

STATE OF NEW HAMPSHIRE

Passenger Tramway Safety Board



Office: c/o N.H. State Fire Marshal's Office
110 Smokey Bear Blvd., Concord, NH
Mailing Address: 33 Hazen Drive, Concord, NH 03305
603-223-4289, FAX 603-223-4294

Mark Petrozzi Stanley Judge Kris
Blomback Steve Howell

NEW HAMPSHIRE

PASSENGER TRAMWAY SAFETY
BOARD MEETING MINUTES
5/25/2021
Location: Stockade Lodge, Gunstock ski area
(Final)

Attendees:

- Board Members: Mark Petrozzi, Chairman
Stan Judge
Kris Blomback
Steve Howell
NH DOS: Briggs Lockwood Chief inspector
Scot Woolfenden Inspector
Nancy Ettelson Inspector
Industry: Lance Rasmussen Wildcat Ski Area
Derek Schott Wildcat Ski Area
Tim Smith Waterville Valley Ski Area
Dave Dean Waterville Valley Ski Area
Zack Ross Waterville Valley Ski Area
Ross Stevens Stevens Engineering
Adrian Stites MND Group
Jay Bristow MND Group
Adrian Metzen MND Group (via zoom)
AHJ: Joe Gill USFS
Justin Preisendorfer USFS

STATE OF NEW HAMPSHIRE



**Passenger Tramway Safety Board**



Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

Chairman Petrozzi called the meeting to order at 10:05 am.

Chairman Petrozzi asked all present to introduce themselves to the group.

**Agenda item #1**

Review of minutes of the previous meeting dated 4/29/2021.

Motion made by Kris Blomback to accept the minutes from the 4/29/2021 meeting.  
Second by Steve Howell.

No discussion.  
Motion passed. Vote was unanimous.

**Agenda item #2**

Waterville Valley/MND: presentation for proposed new 6-passenger detachable chairlift.

This item was delayed to later in the agenda to give the parties time to set up an audio visual presentation.

**Agenda item #3**

Wildcat: Application for construction, addition of low-voltage controls to TRM 37, Bobcat.

Lance Rasmussen explained to the board documentation for this application was not complete and asked to have this issue moved to a future meeting.

**Agenda item #4**

# STATE OF NEW HAMPSHIRE



## *Passenger Tramway Safety Board*



Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

Wildcat: Application for construction, replacement of chairs only (not hangers) on TRM 34, Wildcat Express.

Lance Rasmussen provided the board with a written outline of the steps that would be taken to insure the chair replacement would be suitable for this installation. He reviewed this outline with the board. The replacement chairs are lighter than the current chairs. The replacement is due to the condition of the current chairs. Only the chairs are to be changed. The existing hangers and grips will be re-used.

Chairman Petrozzi asked for an overview of TRM 34. Lance Rasmussen explained the lift was a detachable quad, built in 1997 with approximately 40,000 hours run time. Chairman Petrozzi explained that this would constitute a modification and therefore would require a signed application and design certificate.

Stan Judge questioned the changes to line loading with the lighter chairs. He explained the current chairs were heavier to help with wind issues. He felt the loading calculations were important.

Motion made by Steve Howell; Accept for conditional approval pending receipt of a signed application, a design certificate, a narrative from Doppelmayer outlining the procedures to be followed, line loading calculations with the replacement chairs and any testing performed.

Second by Kris Blomback.

No further discussion.

Motion passed. Vote was unanimous.

Chairman Petrozzi asked that all documentation requested in the above motion be transmitted to the board members when received.

At this time agenda item #2 was prepared to present.

Jay Bristow gave the board an overview of the proposed project. Waterville Valley Ski

# STATE OF NEW HAMPSHIRE



## *Passenger Tramway Safety Board*



Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

Area is replacing the White Peaks Quad TRM 47 with a 6-passenger detach chairlift with bubbles manufactured by Bartholet. This will be a two-year project. The first year will concentrate on the tower footings and the second year will be terminals and lift line. It is hoped they will have an application for the tower footings completed by the June meeting. Jay Bristow turned the floor over to Ross Stevens to give an audio visual presentation.

The presentation covered the proposed layout of terminals, parking area and the profile. The installation will have 86 carriers, 16% downhill loading, 13 towers, contour loading and 18 ft. line gauge.

Kris Blomback asked how many of these type installations are in operation throughout the world. Jay Bristow explained there are 25 lifts of this type operating currently. Stan Judge asked how long have they been in service. Jay Bristow answered this design has been in service for 10 plus years.

The board thanked Ross Stevens and the MND group for their presentation and looks forward to working with them in the future.

Briggs Lockwood gave an overview of the recent tram accident which occurred in Italy. He explained it was a single track rope and it appears the haul rope separated and the track rope brakes were ineffective. He further explained the Cannon tram is configured differently.

The board set the next meeting date for Thursday June 24, 2021 at 10:00 am, Stockade lodge, Gunstock ski area.

### **Agenda item #5**

Work session: Administrative rules.

# STATE OF NEW HAMPSHIRE



## *Passenger Tramway Safety Board*



Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

Chairman Petrozzi briefly explained the administrative rules and the adoption process. He gave leave to non-board members who wished to leave the meeting. Those remaining were board members and DOS staff.

Briggs Lockwood provided the board with a copy of the current administrative rules. He proceeded to cover several changes that should be considered.

Page 18, 303.02; Change the wording to say that fiber rope tows do not require a certified engineers design.

It was recommended to place a comma at the end of the paragraph and insert the words "all lifts excepting wire rope tows".

Page 23, 305.02 (c) (3); Change by adding the word "linear" in front of dimensions.

Page 24, 305.03; Same change as page 18, 303.02; above.

Page 25, 302.05 (c); Add to paragraph "for fiber rope tows, testing requirements shall be completed by the designer".

Page 25, 305.06 (a); Change wording to "at intervals of no greater than 7 years".

Page 27, 305.07 (b) (4); Same change as for 303.02 and 303.03 above.

Page 28, 307.01 (b) (5); Change by removing the word "permanent" and replacing with the word "established".

The board also wished to have all forms incorporated by reference.

The board gave their unanimous consent to all the above changes to the administrative rules.

# STATE OF NEW HAMPSHIRE



## *Passenger Tramway Safety Board*



Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

Chairman Petrozzi asked the board if there was any further discussion. Stan Judge asked how the board felt about ANSI standard 4.3.4.1; general inspection. He particularly was interested in how ski areas dealt with this provision and whether or not the board may want to incorporate something into the administrative rules to clarify this issue. Discussion ensued on how it was being met by ski areas and who exactly were the aerial lift specialists mentioned. Chairman Petrozzi felt it was a valid issue and should be discussed further in subsequent meeting.

Steve Howell asked if the use of direct drive technology in ski lifts should be addressed in the administrative rules or left to the ANSI standards. No decision was made by the board at this time.

Chairman Petrozzi wished to thank Gunstock for their hospitality and Jay Bristow and Ross Stevens for the delicious donuts and muffins.

Motion made by Kris Blomback: to adjourn the meeting.  
Second by Steve Howell.

No discussion.  
Motion passed. Vote was unanimous.

Meeting was adjourned at 12:45 pm.

Respectfully submitted,

Scot Woolfenden

# STATE OF NEW HAMPSHIRE

## *Passenger Tramway Safety Board*

Office: c/o N.H. State Fire Marshal's Office  
110 Smokey Bear Blvd., Concord, NH  
Mailing Address: 33 Hazen Drive, Concord, NH 03305  
603-223-4289, FAX 603-223-4294

