



State of Utah

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DEPARTMENT OF TRANSPORTATION

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Deputy Director of Planning and Investment

LISA J. WILSON, P.E.
Deputy Director of Engineering and Operations

October 21, 2024

TO: Owners, Area Operators, and other interested parties

FROM: Brian L. Allen

SUBJECT: 11/4/24 Passenger Ropeway Safety Committee meeting at UDOT and Google meets

The next Utah Passenger Ropeway Safety Committee meeting will be at **1:00 p.m. on Monday, November 4, 2024**. You're welcome to attend either in the UDOT Lester Wire conference room or electronically through Google meets. The electronic appointment contains the links necessary to join the meeting and also includes a link to the agenda. You will be able to join by phone or computer. Video and non-video are both supported.

Contact Information:
Email: brianallen@utah.gov
Cell: 801-633-6408

AGENDA

- ITEM 1. APPROVAL OF MINUTES
September 9, 2024 Meeting
- ITEM 2. 2025 Meeting Schedule
- ITEM 3. Qualified engineer applications:
Robert Langlands, Kiel Mapes, Steve Dorau
- ITEM 4. Exception request: Wasatch Peaks Ranch
- ITEM 5. Updates: Forest Service, Areas, Manufacturers
- ITEM 6. Open Discussion

#

UTAH PASSENGER ROPEWAY SAFETY COMMITTEE MEETING

Monday, November 4, 2024 - 1:00 p.m.
UDOT Lester Wire Conference Room
and
Electronic Meeting (Google Meets)

AGENDA

- ITEM 1. APPROVAL OF MINUTES
September 9, 2024 Meeting
- ITEM 2. 2025 Meeting Schedule
- ITEM 3. Qualified engineer application: Robert Langlands, Kiel Mapes, Steve Dorau
- ITEM 4. Exception request: Wasatch Peaks Ranch
- ITEM 5. Updates: Forest Service, Areas, Manufacturers
- ITEM 6. Open Discussion

#

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 1

Subject: Approval of Minutes – September 9, 2024

Background:

Exhibits:

Draft minutes

Committee Action Requested: Review and approve the meeting minutes with changes recommended by the Committee.

Unapproved minutes

UTAH PASSENGER ROPEWAY SAFETY COMMITTEE MEETING

September 9, 2024

UDOT Lester Wire conference room & Google Meets

Committee members at UDOT:	Robert Miles, Ex-officio Member Steve Thygerson, Public Representative
Committee members Google Meets:	Rich Taxwood, Chairman, Ski Area Representative Russ Oberlander, Vice-chairman, Engineer Curt Panter, U.S. Forest Service Representative
Committee members absent:	Jill Koford, Public Representative Jeff West, Ski Area Representative
Staff:	James Godin, Assistant Attorney General Brian Allen, UDOT
Others at UDOT:	Jason Davis, Alta David Metivier Chris Moffitt
Others (Google Meets):	Brad Hansen, Utah Olympic Park Brandon Nelson, Sundance Dave Justice, Uintah County Dustin Allen, Lagoon Seth Haddick, Wasatch Peaks Ranch Seth Wallace, Forest Service Zach Doyle, Brighton Julie Jag, Salt Lake Tribune Steve Kirner, Alterra Chase Martin, Knight Equipment Emily Royal, SCJ Alliance Philip Armond

CALL TO ORDER

The meeting was called to order at 1:05 pm.

I. APPROVAL OF MINUTES

The minutes of the May 6, 2024 meeting were reviewed.

Following the review Steve Thygerson made a motion to approve the minutes of both meetings and Rich Taxwood seconded the motion. The motion passed.

II. Annual review of exceptions

There are 2 exceptions from the ANSI B77 to allow both the service brake and the emergency brake to act on the same bullwheel surface for direct drive lifts. The two lifts are the Leitner-Poma Sunnyside lift at Alta and the Doppelmayr Crest Express lift at Brighton. There haven't been any incidents relating to the braking systems on direct drive lifts. Proposals are currently being evaluated that would change the ANSI B77 standard to allow this without requiring an exception.

Following the discussion Curt Panter made a motion to approve the exceptions to the ANSI B77 standard. Steve Thygerson seconded the motion. The motion passed.

