# CITY OF AUSTIN ELECTRIC UTILITY DEPARTMENT

# PURCHASE SPECIFICATION

# FOR

# SEVEN-TERMINAL, 200 AMP, THREE-PHASE METER SOCKET

| DATE | PREPARED BY | ISSUANCE/REVISION | APPROVAL PROCESS MANAGER/ STDS. SUPV. |
|---|---|---|---|
| 01/30/76 | Max Kretschmer | Issuance | |
| 01/25/89 | Robin Kittel | Revision | |
| 01/25/99 | Carlos Tello | Revision | |
| 05/17/99 | Herman Millican | Revision | |
| 08/18/99 | Herman Millican | Revision | |
| 11/30/2009 | Carlos Tello | Revision | |
| 07/13/2010 | Carlos Tello | Revision | |
| 03/10/2011 | Carlos Tello | Revision | |
| 05/24/2011 | Carlos Tello | Revision | |
| 02/5/2013 | Steve Booher | Revision | |
| 07/1/2020 | Abdur Rahman | Revision | Scott Larson |

| *REASON FOR REVISION* | *AFFECTED PARAGRAPHS* |
|---|---|
| Add socket isolation requirement | 3.2 |
| Add preferred lever by-pass | 4.2 |
| Remove letter indentation | 5.1 |
| requirement<br>Update business unit name | 6.1, 6.2 |

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# FOR
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## 1.0 SCOPE AND CLASSIFICATIONS

1.1 The City of Austin Electric Utility Department is hereinafter referred to as Austin Energy (AE). This specification establishes the minimum requirements for 200 amp, three-phase meter sockets.

1.2 The items purchased under these specifications shall be seven terminal, three-phase, meter sockets for overhead and underground services.

## 2.0 APPLICABLE SPECIFICATIONS/STANDARDS

2.1 All materials, construction, and testing shall be in accordance with the American National Standards Institute (ANSI) C12.7, Requirements for Watthour Meter Sockets.

## 3.0 FUNCTIONAL REQUIREMENTS

3.1 The meter sockets supplied under these specifications shall be used to protect external metering connections in electric service installations.

3.2 The meter socket shall be isolated from the meter enclosure.

## 4.0 PERFORMANCE REQUIREMENTS

4.1 The meter socket shall have a 200-ampere, 600-volt capacity.

4.2 Terminal jaws shall be equipped with a by-pass feature operable by use of a by-pass lever, which controls the clamping of the meter blades (Jaw release). By-pass current capacity shall be 200-Amperes continuous. AE prefers a bar type lever by-pass.

## 5.0 MATERIAL REQUIREMENTS

5.1 The enclosure shall be made of 16-gauge galvanized steel or 14-gauge aluminum with baked-on gray finish.

5.2 The enclosure shall have a weatherproof-ringless cover with a latch arrangement for the application of padlock type seals, used to secure enclosure.

5.3 Connectors shall be electrolytic, tin-plated copper or extruded aluminum. The connectors shall be 300 MCM lay-in type connectors. The connector screw shall be cadmium plated with 1/2" external hex head. The ground terminal shall be the double lay-in type arranged so that the meter potential lead may be separately attached. Each connector shall be installed with approved inhibitors.

5.4 Terminal jaws shall be reinforced at the base at a 90-degree bend.

5.5 The insulator shall be composed of rosite, phenolic-fiberglass or equivalent material, which is non-tracking and rated for 600 volts (ceramic material not acceptable).

5.6 The top of the enclosure shall be punched to accommodate a maximum of 2-1/2" approved unit hub. The enclosure shall be equipped with a mounted hub, sized according to order. The hub shall meet latest revision of Industry MSJ7-NEMA standards so it may interchange with several manufacturers' meter sockets.

5.7 Knockouts shall be required for IPS conduit. The knockout arrangement for the enclosure shall be as follows:

* One 1 1/2", 2", 2 1/2" and 3" knockout at the center of the bottom with a 1" knockout on either side.
* One 1/4" knockout for ground wire on the bottom of the enclosure.
* One 1 1/2", 2", 2 1/2" and 3" knockout at the center of the bottom of the back of the enclosure.
* One 1 1/2", 2", 2 1/2" knockout at the bottom of each side of enclosure.

No knockouts shall be above any energized surfaces with meter in place.

5.8 Minimum inside dimensions of the enclosure shall be sufficient to provide ample room for the distribution of the maximum-size conductors for which the socket is intended. Internal wiring space shall be such as to allow line or load conductors, or both, entering either or both ends of the enclosure to be readily routed to the proper terminals.

## 6.0 DESIGN DRAWINGS

6.1 The Vendor shall provide AE Advanced Metering Systems & Engineering, at the beginning of each year in the month of January, drawings for all applicable meter sockets regardless of whether revisions have been made to the drawings. Failure to provide these drawings will result in the rejection of the Vendor from the Qualified Products List (QPL).

6.2 The Vendor shall provide revised drawings to AE Advanced Metering Systems & Engineering as soon as the drawings are revised.

## 7.0 OTHER REQUIREMENTS

7.1 No deviation from this specification on the part of the supplier will be allowed.

7.2 Any items supplied under this specification not in complete compliance with this specification shall be unacceptable.