering Inc.	P	DE
Cole Muth	Electronic Theatre Controls, Inc.	A	MP
Reid Neslage	Reid Neslage	I	G
Ryan Niemi	Sunset Dynamics	P	CP
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Richard J. Nix	Richard J. Nix	I	G
Shawn Nolan	Clark-Reder Engineering, Inc.	A	G
Tracy Nunnally	Vertigo	P	CP
Shelby Obitts	Liberty Mutual Insurance	O	DE
Gregory Orth	WNP Services, Inc.	O	DR
Daniel Louis, P.E.	Daniel Louis, P.E.	O	DE
Matt Panther	Reliable Design Services	A	CP
Miriam Paschetto	Geiger Engineers	O	DE
Patricio (Pat) Perez	SAG AFTRA	P	G
Robert Peterson	Shur-Rig LLC	A	G
Camille Petrillo	Sapsis Rigging, Inc.	O	U
Kurt Pragman	Pragman Associates, LLC	O	G
Stefan Pries	NEP Live Events	P	DR
Demian Purdy	Encore Global	A	U
Jason Rasinowich	Theatre Projects Consultants, Inc.	wtg	DE
Jeffrey M. Reder	Clark-Reder Engineering, Inc.	P	G
Luke Ricca	Luke Ricca	O	G
Steven Ricks	Electronic Theatre Controls, Inc.	P	MP
Mark Riddlesperger	LA ProPoint, Inc.	O	CP
John Ringelman	Freeman Companies	P	DR

Rigging Working Group members as of 27 Jan 2024

Name	Representing	Status	Int cat
Ryan Riordan	Riordan Rigging LLC	P	U
Ryan Roby	Ryan Roby	O	U
Shane Rogers	Warner Bros. Discovery	P	U
John Rourke	Stagecraft Industries, Inc.	P	DR
Eric Rouse	Entertainment Project Services, LLC	P	CP
Chris Ruble	Christopher Ruble	I	U
Tim Salamon	Encore Global	A	U
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Bryan Schafer	Warner Bros. Discovery	A	U
Peter A. Scheu	Amer. Society of Theatre Consultants	A	DE
Chris Schmidt	Freeman Companies	A	DR
Daniel Schmidt	Western Illinois University	O	U
Donald Scott	Structural Engineering Institute of ASCE	O	DE
Ford Sellers	Chauvet Lighting	O	MP
Steven Serafin	The Hartford Group	O	G
Michael Shaw	Motion Laboratories, Inc.	A	MP
Jonathan Shimon	University at Buffalo - SUNY	P	U
Eric Silzer	Reed Rigging, Inc.	A	DR
Mike Skinner	Contract Services Administration Trust Fund	P	U
John C. Snook	Thermotex Industries Inc.	O	CP
Lynn M. Snook	Thermotex Industries Inc.	O	CP
Russell Solomon	Texas Scenic Company	A	MP
Todd Spencer	Ventana Capital Investments LLC	O	G
Stewart Stephens	S2 Technologies	P	G
Patrick Stewart	Patrick Stewart	O	U
Peter V. Svitavsky	Wenger Corp.	P	CP
Ross Taylor	Taylor & Taylor Associates	O	G
Ken Tilson	Columbus McKinnon Corp.	P	MP
Austin Utley	Thern, Inc.	P	MP
Stephen Vanciel	Stephen Vanciel	O	U
Elmer Veith	Reliable Design Services	P	CP
Michael Viau	Pinnacle Live	O	DE
Nathan Villines	Tyler Truss Systems	P	MP
Steve Walker	Steve A. Walker & Associates	P	G
Patrick Wallace	Encore Global	O	U
Jason S. Waller	GIS Corporation US	O	MP

Rigging Working Group members as of 27 Jan 2024

Name	Representing	Status	Int cat
Charlie Weiner	Total Structures, Inc	P	MP
Drew Wending	Encore Global	A	U
Mike Weston	Encore Global	P	U
Jeff Wilkowski	Them, Inc.	A	MP
Greg Williams	Encore Global	A	U
R. Duane Wilson	Amer. Society of Theatre Consultants	P	DE
Max A. Wilson	Applied Electronics	P	MP
Allen Winzler	Entertainment and Rigging Engineering	P	DE
Stephan Jon Wood	Tait Towers Manufacturing LLC	P	CP
Paul Zagajeski	Wenger Corp.	A	CP