

Minutes
Rigging Working Group
Friday, 12 July 2024
NYC College of Technology, Brooklyn, NY

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:

Kris Ackerman; Encore Global; A; U
Jesse Adams; Rose Brand Wipers, Inc; P; DR
William Ian Auld; Auld Entertainment; P; CP
Dana Bartholomew; Bishop Lifting Products; P; DR
Peter W. Batt; Mainstage Theatrical Supply, Inc; P; DR
Drew Becker; InterAmerica Stage, Inc.; A; CP
Bennett Brian; Reed Rigging Inc.; P; DR
Gert Jan Brouwer; Frontline Rigging & Motion B.V.; P; CP
John Caudill; Major Artistic Productions (MAP); 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
Jonathan Deull; JSD Projects LLC; P; U
Don Earl; Earl Girls, Inc.; P; DR
Scott England; Cirque du Soliel Entertainment Group; P; U
Derek Epstein; Encore Global; O; U
Jennifer Ferguson; Kito Group; P; MP
Mike Garl; Mike Garl Consulting LLC; P; DE
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; Joe Golden Enterprises; P; DE
William B. Gorlin; M.G. McLaren, P.C.; P; G
Jerry Gorrell; Theatre Safety Programs; P; G
Benjamin Hague; Benjamin Hague; I; G
Rod Haney; I.A.T.S.E. Local 891; P; U
Jane Harrington; The Hartford Group; O; G
Robert Haycock; Robert Haycock; I; U
Jeremy Hodgson; Jeremy Hodgson; I; G
Joseph Jeremy; Niscon (LFT); P; CP
Stanley Jordan; AVL Designs, Incorporated; P; DE
Christina Keryczynskyj; Charcoalblue LLC; P; DE
Edwin S. Kramer; I.A.T.S.E. Local 1; O; U
Ed Leahy; Chicago Flyhouse, Inc; P; CP
Jon Lenard; Applied Electronics; A; MP
Paul "Luke" Lewkowicz; Paul E Lewkowicz PC; O; DE
Ross Long; I.A.T.S.E. Local 891; A; U
Dan McLaughlin; Scenic Solutions LLC; P; DR
Sam Michael; Avista Ingenuity, LLC; P; DE
Cameron Miller; Encore Global; A; U
Rick Montgomery; Motion Laboratories, Inc.; P; MP
Bartholomew J. Mueller; Recreation Engineering Inc.; P; DE
Cole Muth; Electronic Theatre Controls, Inc.; A; MP
Reid Neslage; Reid Neslage; I; G

Jim Niesel; Theatre Projects Consultants, Inc.; P; DE
Tracy Nunnally; Vertigo; P; CP
Carlos Ortega; LER Rigging LLC; P; DR
Camille Petrillo; Sapsis Rigging, Inc.; O; U
Jason Rasinowich; Theatre Projects Consultants, Inc.; A; DE
Luke Ricca; Luke Ricca; O; G
John Ringelman; Freeman Companies; P; DR
John Rourke; Stagecraft Industries, Inc.; P; DR
Karl G. Ruling; ESTA; exf; G
Peter A. Scheu; Amer. Society of Theatre Consultants; A; DE
Mike Skinner; Contract Services Administration Trust Fund; P; U
Patrick Stewart; Patrick Stewart; O; U
Austin Utley; Thern, Inc.; P; MP
Elmer Veith; Reliable Design Services; P; CP
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
Charlie Weiner; Total Structures, Inc; P; MP
Mike Weston; Encore Global; P; U
R. Duane Wilson; Amer. Society of Theatre Consultants; P; DE
Max A. Wilson; Applied Electronics; P; MP
Stephan Jon Wood; Tait Towers Manufacturing LLC; P; CP

Visitors:

Neil Huff; Taylor & Taylor Insurance Brokers
Joel A Guerra; Texas Scenic Company
Stephen G. Surratt; Texas Scenic Company

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. No antitrust concerns were raised.

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.

No IP concerns were brought forth.

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. This fee will increase to \$150 in 2025. 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.

3.2 Introduction of attendees

3.3 Determination of a quorum

There are 77 voting entities before this meeting's actions. A quorum is 26, a supermajority is 39.

