PROVINCE OF BRITISH COLUMBIA

Ministerial Order No. M 032

REGULATION OF THE MINISTER OF FORESTS AND RANGE AND MINISTER RESPONSIBLE FOR HOUSING

Safety Standards Act

I, Rich Coleman, Minister of Forests and Range and Minister Responsible for Housing, order the following, effective February 15, 2007:

1 The Electrical Safety Regulation, B.C. Reg. 100/2004, is amended as set out in Schedule 1.

2 The Elevating Devices Safety Regulation, B.C. Reg. 101/2004, is amended as set out in Schedule 2.

Feb 12/07
Date

Minister of Forests and Range and Minister Responsible for Housing

(This part is for administrative purposes only and is not part of the Order.)

Authority under which Order is made:

Act and section: *Safety Standards Act*, S.B.C. 2003, c. 39, section 88

Other (specify):- Ministerial orders M58/2004 and M59/2004

January 18, 2007

R 58/2007/12

SCHEDULE 1

1 ***Section 20 of the Electrical Safety Regulation, B.C. Reg. 100/2004, is amended***

(a) by striking out "Nineteenth Edition," ***and substituting*** "Twentieth Edition,",

(b) by striking out "C22.1-02" ***and substituting*** "C22.1-06", ***and***

(c) by striking out "B.C. Electrical Code Regulation 2002" ***and substituting*** "B.C. Electrical Code Regulation 2006".

2 ***The Schedule to the Electrical Safety Regulation is repealed and the following substituted:***

SCHEDULE

DEEMED AMENDMENTS FOR PURPOSES OF ADOPTING CANADIAN ELECTRICAL CODE

1 ***For the purposes of section 20 of this regulation, the Canadian Electrical Code, Part 1, Twentieth Edition, Canadian Standards Association Standard C22.1-06 is adopted as if it were amended as follows:***

(a) in section 0 by deleting the definition of **"Electrical contractor"** ***and substituting the following:***

"Electrical contractor" means a licenced electrical contractor, as defined in the Electrical Safety Regulation;

"National Building Code of Canada" means the British Columbia Building Code and local building bylaws; ,

(b) in section 10 by deleting rule 10-812 (a), (b) and (c) and substituting the following:

10-812 **Grounding conductor size for AC systems** (see Appendix B)

The size of the grounding conductor shall be:

(a) not less than that given in Column 2 of Table 17 for an alternating-current system or for a common grounding conductor; and

(b) not less than that given in Column 2, 3, or 4 of Table 18, as applicable for a service raceway, for the metal sheath or armour of a service cable, and for service equipment, where the alternating-current system is not grounded at the premises. ,

(c) in section 12 by deleting rule 12-116 (1) and (2) and substituting the following:

12-116 **Termination of conductors** (see Appendix B)

(1) Connection of conductors to terminal parts shall be made by means of pressure connectors, solder lugs or splices to flexible leads.

(2) The portion of stranded conductors to be held by wire-binding terminals or solderless wire connectors shall have the strands confined so that there will be no stray strands to cause short-circuits or grounds.

(3) Stranded and solid conductors No. 10 AWG and smaller shall be permitted to be connected by means of wire-binding screws, or studs and nuts that have upturned lugs or equivalent.

(4) Stranded and solid conductors larger than No. 10 AWG shall be terminated in solderless wire connectors or shall be permitted to be soldered into wire connectors specifically approved for the purpose except where prohibited by Section 10.

(5) Terminals for more than one current-carrying conductor shall be specifically approved for the purpose and be so marked.,

(d) in section 20 in rule 20-108 (2) by deleting "masonry***" in the first line,***

(e) in section 62 by renumbering rule 62-202 as rule 62-202 (1) and by adding the following subrules:

(2) Manually operable controls for electric heaters in bathrooms shall be located at least 1 m from the bathtub or shower stall, this distance being measured horizontally between the control and the bathtub or shower stall, without piercing a wall, partition or similar obstacle.

(3) If the condition in subrule (2) is not practicable, be located not less than 500 mm from a bathtub or shower stall and be protected by a ground fault circuit interrupter of the class A type.,

(f) in section 62 by deleting rule 62-210,

(g) by deleting Table 17 and substituting the following:

Table 17

Minimum Size of Grounding Conductor for AC Systems or Common Grounding Conductor
(See Rules 10-206, 10-700, and 10-812)

Ampacity of Largest Service Conductor or Equivalent for Multiple Conductors	Size of Copper Grounding Conductor AWG
100 or less	8
101 to 125	6
126 to 165	4
166 to 200	3
201 to 260	2
261 to 355	0

356 to 475	00
Over 475	000
Note: the ampacity of the largest service conductor, or equivalent if multiple conductors are used, is to be determined from the appropriate Table in the Code, taking into consideration the number of conductors in the raceway or cable and the type of insulation.	

,

(h) by deleting Table 18 and substituting the following:

Table 18

Minimum Size of Grounding Conductor for Service Raceway and Service Equipment
(See Rule 10-812)

Ampacity of Largest Service Conductors or Equivalent for Multiple Conductors Not Exceeding --- Amperes	Size of Grounding Conductor		
	Copper Wire AWG	Size of Metal Conduit or Pipe	Size of Electrical Metallic Tubing
100	8	27 (1)	35 (1-1/4)
200	6	35 (1-1/4)	41 (1-1/2)
400	3	63 (2-1/2)	63 (2-1/2)
600	1	78 (3)	103 (4)
800	0	103 (4)	103 (4)
Over 800	00	155 (6)	--

, and

(i) in Appendix B in Note to Rule 10-812 (c) by deleting "Grounding Conductor (T17)" ***from the diagram on page 378 and substituting*** "Grounding Conductor (T18)".

SCHEDULE 2

3 ***The Schedule to the Elevating Devices Safety Regulation, B.C. Reg. 101/2004, is amended by repealing Item 1 under the heading "CANADIAN STANDARDS ASSOCIATION (CSA) STANDARDS" and substituting the following as indicated:***

Item	Column 1	Column 2
1	CSA Standard B44-04 with B44S1-06 Supplement No. 1 and Update No. 1 of May 2006	Safety Code for Elevators, with the following changes: Exclusion of Sections C8.4 and C8.5 Exclusion of Section 8.11 Inclusion of Appendix J as mandatory, which must be used only in case the requirements of Clause c8.6.12.2.2 cannot be met.