# SECTION 262710 POWER PEDESTAL

## PART 1 - GENERAL

A. Description

This section describes materials, testing, and installation of a power pedestal for utility metering and power distribution.

B. Related Work Specified Elsewhere

1. General Electrical Requirements: 260500.

2. Seismic Restraint for Electrical Equipment: 260548.

3. Panelboards: 262410.

C. Submittals

1. Submit shop drawings in accordance with the General Conditions and Section 013300.

2. Submit manufacturer's descriptive and technical literature.

3. Submit manufacturer's descriptive data including ratings, single-line diagrams, three-line diagrams, and conduit entry restrictions.

D. Operation and Maintenance Manuals

Submit operation and maintenance manuals in accordance with Section 260500.

## PART 2 - MATERIALS

A. Power Pedestal

1. Pedestal shall be floor standing, low profile, 72-inch-high NEMA 3R. The pedestal shall be painted ANSI 61 gray.

2. Doors shall be equipped with Type 316 stainless steel handles with three-point roller bearing latches and hasps for Owner’s padlocks. Provide concrete base with anchor bolts meeting applicable seismic requirements.

3. Provide fluorescent panel light, door switch, GFCI receptacle. Seal openings to prevent entrance of insects and rodents. All busing and wire shall be copper. All wire shall be stranded with locking spade pressure connectors and labeled with clip-on permanent plastic wire markers. All circuit breakers

and dead-font mounted devices (lights and switches) shall be equipped with engraved phenolic nameplates.

4. Doors shall be hinged and shall open to greater than 90 degrees. All dead-front latches shall be 1/4 turn adjustable with 1/8-inch thick latching dog and knurled knob.

5. 120-volt breakers shall be rated 10,000 amperes interrupting capacity.

6. Circuit breakers shall be of the indicating type, providing ON, OFF, and TRIPPED positions of the operating handle. Circuit breakers shall be quick-make, quick-break, with a thermal-magnetic action, except when protecting motor feeders where motor circuit protector breakers shall be used. Circuit breakers shall be the bolted-on type. Do not use tandem or dual circuit breakers in a normal single-pole space to provide the number of poles or spaces specified. All multiple-pole circuit breakers shall be designed so that an overload on one pole automatically causes all poles to open. Circuit breakers shall meet UL and NEMA AB-1 requirements. Breakers shall be Square D, General Electric, Cutler-Hammer, or equal.

7. The luminaires shall be the size and type normally supplied with the specified cubicles. As a minimum, the luminaires shall be 15- to 30-watt rapid start fluorescent-strip type fixture with warm white lamps. A lens or guard shall be furnished and installed over each lamp. The fixture ballasts shall be capable of providing reliable starts with ambient temperatures down to 30 degrees. Ballast noise shall not exceed 50 dBA. Noisy ballasts shall be replaced by and at the Contractor's expense.

8. Metered panel shall include appropriate test blocks and landing lugs per local utility company requirements. All systems shall have barriered raceways to isolate utility company wires from Owner's equipment compartment.

9. Pump control power pedestal shall be Tesco or equal.

10. Provide nameplates as specified in Section 260500.

B. Factory Tests

Subject the pump control power pedestal to a complete functionality test. Simulate remote inputs and outputs and verify correct operation.

PART 3 - EXECUTION

A. Installation

Secure pump control power pedestals rigidly to mounting pads with anchor bolts or Phillips Drill Company concrete anchors. Anchor bolts or concrete anchors shall be Type 316 stainless steel.

B. Field Tests

Operate each breaker and verify that all phases of each load are disconnected.

END OF SECTION