

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

Meeting Date: 3-2-26

Agenda Item: 3

Subject: Modification: Powder Mountain Lightning Ridge lift

Background:

Powder Mountain is proposing to replace one carrier of the Lightning Ridge lift with a decorative carousel horse. The carousel horse is designed to prevent passenger use. The proposed details are attached. The Lightning Ridge lift is a Skytrac fixed grip quad. Powder Mountain is working with Skytrac on the proposal.

My opinion is that the change is a lift modification. Lift modifications require a certification of design by a qualified engineer. The change would be allowed with the certification of a qualified engineer.

Attachments:

Carousel Horse operation guide proposal

Committee Action Requested:

Provide direction on my opinion.

Powder Art Foundation

EJ Hill Carousel Horse Operational Guide

Artwork Overview:

- Powder Art Foundation (PAF) is requesting the approval of an art installation on the Lightning Ridge Lift at Powder Mountain
- The Installation is a Carousel Horse that is mounted to the lift line using Skytrac manufactured components
- PAF will work directly with Powder Mountain, Powder Mountain's Insurance Provider, Skytrac and the Utah Passenger Ropeway Safety Committee to ensure a safe and compliant installation
- The Carousel Horse will **NEVER** be used to transport people or cargo under **ANY CONDITIONS**
- The Carousel Horse would be mounted in position of Carrier #77 out of 78 total Carriers on the lift. The lift will operate its regular schedule and speed during the ski season



Powder Art Foundation

Operational Items:

- LCC0289-C04 Assembly Lamothermics Grip Assembly-With Bellville Springs-1.50 Rope
 - Skytrac to provide
- LCC0167-C00 Assembly -OR- Similar - Custom Engineering and Fabrication Required - Hanger Arm Weldment
 - With incorporated physical barrier to prevent person from getting onto saddle of Carousel Horse
 - Skytrac to Engineer and Provide
- Carousel Horse - Custom Modifications to adapt to LCC0167-C00 Assembly -OR- Similar Hanger Arm Weldment from Skytrac-
 - PAF (Powder Art Foundation) to provide
 - Carousel Horse Manufacturer: Barrango
 - Model Number: CB-505
 - Fiberglass w/steel reinforcement (min .25" wall thickness)
 - Paint Color Palette per Catalog Image of CB-503
 - www.barrango.com
- Automated locking loading gate - to be spec'd by Skytrac - Installed at Terminal Base
 - Leitner-Poma Manufacturer
- Warning/Safety Signage
- Weatherproof Cover for Carousel Horse - Custom Fabricated

Location:

- Lighting Ridge Lift, Powder Mountain, Eden, UT

Winter (Ski Season) Operations Overview:

- Carousel Horse (mounted in position of Carrier #77 out of 78) and loading gate are permanently installed and operational during the winter ski season. Carousel Horse Art Installation is part of the daily lift operation
- When Carousel Horse (Carrier #77) approaches the loading zone (at the drive terminal), the automated loading gate will close and not open until the Carousel Horse has cleared the loading area, preventing passengers from entering the loading area when the Carousel Horse is in the loading zone
- Signage installed at the loading zone with warning that the Carousel Horse (Carrier #77) is an "Artwork Installation - NO RIDING"
- Signage on Carousel Horse stating "NO RIDING"
- Industry Standard loading gate signage
- For any potential downloading, the lift will stop before passengers are allowed to load chairs

Powder Art Foundation

- Carousel Horse to be “parked” at Drive Terminal when lift is shut down for the day and covered with weatherproof cover to prevent snow/ice build up
- Carousel Horse to have tight fitting and secure weatherproof cover installed on days where snow and ice build up on carriers is excessive

Spring/Summer/Fall Non-Ski Season Operations Overview:

- Carousel Horse will be parked between lift towers 7 and 8
- For display only - Lift does not operate in the non-ski season months
- Will be inspected and maintained in conjunction with other carriers on lift

Winter (Ski Season) Operational Schedule:

Schedule:

- Open during winter ski season, 7 days/week 9:00 am. - 4:00 pm.
 - Please refer to lift, weather and mountain closures

Operational Staff:

- Lift operator personnel trained and competent on proper use and inspections of new operational items (Loading gates, Carousel Horse Carrier #77, Cover and Signage)
- Lift maintenance personnel trained and competent on proper use and inspections of new operational items (Loading gates, Carousel Horse Carrier #77, Cover and Signage)

