

## **Xcel Energy Requirements for Service Upgrades**

New, rewired, altered, or repaired wiring installations intended for connection to the Company's distribution system shall comply with the rules of the Company, the *National Electrical Code*®, and any other codes or regulations in effect in the area served. The Company does not assume the function of inspecting customers' wiring for adequacy, safety, or compliance with the electrical codes. Such responsibility remains with the customer and inspectors.

Definitions per the Xcel Energy Standard for Installation and Use Manual (Blue Book)

### **ALTERED**

Replacing major components or any integral part of a meter socket, current transformer cabinet, riser, mast, line or load side conductor, or relocating electric service equipment, (including storm damage).

### **REPAIRED**

Service equipment in need of any repair such as damaged meter socket, rise, mast (including storm damage).

### **REWIRED**

Upgrading of any existing service equipment including secondary conductors within meter sockets, CT enclosures, cold sequence disconnects, and Primary Metering Installations.

### **Existing Services-Section 4.10.2 in Blue Book**

Before a meter will be installed on an existing service, which has been rewired, altered, or repaired, an inspection release shall be received by the Company from the local Public Authority.

*Note: In locations where there is no local Public Authority, the customer is exempt from inspection, and/or the service has been shut off or disconnected for more than 365 days (1 year), the licensed electrician or wireman shall submit a signed and dated Xcel Energy Electrical Inspection Certificate to the Company's Builders Call Line attesting that the electrical installation has been completed and installed according to the current National Electrical Code®, the Xcel Energy Standard for Electric Installation and Use, and any other applicable codes that apply before electric service is energized.*

### **General Meter Socket Requirements- Section 4.11 METER SOCKETS in Blue Book**

Purchasing, installing, connecting, and maintaining self-contained meter sockets shall be the responsibility of the customer.

All meter sockets shall be Nationally Recognized Testing Laboratory (NRTL) listed and labeled, used in accordance with their labeling, installed per the 2017 National Electrical Code®, or as may be amended, and meet any code requirements that may be enforced by the local Public Authority.

All single and multiple position meter sockets installed on the Company's system shall meet the Company's standards for these devices as listed on the following pages. Company Electric Meter Personnel are instructed not to install a meter at a location where the meter socket does not comply with **all criteria listed below**. Metersockets will be considered un-approved unless they adhere to this criteria.

1. All meter sockets shall be constructed from steel or aluminum. Panels constructed from nonmetallic materials are not allowed.
2. Temporary cover plates for meter sockets shall be constructed from a non-metallic material.
3. All single-phase and three-phase meter sockets shall be rated for either 200 or 320 continuous duty and shall be equipped with an approved lever-actuated, locking-jaw, bypass constructed such that the bypass lever cannot be in the bypass position with the socket cover installed. The bypass handle shall be located on the right side of the meter block when facing the meter block. The only approved bypasses are the Talon (formerly Landis & Gyr) HQ, Square D, Milbank HD (Heavy Duty), Eaton MSL (with "XCH" suffix), and Cooper B-Line.

**Note: Effective April 15, 2015 Blue Handled Eaton MSL (Meter Socket Lever Bypass) singlephase and three-phase meter sockets using a "XCH" suffix are approved for use.**

***Note: Effective October 1, 2014 all temporary single-phase commercial services (e.g. construction temporary), shall have a locking jaw, lever bypass.***

4. All meter sockets shall be equipped with an insulating, track-resistance polycarbonate safety shield.
5. All single-phase and three-phase, three-wire sockets shall have a fifth terminal connected to the neutral within the socket with minimum #16 AWG wire. The fifth terminal shall be installed in the 9 o'clock, rather than the 6 o'clock, position if the meter block design allows. The Company will not furnish or install the fifth terminal.
6. Three-phase, four-wire sockets shall have the seventh terminal connected to the neutral within the socket with a minimum #16 AWG wire.
7. Meter sockets shall have ringless style covers. No screws, studs, or wing nuts are allowed to secure the meter covers.

### **Additional Information**

For more information regarding Xcel Energy's electric installation standards, please reference the full copy of the Electric Installation and Use Manual (Blue Book) by visiting Xcel Energy's online resources at the web address below or by visiting [www.xcelenergy.com](http://www.xcelenergy.com) and searching electric standards.

[https://www.xcelenergy.com/working\\_with\\_us/builders/installation\\_standards](https://www.xcelenergy.com/working_with_us/builders/installation_standards)

Electric metering technical support can also be reached Monday-Friday during regular business hours by calling 1-800-422-0782.