IN THE MATTER OF:

THE TECHNICAL STANDARDS AND SAFETY ACT 2000,
S.O. 2000, c. 16

- and -

ONTARIO REGULATION 209/01 made under the
Technical Standards and Safety Act 2000
(Elevating Devices)

Subject: All Passenger Ropeways with Counterweight Ropes – ‘Inspection and Replacement Criteria for Ropes/Connections & Sheaves’

Sent to: ALL Ski Lift Industry Stakeholders - CONTRACTORS IN GROUP 8

1. INTRODUCTION

This Order is an extension of the previous Director’s Safety Order #180/03 “Chair Lifts with Counterweight Ropes – Inspection/Verification and or Replacement” dated March 17, 2003. The Order #180/03 was intended to alert and prevent the occurrence of a serious accident similar to the one that recently occurred on a chair lift in Ontario. In this accident the failure of the counterweight rope caused the catastrophic failure of the chair lift.

This Order applies to all classes of ropeways with counterweighted tensioning systems.

2. ORDER REQUIRING IMMEDIATE ACTION FOR ALL PASSENGER ROPEWAYS WITH COUNTERWEIGHT ROPES

2.1 Inspection

2.1.1 Entire length of counterweight ropes including their connections and sheaves shall be inspected for their safe use every year prior to operation of passenger ropeways.

2.1.2 The following criteria shall be followed for inspection of counterweight ropes including their connections:

(a) Disassemble counterweight rope including its connections to inspect them entirely.

(b) Nondestructive inspection of counterweight ropes including its connections shall conform with the requirements of Clause 11.27 “Nondestructive Testing of Ropes, Sleeves, and Sockets” of the CSA Z98-01 Standard on Passenger Ropeways including its Supplement # 1 dated December 2002.

(c) A copy of the interpretative report for the inspection of the counterweight rope shall be kept in the log book in accordance with Section 34 of Ontario Regulation 209/01 for Elevating Devices.

(d) The interpretative report referenced in subsection (c) shall be formatted according to the form entitled “Rope Nondestructive Test Report” contained in the Appendix E of the CSA Z98-01 Standard on Passenger Ropeways including its Supplement # 1 dated December 2002.

Further information may be obtained by contacting: Director - ED/AD Division, Technical Standards and Safety Authority, 4th Floor – West Tower, 3300 Bloor St. West, Etobicoke ON., M8X 2X4 Ph:416 325 2000 Fx:416 326 8248
2.1.3 When unlined sheave grooves are used for wire rope, they shall be V-shaped and shall have rounded bottoms with a radius of not less than 55% of the rope diameter.

2.2 Replacement

2.2.1 Replacement of counterweight rope and all its connection shall be based on the requirements of Clause 11.30 of the CSA Z98-01 Standard on Passenger Ropeways including its Supplement # 1 dated December 2002.

2.2.2 Where the existing counterweight rope including all its connections is replaced, the new counterweight rope including all its connections shall be as specified by the manufacturer/designer of the chair lift.

2.2.3 A professional engineer shall perform the function of manufacturer/designer, where the manufacturer/designer is no longer in business.

3. INSTRUCTIONS

3.1 All documentation generated to prove compliance of this Order shall be included in the Maintenance Log as required by Ontario Regulation 209/01 (Elevating Devices).

3.2 For the year 2003 ski season, the requirements of this Order with the exception of Subsection 2.1.3 do not apply to those chair lifts that have documented proof of compliance with Section 3 of the Director’s Safety Order # 180/03.

2.2.4 Wire ropes including their connections shall be maintained in accordance with the requirements of Section 11.28 of the CSA Z98-01 Standard on Passenger Ropeways including its Supplement # 1 dated December 2002.

4. CLARIFICATION

The requirements in this Safety Order are taken from the Ontario Regulation 209/01 and the CSA Z98-01 Standard on Passenger Ropeways including its Supplement # 1 dated December 2002.

This order is being made pursuant to the Technical Standards and Safety Act. Failure to comply with this order is an offence punishable upon conviction, to a fine of not more than $50,000, or imprisonment for a term of not more than one year or both, or if the person is a body corporate to a fine of not more than $1,000,000.

Ted Dance, Director, TSS Act 2000, (Elevating Devices)