



State of Utah

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DEPARTMENT OF TRANSPORTATION

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

August 27, 2025

TO: Owners, Area Operators, and other interested parties

FROM: Brian L. Allen

SUBJECT: 9/8/2025 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, September 8, 2025**. You're welcome to attend either in the UDOT Redwood A 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
May 5, 2025 Meeting
- ITEM 2. Public Hearing: proposed ropeway registration fee increase
- ITEM 3. Qualified Engineer application: Jeremiah Frazier
- ITEM 4. Updates: Forest Service, Areas, Manufacturers
- ITEM 5. Open Discussion

UTAH PASSENGER ROPEWAY SAFETY COMMITTEE MEETING

Monday, September 8, 2025 - 1:00 p.m.
UDOT Redwood A Conference Room
and
Electronic Meeting (Google Meets)

AGENDA

- ITEM 1. APPROVAL OF MINUTES
May 5, 2025 Meeting
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**Utah Passenger Ropeway Safety Committee Meeting
Agenda Fact Sheet**

Meeting Date: 9-8-25

Agenda Item: 1

Subject: Approval of Minutes – May 5, 2025

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

May 5, 2025

UDOT Lester Wire conference room & Google Meets

Committee members at UDOT:	Rich Taxwood, Chairman, Ski Area Representative Russ Oberlander, Vice-chairman, Engineer
Committee members Google Meets:	Steve Thygerson, Public Representative Jeff West, Ski Area Representative Seth Wallace, U.S. Forest Service; proxy for Curt Panter, U.S. Forest Service Representative
Committee members absent:	Patrick Cowley, UDOT ex-officio member
Staff:	Brian Allen, UDOT
Others (at UDOT):	Don Rogers, The Park Record
Others (Google Meets):	Brad Hansen, Utah Olympic Park Brandon Conlin Danny McRae, Powder Mountain Jason Davis, Alta Katie Gubler, Nordic Valley Mike Renz, Deer Valley Nathan Raferty, Ski Utah Seth Haddick, Wasatch Peaks Ranch Troy Matthews, Deer Valley Zach Doyle, Brighton

Call to order

The meeting was called to order at 1:00 pm.

I. Approval of Minutes

The minutes of the March 3, 2025 meeting were reviewed.

Following the review Russ Oberlander made a motion to approve the minutes and Jeff West seconded the motion. The motion passed.

II. Ski lift/ropeway maintenance technician training

Dan Richmond was scheduled to present information about the new program, but he was unable to join the meeting. Nathan Raferty presented an overview of the Salt Lake

Community College program. The ski industry is supportive of efforts to establish a program that will help provide technical resources for the resort's maintenance activities.

III. Annual B77 exception review

There are 2 exceptions to the ANSI B77 requirements. Both are for direct drive lifts where the brakes all act on the same braking surface, the bullwheel. The lifts are the Alta Sunnyside lift and the Brighton Crest lift. There haven't been any incidents that would create concern about renewing these exceptions for another year. Following the discussion Russ Oberlander made a motion to approve these exceptions for another year. Seth Wallace seconded the motion. The motion passed.

IV. Annual air space exception review

The following air space exceptions were reviewed and discussed.

- Deer Valley Mountaineer lift
- Park City Cabriolet gondola
- Park City Crescent lift
- Park City Frostwood gondola
- Park City Red Pine gondola
- Park City Sunrise lift
- Snowbird Chickadee lift
- Snowbird Peruvian Express lift
- Wasatch Peaks Ranch Gondola

It was noted that there is an additional exception for the Brighton Crest lift that crosses over a cabin.

All of the air space exceptions were discussed, including the Brighton Crest lift. Following the discussion Rich Taxwood made a motion to approve all of the exceptions for another year. Jeff West seconded the motion. The motion passed.

V. Forest Service, Area, and Manufacturer Updates

Those present gave a brief update on the recent activities at the resort.

VI. Open Discussion / Questions

The meeting was adjourned at 1:35 pm.

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

Meeting Date: 9-8-25

Agenda Item: 2

Subject: Public Hearing: proposed ropeway registration fee increase

Background:

A registration fee increase will be proposed for the governor's office and legislature to consider in the 2026 general session. The proposal will be for a 15% increase to the baseline registration fee.

The information previously sent has been changed slightly. I had rounded to the nearest \$25. To improve the accuracy of the 15% increase the new fees have been rounded to \$5. The surcharge for year round operation remains at 15% of the new registration fee.

There will be a chance for questions and discussion. There will also be the opportunity to express comments on the proposed increase.

The growth in the number of lifts and pay increases for the ropeway safety engineer position are the major factors influencing the ropeway budget. In the last few years the growth in the number of lifts has not kept up with the increased cost of the ropeway safety engineer position. The intention is for future increases to be a smaller percentage, but more frequent as it becomes necessary.