There are eight air space exceptions. The exceptions have previously been submitted by the areas with the involvement of a qualified engineer and requirements have been established for the operation of the lifts. Following is the list of air space exceptions:

1. Park City Frostwood Gondola: proximity to the Miners Club building
2. Park City Crescent lift: Alpine coaster bridge crosses underneath the lift.
3. Park City Red Pine Gondola: Summer event tent set up adjacent to the bottom terminal.
4. Park City Sunrise lift: Condominium building ½ way up the lift.
5. Park City Cabriolet Gondola: entrance sign in roundabout underneath lift.
6. Snowbird Chickadee lift: crosses underneath and line equipment is attached to pedestrian footbridge.
7. Snowbird Peruvian lift: Alpine coaster building is adjacent to the bottom terminal.
8. Deer Valley Mountaineer lift: tower crane weathervanes over the bottom terminal of the lift.

Following the review of the exceptions Steve Thygerson made a motion to approve the exceptions with continued- compliance with the initial operation requirements. Rich Taxwood seconded the motion. The motion passed.

III. Qualified engineer application: Chris Moffitt

The experience of Chris Moffitt was reviewed by the Committee. Chris was in attendance and talked about his years in working with the ski industry. Following the discussion Curt Panter made a motion to approve Chris' application as a qualified engineer for design and construction. Russ Oberlander seconded the motion. The motion passed.

IV. Wire rope inspector application: Chase Martin

The wire rope inspector application for Chase Martin was reviewed by the committee. Chase has trained with Justin Knight for 2 years and with RJ Knight for 3 months. Chase has experience with inspection and splicing of a variety of ropes. Chase was able to join the meeting and introduce himself to the Committee members. Because of his experience training with the Knight's and their recommendation of Chase, Curt Panter made a motion to approve the application and Rich Taxwood seconded the motion. The motion passed.

V. Forest Service / Area & Manufacturer Updates

The areas and manufactures present gave brief updates as to their recent activities. Steve Thygerson was reintroduced as a committee member representing the public. Steve has previously served on the committee.

VI. Open Discussion / Questions

The meeting was adjourned at 1:50 pm.

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 2

Subject: 2025 UPRSC meeting schedule

Background:

Proposed 2025 meeting schedule:

- January 6th
- March 3rd
- May 5th
- September 8th
- November 3rd

All meetings are Mondays at 1:00 pm.

Attachments:

Committee Action Requested:

Item	Action	Completed

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 3

Subject: Qualified engineer application: Robert Langlands, Kiel Mapes, Steve Dorau

Background:

Robert Langlands' application was reviewed at a previous meeting but he was unable to attend. The references spoke highly of Robert. The Committee decided to wait until Robert was able to join a meeting to complete the evaluation of the application.

Kiel Mapes is the director of engineering for Doppelmayr. I have worked with Kiel on previous projects. His knowledge and experience is consistent with other approved qualified engineers.

Steve Dorau is the principal engineer and director of cable transit for SJC. Steve has experience with both inspection and design of ropeways. His knowledge and experience is consistent with other approved qualified engineers.

Attachments:

Applications

Committee Action Requested:



Application for Approval Qualified Engineer and Ropeway Inspector

Utah Department of Transportation
Passenger Ropeway Safety Committee
4501 S Constitution Blvd.
Taylorsville, UT 84119

I. Discipline(s) for which applicant requests approval



a. Qualified Engineer



Construction



Manufacture



Design



b. Ropeway Inspector

II. General Information

Name: Robert B Langlands III

Address: 6848 S Greendale Rd, Cottonwood Heights, UT 84121

Present Position: Sales Engineer

Date of Application: 02/14/2024

III. Professional Engineer Licensing

Date of licensing: 12/23/2020

Utah license #: 12072572-2202

Licensed by examination? Yes

If no, how?

Is license current? Yes

Has license ever been revoked? No

If yes, why?

Other State(s) or Country(ies) you are licensed in: None

IV. Experience Record



Attach an Experience Record for each discipline checked in section I above. Specify professional experience in accordance with the requirements stated in R920-50-12 of the Utah Ropeway Operations Safety Rules.

