IN THE MATTER OF:

THE TECHNICAL STANDARDS AND SAFETY ACT 2000,
S.O. 2000, c. 16
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ONTARIO REGULATION 209/01 made under the
Technical Standards and Safety Act 2000
(Elevating Devices)

Subject: Adoption of CSA B311-02, Safety Code for Manlifts

Sent to: All Manlift Contractors in Scope U6 and Consultants

1. Order
1.1. Adoption

   a) Each newly installed manlift for which the design is submitted to TSSA for registration on or after:
      the 1st day of September 2003, shall fully conform to the requirements of:
      CSA-B311-02 Safety Code for Manlifts, as modified in Item 1.2 of this Order.

   b) Compliance with the 2002 edition of CSA B311 Code shall be stated in item #192 of the TSSA specification
      sheet or in a separate affidavit.

   c) Submissions for new installations received on or before August 31, 2003 need only comply with CSA B311-79 as

1.2. Modifications and Clarifications

   The code adopted in 1.1 is subject to the following modifications and clarifications:

   a) Conformance to Appendix A, B, & C is mandatory.

   b) Section 7.32.9 applies to all Power-Type Manlifts. Top-of-car operating stations are not limited to lifts with
      wireless control and shall be provided on each power-type manlift.

   c) Section 7.32: Note that requirements of section 7.36, Control and Operating Circuits, apply to “Wireless Control”
      as well.

1.3. Major revisions or additions in CSA B311-02

1.3.1. General

   Major changes have been made to the B311-02 code as a result of the extended period since publication of the 1979
   edition. The Power-Type Manlift Section 7 has undergone a significant rewrite as a result of two factors:

   a) Numerous new and more stringent requirements to allow an increase of capacity, speed, car floor area, and
      addition of automatic operation option.

   b) Harmonization with ASME A17-1 Safety Code for Elevators, Section 5.7.
1.3.2. Specific clauses with major revisions/additions in the CSA-B311-02 include:

Endless-Belt-Type Manlift:
   a) Pits are not permitted (Cl. 5.2.7.2.2);
   b) Safety brake shall be applied to final output shaft or head pulley. Increased loading and tripping speed (Cl 5.3.2.3.1);
   c) Belt width is based on speed (Cl. 5.3.3.2);
   d) Belt strength is increased (Cl. 5.3.3.3);
   e) A grab rail is replaced by a third automatic stop device as protection against emergency stop device failure (Cl. 
      5.4.3.3);
   f) Both pulleys must be monitored to ensure both are turning at the same speed (Cl. 5.4.4.3);
   g) Control circuits (Cl. 5.4.9.3);
   h) Bottom floor warning sign and light (Cl. 5.5.3);

Hand-Powered Counterbalanced Manlift:
   i) New requirements for counterweight safeties to protect spaces below hoistway (Cl. 6.5);
   j) Gate height increased (Cl. 6.10.4);

Power-Type Manlift:
   k) Maximum rated load, speed, and platform area increased (Cl. 7.2);
   l) Top and bottom hoistway construction (Cl. 7.3.2);
   m) Pit design and access (Cl. 7.5);
   n) Clearances between Cars, Counterweights, and Hoistway Enclosures (Cl. 7.7.4);
   o) Machine rooms (Cl. 7.9);
   p) Automatic operation is permitted (Cl. 7.31.1.a);
   q) Electrical protective devices have been added (Cl. 7.33);
   r) Control and operating circuits (Cl. 7.36).

2. Instructions
   a) In the case of existing manlifts, the application of any newly adopted code is restricted to the sections covering
      the inspection, testing, maintenance and use of the elevating devices, unless otherwise required by the Regulation
      209/01 under the Technical Standards and Safety Act.
   b) The CSA-B311-02 Safety Code for Manlifts is available from the Canadian Standards Association, 178 Rexdale
      Blvd., Rexdale, Ontario M9W 1R3, telephone 1-800-463-6727, e-mail – sales@csa-international.org or web site
      www.csa.ca.
   c) Since the Regulation under the Technical Standards and Safety Act requires all mechanics to have full knowledge
      of the codes applicable to the elevating devices upon which they are assigned to work, we would expect that the
      mechanics involved in the construction, installation, and maintenance of manlifts will obtain a copy of the subject
      Standard.

3. NOTES
   a) Contractors are urged to study the B311-02 Code carefully to ensure conformance by the specified date.
   b) This Director’s Order has been developed in consultation with the TSSA Elevating Devices Advisory Council.

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