



Annual Report Distribution System Inspection Program 2015

Prescribed by the California Public Utilities Commission (CPUC), General Order 165 (GO 165) establishes requirements for inspection of electric distribution facilities in order to ensure safe and high-quality electrical service. SMUD meets the standard of care laid out in GO 165 via its Distribution Line Inspection Program.

This program includes inspections of SMUD’s distribution system on cycles that meet the guidelines as set forth in California’s Public Utility Commission’s General Order 165 (GO 165). The inspections are grouped in the following three categories: Patrol, Detailed, and Wood Pole Intrusive.

A patrol inspection is a simple visual inspection, of applicable utility equipment and structures, which is designed to identify obvious structural problems and hazards. Patrols inspections are conducted annually on all of SMUD’s electric distribution facilities.

A detailed inspection is one where individual pieces of equipment and structures are carefully examined, visually and through use of a routine diagnostic test, as appropriate, and (if practical and if useful information can be so gathered) opened, and the condition of each rated and recorded. Detailed inspections cycles are every five years for Overhead and Padmount equipment and every three years for underground equipment.

An intrusive inspection involves movement of soil, taking samples for analysis, and/or using more sophisticated diagnostic tools beyond visual inspections of instrument reading. Depending on the age and condition of the pole, inspections are required every 10 or 20 years.

This table contains the results of SMUD’s Distribution Line Inspection Program conducted in the 2015 calendar year.

Table 1 – 2015 Electric Distribution Inspection Summary

Type of Inspections	Due ¹	Outstanding ²
Patrol Inspections	9,296 circuit miles	0
Overhead and Padmounted Detailed Inspections	3,405 locations	0
Underground Detailed Inspections	235 locations	30 ³
Wood Pole Intrusive Inspections	1,830 locations	0

Notes:

- 1) Total inspections due in the reporting period. (Does not include outstanding inspections from prior years.)
- 2) Total inspections required that were not completed in the reporting period. (Does not include outstanding inspections from prior years.)
- 3) The three year detailed inspections for 30 Network Protectors have been rescheduled for completion by Q2 of 2016 to coincide with the installation of Network Protector secondary disconnect switches to facilitate worker safety. In 2015, all 30 protectors were visually inspected for positive nitrogen pressure and open and close functions were verified for each protector.