V. Certifying Statement

"I certify that the information supplied in this Application and the accompanying Experience Record is true and correct. I also certify that I have read and understand the Utah Ropeway Operations Safety Rules. I believe I am qualified to perform services in each discipline listed, in accordance with the ANSI B77.1 Standard, Utah Code, and the Utah Ropeway Operations Safety Rules."

Applicant Signature: Robert Langlands

Digitally signed by Robert
Langlands
Date: 2024.02.14 13:45:37 -07'00'

Date: 02/14/2024

Chairperson UPRSC Signature:

Date Approved:

Experience Record
Qualified Engineer and Ropeway Inspector
(Reference R920-50-12)

1.	<p>Name and address of employer at time experience was obtained:</p> <p>Skytrac Services Inc. 2350 W 1500 S, Salt Lake City, UT 84121</p>
2.	<p>Type of training and by whom trained in design, construction, manufacture or inspection:</p> <p>Trained in civil engineering and construction techniques by Ross Palmer, PE Completed several ski lift construction projects with Tim Nickou, PE</p>
3.	<p>Approximate dates when experience and training occurred:</p> <p>4/24/2017 through present</p>
4.	<p>Types of tramways the experience and training reported above pertained to:</p> <p>Fixed grip chairlifts, detachable chairlifts, and surface lifts</p>
5.	<p>Name and current address of three references that are familiar with work completed by applicant as listed herein:</p> <p>a. Ross Palmer PE, 2350 W 1500 S Salt Lake City, UT 84104</p> <p>b. Alan Hepner PE, 10200 Pinkham Creek Rd. Rexford, MT 59930</p> <p>c. Justin Gross PE, 2746 Seeber Dr, Grand Junction, CO 81506</p>



Application for Approval Qualified Engineer and Ropeway Inspector

Utah Department of Transportation
Passenger Ropeway Safety Committee
4501 S Constitution Blvd.
Taylorsville, UT 84119

I. Discipline(s) for which applicant requests approval

a. Qualified Engineer

Construction

Manufacture

Design

b. Ropeway Inspector

II. General Information

Name:

Address:

Present Position:

Date of Application:

III. Professional Engineer Licensing

Date of licensing:

Utah license #:

Licensed by examination?

If no, how?

Is license current?

Has license ever been revoked?

If yes, why?

Other State(s) or Country(ies) you are licensed in:

IV. Experience Record

Attach an Experience Record for each discipline checked in section I above. Specify professional experience in accordance with the requirements stated in R920-50-12 of the Utah Ropeway Operations Safety Rules.

V. Certifying Statement

"I certify that the information supplied in this Application and the accompanying Experience Record is true and correct. I also certify that I have read and understand the Utah Ropeway Operations Safety Rules. I believe I am qualified to perform services in each discipline listed, in accordance with the ANSI B77.1 Standard, Utah Code, and the Utah Ropeway Operations Safety Rules."

Applicant Signature:

Date:

Chairperson UPRSC Signature:

Date Approved:

Experience Record
Qualified Engineer and Ropeway Inspector
(Reference R920-50-12)

1.	Name and address of employer at time experience was obtained:
2.	Type of training and by whom trained in design, construction, manufacture or inspection:
3.	Approximate dates when experience and training occurred:
4.	Types of tramways the experience and training reported above pertained to:
5.	Name and current address of three references that are familiar with work completed by applicant as listed herein:
	a.
	b.
	c.



Application for Approval Qualified Engineer and Ropeway Inspector

Utah Department of Transportation
Passenger Ropeway Safety Committee
4501 S Constitution Blvd.
Taylorsville, UT 84119

I. Discipline(s) for which applicant requests approval



a. Qualified Engineer



Construction



Manufacture



Design



b. Ropeway Inspector

II. General Information

Name: Stephen W. Dorau, PE

Address: 5353 Manhattan Circle, Suite 202

Present Position: Principal Engineer & Director of Cable Transit

Date of Application: 09/23/2024

III. Professional Engineer Licensing

Date of licensing: 05/13/2014

Utah license #: 9033311-2202

Licensed by examination? No

If no, how? Comity

Is license current? Yes

Has license ever been revoked? No

If yes, why? n/a

Other State(s) or Country(ies) you are licensed in: See Attached

IV. Experience Record



Attach an Experience Record for each discipline checked in section I above. Specify professional experience in accordance with the requirements stated in R920-50-12 of the Utah Ropeway Operations Safety Rules.