Daily:

- Verify loading gate is functioning properly before lift is open to the public
- Verify Carousel Horse’s (Carrier #77) physical barrier is installed, intact, and functioning properly
- Verify all warning and safety signage is visible and functioning correctly:
 - Clean and Legible
- Monitor and clear any snow/ice build up before start of the day and during operational hours on both Carousel Horse and Warning Signage
- Outlined in Limble App and lift SOP Guide

Weekly Cleaning & Maintenance:

- Perform all daily checks - and -
- Visually inspect weld integrity of hanger arm
- Verify all hardware integrity
- Clean off any dirt or other foreign substances
- Outlined in Limble App and lift SOP Guide

Powder Art Foundation

Winter Monthly Cleaning & Maintenance:

- Perform all weekly checks - and -
- Perform migration check
- Outlined in Limble App and lift SOP Guide

Spring/Summer/Fall (Non-Ski Season) Operational Schedule:

Schedule:

- Lift does not operate to transport the public during Spring/Summer/Fall (Non-Ski Season)
- Lift will run only for maintenance and inspections
- Carousel Horse (Carrier #77) to be parked between towers #7 and #8

Operational Staff:

- Lift maintenance personnel trained and competent on proper use, inspections and maintenance of operational items (Loading gates, Carousel Horse Carrier #77, Cover and Signage).

Post Season Cleaning & Maintenance (Post-Season):

- Clean and inspect Carousel Horse (Carrier #77)
- Complete Annual Condition Report:
 - Lift Maintenance (Mechanical/Structural Inspection) Outlined in Limble App
 - PAF (Aesthetic Inspections) Outlined in Google Forms

Annual Inspections and Maintenance (Pre-Winter Ski Season):

- Annual carrier inspection and maintenance to be tracked via Limble App (before winter operations)
- Remove Carrier #77 from lift
- Remove and service grip per Skytrac standards
- Perform structural integrity inspections of hanger arm and grip:
 - Non destructive testing (magnaflux) of carrier assembly
 - Performed Annually by a certified 3rd party
 - Inspect hanger arm/grip bushing - replace if needed
 - Horse barrier structural integrity Inspection
- Perform Structural Integrity Inspections of Carousel Horse (Carrier #77):
 - Inspect for any cracks in fiberglass body of Carousel Horse
 - Hardware integrity inspections
 - Finish inspections (paint/galvanization etc.)
 - Carousel Horse support pole (pole mounted to horse that slides into Hanger Arm) structural integrity inspections
- Re-install grip to hanger arm

Powder Art Foundation

- Re-install Carousel Horse (Carrier #77) to hanger arm, grip and lift
- Perform annual slip test on the Carousel Horse (Carrier #77):
 - Slip test per standard defined by Skytrac
 - Perform migration of carrier per standard defined by Skytrac
- Annual certification sign-off by insurance inspector

Required Initial Approvals:

- Utah Passenger Ropeway Safety Committee to approve
- Powder Mountain Insurance Provider to approve
- Powder Mountain Stakeholders to approve

Weather & Closures:

- This installation's schedule of operation will default to the regular operating schedule of the "Lightning Ridge Lift" defined by the Powder Mountain Operation teams. Weather events, lift and/or run closures will dictate operation of this installation.

Emergency Response Protocol:

- In the unlikely event of a safety concern or other malfunction Lift Operations and Lift Maintenance teams shall follow the following escalation protocol:
 - Lift Operator to notify Lift Maintenance Technician of potential safety concern
 - If concern cannot be safely resolved:
 - Lift Maintenance technician to notify Lift Maintenance Supervisor
 - If concern cannot be safely resolved:
 - If the Lift Maintenance Supervisor determines a closure is required to resolve the concern, they are to notify Mountain Dispatch.
 - Mountain Dispatch to notify all on mountain department radios of closures.
 - On mountain departments to follow established closure procedures.
 - Lift Maintenance is responsible for creating a plan to resolve the safety concern.
 - Lift Maintenance to work directly with PAF to ensure safe handling of artwork.

Operational Reference Materials Being Developed:

1. **Lift Operations Training Guide**
2. **Lift Maintenance Training Guide**
3. **Signage Outlines and Locations**
4. **Maintenance Guides/Schedules**
5. **Inspection Guides/Schedules**
6. **Annual Condition Report**
7. **Certifications and 3rd Party Inspections Reports**