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INSTALLATION OF ADDITIONAL 240 V BRANCH CIRCUITS IN DWELLING UNITS

This Bulletin clarifies conditions under which installation of additional 240 V branch circuits in dwelling units may be permitted.

Background:

Rule 26-744(4) of the CEC, Part I mandates installation of a receptacle of CSA Configuration 14-50R for a free-standing electric range having a calculated demand of 50 A or less.

Rule 8-200(1)(a)(iv) of the CEC provides loading requirements for such electric range in a dwelling, and

Rule 8-300 regulates a demand of branch circuit conductors supplying this electric range.

Thus, a typical one family dwelling would have one 240 volt, 40 A branch circuit that supplies power to the electric range installed in the kitchen of this dwelling. Vancouver Building By-law recognizes the fact that a secondary suite may be constructed in a one-family dwelling, provided that specific conditions of Article 9.1.1.3. of Division B are met. Sentence 9.34.1.1.(2) of Division B of the VBBL has also been amended to accommodate the impact of additional loads of secondary suite on electrical service of a one-family dwelling.

Requirements:

In light of a possible development of a secondary suite in a newly constructed one-family dwelling, every electrical permit issued for a one-family dwelling is provided with a note that allows installation of an additional 240 V, 40 A branch circuit in the basement of a one-family dwelling provided that the following conditions are met:

1. The additional circuit is intended only for use that is "authorized" by the provisions of Vancouver Building By-law or Vancouver Zoning and Development By-law. (i.e. when a one-family dwelling is intended to be constructed with a secondary suite);
2. The additional branch circuit must be terminated at the receptacle of CSA Configuration 14-50R;
3. The intent to wire additional 240 V, 40 A branch circuit must be indicated on the permit application and must be included in the scope of work.

Note: Specific provisions of the Vancouver Building By-law or Vancouver Zoning and Development By-law may allow a "secondary suite" in a one-family dwelling only. Therefore, it is not permitted to install an additional 240 V, 40 A branch circuit in a building other than a one-family dwelling (in a two-family dwelling such as a duplex, side-by-side, or other multi-family dwelling).

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CHIEF ELECTRICAL INSPECTOR
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