ELECTRIC

GROUP METERING – COMMERCIAL / RESIDENTIAL

METER PACKS & METER STACKS

MAY 2020

GENERAL EQUIPMENT REQUIREMENTS

- Developer/Owner to supply, install, and permanently maintain group metering equipment to serve the total number of lease spaces available per building structure
- Complete manufacturer specifications and drawings for group metering equipment to be installed shall be supplied to City of Weatherford for review and approval prior to purchase and installation of equipment if not identified on the APPROVED GROUP METERING EQUIPMENT LIST
- In accordance with NEC Articles 230.71 and 230.72, where more than six meters may eventually be needed, the multiple metering equipment shall be provided with a main disconnect switch. Installation of additional services to compensate for failure to provide a main disconnect switch shall not be permitted.
- Socket and enclosure shall meet ANSI /UL 414, ANSI C-12.7, and NEMA 250 requirements.
- Main terminal device shall be supplied with a removal and lockable enclosure cover allowing the termination and maintenance of the service conductors
- Two (2) each, 5/8-inch x 8-foot copper clad, driven ground rods with minimum #2 copper strand connected to the main terminal neutral buss bar to each ground rod.
- All compartments of the multiple-meter equipment enclosure shall include locking provisions
- Once inspected and sealed by WMUS, further non-emergency access to the meter enclosure will be denied to the property owner

EQUIPMENT SPECIFIC REQUIRMENTS

- 1∅/3W - 120/240-Vac
- 3∅/4W - 120/240-Vac & 208Y/120-Vac
- Ringless meter socket with locking capability
- Single-Phase In: No Bypass Required (*Horn type bypass optional)
- Three-Phase In: Lever Type Bypass Required
- Single-Phase Out: 5-Jaw
- Three-Phase Out: 7-Jaw
- Residential Branch Meter Socket Rating, 125-amp through 225-amp
- Commercial Branch Meter Socket Rating, 225-amp through 400-amp
- Bus Rating, 200-amp through 1200-amp
- NEMA 3R
- Lexan shield-over line and load meter jaws
- Main breaker disconnects to be supplied and installed per meter socket

APPROVED GROUP METERING EQUIPMENT LIST

- **Eaton (Cutler-Hammer) 1MP Series** (Single Phase In / Single Phase Out)
- **Eaton (Cutler-Hammer) 1MM Series** (Single Phase In / Single Phase Out)
- **Eaton (Cutler-Hammer) 3MM Series** (Three Phase In / Single Phase Out)
- **Eaton (Cutler-Hammer) 35MM Series** (Three Phase In / Single Phase Out)
- **Eaton (Cutler-Hammer) 37MM Series** (Three Phase In / Three Phase Out)
- **Schneider Electric (Square D) EZM Series**

GENERAL SERVICE AND INSTALLATION REQUIREMENTS

- Socket and enclosure shall be selected and installed in accordance with the latest edition of the NEC
- Multiple meters on one building shall be accomplished only via installation of multiple-meter centers (meter packs or meter stacks) appropriate to the service voltage, phasing, and ampacity, factory engineered and constructed specifically to feed and support multiple electric meters
- For commercial electric services fed from pad-mounted or underground transformers, the point-of-delivery shall be defined as at the secondary terminals of the transformer
- All equipment and conductors on the utility side of the point-of-service are controlled, owned, and maintained by WMUS
- All equipment including the electric meter socket(s) and all necessary appurtenances on the commercial property owner's side of the point-of-delivery are controlled, owned, and maintained by the property owner with the sole exception that the property owner shall permit WMUS to place, secure and maintain its revenue meter(s)
- All service conductors fed from underground or pad-mounted transformers shall be supplied, installed, owned, and maintained by the commercial property owner. Service entrance conductors shall not be tapped for any reason
- Service equipment (meter sockets) that requires current transformers, if needed, shall be supplied, owned, maintained by WMUS, and installed by the Commercial Property Owner. The electric meters will continue to be supplied, installed, and maintained by WMUS
- Wiring gutters, troughs, or cabinets between the source and the metering equipment are not permitted to be installed within the WMUS
- The service entrance conduits and conductors shall be sized, provided, installed and maintained by the property owner in accordance with the latest edition of the NEC
- The property owner shall terminate the service entrance conductor set on the approved metering equipment only and request inspection by WMUS Electric Representative prior to energization.
- Service entrance conductors shall not be permitted to be in conduits or enclosures which contain load conductors, except within the approved meter equipment enclosure, where service entrance conductors shall be arranged so that they do not cross over or lie adjacent to load conductors
- Metering equipment shall be installed no less than 30-inches above finished grade, with center of meter sockets no higher than 72-inches above finished grade. Where vertically stacked multiple-meter centers are not used, meter sockets shall be no less than 48-inches above finished grade
- The property owner shall identify and install permanent address tags on each meter socket to correspond with all loads being metered. All labor and energy costs due to misaddressing of sockets or improper splitting of loads, regardless of date of discovery will be the responsibility of the property owner
- All City of Weatherford requirements, adopted codes, ordinances, and permits shall apply