





# Standard for Attachment of SMALL WIRELESS FACILITIES on ROSEVILLE ELECTRIC Utility Power Poles and Standalone Streetlight Poles

 ENGINEERING MANAGER	<b>SMALL WIRELESS FACILITIES ON ROSEVILLE ELECTRIC FACILITIES</b>	<b>CITY OF ROSEVILLE ROSEVILLE ELECTRIC CONSTRUCTION STANDARD</b>
 OPERATIONS MANAGER		DR.NO. <b>13.0</b>
 ENG. TECH SUPERVISOR	DATE <b>04/09/19</b>	
REVIEW COMMITTEE		

Standards for Attachment  
of  
Small Wireless Facilities  
on  
Roseville Electric Utility  
Power Poles and  
Standalone Streetlight  
Poles

Version 1

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# Small Wireless Facilities on Roseville Electric Utility Poles and Standalone Streetlight Poles

## 1. Purpose

1.1. This specification provides an outlines the requirements for the attachment of small wireless facilities (SWF) to facilities owned and maintained by Roseville Electric Utility (REU). Compliance with the following is necessary to install any SWF on REU power poles and streetlight poles. This specification does not include facilities in the city limits of Roseville not owned and operated by Roseville Electric Utility or facilities not located in the right of way.

## 2. Scope

- 2.1. This specification document is intended to provide at a minimum, the appearance and design requirements for SWF installations.
- 2.2. REU facilities for attachment in this specification include wood poles, steel poles and structures, and street light poles.
- 2.3. Small wireless facilities shall not be installed on REU facilities with existing AMI Data Collection Units (for PG&E Gas AMI) or Grid Connected Routers (REU Electric AMI) or those that have been pre-selected for installation of these devices.
- 2.4. Small wireless facilities shall not be permitted inside the confines of any Roseville Electric Utility substation facility.
- 2.5. Pursuant to 47 CFR section 1.1312(e)(2), small wireless facilities are facilities that meet each of the following conditions:

- 2.5.1. The facilities (i) are mounted on structures 50 feet or less in height including their antennas as defined in 47 CFR section 1.1320(d); or (ii)
- 2.5.2. are mounted on structures no more than 10 percent taller than other adjacent structures: or (iii)
- 2.5.3. do not extend existing structures on which they are located to a height of more than 50 feet or by more than 10 percent, whichever is greater;
- 2.5.4. Each antenna associated with the deployment, excluding associated antenna equipment (as defined in the definition of antenna in 47 CFR section 1.1320(d)), is no more than 3 cubic feet in volume;
- 2.5.5. All other wireless equipment associated with the structure, including the wireless equipment associated with the antenna and any pre-existing associated equipment on the structure is no more than 28 cubic feet in volume;
- 2.5.6. The facilities do not require antenna structure registration under part 17 of 47 CFR Chapter I;
- 2.5.7. The facilities are not located on Tribal lands, as defined under 36 CFR 800.16(x);
- 2.5.8. The facilities do not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in 47 CFR section 1.1307(b).

### 3. General Requirements

- 3.1. All SWF installations shall not violate any requirements set forth by the California Public Utilities Commission General Order 95 (GO 95). All applicable State, Federal and local orders must be followed.
- 3.2. All installations must not interfere with the safe working space requirements and must remain climbable for Roseville Electric Utility crews.
- 3.3. Calculations must be provided to REU along with application that demonstrate the ability of the REU facility to safely accommodate the SWF installation.  
  
