



## SAFETY ORDER

No: SO-P4 050216 1

<b>SETUP OF MUELLER DEROPEMENT SWITCHES ON COMBINATION OR "ROSTA" SHEAVE ASSEMBLIES</b>
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Date of Issue: February 16, 2005

*This safety order is being 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 in accordance with Section 51 of the Safety Standards Act. It is an offence under section 72 to not comply with a safety order.*

### **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	Regulated Product – Specific Class
Specific Regulated Work	Specific Regulated Product

A failure of a deropement switch to detect a full deropement on a Mueller 2 + 1N combination or "Rosta" sheave assembly installed on a double chairlift was reported to the BCSA. It has been determined that this switch was setup incorrectly and did not meet the manufacturer's requirements for proper setup. The factors which led to the deropement detection failure were incorrect actuator to brittle bar or break fork clearance and possible incorrect preloading of the "Rosta" sheave arm rubber element. In this configuration the fracture of the brittle bar or break fork is reliant on sufficient travel of the actuating mechanism attached to the "Rosta" sheave arm.

### **Part 2: Requirements(s) of this safety order**

Effective immediately all operators of Mueller passenger ropeway installations, including surface ropeways, which have the above noted sheave assemblies and/or similar combination sheave configurations which rely on movement of the upper "Rosta" sheave arm for deropement detection shall take the following action:

- Ensure correct clearance of actuator bolt on "Rosta" support arm to deropement switch brittle bar or break fork as per manufacturer's requirements
- Ensure correct preloading of "Rosta" sheave support arm rubber element as per manufacturer's requirements
- Complete attached response form and fax to Safety Officer when requirements are complete

These requirements shall be completed within the next 24 hours or the installation shall be shutdown until these requirements can be completed. For clarification on the correct setup of these components please contact your manufacturer. Any requests for clarification on the interpretation of this safety order can be made to your Safety Officer.

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

All contractors operating Mueller passenger ropeway installations.

**Part 4: Details of Ordering Safety Manager or Safety Officer**

*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. I hereby order that this safety order be complied with by persons effective the date of this safety order under the authority granted by those sections.*



Tom Hamilton  
Provincial Safety Manager, Passenger Ropeways and Amusement Rides  
British Columbia Safety Authority

For more information on the British Columbia Safety Authority, please visit our web site at:  
[www.safetyauthority.ca](http://www.safetyauthority.ca)



**Safety Order Response Form**

**Operating Company:** .....

**Person Signifying Completion (Please Print):** .....

**Signature:** .....

**Completion Date:** .....