SUMMARY

This bulletin introduces a new PG&E meter, called a SmartPole meter, approved for use with overhead services connected to communication equipment mounted on wood poles. The SmartPole meter and its enclosure is an alternate method to installing a socket based meter panel. This bulletin also provides ordering information and construction details to properly install a SmartPole meter.

Level of Use: Informational Use

AFFECTED DOCUMENT

Service Planning personnel shall provide non-PG&E personnel with a copy of this bulletin and the documents below, as applicable.

027911, Installation Details for Service to Pole-Mounted Communication Equipment

TD-027911B-001, Antennas on Distribution and Streetlight Poles

TARGET AUDIENCE

PG&E electric departments: Service Planning, Estimating, Restoration, Maintenance and Construction, Inspection, Field Meter Operations

Non-PG&E Personnel: Communication Companies, Electrical Contractors, Installers, and designers

WHAT YOU NEED TO KNOW

1. Use engineering document 027911 and bulletin TD-027911B-001 for the detailed installation and clearance requirements for service to communication equipment. This document provides modified and additional installation requirements for installing service to a SmartPole meter.

2. Install a 2-wire (1-hot, 1-neutral) 1-phase 120 volt service to the SmartPole meter.

3. Do not install a 3-wire 1-phase 120/240 volt service or a socket based meter panel as this is the incorrect wiring, voltage, and meter equipment for a SmartPole metering application.

4. Installation of a NEMA 3R enclosure unit with pole bracket is required. The enclosure with receptacle, pole bracket, and meter strap come together as one unit manufactured by Tesco Advent. See item 12 in Table 1 and Figure 2.
5. Install the SmartPole Meter equipment between 8 to 10 feet above grade, as measured from the bottom of the enclosure, and not exposed to traffic.

6. The disconnect switch for customer equipment load (e.g., Communication Equipment and Backup Power Supply) is required and may be installed above, below, or on the side position of the SmartPole meter equipment. 12 inches of vertical clearance is required when placed above the SmartPole meter. 6 inches of horizontal clearance is required when placed on the side or below SmartPole meter equipment. The clearance distance is measured from the closest edges of any part of the equipment.

7. The installation of all customer equipment and PG&E’s Smart Pole metering equipment must meet all PG&E requirements and CPUC General Order 95 rules.

8. Inspection and approval by a qualified PG&E inspector is required.

**Note:** For locations where an existing 2-wire 1-phase 240 volt secondary system is available the SmartPole meter may be connected. These locations are not common.

### Table 1 Bill of Material to Be Furnished and Installed by the Communication Company

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Conduit, Rigid, PVC, Schedule 80, size as required</td>
</tr>
<tr>
<td>3</td>
<td>Conduit Fittings, as required</td>
</tr>
<tr>
<td>4</td>
<td>Wire, 600 V, Size as Required</td>
</tr>
<tr>
<td>12</td>
<td>Tesco Advent - Enclosure Unit, Catalog # 700 Part # 700-200, includes NEMA 3R enclosure with 3-wire receptacle, internal ground/bond lug, meter strap, and pole bracket. To order use the PG&amp;E material code. For questions contact John Greenewald at (609) 864-3358, <a href="mailto:John.Greenewald@adventdesign.com">John.Greenewald@adventdesign.com</a></td>
</tr>
<tr>
<td>13</td>
<td>Disconnect Switch, for customer equipment (e.g. Communication Equipment and Backup Power Supply), as required</td>
</tr>
</tbody>
</table>

### Table 2 Bill of Material to Be Furnished and Installed by PG&E

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>SmartPole meter, Watthour (SmartMeter), 2-wire 1-phase 120 V or 2-wire 1-phase 240 V</td>
</tr>
</tbody>
</table>
SmartPole Meter for Service to Pole-Mounted Communication Equipment

Figure 1
SmartPole Meter on Wood Pole with 120 Volt 2-Wire Service Connection to Communication Equipment
SmartPole Meter for Service to Pole-Mounted Communication Equipment

- Marine-Grade High Density Polyethylene (HDPE) Hold Down Strap
- Pole Bracket
- Tamper Resistant 1/4" Seal Location
- Riveted Weather Sealed Strap Latch
- Ground / Bonding Lug Located Inside Enclosure
- SmartPole Meter
- 3-Pin Receptacle
- NEMA 3R Enclosure
- Enclosure Bottom Knockout Hole Sizes 1/2" to 1-1/4" NPT

Figure 2
SmartPole Meter, Enclosure, and Pole Bracket
SmartPole Meter for Service to Pole-Mounted Communication Equipment

Figure 3
Wiring Diagram For 3-Pin Receptacle

Figure 4
3-Pin Receptacle
SmartPole Meter for Service to Pole-Mounted Communication Equipment

DOCUMENT APPROVER

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INCLUSION PLAN

The information in this bulletin will reside in a future revision of document 027911, Installation Details for Service to Pole-Mounted Communication Equipment.