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# ESA Electrical Safety Mining Services Group **Tech Brief**

## ESA Introduces the “M” Label

Are you aware that equipment that doesn't bear an approval marking from an accredited certification agency can be evaluated in the field to ensure there will be no undue electrical hazards to persons or property?

Field Evaluation (FE) of electrical products in Canada is based on the requirements of CSA Standard SPE-1000 “Model Code for the Field Evaluation of Electrical Equipment”. Once the equipment meets these requirements, an approval label is affixed to the equipment to indicate compliance.

can be used as guidelines for electrical installations. The CEC or the OESC may be one of the Codes that may be used as such; CSA Standard M421 “Use of Electricity in Mines” is a mining-specific Standard that many mining regulations also recognize as a guideline for electrical installations in mines.

Although electrical equipment evaluated in the field may meet the minimum SPE-1000 standard, it may not meet some of the unique standards found in CSA M421. Hence the need for a label that will inform the user that equipment which bears the “M” label is suitable for use in a mine.

requirements found in CSA M421 include:

- the use of Type 4 enclosures installed on mobile electrical equipment as found in clause 5.10.2.7, and
- Clause 3.3.2.3; that all portable power cables operating at voltages greater than 750v shall be type SHD, SHD-GC or SHD-BGC.

The new “M” Label is not an FE approval label, but identifies to you, the user, that the equipment meets the unique requirements of CSA M421. When used in conjunction with an FE label, it is your assurance that the electrical equipment meets, at the very minimum, all current applicable mining specific requirements as well as Field Evaluation requirements, satisfying your due diligence accountabilitys.



Local jurisdictional mining acts will typically recognize certain electrical Codes or Standards that

Examples of unique re-



ESA's “M” Label