Use: Current transformer installations in switchgear, 0-600 V.

1. Applicable Loads and Voltages - Switchgear with a CT (current transformer) compartment may be used at all of the TEP’s service voltages less than 600 V with service entrance ampacities as follows:

   (a) $\Omega$, 3W, 401-800 A (2 CT's)
   (b) $\exists$, 4W, 201-3000 A (3 CT's)
   (c) $\exists$, 4W, 3001 A and larger (3 CT's) (special engineering required)

2. General Procedure - The customer’s switchgear shall contain a CT compartment which is for the exclusive use of TEP or Service Provider. If the switchgear is located in an accessible place outside of the building or in a meter room, the meter socket(s) and test switch may be installed on a panel in the CT compartment door. If switchgear is not located outside of the building or in a meter room (see SR-405, Page 6), the customer installs a continuous metering conduit (min. 2") from the CT compartment to the meter socket(s) (See SR-431). The meter socket(s) must be located outside of the building in an accessible space. Following the TEP’s inspection and approval of the customer’s installation, TEP or Service Provider provides and installs the CT’s, the metering conductors and the meter(s).

3. CT Compartment Requirements - The size and specifications of the compartment shall meet the requirements of SR-432 through SR-439. Different sizes and specifications are required for certain ampacities of the service entrance. The CT compartment cover panels, any blank panels and the pull section cover shall be made sealable by using studs and wing nuts or captive sealing screws. The CT compartment must be barriered from all load bus or load conductors.

   The bus structure in the CT compartment shall provide for mounting of the proper size and kind of CT’s for the ampacity required. The customer shall furnish all bolts, nuts, flat washers and lock washers needed to mount the CT’s. The CT bolts shall be maximum 1/2” and minimum 3/8” in diameter. They shall be fully threaded except for the portion within 3/8" of the bus and shall be long enough to be threaded completely through the nut when a CT with a bar 1/2" thick is mounted with flat and pressure maintaining spring washers.

4. Dual Locking Arrangement for Outdoor or Raintight-Type Switchgear - To facilitate TEP or Service Provider access to meters and/or the CT compartment, the customer shall provide a dual locking arrangement on the doors of outdoor or raintight-type switchgear.
5. Test Switch and Meter Socket Installation - Meter socket(s) are installed and supplied by the manufacturer; 13 terminal socket for three phase, 6 terminal for single phase.

**NOTE: Test Switches are not supplied by the panel manufacturer!**

For single and three phase systems, a test switch and cover or exact equivalent must be provided.

Approved Test Switches

Milbank Cat. No. TS10-0016
Durham Cat. No. 1-1058F-129

Approved Covers

Milbank Cat. No. K-3388-BLK-FL
Durham Cat. No. 7943BC-00

6. Switchgear manufactured according to the requirements of the Electric Utility Service Equipment Requirements Committee (EUSERC) is acceptable. The EUSERC plates relating to installations as described in SR-432 through SR-439 are noted on each SR drawing.