

## **AVEC General Notes for Service greater than 200 Amps**

Please note that you will be responsible for furnishing and installing the required service entrance equipment including grounding to the most current National Electric Code (NEC) standards, a meter socket having automatic circuit closers, and a CT cabinet.

The meter socket shall be type, 13-Jaw, Milbank UC7237-XL or equal for 3-phase services and an 8-Jaw, Milbank UC7235-XL or equal for single phase (see attached). The CT cabinet shall be provided with a means for inspection and sealing by AVEC. AVEC will supply the CTs to your electrical contractor during the construction of the metering installation. The CTs are window type and are approximately 6" wide, 2" thick and 9" deep. It shall be your responsibility to install the meter socket, CT cabinet, the CTs and the service entrance conductors (through the CTs).

The meter socket and CT cabinet shall be mounted on the outside of the building. The meter socket should be mounted directly adjacent to the CT cabinet at 5' to 6' above grade and connected to it with a minimum 1" conduit. The meter socket should not be integral with the CT cabinet cover.

The CT cabinet, meter socket, joining conduit, weatherhead conduit and weatherhead must not contain facilities other than the service conductors and AVEC's metering equipment. It shall not be used for the addition of branch circuits after sealing.

Large motors: To maintain power quality, AVEC's Tariff regulations require motors larger than 4 HP to be provided with reduced voltage and non-simultaneous starting to limit voltage dip. Motors with a rated starting inrush of 34 KV A or less are acceptable without special starters, which would allow up to a 5 HP motor with at least a NEMA code 'G' rating (5.6 to 6.3 locked rotor KV A per HP range per NEMA standard), or a 7.5 HP motor with at least a NEMA code 'D' or better (see attached). Otherwise, motors with full voltage starters that have an inrush starting requirement in excess of 34KV A need to be equipped with reduced voltage or solid state starting controls. Please have your electrical contractor or electrical engineer contact AVEC's engineering department to discuss any of these requirements.