



Canadian Standards Association
Mississauga, Ontario
To the Part I Committee

Subject No. 3066

Chair: D. McColl

Date: December 2, 2003

Title: Working Clearances, Rule 38-005(2)

Submitted by: D. McColl, Chair, Section 38

Proposal: Revise Rule 38-005(2) as follows:

38-005 Working Clearances

- (1) The minimum headroom in working spaces around controllers, disconnecting means, and other electrical equipment shall be 2000 mm.
- (2) The working space requirements of Rule 2-308 **and 38-005(1)** need not apply where conditions of maintenance and supervision ensure that only authorized persons have access to such areas, and where:
 - (a) Equipment in (i) through (iv) below is equipped with flexible cables to all external connections to allow its repositioning for compliance with the working space requirements of Rule 2-308:
 - (i) Controllers and disconnecting means for dumbwaiters, escalators, moving walks, material lifts, and lifts for persons with physical disabilities installed in the same space with the driving machine; and
 - (ii) Controllers and disconnecting means for elevators, installed in the hoistway or on the car; and
 - (iii) Controllers for door operators; and
 - (iv) Other electrical equipment installed in the hoistway or on the car; or
 - (b) Live parts of the equipment are suitably guarded, isolated, or insulated, and the equipment can be examined, adjusted, serviced, or maintained while energized without removal of this protection; or
 - (c) Electrical equipment is not required to be examined, adjusted, serviced, or maintained while energized; or
 - (d) Uninsulated parts are extra-low voltage or do not exceed 60 V dc.

Reasons for Request:

Working clearances for electrical equipment in elevating devices are as specified in CEC Part 1 Rule 2-308. Horizontal clearances are usually 1 m. and then modified to meet the clearances available in elevating devices when additional personnel safety measures are assured. Rule 38-005 also specifies working clearances for all electrical equipment in elevating devices (not just control panels). Section 38, in previous editions, was silent on clearances for equipment, other than control panels, such as car top door operators or drive motors. Also, Rule 16-222(1)(b) specifies that circuits operating at more than 42.4V peak be arranged so that no live parts are accessible to unauthorized persons.

The requirements in 38-005(2)(a), (b), (c) and (d) guard against electric shock under the conditions where only authorized persons will examine, adjust, service and maintain the equipment. The authorized persons in this rule would actually be "Elevator Personnel" as defined in CSA/B44-00. B44-00 defines elevator personnel as "persons who have been trained in the construction, maintenance, repair, inspection, or testing of equipment."

A new proposal (2.7.4.5) being balloted to the B44 Committee would limit overhead clearances to no less than 1350 mm. in machinery and control spaces.

The change shown above makes Rule 38-005 consistent with B44 and eliminates an unnecessarily restrictive requirement where safe access by qualified persons is provided.

Subcommittee Deliberation: The Section 38 members who responded all agreed with the submission, except for one person. The one negative comment was that a corresponding change in the B44 Elevator Code be approved first, before approving this proposal. There was no technical objection to the proposal.

Subcommittee Recommendation: Consensus has been reached. Accept the proposal.