



# SAFETY ORDER

## ABOVE SURFACE FIXED GRIP PASSENGER ROPEWAYS - ROPE GRIP INSTALLATION AND RESISTANCE TO SLIDING

No: SO-PR 2012-01

Date of Issue: January 23, 2012

This safety order is issued pursuant to section 31 of the Safety Standards Act. A person affected by this safety order may appeal this order in writing to the Safety Standards Appeal Board within 30 days. The appeal process is set out on the Safety Standards Appeal Board's website at <http://www.housing.gov.bc.ca/ssab/>.

Failure to comply with a safety order is an offence under section 72 of the Safety Standards Act.

### Part 1: Details of Regulated Work or Regulated Product

This safety order is being issued in relation to (circle or highlight one):

Regulated Work – General	Regulated Products – General
Regulated Work – Specific Class	<b>Regulated Product – Above Surface Fixed Grip Passenger Ropeways</b>
Specific Regulated Work	Specific Regulated Product

The BCSA has received two incident reports in the last 30 days involving the failure of rope grips on above surface fixed grip passenger ropeways where the rope grip failed to maintain the required resistance to sliding on the haul rope. Both of these events resulted in the carriers sliding backwards for a full carrier length into the next carrier behind it. Fortunately, neither of these incidents resulted in injuries to passengers or further damage to equipment. In both of these incidents it was determined that a failure to properly tighten a “jam nut” on the spring pack adjustment mechanism caused the failures. It was also determined in one of the events that a passenger ropeway contractor did not follow manufacturer’s inspection criteria that required a monthly verification of a specific measurement on the rope grip to determine that the spring pack was setup properly.

### Part 2: Requirement(s) of this safety order

BCSA is requiring that all passenger ropeway contractors operating above surface fixed grip passenger ropeways confirm that the following actions have been undertaken for each of the above surface fixed grip passenger ropeways they are currently maintaining under their licence:

1. Conduct inspections on all above surface ropeway fixed rope grips to determine that:
  - a. All required hardware is installed correctly (e.g. cotter pins, snap rings, roll pins etc.)
  - b. All “jam nuts” on spring pack adjustment mechanisms or other mechanisms used to secure and maintain the rope grips resistance to sliding are installed correctly
  - c. There is no excessive migration
2. Review all manufacturers’ requirements with respect to required inspections for rope grips on above surface fixed grip passenger ropeways and confirm that all requirements have been met. If it is determined that the manufacturers’ inspection requirements have not been met then the ropeway must be taken out of service until the required inspections have been completed.

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3. Confirm that all above surface fixed grip passenger ropeway rope grips that were installed prior to the 2011/2012 season or recently relocated rope grips have been subjected to the required proof test to determine the required resistance to sliding is achieved. See CAN/CSA Z98-07 clause 12.10.1. If it is determined that the required proof tests have not been undertaken then the ropeway must be taken out of service until the required tests have been completed.
4. Confirm that a policy/procedure is in place for maintenance personnel to ensure that an installation quality check is undertaken for each rope grip installation/relocation to verify that it has been installed correctly. The quality check will confirm that all hardware is installed correctly, any required tolerance measurements meet manufacturer's specifications and that any mechanism used to secure and maintain the rope grips resistance to sliding are installed correctly (i.e. "jam nuts").

All of the above requirements must be confirmed as complete within the next seven days of operation. The attached confirmation of completion form must be submitted and each of the affected passenger ropeways being maintained under your passenger ropeway contractor licence must be identified on the form. The response must also include what actions were taken, if any, as a result of the inspections and tests (e.g. adjustments to spring pack, install hardware correctly etc.). If it is determined that any of the required manufacturer inspections or tests were not completed then you must inform your safety officer immediately. If you are unable to provide all the required information on the attached response form then please feel free to attach additional information in other formats as required (i.e. word docs, email, additional faxed pages). Response Forms must be submitted no later than January 31, 2012. If you have any questions or concerns please contact your Safety Officer directly or the undersigned Safety Manager.

### **Part 3: Details of Issue (if applicable)**

This safety order is being issued to the following:  
All Passenger Ropeway Contractors maintaining above surface fixed grip passenger ropeways.

### **Part 4: Details of Ordering Safety Manager– Please read following page**

*I certify that I am authorized to issue this safety order in accordance with section 15 (d) of the Safety Standards Act or that I have been delegated this power under section 15 (g) of the Safety Standards Act.*

A handwritten signature in black ink, appearing to read "Jason Gill".

Jason Gill  
Provincial Safety Manager  
Passenger Ropeways and Amusement Devices

**Date: January 23, 2012**

**Safety Standards Act:**

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- (1) To prevent, avoid or reduce risk of personal injury or damage to property, a provincial safety manager may, in writing, issue a safety order.
  - (2) A safety order may be issued to any person in relation to any of the following:
    - (a) regulated work or regulated products generally;
    - (b) a specific class of regulated product or regulated work;
    - (c) a specific regulated product or regulated work.
  - (3) For certainty, a safety order issued under this section may apply to
    - (a) regulated work that meets the requirements under this Act,
    - (b) regulated work that previously met the requirements under this Act or a former Act but does not meet the current requirements under this Act,
    - (c) regulated products that meet the requirements under this Act, or
    - (d) regulated products that previously met the requirements under this Act or a former Act but do not meet the current requirements under this Act, including a regulated product that bears a certification mark.
  - (4) A safety order may specify any requirement that is intended to prevent, avoid or reduce the risk of personal injury or damage to property and may include any of the following orders:
    - (a) that an existing regulated work or regulated product must be made safe in compliance with the safety order;
    - (b) that a regulated product must be
      - (i) disconnected from a power source,
      - (ii) uninstalled, or
      - (iii) modified before continued use;
    - (c) that a regulated product must be operated, installed, manufactured or disposed of only as specified or that a regulated product must not be moved;
    - (d) that current or future regulated work or a regulated product must conform to the terms or conditions of the order;
    - (e) that a person take or refrain from taking any action that a safety manager considers necessary to prevent, avoid or reduce a risk of personal injury to persons or damage to property;
    - (f) that the manufacturer make reasonable efforts to recall the regulated product.
  - (5) The provincial safety manager must give written notice of the safety order to the following persons:
    - (a) the manufacturer of the regulated product;
    - (b) an owner of the regulated product if the identity of the owner is known to the provincial safety manager;
    - (c) the person in charge of the regulated work.
  - (6) The notice must state the reasons for the decision and that the person has the right to appeal the decision to the appeal board.
  - (7) Despite section 54, a safety order may not be stayed during an appeal.

**References:**

Safety Standards Act

For more information on the British Columbia Safety Authority, please visit our website at:

[www.safetyauthority.ca](http://www.safetyauthority.ca)



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### SAFETY ORDER RESPONSE FORM

The information on this form is collected to administer the provisions of the *Safety Standards Act*. If you have questions about the collection, use or disclosure of this information, contact the Records, Information and Privacy Analyst at 1-866-566-SAFE (7233).

The company and/or designated representative in receipt of a safety order must fill out and submit this form to the British Columbia Safety Authority within the timeframe stipulated on the safety order.

**Safety Order No:**

**Operating Company:**

**The following have been completed as required in the above safety order:**

**Person signifying completion  
of safety order requirement/s:**

*(Please print name)*

**Position Title:**

**Signature:**

**Completion Date:**      Month      /      Day      /      Year

**Return this form to:**

**Attention: Tina Wong, Program Administrative Assistant**

[Tina.Wong@safetyauthority.ca](mailto:Tina.Wong@safetyauthority.ca)

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