



Canadian Standards Association
Mississauga, Ontario
To the Part I Committee

Subject No. 2852

Chair: T. Olechna

Date: November 19, 2003

Title: Supply Services, Rule 6-102

Submitted by: D.A. Coleman of British Columbia Electrical Safety Branch, 750 Pacific Blvd. S., Suite 300, Vancouver, British Columbia, V6B 5E7 on February 11, 1999.

Proposal: Reword the title of Rule 6-102 and add Subrule (4) as follows:

6-102 Supply Services (see Appendix B)

Subrules (1) to (3) unchanged.

- (4) Supply service conductors shall remain entirely outside of a building.

Reasons for Request: It is common practice in British Columbia for supply service conductors to terminate at the meter mounting device, using an empty conduit provided under an installation permit. This permits Rule 6-208 to **not** apply, since the service conduit does not contain consumer service conductors. We can then have unapproved service conductors, with no effective overcurrent protection, entering a building without the constraints of Rule 6-208. The simple correction of deleting the word “consumer” from Rule 6-208 created other problems while solving this one, and was rejected by British Columbia’s Code Committee.

With this change, a transition to approved consumer service conductors must occur outside of the building, but supply service conductors could still terminate on a meter base that was mounted on the outside of the wall.

The most awkward effect anticipated is that the inside wiring to a meter stack would be entirely covered by an installation permit, using approved materials, which is not now the case. This also sounds like a safer arrangement.

Supporting Information: This change should relieve some of the difficulties that the utility has experienced in terminating their conductors within equipment that is beyond their control (see previous subjects 2775 and 2776).

Chair's Comments: I am not sure if we can accept this proposal without creating a major problem with high voltage services many of which are supplied by the utility directly into the customers vault located inside the building. Also as noted by the Submitter, we have a rule dealing with the location of consumers services (Rule 6-208).

I do not agree with the proposed change to the heading of Rule 6-102. This reduces the user friendliness of the Code.

I would prefer establishing a new Rule with the following heading:

6-103 Supply Service Conductor Location

(1) Raceways or cables containing supply service conductors shall be located outside of buildings.

(2) Notwithstanding Subrule (1), raceways or cables containing supply service conductors shall be permitted to enter an electrical equipment vault located in a building provided the supply service conductors are installed in accordance with the requirements for consumers service conductors in Rule 6-208(1) (a) or (b) where they pass through the building.

This will achieve the same purpose and will not interfere with the current practise supplying high voltage vaults many of which are located inside buildings especially high rise buildings where vaults can be located on various floor levels. I recognize that in many cases the high voltage conductors will be 'consumer', but that depends on local supply authority practises.

Subcommittee Deliberation: Nine members replied with one agreeing with original submission without comment. Seven agreed with chairs proposal. One disagreed.

The dissenter felt first of all that the proposed change would be of no help in Quebec as they do not govern the supplier. He also felt that this rule was more stringent than Rule 6-208 which covers consumers service conductors. In response to the first comment, this is different from Province to province and as the rule is new it is not creating a worse situation for inspectors. In response to the second concern, in the first case we are dealing with supply service conductors which essentially we want out of the building and do not want connected to customer owned equipment installed in general areas in the building. Often these conductors are unapproved.

Consumers service conductors are covered under the Code and it is not therefore applies for apples.

Subcommittee Recommendation: That we add a new Rule 6-103 as follows:

6-103 Supply Service Conductor Location

(1) Raceways or cables containing supply service conductors shall be located outside of buildings.

(2) Notwithstanding Subrule (1), raceways or cables containing supply service conductors shall be permitted to enter an electrical equipment vault located in a building provided the supply service conductors are installed in accordance with the requirements for consumers service conductors in Rule 6-208(1) (a) or (b) where they pass through the building.

Chair's Comments and Recommendation:

As a result of the of the 42 month limit (C5.4.5) I have reviewed this subject and have the following comments:

This subject was last reviewed in 1999 and the Part 1 recommendation was to send it back to the committee.

There has not been much interest in this subject and there is currently a proposal that will permit supply service conductors in a specified enclosure.

The submitter of the proposal is not with us any more and no addition info can be obtained.

I recommend that this Subject be closed.

Subcommittee Deliberation: Seven members responded and all have agreed to close the subject.

Subcommittee Recommendation: Close the subject.