3.4 Processing of new membership and status change requests

The following applications or status change requests have been received:

*Joe Golden; Joe Golden Enterprises; P; DE (change of representation)
Eric Rouse; Sapsis Rigging, Inc; A; U (change of representation)
John Caudill; Major Artistic Productions (MAP); P; DE (company name change)
Derek Epstein; Encore Global; O; U (new application)
William Ian Auld; Auld Entertainment ; P; CP (change of interest category from U to CP)
Sam Michael; Avista Ingenuity LLC; P; DE (new application)
Carlos Ortega; LER Rigging LLC; P; DR (new application)*

Dan Culhane moved to approve the applications. Seconded.

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

3.5.1 Attendance notices

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

*Amer. Society of Theatre Consultants; R. Duane Wilson and Peter Scheu (present)
Dave Carmack Consulting; Dave Carmack
Mike Garl Consulting LLC; Mike Garl (present)
SAG AFTRA; Pat Perez
Theta Consulting LLC; Tim Franklin
Total Structures, Inc; Charlie Weiner (present)
Warner Bros. Discovery; Shane Rogers and Bryan Shafer*

Dave Carmack, Pat Perez, Tim Franklin, Shane Rogers, and Bryan Shafer were not present, so their status was changed accordingly.

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.

There are none!

3.5.3 Automatic status changes occurring before this meeting

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

*Joe Golden (change of representation, see 3.4)
Eric Rouse (change of representation, see 3.4)
John Caudill (change of representation, see 3.4)*

3.6 Consensus body

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

Name	Representing	Status	Int Cat
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
William Ian Auld	Auld Entertainment	P	CP
Sam Michael	Avist Ingenuity LLC	P	DE
Stanley Jordan	AVL Designs, Incorporated	P	DE
Benjamin Hague	Benjamin Hague	I	G
Dana Bartholomew	Bishop Lifting Products	P	DR
David Boevers	Carnegie Mellon University	P	DE
Christina Keryczynskij	Charcoalblue LLC	P	DE
Ed Leahy	Chicago Flyhouse, Inc	P	CP
Chris Ruble	Christopher Ruble	I	U
Scott England	Cirque du Soliel 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
Dawn Copeland	Dawn Copeland	I	U
Tyler DeLong	DeLong Rigging Solutions	P	U
Don Earl	Earl Girls, Inc.	P	DR
Steven Ricks	Electronic Theatre Controls, Inc.	P	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
Cameron Miller	Encore Global	A	U
Kris Ackerman	Encore Global	A	U
Scott Davis	Encore Global	A	U
Allen Winzler	Entertainment and Rigging Engineering	P	DE
Joseph Champelli	Entertainment Project Services, LLC	P	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
Ted Jones	Grand Stage	P	U
Pat Grenfell	Hoist Sales & Service	P	DR
Rod Haney	I.A.T.S.E. Local 891	P	U
Ross Long	I.A.T.S.E. Local 891	A	U

Name	Representing	Status	Int Cat
Bruce Darden	InterAmerica Stage, Inc.	P	CP
Drew Becker	InterAmerica Stage, Inc.	A	CP
Jeremy Hodgson	Jeremy Hodgson	I	G
Joe Golden	Joe Golden Enterprises	P	DE
Jonathan Deull	JSD Projects LLC	P	U
Jennifer Ferguson	Kito Group	P	MP
Carloe Ortega	LER Rigging LLC	P	DR
William B. Gorlin	M.G. McLaren, P.C.	P	G
Peter W. Batt	Mainstage Theatrical Supply, Inc	P	DR
John Caudill	Major Artistic Productions (MAP)	P	DE
Mike Garl	Mike Garl Consulting LLC	P	DE
Rick Montgomery	Motion Laboratories, Inc.	P	MP
Michael Shaw	Motion Laboratories, Inc.	A	MP
Stefan Pries	NEP Live Events	P	DR
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
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
Reid Neslage	Reid Neslage	I	G
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	Rose Brand Wipers, Inc	P	DR
Stewart Stephens	S2 Technologies	P	G
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Eric Rouse	Sapsis Rigging, Inc.	A	U
Dan McLaughlin	Scenic Solutions LLC	P	DR
Sanford P. Gilzow	Shur-Rig LLC	P	G
Robert Peterson	Shur-Rig LLC	A	G
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
John Marczeski	Texas Scenic Company	P	MP
Russell Solomon	Texas Scenic Company	A	MP