V. Certifying Statement

"I certify that the information supplied in this Application and the accompanying Experience Record is true and correct. I also certify that I have read and understand the Utah Ropeway Operations Safety Rules. I believe I am qualified to perform services in each discipline listed, in accordance with the ANSI B77.1 Standard, Utah Code, and the Utah Ropeway Operations Safety Rules."

Applicant Signature: *Stephen W. Dorau*

Date: 09/23/2024

Chairperson UPRSC Signature:

Date Approved:

Experience Record Qualified Engineer and Ropeway Inspector (Reference R920-50-12)	
1.	<p>Name and address of employer at time experience was obtained:</p> <p>Shea, Carr & Jewell Inc dba SCJ Alliance; 8730 Tallon Lane NE, Lacey, WA 98516 Structural Components LLC; 1870 W 64th Lane, Denver, CO 80221 Parametrix Consulting; 60 Washington Avenue, Bremerton, WA 98337 Kimley-Horn and Associates; 1125 17th St #1400, Denver, CO 80202</p>
2.	<p>Type of training and by whom trained in design, construction, manufacture or inspection:</p> <p>B.S. Mechanical Engineering; Univ. Colorado at Boulder 1999. On-the-job training with ropeway and structural design groups at above firms. Participation in ANSI B77.1/B77.1 Committees since 2019.</p>
3.	<p>Approximate dates when experience and training occurred:</p> <p>SCJ 2018-2024, 2010-2012 Structural Components 2012-2018 Parametrix Consulting 2004-2010 Kimley-Horn and Associates 1997-2004</p>
4.	<p>Types of tramways the experience and training reported above pertained to:</p> <p>Design of ropeline profiles for monocable, tricable, and surface lifts; structures and foundations, and mechanical components.</p>
5.	<p>Name and current address of three references that are familiar with work completed by applicant as listed herein:</p> <p>a. Harlan P. Bryant; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p> <p>b. James K. Bunch; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p> <p>c. Michael R. Deiparine, PE; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p>

Experience Record Qualified Engineer and Ropeway Inspector (Reference R920-50-12)	
1.	Name and address of employer at time experience was obtained: Shea, Carr & Jewell Inc dba SCJ Alliance; 8730 Tallon Lane NE, Lacey, WA 98516 Structural Components LLC; 1870 W 64th Lane, Denver, CO 80221 Parametrix Consulting; 60 Washington Avenue, Bremerton, WA 98337 Kimley-Horn and Associates; 1125 17th St #1400, Denver, CO 80202
2.	Type of training and by whom trained in design, construction, manufacture or inspection: B.S. Mechanical Engineering; Univ. Colorado at Boulder 1999 On-the-job training with ropeway and structural design groups at above firms.
3.	Approximate dates when experience and training occurred: SCJ 2018-2024, 2010-2012 Structural Components 2012-2018 Parametrix Consulting 2004-2010 Kimley-Horn and Associates 1997-2004
4.	Types of tramways the experience and training reported above pertained to: Construction observation of concrete placement, structural steel erection and mechanical component installation for ropeway systems, amusement rides and telecom structures.
5.	Name and current address of three references that are familiar with work completed by applicant as listed herein: a. Harlan P. Bryant; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303 b. James K. Bunch; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303 c. Michael R. Deiparine, PE; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303

Ropeway Inspection Experience

Experience Record Qualified Engineer and Ropeway Inspector (Reference R920-50-12)	
1.	<p>Name and address of employer at time experience was obtained:</p> <p>Shea, Carr & Jewell Inc dba SCJ Alliance; 8730 Tallon Lane NE, Lacey, WA 98516</p>
2.	<p>Type of training and by whom trained in design, construction, manufacture or inspection:</p> <p>B.S. Mechanical Engineering; Univ. Colorado at Boulder 1999. On-the-job training with ropeway groups at above firms. Participation in ANSI B77.1/B77.1 Committees since 2019.</p>
3.	<p>Approximate dates when experience and training occurred:</p> <p>2018-2024</p>
4.	<p>Types of tramways the experience and training reported above pertained to:</p> <p>State tramway inspector for Washington State Parks and Rec 2021-2022 for fixed-grip chairlifts, detachable chair lifts, platter lifts, conveyors and fiber rope tows.</p>
5.	<p>Name and current address of three references that are familiar with work completed by applicant as listed herein:</p> <p>a. Harlan P. Bryant; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p> <p>b. James K. Bunch; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p> <p>c. Michael R. Deiparine, PE; 5353 Manhattan Circle, Suite 202, Boulder, CO 80303</p>

