BC Hydro
Power smart

EATON RCPM 200A Combination Meter Socket and Loadcentre

OBJECTIVE

To inspect and evaluate possibility of using EATON RCPM 200A Combination Meter Socket and Loadcentre.

DOCUMENTS AFFECTED

The EATON unit shall comply with Secondary Revenue Metering requirements, Distribution Standards, follow safety practices for installation and maintenance.

BACKGROUND

The unit was reviewed several years ago and was accepted for temporary installations only. Recently customers started to install the EATON RCPM unit permanently.

INVESTIGATIONS AND CONCLUSIONS

Revenue Metering, Distribution Standards, Field crew and Meter Tech conducted group inspection and the conclusion is that the EATON 200A Combination Meter Socket and Loadcentre is **not acceptable to BC Hydro and shall not be connected** due to the following reasoning:

1. *Metering portion and utility wireway have 2 separate covers. Access to unmetered supply conductors /utility wireway/ shall be possible after the RM cover is removed, i.e. the utility wireway cover will be interlocked with the RM cover. The RM cover removal shall follow the following sequence:*

   Removal of the meter socket cover shall not be possible unless the following sequence is followed:

   • Removal of the sealing ring;

   • Removal of the meter;

   • Operation of the meter socket cover latch;

   • Removal of the meter socket cover.

2. *Metered and unmetered conductors shall not be installed in same raceway and/or cross each other, current installation violates Section 4.1 e) and g) of the RM Secondary Requirements:*

   e) Metered and unmetered conductors shall not be installed in the same raceway, pull box or distribution gutter box.

   g) Line and load side conductors shall not be crossed in the meter socket.

3. *Neutral bar too large and in proximity to bottom entry, not enough space to maneuver the wire to the lug – Installation issue;*

4. *Screws for removing the top cover in proximity to energized socket, hazard for the technician – Safety concern;*

CONTACT

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