Calculations and all appropriate drawings must be stamped by the appropriate Professional Engineer registered in California.
- 3.4. Only one SWF installation will be allowed per pole or streetlight.
- 3.5. SWF installations shall not be placed on an REU power pole that has a line switch, fuse cutouts, capacitor bank, transformer, or riser already installed.
- 3.6. Wireless communication facilities should be painted color(s) which are most compatible with their surroundings.
- 3.7. SWF antenna radiation must at all times be within FCC and US OSHA limits.
- 3.8. The SWF shall be designed and maintained to minimize visual, noise and other impacts on the surrounding community.
- 3.9. The SWF shall not obstruct vehicular or pedestrian travel or any public utility installation.
- 3.10. All SWF installations shall be designed and located in such a manner as to avoid adverse impacts on traffic safety including sight distance requirements, traffic

control and sign visibility, Americans with Disabilities Act requirements and minimum road clearances.

3.11. SWF installations shall not bear any signs or advertising devices other than certification, warning or other signage required by law or permitted by the City of Roseville.

3.12. Where applicable, legally required lightning arresters and beacons shall be included when calculating the height of facilities such as towers and monopoles.

3.13. If new or replacement poles are proposed in the public right of way, the following requirements also apply:

3.13.1. A justification analysis must be submitted along with the application that demonstrates why the existing infrastructure cannot be utilized.

3.13.2. An engineered study demonstrating the minimum safe working distance from the owner's active equipment must be provided. In addition, the minimum safe working distance must be clearly posted on the equipment.

3.13.3. New poles shall be designed to resemble existing poles in public right of way

3.13.4. All new poles shall be located such that there will be a minimum of three feet of native soil between the edge of any existing joint utility trench and the edge of the new utility pole or base.

3.13.5. Aesthetic requirements must follow the requirements listed in sections 4 and 5 of this specification.

3.14. Lighting requirements are as follows:

3.14.1. No facility may be illuminated unless specifically required by the FAA or other government agency.

3.14.2. Any required lighting shall be shielded to eliminate to the greatest extent possible, impacts on the surrounding neighborhoods.

3.14.3. No facility shall bear any signs or advertising devices other than certification, warning or other signage required by law or permitted by the City.

3.15. If backup generation is required, the following requirements apply:

3.15.1. Backup generators shall only be operated during periods of power outages, and shall not be tested on weekends or holidays or between the hours of 7PM and 7AM.

3.15.2. At no time shall equipment noise from any facility exceed the exterior noise levels set forth in the City of Roseville Municipal Code (see Chapter 9.24)

3.16. All installations must comply with the latest editions, errata, corrections and amendments to the following standards:

3.16.1. City of Roseville Municipal Code

3.16.2. California Electric Code

3.16.3. CPUC General Order 95

3.16.4. National Electric Safety Code – NESC

3.16.5. United States Department of Labor Occupational Safety and Health Administration – Telecommunications 1910.268

#### 4. Aesthetic Requirements for Streetlight Poles



- 4.1. All wiring must be installed within the streetlight pole and must not be visible.
- 4.2. No new overhead wire shall be strung for the proposed SWF installation.
- 4.3. A radome or other similar device shall be used to conceal the antenna cable connections and other hardware.

5. Aesthetic Requirements for Wood or Steel Power Poles

- 5.1. All wiring must be installed within conduit and must not be visible.
- 5.2. All conduit required for the SWF installation must be set on standoff brackets.
- 5.3. No new overhead wire shall be strung for the proposed SWF installation.
- 5.4. A radome or other similar device shall be used to conceal the antenna cable connections and other hardware.

6. Electrical Supply Requirements

- 6.1. Applicants must provide a dedicated power supply to their facilities. Existing supply to streetlights may not be used to power the new SWF installation.
- 6.2. Equipment must be properly grounded in accordance with Roseville Electric and CPUC General Order 95. Applicants may not bond to Roseville Electric ground wire.
- 6.3. Applicants will be responsible for installing all necessary underground facilities and service wire from a Roseville Electric designated service/secondary point.
- 6.4. All SWF installations must be equipped with an appropriate visible disconnect means that is clearly identified and is accessible to Roseville Electric personnel.

7. Permitting

7.1. (Future)

8. Safety and Tagging

8.1. (Future)

Document Revision History

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