Name	Representing	Status	Int Cat
Jim Niesel	Theatre Projects Consultants, Inc.	P	DE
Jason Rasinowich	Theatre Projects Consultants, Inc.	A	DE
Jerry Gorrell	Theatre Safety Programs	P	G
Austin Utley	Thern, Inc.	P	MP
Jeff Wilkowski	Thern, Inc.	A	MP
Thomas Cowdery	Thomas Cowdery	I	U
Charlie Weiner	Total Structures, Inc	P	MP
Nathan Villines	Tyler Truss Systems	P	MP
Jonathan Shimon	University at Buffalo - SUNY	P	U
Tracy Nunnally	Vertigo	P	CP
John P. Moore	Vertigo	A	CP
Wade Cordts	Wade Cordts	I	U
Ian Bevan	Walt Disney Company	P	DE
Lee Chuong	Walt Disney Company	A	DE
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):	12	
	Mass market producers (MP):	10	
	Designers (DE):	13	
	Dealer or rental company (DR):	15	
	User (U):	15	
	General Interest (G):	11	

4 Approval of the minutes from the last meeting

[See RWGmin03-2024r1_Draft.pdf]

Bruce Darden moved to approve the minutes. The motion was seconded and carried without objection.

5 Approval of agenda

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

6 Old Business

6.1 ANSI E1.1 – 2024, Entertainment Technology - Construction and Use of Wire Rope Ladders (reaffirm, revise, or withdraw by 23 March 2029)

No news or action at this time.

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

Task group members: Elmer Veith (task group leader), Shawn Nolan, Scott England, Mike Weston, and Chris Schmidt

Elmer Veith reported. They've met and will continue meeting, making progress. They expect to have something by January.

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

No news or 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 news or 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 news or action at this time.

6.6 BSR E1.6-1 - 202x, Entertainment Technology--Powered Hoist Systems (open for revision)
Task group members: Joe Jeremy, Jesse Adams, Robert Dean, Bill Gorlin, Bruce Darden (task group leader), Peter Batt, Tracy Nunnally, Stefan Pries, and Joe Golden

Bruce Darden reported. The task group has met several times and are making progress. They are hoping for contributions from the signage group. Bill Sapsis asked how long he thought it would take to complete. Bruce said he's not sure, because there is overlap with other standards so some coordination will be necessary.

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)

No news or action at this time.

6.8 BSR E1.6-3 - 20xx, Selection and Use of Serially Manufactured Chain Hoists in the Entertainment Industry (open for revision)
Elmer Veith (task group leader), John Ringelman, Mike Weston, Rod Haney, Tyler DeLong, Rick Montgomery, Stephan Jon Wood, and Jennifer Ferguson

Elmer Veith reported. They will begin regular bi-weekly meetings next week, and expect to have something for the January meeting.

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 news or 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 news or 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 news or 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 news or action at this time.

6.13 ANSI E1.21 - 2024, Entertainment Technology — Temporary Structures Used for Technical Production of Outdoor Entertainment Events (reaffirm, revise, or withdraw by 23 March 2029)

No news or action at this time.

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

No news or action at this time.

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)

No news or action at this time.

6.16 BSR E1.43 - 202x, Live performer flying effect standard (Open for revision) *Task group members:* Bill Gorlin (task group leader), Jonathan Deull, Ryan Kunkel, Robert Dean, Tracy Nunnally, and Stewart Stephens. *[see E1.43_TG_Response_PR2_Objections.pdf]*

The working group letter ballot motion has carried with the required supermajority, but there were two objections. The working group must decide how to address the objections.

Bill Gorlin reported. He recapped the words sent to the working group. It's a slight modification of the existing published wording. The task group intends to stand on the existing draft language.

