



## Electrical Bulletin 22-15

November 18<sup>th</sup>, 2022

**Re: Markings, Approvals and Control Panels**

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In response to a significant number of questions regarding markings and approvals as described in Section 2 of the Canadian Electrical Code.

In reference to the *Canadian Electrical Code*:

**2-024 Use of approved equipment** (see Appendix B)

1) Electrical equipment used in electrical installations within the jurisdiction of the inspection department shall be approved and shall be of a kind or type and rating approved for the specific purpose for which it is to be employed.

For electrical equipment to be approved as described above, it requires certification to any Canadian product standard(s) specific to its purpose. These “standards” are publications referenced in Appendix A and there is a huge library that primarily falls outside an electrician’s scope of practice. However, as it is a normative part of the CEC and enforceable, it is still the responsibility of the installer to identify when a product is either not certified, or being installed outside of the scope of that certification. Looking for markings and approvals before install, or even before purchase, can save a lot of time, money and headaches on a project. Appendix A has been moved online, and can be found on the CSA website.

A part of the approval process that lies completely within the installer’s responsibility is found in CEC Rule 2-026(c). Any electrical equipment supplied with installation instructions is required to be installed following those instructions. Including these instructions with the equipment is part of the approval requirement, and an installation that does not follow the instructions is therefore in non-compliance with a condition of that approval. From the *Canadian Electrical Code* 2-026(c):

**2-026 Powers of rejection** (see Appendix B)

Even though approval has previously been granted, the inspection department may reject, at any time, any electrical equipment under any of the following conditions:

- a) the equipment is substandard with respect to the sample on which approval was granted;
- b) the conditions of use indicate that the equipment is not suitable; or
- c) the terms of the approval agreement are not being carried out.

Subrule 2-026(a) also allows for the rejection of equipment that looks to not follow the terms of that approval. Even when the equipment you are installing has the correct markings and approvals, if something about it seems incorrect or unsafe, please contact our department before install. As is the case with approvals, the earlier in a project problems are noticed, the less headaches and delays it is likely to cause.

## Control Panel and Assembly Approvals

There has been some confusion regarding approvals for control panels and assemblies. This is primarily due to the publication describing them being relatively new, and its lack of a clear definition for a “control panel or assembly”. After reviewing other relevant publications, consulting with authorities across Canada, and following in the example of other jurisdictions, we are defining a “control panel or assembly” as any box or enclosure that contains more than one power and/or control components. As such, any equipment that falls under this definition will require approval to the applicable standard(s). If and when CSA releases a different definition for these assemblies in the future, we will adopt it at that time.

Many of the above defined assemblies will fall under the scope of C22.2 No.286. If requiring certification to this standard, there are already several contractors in the Yukon Territory that have undergone training on this standard and have been designated as “certified panel shops”. You can either seek out one of these contractors to assist you, or pursue certification for your own company.

As with other electrical inspections, a panel certification remains valid for the lifetime of the product as long as the install remains unchanged. If the panel or assembly requires modification or alteration from its original design, it will require re-certification. However, replacement of failed components with identical components does not affect certification.

Thank you,

A handwritten signature in black ink, appearing to read 'Logan Collins', with a stylized, flowing script.

**Logan Collins**

Chief Electrical Inspector

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