Stephen 'Steve' Dorau, PE | Principal Engineer & Director | SCJ Alliance

Steve is an engineer registered in both Civil and Mechanical Engineering in a variety of states. He began his passenger ropeway experience as a college intern in 1997. The team he joined, founded as Jenlynn International, has been a fixture in the tramway industry since the 1980s and remains together under SCJ Alliance. Over the past 27 years, Steve has worked on all aspects of engineering in the passenger ropeway industry. From profile calculations to structural design and from construction observation to working as a state inspector, Steve has a broad range of experience that allows him to take on challenging projects of all types.

Education & Registrations:

BS, Mechanical Engineering | University of Colorado at Boulder | 1999

Registered Professional Engineer in Utah | 2014 (and 21 other states)

ANSI B77.1/B77.2 | Participant Since 2019 | Chair of Structural Subcommittee

Years of Passenger Ropeway Experience: 15+ years of relevant experience

Washington State Parks and Recreation Tramway Inspector

From 2021-2022, Steve worked as a tramway inspector at five Washington State ski areas. At these areas, Steve inspected fixed-grip chairlifts, detachable chair lifts, fiber rope tows, platter lifts and conveyors. He conducted pre-operation and unannounced operational inspections, and provided oversight of load tests.

Eaglecrest Pulse Gondola Relocation

Steve is currently the lead engineer on a project for the City and Borough of Juneau which owns the Eaglecrest Ski Area. This area is relocating a pulse gondola from Europe to Alaska. The project includes the addition of a mid-station, a new tensioning system and a new upper terminal enclosure. Steve is providing tower and terminal loading for foundation designs by a local geotechnical engineering firm and designing the new elevated mid-station structure.

Mighty Argo Cable Car

Steve is working as the owner's engineer for this 10-passenger gondola project in Idaho Springs, CO. Steve is providing profile calculations, design reviews, foundation designs and support to the architects developing the terminals, cabins storage area and maintenance plan.

Estes Park Tramway

Steve is the lead engineer manager of a project to study the potential for capacity increase of this historic tramway built by Bob Heron in the 1950's. Ultimately, a full mechanical and structural evaluation will occur.

Mission Ridge Chair 2 Relocation

Between 2019 and 2021, Steve managed this project that relocated a quad detachable chairlift from Europe to this Washington State ski area. The project included a carrier storage facility. Steve provided structural engineering for the tower and terminal foundations and an assessment of the towers for the higher loading experienced with the new profile.

Jackson Hole Tramway

Steve and SCJ's tramway team worked as owner's engineers and designers on this iconic project. Steve initially provided finite element modeling for the previous tram's towers in an effort to predict fatigue in the 30-year-old structures. Following the decision to replace the tramway system, Steve designed the micropile and caisson foundations for the five towers and the rock anchors at the upper terminal. During construction, Steve provided construction observation and testing of the foundation elements.

PE License List for Stephen W. Dorau

State	Number	Issued	Discipline
Colorado	38063	2003	Non-Specific
Washington State	41565	2005	Civil & Mechanical
Oregon	78384PE	2006	Civil & Mechanical
Arizona	54839	2013	Civil
Georgia	PE039507	2014	Civil
Montana	30920	2014	Non-Specific
Nebraska	E-15167	2014	Civil
Nevada	022989	2014	Civil
Oklahoma	27498	2014	Civil & Mechanical
Texas	117538	2014	Civil & Mechanical
Utah	9033311-2202	2014	Non-Specific
Wyoming	14500	2014	Non-Specific
North Dakota	PE-9847	2015	Civil & Mechanical
South Dakota	12348	2015	Non-Specific
California	C86172	2016	Civil
New Mexico	24082	2017	Civil
Michigan	6201310386	2021	Non-Specific
Idaho	20899	2022	Civil & Mechanical
Alaska	CE-194861	2022	Civil
Florida	93741	2022	Civil
Michigan	6201310386	2021	Non-Specific
Minnesota	62250	2023	Civil

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 4

Subject: Exception request: Wasatch Peaks Ranch

Background:

A gondola is being installed at Wasatch Peaks Ranch. It will operate this winter, and construction of other facilities will continue. Those facilities are outside of the air space, but some construction work and a crane will encroach into the air space.