Attachments:

Proposed fee schedule

Committee Action Requested:

Item	Action	Completed

Ropeways	Current fee	New Fee
Tramway Surcharge for Winter and Summer Use	15%	15%
Aerial Tramway - 101 Horse Power or Over	\$2,030.00	\$2,335.00
Aerial Tramway - 100 Horse Power or Under	\$1,010.00	\$1,160.00
2 Passenger fixed grip	\$630.00	\$725.00
3 Passenger fixed grip	\$750.00	\$860.00
4 Passenger fixed grip	\$875.00	\$1,000.00
Conveyor	\$260.00	\$300.00
Funicular - Single or Double Reversible	\$2,030.00	\$2,335.00
Rope Tow, J-bar, T-bar, or Platter Pull	\$260.00	\$300.00
3 Passenger detachable grip	\$1,510.00	\$1,740.00
4 Passenger detachable grip	\$1,625.00	\$1,870.00
6 Passenger detachable grip	\$1,750.00	\$2,010.00
8 Passenger detachable grip	\$1,880.00	\$2,160.00
Gondola - Cabin Capacity from 5 to 8 - fixed grip	\$1,010.00	\$1,160.00
Gondola - Cabin Capacity greater than 8	\$2,030.00	\$2,335.00

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

Meeting Date: 9-8-25

Agenda Item: 3

Subject: Qualified Engineer application: Jeremiah Frazier

Background:

Jeremiah is the electrical engineering manager for LPOA. I have observed Jeremiah complete acceptance tests for both new and modified lifts. After reviewing Jeremiah's application and experience I would recommend that he be approved as a qualified engineer in Utah.

Attachments:

Application: Jeremiah Frazier
CV: Jeremiah Frazier

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:

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.

JEREMIAH DANIEL FRAZIER, PE, CPENG,
193 27 RD | Grand Junction, Colorado 81503

STATEMENT OF EXPERIENCE:

For the past three years I have been the Electrical Engineering Manager for Leitner-Poma of America, Inc. I am responsible for the electrical control system design, construction, commissioning, certification, and support of all ropeways that are manufactured in Grand Junction, Colorado. I am well trained and have over 20 years of experience in the design of safety-rated control systems that use PLCs, diesel, natural gas, and electric motor power transmission, including sensors and actuators for monitoring safety-functions. I am a member of the ANSI committee that maintains the B77 standard used for ropeway construction and transportation. I am responsible for producing project specific electrical design schematics, cabinet inventory and layout from a certified UL508 cabinet shop, cable and conduit schedules, and the installation, commissioning and certification of the control system to all relevant codes and standards. I am responsible for operation and maintenance manuals for the control system, and I provide training to operation and maintenance staff of the ropeway. I also support the Service Department's electrical staff which provides support and refurbishment of our products.

EDUCATION AND TRAINING:

Colorado School of Mines, Golden, CO

Bachelor of Science in Engineering with Mechanical and Electrical
Specialty, Graduated May 2002

TPC Training	January 2021
Smith Driving School	February 2021
DirectDrive and Leitdrive Key-User Certification	May 2022
ANSI B77 Committee member	2016 - 2024

SKILLS & ABILITIES:

Licensure: Professional Engineer: Colorado License No: **44021** since 2/2010
Washington License No: **47199** since 6/2010
~~Texas License No: **114709** since 6/2013~~
Engineer's Australia Member: **4028369** since 8/2011
Chartered Member: CPEng since 3/2014
Queensland, Australia: **14896** since 5/2014
~~IPENZ, New Zealand: **1151923** since 4/2016~~
~~EGBC, British Columbia: **194870** since 4/2018~~

Operating Systems: Windows (NT, 98, 2000, XP, Vista, 7, 10)

Programming: C++, Visual Basic, Ladder, Function Blocks, Sequential Function Charts
Programs: Microsoft Office (Word, Excel, Access, etc.), RSWire, RSLogix 500 and 5000, RSLinx, RSNetworx, RSView Studio, FactoryTalk, Panelbuilder32, Visual Studio, Siemens WinCC Flexible, Citect, AutoCAD, CADKey Solid Edge, Key Creator, ALGOR, Lab VIEW, MATLAB, P-Spice, ABB DC Tools and Drive Windows

Networks: Setting up and servicing the following networks

- RS232/DH485
- Allen Bradley Remote IO (RIO)
- Allen Bradley DH +
- ControlNET
- Ethernet – fiber, copper, wireless
- PILZ SafetyBUS p

Programmable Controllers and HMI: Setting up and servicing the following control systems

- Allen Bradley SLC
- Allen Bradley MicroLogix
- Allen Bradley ControlLogix
- Siemens S7
- Allen Bradley Compact GuardLogix
- PILZ PSS
- Omron

Drives, Soft-starts and Motors: Setting up and servicing the following drives and motors

- ABB and BBC
- Allen Bradley
- Yaskawa
- Fincor
- Sabina
- Leitdrive

Major Projects:

- **2024** – Design and commission new installations: Grouse Mountain Gondola, Jackson Hole Sublette, Copper Mountain Timberline, Snowmass Coney Express, and Bear Mountain Chair 5. Including newly designed brake system, Telma eddy-current braking, new ring and pinon with electric motor, and commissioning Direct Drive motors, and Leitdrives and ABB drives. In addition to the projects above I am responsible for 9 other ropeway projects.
- **2023** – Design and commission new installations: Palisades Tahoe Red Dog and Base to Base gondola, Vail Sundown, Breckenridge Chair 5, Keystone Bergman, Schweitzer Creekside, Steamboat Mahogany, Wasatch Lift 4, and Winter Park Wild Spur. Including seat heat, bubbles, mid-station load, Leitdrives and ABB drives. In addition to the 2023 projects above I am responsible for 7 other ropeway projects.
- **2022** – Design and commission new installations: Breckenridge Rips Ride, Jackson Hole Thunder, A-Basin Lenawee, Vail Game Creek, and Wasatch Lift 3. Including seat heat, bubble chairs, Leitdrives and ABB drives. In addition to the 2022 projects above I am responsible for 9 other ropeway projects.
- **2021** – Operations and maintenance for Williams Mid-Stream. Commission new installations: Keystone Peru, Breckenridge Freedom, and Snowbasin Middle Bowl.
- **2020** – Cabinet construction, installation and startup of solar skids used for valve controls on DOT transmission pipelines. Install and startup Powerflex VFD for improved pump control on amine system.
- **2019** – Formal audit and inspection of Taronga Zoo and Skyrail due to new governing regulations in Australia. Design, startup and certification for Falls Creek Gully, Breckenridge Mercury, Copper Mountain Super Bee, Crested Butte Painter Boy, and Fernie Timber chair. AC and DC drive upgrades at Crested Butte Silver Queen and Paradise. Display upgrade on Snowmass Elk Camp
- **2018** –Lake Louise Grizzly gondola using special conveying system, Install, startup and test our first diesel engine eddy current braking system on Jackson Hole’s Bridger Ridge gondola.
- **2002-2018** – Startup and certification for tramways at Skyrail, Mt. Franklin, El Paso TX, for the FAA and Bellenden Ker for Broadcast Australia; and for the City of Tacoma in Washington. Complete upgrade of electrical system to the American Eagle Lift at Copper Mountain, CO; the Angel Express Lift at Sunshine Village, AB; and the Burlingame Lift in Snowmass, CO; the Mt. Roberts Tram in Juneau, AK; and the Pines Inclined Elevator in Snowmass, CO; Silver Queen Gondola in Aspen, CO; Stratton Gondola in Stratton, VT; Skyline Luge Lift in Queenstown, NZ; Taronga Sky Safari gondola controls and cables. Canyons Resort long-span fiber cable; including design, installation and startup of Allen Bradley ControlLogix, CompactLogix, and MicroLogix PLCs, AC and DC drives and motors, HMI, and networks using fiber, copper and wireless modems.

WORK HISTORY:

- Aug. 2021 - Present** **Electrical Engineering Manager**, Leitner – Poma of America, Grand Junction, CO
- Manage projects, engineers, drafters, and technicians
 - Assist service department electrical management

Nov. 2019 - Aug. 2021 **Operations Technician III (I&E)**, Williams Midstream, Parachute, CO

- Average 40 hours per week
- Work with team of more than ten I&E technicians to maintain compressor stations and natural gas processing plants.
- Electrical Instructor for I&E group
- Document maintainer for I&E group (SSP, SOP, C&E)

Jan. 2017 - Nov. 2019 **Service Engineering Manager**, Leitner – Poma of America
Grand Junction, CO

- Average 60 hours per week
- Oversee four engineers and two technicians in North America
- ANSI B77.1 Member
- Proposals for new projects,
- Design, parts ordering, drawing schematics, inventories, and user's manuals
- Government submittals and professional certification
- Programming, installation and startup
- Service, support, and training

July 2004 - Jan. 2017 **Special Projects Engineer**, Leitner – Poma of America
Grand Junction, CO

- Average 60 hours per week
- Oversee one engineer and three technicians in North America
- Given most difficult projects: tramways, gondolas, elevators
- Design, parts ordering, drawing schematics, inventories, and user's manuals
- Government submittals and professional certification
- Programming, installation and startup
- Service, support, and training

June 2002 - July 2004 **Electrical Technician**, Leitner – Poma of America
Grand Junction, CO

- Wiring electrical control cabinets
- Field installation of cabinets and cables

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

Meeting Date: 9-8-25

Agenda Item: 4

Subject: Forest Service / Area & Manufacturer Updates

Background:

Exhibits:

Committee Action Requested:

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

Meeting Date: 9-8-25

Agenda Item: 5

Subject: Safety Topic / Open Discussion / Questions

Background:

Exhibits:

Committee Action Requested: