

August 2015

**NORTHWESTERN WISCONSIN ELECTRIC COMPANY (NWE)  
CURRENT TRANSFORMER CABINET REQUIREMENTS**

Current transformer cabinets used on NWE system must be U.L. approved and meet the following additional requirements:

Must accommodate bar-type CT's and be complete with landing pads. Landing pad must accommodate NEMA two hole compression lugs (9/16" holes on 1 3/4" centers).

Door must have provisions for locking with standard NWE padlock and shall be hinged on the right or left side only.

Neutral bar must be provided with a set screw type terminal lug for number 12 stranded wire.  
(For metering connection only).

Spacing between current transformers or current transformers and neutral bar in cabinet shall not be less than seven and one half inches (7-1/2") between mounting hole centers. Spacing between side of cabinet and center of adjacent transformer or neutral bar mounting hole shall not be less than three and one half inches (3 1/2").

All cabinets used on SINGLE PHASE service over 400 amperes through 800 amperes and THREE PHASE service over 200 amperes through 600 amperes must meet the following additional requirements:

Minimum depth ten inches (10").

LINE SIDE CONDUCTOR BENDING SPACE shall be a minimum of seventeen inches (17"). Bending space shall be measured in a straight line in the direction of the mounting of the compression lug from the center of the outside connector hole in the landing pad to the enclosure wall.

All cabinets used on THREE PHASE services over 600 amperes through 1200 amperes must meet the following additional requirements:

Minimum depth twelve inches (12").

LINE SIDE CONDUCTOR BENDING SPACE shall be a minimum of nineteen inches (19"). Bending Space shall be measured in a straight line in the direction of the mounting of the compression lug from the center of the outside connector hole in the landing pad to the enclosure wall.

Additional Requirements:

1. Secondary conductors from the NWE transformer to the CT cabinet for all installations shall be provided by the customer unless pre-approved by NWE. **Consult with NWE on secondary conductor responsibility.**
2. If customer is required to provide URD conductors from the CT cabinet to the NWE transformer, they shall be run in conduit by the customer and terminated by the customer on the **BOTTOM** terminals of the CT cabinet.
3. For overhead installations, customer shall provide conductors from the top terminals of the CT cabinet to weatherhead. NWE will terminate its conductors at weatherhead.
4. NWE will terminate the secondary conductors within the NWE transformer.
5. Secondary conductor size shall not exceed 500 MCM unless authorized by NWE.
6. If rear entry of a cabinet is required, customer shall consult NWE for additional space requirements.
7. Contact NWE regarding additional entrance equipment to be furnished by the customer.
8. All CT cabinets shall be mounted outside unless authorized by NWE.
9. Customer shall mount meter socket within 20' of CT cabinet and provide a minimum of 1" conduit between the meter socket and CT cabinet.
10. For three-phase services over 1200 amperes, contact NWE.
11. All CT rated meter sockets shall be provided by NWE and paid for by the customer.