

## Metering and Measurement Canada Specifications

### Distribution Company Awareness

Regulation 22/04, section 7 requires that before beginning work on an electrical installation (including metering) the work shall be based on approved plans, standard design drawings or standard design specifications.

Measurement Canada (MC) has specifications “Standard Drawings for Electricity Metering Installations” for the appropriate connection of electricity meters, which are established for the accuracy of electricity metering. The following direction clarifies Regulation 22/04 section 7 requirements, in regards to metering installations and the use of MC specifications.

### ESA Direction

MC specifications for metering work (electricity metering equipment and its associated equipment) are deemed to satisfy Regulation 22/04 section 7, without approvals by a professional engineer that is subject to the *Professional Engineers Act (i.e. licensed engineering practitioners of Ontario)*.

Since the MC specifications address only the accuracy of the electricity metering, the Electrical Distributor shall ensure that the installation work is based on plans, standard design drawings or standard design specifications that meet all the safety requirements, as per Regulation 22/04 section 4. A list of metering related safety requirements include, but are not limited to providing:

- adequate space provisions for proper operation and maintenance (e.g. working space);
- insulating and barrier provisions to prevent inadvertent contact with live conductors (e.g. conduits, ground movement mitigation of equipment to meters);
- clearances and separations to minimize the possibility of contributing to or causing a fire or explosion (e.g. clearances to gas discharge openings, mechanical protection information).

Note: “Observations” may appear in Audits and Compliance Assessments starting January 1, 2023 for this issue. “Needs Improvement” or “Non-Compliance” findings may appear starting January 1, 2024.

### ESA Recommends

Electrical Distributors review plans, standard design drawings or standard design specifications related to meter installations, to ensure the requirements of Regulation 22/04 are satisfied.