Attachments:

Exception request and evaluation letter.

Committee Action Requested:



Request for Exception from Standards

Utah Department of Transportation
Passenger Ropeway Safety Committee
4501 S Constitution Blvd.
Taylorsville, UT 84119

OPERATOR / AREA

Name: Wasatch Peaks Ranch

Address: 4213 Morgan Valley DR. Morgan UT 84050

OPERATOR / AUTHORIZED REPRESENTATIVE

Name: Seth Haddick

Title: Lifts Manager

LIFT INFORMATION

Name: The Gondola

ID: TBD

TYPE OF REQUEST

Annual

Limited



Original



Review

Date (requested until)

For the Season: November 1, 2024

to October 31, 2025

DESCRIPTION (Original Requests: complete items 1-4, Review Requests: complete item 1 only)

1.	ANSI B77 sections or R920-50 rules to which the ropeway does not conform: R920-50-10 Airspace Encroachment
2.	Why does it not conform? Adjacent property construction work with crane needing completion.
3.	Procedures that would be required to bring the lift into conformance with standards: operating agreements and stipulations that preclude the crane to encroach upon lift airspace. Crane lockouts must be used and tested when lift is not in operation.
4.	Reasons for requesting an exception: Construction can't be completed without operation in lift airspace, but may weathervane above airspace.

CERTIFICATION AND SUBMITTAL

<input checked="checked" type="checkbox"/>	I certify that this ropeway has been operated safely and without any passenger ropeway incident as defined in R920-50-2-G-1 or 7, related to the feature for which exception is requested, for <u>10</u> years (at least 2 years) prior to the date of this request. (see R920-50-10-C)	
<input type="checkbox"/>	A certification from a qualified engineer is attached attesting that the ropeway is so designed and equipped that its devices or methods provide features that are comparable in performance and safety to requirements in standards. (see R920-50-10-C)	
Qualified Engineer Signature:		Date:
Owner's Signature:		Date:
Print Name: Seth Haddick		10/17/2023

APPROVAL

Signature:	Date Approved:
Chairperson, UPRSC	



Date: October 20, 2024

To: Seth Haddick Wasatch Peaks Ranch
CC:

From: Jason Zakotnik, P.E.

Subject: Risks Associated with the Limited Exception Request to R920-50-9 Airspace Requirements for Founder's Place Tower Crane at the Bottom Terminal and Lift Line of Mountaineer Express.

The purpose of this letter is to outline the risk to Wasatch Peaks Ranch, Members, Guests, Employees, and Equipment if the proposed tower crane is allowed to be in the airspace above the Village Gondola Return Terminal and lift line. According to Kyle Griffith of Wasatch Peak Ranch Development Company there are two instances where the crane may enter the airspace of the lift line as defined by R920-50-2 of the Ropeway Operation and Safety Rules. The first is when a manned crane is lifting and moving loads in the construction area and the jib needs to be over the lift in order to move loads. The second is when an unmanned crane "weathervanes" over the lift due to wind speed and direction. The risks in both situations include but are not limited to:

1. The crane foundation or structure failing, and the crane falls into the lift's airspace.
2. The wire rope cable on the jib failing, and the cable falls into the lift's airspace.
3. A load the crane is carrying falls into the lift's airspace.
4. Snow and ice buildup on the crane fall into the lift's airspace.

It is up to General Contractor and Crane Operator to explain how the risk's above should be mitigated in order for the Utah Ropeway Committee to allow for a Limited Exception.

Jason Zakotnik, P.E.
Above & Beyond, Inc.

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 5

Subject: Forest Service / Area & Manufacturer Updates

Background:

Exhibits:

Committee Action Requested:

**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 11-4-24

Agenda Item: 6

Subject: Safety Topic / Open Discussion / Questions

Background:

Exhibits:

Committee Action Requested: