

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

Selden Hannah
Chairman

Mark Petrozzi
Member

Robert Hoyt
Member

Stanley Judge
Member

NEW HAMPSHIRE PASSENGER TRAMWAY SAFETY BOARD MEETING MINUTES 12-21-2016

Attendees:

Board Members:

Seldon Hannah
Bob Hoyt
Stanley Judge
Mark Petrozzi

NH DOS:

Briggs Lockwood
Nancy Ettelson
Scot Woolfenden

Industry:

Rich Combs	Skytrans Mfg
John Pendleton	Skytrans Mfg
Chris Hanrahan	US Forest Service
Matt Dispensa	Gateway Hills
Matt Dispensa Jr.	Gateway hills
Tim Smith	Waterville Valley

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The meeting was called to order by Chairman Hannah at 9:01 am.

The board reviewed the minutes of the previous meeting dated 11-30-2016.

Motion was made by Bob Hoyt, Second by Mark Petrozzi to accept the minutes. There was no discussion.

Motion passed unanimous.

Rich Combs ask the board if he could change the agenda and discuss item #4: Whaleback before item #2 Waterville valley, as Tim Smith from Waterville valley was delayed. The board allowed the change.

Agenda item #4: Rich Combs Provided the board with an Application and drawings for a modification to the double chair lift at Whaleback Ski area. The modification was for an additional rollback dog to be installed.

Discussion: Mark Petrozzi noted that the application needs to be signed.

Chairman Hannah questioned the calculations for the shear stress on the tooth of the dog.

Motion to accept the application and drawings with the understanding that they will be signed was made by Mark Petrozzi, Second by Bob Hoyt.

Motion was passed unanimous.

Agenda item #2: Rich Combs provided the board with an application and drawings for the Relocated World cup triple lift at Waterville Valley ski area. The lift is being relocated to access new ski trails on the Green Peak expansion.

Rich Combs informed the board that he is working on an operation and maintenance manual for the installation and that a final version will be provide with the as-built documents. Chairman Hannah suggested that the pertinent Doppelmayr bulletins be included in the manual. Rich Combs concurred with this suggestion and agreed to include them.

Rich Combs and John Pendleton walked the board through the submitted drawings. The initial capacity will be 1555 PPH with 155 chairs. It is Waterville ski areas future goal to increase this capacity to 1800 PPH by adding chairs for a total of 179. If this is realized the lift will need to be re-load tested at the new capacity.

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Chairman Hannah questioned the lift calculations for a partially loaded condition with tension. These calculations will need to be provided.

A lengthy discussion ensued on the requirements for fall protection on the lift towers. Chris Hanrahan asked if lifting frames were going to be included or not in the new construction? Tim Smith explained they are not going to be included at this time. The discussion centered around applicable standards. Mark Petrozzi pointed out that the board needs to be satisfied with the program for fall protection. Any fall protection program will need to meet Ansi 2011 standards and any referenced standards. The board will require Skytrans to provide a fall protection program and procedures that are compliant with all applicable standards.

Bullwheel retention was reviewed. Currently retention for the drive bullwheel is already in place. A new retention system for the return bullwheel will be installed prior to operation. It was suggested by chairman Hannah that an emergency stop circuit be added at the return bullwheel to monitor movement. Rich Combs agreed to add this additional circuit.

Grip drawings were reviewed. It was suggested by Chris Hanrahan that procedures for tensioning, de-tensioning and maintenance of the grips be included in the maintenance manual.

At this time, Tim Smith provided a letter to the board asking for a waiver from the requirement of ANSI B77.1, section 1.2.4.2, 100 % NDT of grips for a new/relocated installation. The board reviewed the letter. Tim Smith explained that the grips have been under Waterville's control and have not left Waterville property during construction, Waterville has all records showing the 20% yearly NDT has been performed including 2016's 20% and Waterville has maintained the operation of these grips since original delivery from the manufacturer.

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Rich Combs provided an overview of the testing that has or will occur:

- 100% of chair hangers have undergone NDT
- Both bullwheels are scheduled for NDT testing on 12/22/16
- Original haul rope has undergone an MRT test.
- Original haul rope has undergone a destructive test.
- all concrete test are completed.

Chairman Hannah questioned the speed control of the lift. Rich Combs explained the speed is monitored by a wheel located on the drive bullwheel.

Briggs Lockwood indicated that with the installation of a new control panel, Skytrans will need to provide updated brake torque values and testing procedures.

Motion to approve the application for construction and the waiver to ANSI B77.1, section 1.2.4.2 with the following requirements:

1. Skytrans to provide a fall protection program and procedures that are compliant with all applicable standards.
2. Provide for a bullwheel monitoring circuit at return station.
3. Provide partial loading calculations.

Was made by Bob Hoyt, second by Stan Judge.

Motion passed, unanimously.

Agenda item #3: Matt Dispensa provided the board with an application and drawings for construction of a new conveyor located in Nashua at Gateway Hills. Chairman Hannah asked if the trip plate could be released with pressure on it? Briggs Lockwood indicated that he will investigate and report to the board. Chairman Hannah inquired about a vault for snow accumulation and whether this was accessible by employees? If it is accessible the hatch or door must have a switch to de-energize the lift when not in place. Mark Patrozzi suggested the maintenance procedures could allow for a lock out/tag out procedure for this operation.

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Motion to approve the application for construction was made by Stan Judge, second by Mark Patrozzi.

Motion passed, unanimous.

No future meeting date was set.

Motion to adjourn made by Mark Patrozzi, second by Bob Hoyt.

Motion passed, unanimous

Meeting adjourned at 11:16 am.

Respectfully submitted
Scot Woolfenden