

MINNESOTA POWER TRANSITION CABINET SPECIFICATION

INSTRUMENT RATED METERING

ALL METERING AT CURRENTS GREATER THAN 320 AMPS OR VOLTAGES GREATER THAN 240V SHALL BE ACCOMPLISHED USING CURRENT AND VOLTAGE INSTRUMENT TRANSFORMERS INSTALLED IN APPROVED, LISTED BUSBAR TYPE METERING CABINETS. THE CABINET SHALL BE PROVIDED BY THE CUSTOMER.

SELF-CONTAINED METERING AT 480Y/277V MAY BE DONE ONLY WITH THE PRIOR APPROVAL OF THE COMPANY METER ENGINEER. IN THESE CASES, A DISCONNECT SWITCH MUST BE PROVIDED TO DISCONNECT THE SELF-CONTAINED 600V RATED BYPASS TYPE METER SOCKET FROM THE POWER SOURCE. THE DISCONNECT SWITCH WILL BE SEALED WITH A MP SEAL OR LOCK AND THE CUSTOMER MUST AGREE TO ACCEPT POWER OUTAGES FOR METER SERVICE AND TESTING.

INSTALLATION OF OUTDOOR CURRENT AND VOLTAGE INSTRUMENT TRANSFORMERS WITHOUT A METERING CABINET IS DISCOURAGED AND WILL BE ALLOWED ONLY WITH PRIOR APPROVAL OF THE COMPANY METER ENGINEER.

TWO TYPES OF METERING CABINETS ARE COMMONLY USED:

- A 'TRANSITION CABINET' WOULD BE MOUNTED ON A CONCRETE SLAB AND INCLUDE BREAKS IN THE BUSBARS FOR INSTALLATION OF CURRENT TRANSFORMERS. THE CONCRETE SLAB MAY BE SEPARATE FROM THE TRANSFORMER PAD OR THE TRANSFORMER PAD WOULD BE INCREASED IN SIZE TO ACCOMMODATE THE TRANSITION CABINET. THE METER SOCKET WOULD BE INSTALLED ON THE OUTSIDE OF THE CABINET.
- A 'CURRENT TRANSFORMER CABINET' MAY BE MOUNTED ON A BUILDING WALL, POSTS OR OTHER STRUCTURE NEAR THE TRANSFORMER OR POLE. METER SOCKETS WOULD BE INSTALLED ON THE OUTSIDE OF THE CABINET OR MUST BE MOUNTED OUTSIDE OF THE BUILDING IF THE METERING CABINET IS MOUNTED INSIDE THE BUILDING.

IN EITHER CASE, THE SUPPLY CONDUCTORS FROM THE COMPANY WILL BE CONNECTED TO THE TOP OR LEFT SIDE OF THE BUSBARS AND THE CUSTOMER CONDUCTORS WILL BE CONNECTED TO THE BOTTOM OR RIGHT SIDE OF THE BUSBARS.

THE GROUNDED CONDUCTOR BUSBAR SHALL BE BONDED TO THE METERING CABINET PER NEC 250.66.



STANDARDS & SPECIFICATIONS
DULUTH, MINNESOTA

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the laws of the State of Minnesota

Engineer: DANIEL J. SCHULTZ _____

Date: SEPTEMBER 22, 2009 _____

Registration No: 24675 _____

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