

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
Chairman
Term exp. 6/20/24

Stanley Judge
Member
Term exp. 6/20/23

Kris Blomback
Member
Term exp. 6/20/22

Steve Howell
Member
Term exp. 6/20/25

NEW HAMPSHIRE PASSENGER TRAMWAY SAFETY BOARD MEETING MINUTES 04.27.2022 FINAL

Attendees:

Board Members: Mark Petrozzi, Chairman
Kris Blomback
Steve Howell

NH DOS: Nancy Ettelson

Industry: Justin Preisendorfer, USFS
Erica Dickerman, USFS
Deidre Riley, Attitash
Brandon Swartz, Attitash
Tim Smith, Waterville Valley
Beth LaPointe, MND
Theo Boulangeat, MND
Ross Stevens, Stevens Engineering

Chairman Mark Petrozzi called the meeting to order at 9:09 am

Member Stan Judge was excused –

Reading and Approval of Minutes: Chairman Petrozzi would like to apologize for missing the last meeting and thanked the board for carrying on with the business of the day. Motion made by Kris Blomback to approve minutes as presented. Second by Steve Howell. Motion passed minutes approved 3-0

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Old Business:

- **Loon** : Steve Howell recused himself and presented additional information for the refurbished 7 Brothers detachable chairlift. This lift was the original Kancamagus Quad and was refurbished over the 21-22 winter season
 - Original application for concrete was presented at 3/28/22 meeting and approved.
 - Further information presented today is inclusive of mechanical drawings
 - Need loading conveyor drawing to complete application.

Motion made: Kris Blomback makes the motion and Chairman Petrozzi seconds approving the construction of the 7 Brothers detachable quad with the exception of the loading conveyor. Subject to:

- Updated certificate of design and stamp of Ed DeRosa/Engineer of Dopplemayr.
- Complete package in PDF format for final approval.
 - Motion approved 2 (yes)-0- (no) 1 (recusal)
- **Attitash:** Progression Quad: Brandon Swartz and Deidre Riley from Attitash presented additional information.
 - Presented and updated and more comprehensive package.
 - Final adjustments to the profile -raise 3' on bottom terminal.
 - Construction is tear down mode right now
 - Approved for concrete at 3/28/2022 meeting.
 - Engineer certificate and application needs to take into account the 3' change to profile 3/14/2022
 - Motion made by Steve Howell, second by Kris Blomback. Vote 3-0 affirmative.
- **Waterville Valley:** Ross Stevens introduces Theo Boulangeat and Beth LaPointe from MND operations to give an update of the White Peak Express 6 Pack.

Today's requested meeting is to submit a request for exception from ANSI Standards because Barholet fatigue testing of the grips and carriers does not meet ANSI standards (fatigue cycle testing). The body of the letter is:

The 2017 ANSI B77.1 Sections 3.1.4.3.2 and 3.1.4.3.3.1. (Method #2). Specifically, regarding ANSI, Table 3-7 Grip fatigue testing, Method #2, Test #3. Ross also finds the Barholet documentation supports the requested technical verification necessary to request for "exception" ANSI B77.1 – 2017, Sections 3.1.4.5 (Method #2). Specifically, regarding ANSI, Table 3-8 Carrier fatigue testing, Method #2, Test #2. Further support for these "exceptions" are provided with in Ross's cover letter and supporting documents.

Waterville Valley Resort supports Stevens Engineering's findings of the Barholet's detachable chairlift regarding the ANSI B77 and understands the reasoning behind the request for "Exception". The request will be

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made to the State Of New Hampshire Tramway Board on April 27th, 2022. As the Authority having Jurisdiction, Waterville Valley Resort will fully support and abide by the board's ruling.

Waterville Valley Resort requests that the White Mountain National Forest also acknowledges and approves the requested "Exceptions" listed in the Stevens Engineering documentation.

There was discussion that even though it doesn't meet the letter of the ANSI code it meets the spirit of the code. Designed to European standards (EN Standard. 13796-3) the similarities of the testing provisions are rigorous and, in some cases, exceeds ANSI requirements. Ross Stevens furnished a letter stating same. He is comfortable with the tests that were performed on the grip, hanger, and chair and supports the exception.

US Forest Service asked about the grips remaining open through the drive terminals.

Theo indicated that the overall cycles are 5,000,000. Simulations substantially conform to ANSI standards. The simulation study has been around 15-20 years. Four components: fatigue test of the seat frame, fatigue test of the chair frame, fatigue test of the vehicle hanger, and pendulum beam.

Variance/exception motion made by Steve Howell for relief from ANSI standards to the grips and carriers. Sections 3.1.4.3.2 and 3.1.4.3.3.1. Second by Kris Blomback. Motion carries 3-0.

New Business:

- Work carriers (rules of thumbs):
 - New lifts: Will be furnished with a proper work cart and in accordance with provisions of operating standards.
 - Old lifts: grip at steepest inclination will most likely yield load rating for work carriers. In the short term (this Fall) State of NH will be looking to enforce 2017 standard (load ratings). Carriers will need to meet 2022 standards when adopted. Briggs Lockwood to attend Ski NH meeting (June 7/8 2022) and discuss work carriers' expectations from a lift inspector perspective. This will not be grandfathered.

Next meeting: Gunstock – June 1 - 9:00 am

Meeting adjourned: 10:54 Motion by Kris Blomback – Second by Steve Howell

Respectfully submitted,

Nancy Ettelson