

MARKET

July 2007



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New

Update – Technical Requirements

For a consultation for your equipment approvals, call our Customer Service at 1-800-559-5356.



You can find this Newsletter and other helpful information on our website at www.esapa.biz



**ESA
Field Evaluation
Services Group**

www.esapa.biz
1-800-559-5356

**We'd like to hear
from you. Contact us at
field.evaluation@electricalsafety.on.ca**

**Responding to your field evaluation
information needs.**

Working to Better Meet Your Needs

- ESA's Field Evaluation Service's dedicated Customer Service Centre is located at: **1 Terence Matthews Cres, Suite 130, Ottawa, Ontario, K2M 2G3**. You can reach the Centre to request or to follow-up on Field Evaluation Services by one of the following four methods: Phone **1-800-559-5356**, or Local **(613) 271-1489**; by Fax at **1-800-559-5358**, or Local **(613) 271-6441**; or electronically at field.evaluation@electricalsafety.on.ca. You may also visit our website at www.esapa.biz.
- ESA's Field Evaluation Services is licensed to apply CSA labels that are nationally recognized.
- ESA's Field Evaluation Services Group has received Accreditation from the Standards Council of Canada making our label Nationally Recognized.

New

- ESA's Field Evaluation Services Group offers same day processing on all applications received before 2:00 p.m. – please remember to include your account number on all correspondence and **If your company requires a PO# for payment, please include the Purchase Order Number when submitting your applications.**
- Please continue forwarding your **invoice payments** to the Accounts Receivable Department, PO Box 24143, Pinebush Postal Outlet, Cambridge, Ontario N1R 8E6.
- Personalized application forms are available to streamline your requests – contact our Customer Service Centre to have one made for you.
- ESA's Field Evaluation Services Group has now processed over 100000 requests for Field Evaluation!!!
- Inspector Jonathan Potts has recently joined our dedicated group on the Metro Toronto Team.

Update – Technical Requirements

Subject

The new edition of the Canadian Electrical Code (CEC) has a rule that improves safety for workers by requiring special field marking of electrical equipment.

The CEC is an installation code so the responsibility for marking is with the installer. Basically equipment needs to be field marked during the installation to warn about:

1. Potential electric shock hazards
and
2. Arc flash hazards.

The new rule in the CEC is as follows:

2-306 Shock and flash protection

(1) Electrical equipment such as switchboards, panelboards, industrial control panels, meter socket enclosures, and motor control centres that are installed in other than dwelling units and are likely to require examination, adjustment, servicing, or maintenance while energized shall be field marked to warn persons of potential electric shock and arc flash hazards.

(2) The marking referred to in Subrule (1) shall be located so that it is clearly visible to persons before examination, adjustment, servicing, or maintenance of the equipment.

Generally "field marked" means the equipment supplier does not have the responsibility to mark the equipment. The installer in the field would be required to provide the markings when the installation is done.

But to assist owners of equipment and installers, we can provide these labels as part of our Field Evaluation Process that meet the limited requirements of the above new CEC rule 2-306.



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Technical Requirements continued

Please be advised that if workers open equipment it is their responsibility to be knowledgeable about **both the shock hazard and the level of arc flash hazard** available and to use the appropriate safety equipment.

This is a very complex safety area, that requires additional labeling to that discussed above, as well as specialized procedures and specialized safety equipment.

The Appendix B note to the CEC states the following:

NFPA 70E-2004, Electrical Safety in the Workplace, provides assistance in determining severity of potential exposure, in planning safe work practices, and selecting personal protective equipment to protect against shock and arc flash hazards.

ANSI Z535.4-2002, Product Safety Signs and Labels, provides guidelines for the design of safety signs and labels for application to products.

IEEE 1584-2002, Guide for Performing Arc-Flash Hazard Calculations, provides assistance in determining the arc flash hazard distance and incident energy that workers may be exposed to from electrical equipment.



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