

**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 MeterTech 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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