Reid Neslage said he does not agree with the proposed wording and is still not comfortable with it. He asked if "full responsibility" meant that - if something happens - the flying system designer will take full responsibility for the legal expenses associated with defense of the manufacturer? He said he acknowledged missing this wording in the current published revision.

Jim Niesel asked why the standard needs to give permission to disregard the manufacturer's instructions. If the words simply said the flying system designer takes full responsibility for the entire system, doesn't that cover it in a similar, but more palatable manner?

Jerry Gorrell said he doesn't think a standard can assign a liability. Ethan Gilson said he did not think it was appropriate to go against a manufacturer's recommendations. Robert Dean said the clause is essentially the same intent as the original wording.

Luke Lewkowicz spoke with experience as an attorney, saying he thinks this means the designer needs a thorough risk assessment and risk reduction to document intent and reason to go "off label."

Karl Ruling said that if the rule becomes "never go against the manufacturer's instructions", then a lot of things won't be permitted to be done the way they are currently done.

Tracy Nunnally said that this is akin to owning a car. The car owner (user) modifies the vehicle, using it the way they want, and the standard says it's OK.

Ethan Gilson thinks we need to be careful in how the words are written. Wayne Cordts said this makes sense from a vendor's perspective, but not from an employer's perspective. Sam Michael said it sounds as if we're trying to establish a legal basis, which is something we can't (or shouldn't) do. Bill Sapsis said he thinks the intent is to keep people safe, not establish legal precedent.

Johnathan Duell said that the task group's intention is to raise the bar by looking at actual practice, to acknowledge such practice, and put in place requirements for due diligence.

Camille Petrillo suggested that the requirement could be, "*Or just an analysis is required, full stop, regardless of whether the equipment is on label or off label use?*"

Ben Hague said he is wary of trying to place responsibility on any specific individual. Everyone participating in the system design and use should be made aware.

Robert Dean moved to accept the task group's proposed response. The motion was seconded. There was further discussion. Ethan Gilson said that MEWP standards say that nonconforming use must be approved/authorized by the manufacturer, or a PE. Bruce Darden said that almost every manufacturer of motorized equipment also prohibits flying people in their O&M manuals, yet the first thing new owners want to do is fly people on the new equipment.

Bill Sapsis called for a vote on the motion. The motion failed (it required 39 votes to carry, but received only 26 in support).

Dan Culhane moved to strike 6.1.6 from the current draft document. The motion was seconded and carried without objection or abstention.

Tracy Nunnally moved to insert new 6.1.6 wording, as follows:

If the flying system designer determines that it is appropriate to use or attach to rigging equipment or other components not intended for flying people as part of the performer flying system, the flying system designer shall take full responsibility for such use. In such cases, documentation of the rationale for such use based on RA/RR shall be included in system documentation.

The motion was seconded. There was discussion, then the motion carried without objection or abstention.

Tracy Nunnally moved to send the revision out for limited public review. The motion was seconded and carried without objection or abstention. A BSR8 will be filed with ANSI.

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

No news or 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_PR2 DraftResols.pdf and BSR E1.50-1-202x_Rig2023-2001r1a.pdf]

The task group has returned proposed comment resolutions and a revised draft for working group consideration.

Sandy Gilzow reported. Charlie Weiner moved to approve the comment resolutions. The motion was seconded and carried without objections or abstentions.

Dan Culhane moved to send the current draft to public review. The motion was seconded and carried without objections or abstentions. A BSR8 will be filed with ANSI.

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

Dan Culhane reported They are still on-schedule for delivery of a draft by January.

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).

No news or action at this time.

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 March meeting minutes:
Sandy Gilzow moved to pause (not abandon) the project. The motion was seconded. There was discussion. Robert Haycock asked if the task group would be amenable to this. Elmer Veith and other task group members said they were. Chris Schmidt asked if there had been any material progress yet. Elmer Veith estimated that it was about 25% complete at this time. Bill Sapsis asked the working group to find some stakeholders willing to take up this work. The motion carried without objection or abstentions.*

Richard Nix moved to abandon the project at the next meeting, if there is no one to take it up at that time. The

motion was seconded. There was brief discussion, then the motion carried without objection.

