

Development Advisory Committee

Roseville Electric

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Introduction

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- Background
- Standards
- Amendments to Codes
- Recent Changes to Standards
- Proposed Changes to Standards

Background

- Municipal Owned Utility
- 2 Receiving Stations
- 14 Substations
- Roseville Energy Park
- Roseville Power Plant II
- 343 MW Peak Loading
- 53,390 meters (47,132 residential and 6,258 commercial)



Standards

Internal Standards

- Equipment Ordering Specifications
- Electric Crew Construction Standards
- Specifications for Residential Construction
- Specifications for Commercial Construction
- Design Standards

Internal Standards Review Committees

- Specification Review Committee
- Outage Review Committee Meeting

Standards

Components of Design Standards:

 Loading of Commercial and Residential Transformers

Loading of Mainline Circuits

Design of System for Reliability (Looping)

Codes

As a municipal utility Roseville Electric is required to comply with the following state and national codes:

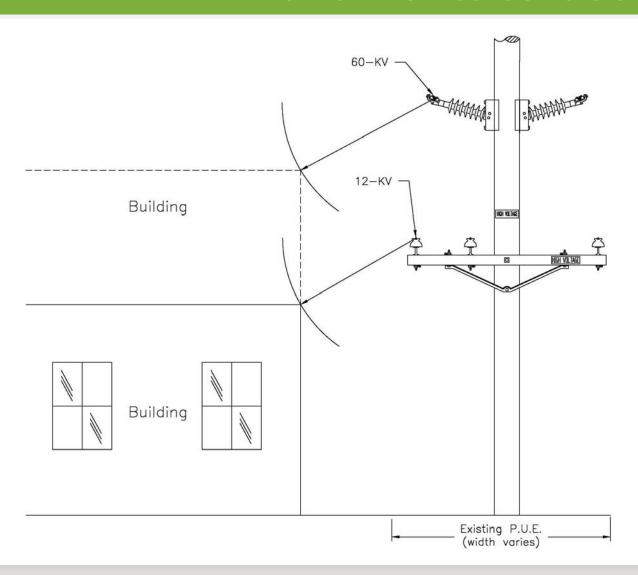
- State, General Order 95 (Overhead)
- State, General Order 128 (Underground)
- State, General Order 165 (Inspection)
- National Electric Code
- National Electric Safety Code
- •Cal-OSHA

Amendments to Codes

Amendments to Codes:

- •6 handle rule for service panels
- •Reduced clearances for crossings to wet utilities
- •15' Clearance Rule to Overhead Conductors

Amendments to Codes



City of Roseville, California

Recent Changes to Standards

Design Standards

- •6" conduit configuration
- Larger ampacity cable leaving substations



Equipment Standards

- Increased Switch Fuse Size to 100amp
- Changed cable insulation from XLPE to EPR
- Cut to Length Program for Mainline Cable

Recent Changes to Standards

Changed Transformer
Oil to Envirotemp FR3
Fluid





 Changed switch elbows from Cooper to Richards manufacurer

Proposed Changes to Standards

Design Standards

- Increase maximum number of residential units on a standard loop
- Use smaller kVa rated transformers in low density residential designs

Equipment Standards

LED Streetlights