6.22 BSR E1.81, Rigging system signage requirements

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

Chris Kaiser reported. They are holding regular meetings and making steady progress, but have no estimated completion time yet.

7 New business

8 Other business and announcements

8.1 A “Thank you” to the working group

Tiny Good, with Showtech Australia wrote the following words of thanks to the RWG:

“...thank you to you, and all your members of the RWG for their input on my enquiry for information on chain hoists users manuals and general guidance advice from manufacturers. Please pass on to your group that this was invaluable in our ongoing work of influencing “best practice” in Australia and educating our Government OHS legislators. This will always be an ongoing process.”

8.2 Call for NAMM educational session proposals

A call for session proposals is now open for NAMM Show 2025. Please contact Laura Hoepker (laura.hoepker@esta.org) if you are interested in submitting a session proposal.

8.3 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 Fall 2024 meetings will return to Westlake, TX during the week of 21 October 2024. This working group is scheduled to meet at 14:00 Central Time on Saturday 26 October. Winter meetings will return to Anaheim, CA in conjunction with the 2025 NAMM Show, during the week of 20 January 2025.

10 Adjournment

With the agenda business having been completed, Bill Sapsis adjourned the meeting at 20:10.

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
Kris Ackerman	Encore Global	A	U
Jesse Adams	Rose Brand Wipers, Inc	P	DR
Matthew Antonucci	Contract Services Administration Trust Fund	O	U
Brent Armstrong	Alpine Rigging & Structural Design	O	CP
Troy Atkinson	Production Resource Group	A	DR
William Ian Auld	Auld Entertainment	P	CP
Robert Barbagallo	Solotech Inc.	O	DR
Dana Bartholomew	Bishop Lifting Products	P	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.	O	G
John Caudill	Major Artistic Productions (MAP)	P	DE
Joseph Champelli	Entertainment Project Services, LLC	P	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

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
Scott Davis	Encore Global	A	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
Don Earl	Earl Girls, Inc.	P	DR
Scott England	Cirque du Soliel Entertainment Group	P	U
Derek Epstein	Encore Global	O	U
Jennifer Ferguson	Kito Group	P	MP
Nick Fleming	Columbus McKinnon Corp.	A	MP
Tim Franklin	Theta Consulting LLC	O	G
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	Joe Golden Enterprises	P	DE
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
Jane Harrington	The Hartford Group	O	G
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	P	U
Matt Jordan	Production Resource Group	A	DR

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
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	O	U
Christina Keryczynskij	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	O	U
Ryan Kunkel	Tait Towers Manufacturing LLC	A	CP
Kyle Kusmer	Steven Schaefer Associates, Inc	P	DE
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.	O	MP
Ross Long	I.A.T.S.E. Local 891	A	U
John Marczeski	Texas Scenic Company	P	MP
Dan McLaughlin	Scenic Solutions LLC	P	DR
Sam Michael	Avista Ingenuity, LLC	P	DE
Orestes Mihaly	Production Resource Group	P	DR
Cameron Miller	Encore Global	A	U
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

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
Shelby Obitts	Liberty Mutual Insurance	O	DE
Carlos Ortega	LER Rigging LLC	P	DR
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	O	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.	A	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
Ryan Riordan	Riordan Rigging LLC	P	U
Ryan Roby	Ryan Roby	O	U
Shane Rogers	Warner Bros. Discovery	O	U
John Rourke	Stagecraft Industries, Inc.	P	DR
Eric Rouse	Sapsis Rigging, Inc	A	U
Chris Ruble	Christopher Ruble	I	U
Tim Salamon	Encore Global	A	U
Bill Sapsis	Sapsis Rigging, Inc.	P	U
Bryan Schafer	Warner Bros. Discovery	O	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

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
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
Keith Sklar	Actors' Equity Association	O	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
Charlie Weiner	Total Structures, Inc	P	MP
Drew Wending	Encore Global	A	U
Mike Weston	Encore Global	P	U
Jeff Wilkowski	Thern, 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

Rigging Working Group members as of 12 Jul 2024

Name	Representing	Status	Int cat
Paul Zagajeski	Wenger Corp.	A	CP