

**CPS Energy**  
**DRAFT - Wireless Installation Standards Outline**

**Section V. Specification for Wireless Installations**

**Preamble.** Except as otherwise provided in this Section V (Specifications for Wireless Installations), all the requirements of Section II (General Administrative Provisions) and Section III (General Technical Provisions) apply to Wireless Installations.

**A. Administrative Requirements - (Will require revisions to Section II to include Wireless)**

1. Specific Exemptions from Requirements of Section II (General Administrative Provisions). The Following Provisions of Section II Do Not Apply to Wireless Installations
  - a. Section II.I.
  - b. Other Considerations
2. Definitions (New & Revised - To be incorporated into Section II.A.1)
3. Emergency Contact for Wireless Installations
4. Licensing and FCC Compliance

## **B. General Technical Requirements – Wireless Installations**

1. Specific Exemptions from Requirements of Section III (General Technical Provisions). The Following Provisions of Section III Do Not Apply to Wireless Installations
  - a. Section III. ???
  - b. Other Considerations
2. Safety
  - a. NESC/NEC (as applies to Wireless Installations)
  - b. FCC OET 65 (Maximum Permissible Exposure)
  - c. Warning Signage Requirements
3. Antenna
  - a. Type, Size and Quantity
    1. Licensed Frequency
    2. Licensed Entity
  - b. Attachment Position and Defined Space
4. Riser Cable
  - a. Type, Size and Quantity
  - b. Attachment Position and Defined Space
5. Radio Equipment
  - a. Type, Size and Quantity
  - b. Attachment Position and Defined Space
6. Cabinets
  - a. Type, Size and Quantity
  - b. Attachment Position and Defined Space
  - c. Ground Installations
  - d. Private Premises Installations

7. Conduit Requirements

a. Location of Conduit

8. Backhaul Service

a. Wireline

1. Self-Provisioned
2. Third-Party Provided
3. Type of Backhaul Facility
4. Point of Demarcation

b. Wireless

- i. Type, Size and Quantity
- ii. Attachment Position and Defined Space
- iii. Self-Provisioned
- iv. Third-Party Provided
- v. Point of Demarcation

9. Electric Service

a. Equipment Subject to Electric Service

1. Compliance with CPS Energy's Electric Service Standards
2. Application for Electric Service
3. Technical Drawings of Equipment Subject to Electric Service
4. Conditions Precedent Prior to Electrification of Equipment
5. Electric Specifications for Equipment
6. Unmetered Electric Rates

b. Point of Demarcation

c. Shut-Off Switch in Lieu of Meter

d. Backup Power

## 10. Bonding

### a. Existing Ground Present

1. No Sharing of CPS Energy Grounding Facilities

### b. No Ground Present

## 11. Radio Frequency Interference

### a. Interference Testing

1. Initial Installation
2. Equipment Upgrades or Replacements
3. Interference Testing Report

### b. Remedies

1. No Wireless Installations within Certain Distance from Substations
2. No Interference Permitted
3. Notice of Interference
4. CPS Energy Right to Shut-Off Interfering Equipment
5. Process for Equipment Shut-Off and Reinstatement

## 12. Pole Load Analysis

### a. Report Specifications

## 13. Technical Drawings Standards Adopted

### a. ANSI/SCTE Graphic Symbols Drawing Standards

## 14. Other Considerations

## **C. Access to CPS Energy Poles for Wireless Installations**

1. Access to Street Light Poles
  - a. Installations Allowed on Side of Pole
    1. Diagram of Wireless Installation
  - b. Pole Top-Mounted Antenna Installations Allowed
    1. Diagram of Wireless Installation
2. Access to Utility Distribution Poles
  - a. Pole Top Access Prohibited
  - b. No Pole Mounted Wireless Installations in Communications Space of Pole
    1. Acceptable Mid-Strand WiFi Installations
      - a. Limits on Size and Weight of Equipment
      - b. Only One WiFi Access Point between Two Poles
      - c. Wired Attachments Supporting WiFi Access Point Require More Than One Foot of Pole Space
      - d. Installations Subject to Pole Load Analysis
      - e. Installations Subject to Pole Replacement as Applicable
    2. Conditions for Mid-Strand WiFi Installations
      - a. Mid-Strand Equipment Installation Is Not “Overlapping”
      - b. WiFi Installation Is Supported By Overlashed Wire Attachment
      - c. Subject to One-Touch Simple Transfer Process
      - d. Installation of Shut-Off Device Accessible to CPS Energy
      - e. Clearance Requirements
      - f. Installation Must Comply with CPS Energy’s Electric Service Standards

g. Existing Installations Must Be Brought into Compliance with Wireless Standards within [\_\_] Months

h. Other Considerations

3. Access to Steel and Concrete Poles

a. Same Prohibitions Applicable to Utility Distribution Poles

b. Limited to Clamp Mounted Installations

c. No Riser Cables

d. Other Considerations

4. CPS Energy Pole Access Reservations

a. Only One Wireless Installation Per Pole

b. No Reservation of Poles

c. Only Access to Every Fifth Pole?

d. CPS Energy Reserves Right to Deny Pole Access

1. Safety Reasons

2. Reliability Reasons

3. Future Planning

4. Congestion on Pole

5. Legal or Regulatory Reasons

e. Other Considerations

5. Compliance with Local Laws

a. Local Permitting Requirements

b. Right-of-Way Construction Permits

c. Local Historic Preservation Requirements

d. Others

## **D. Pole Application Process for Wireless Installations**

### **1. Eligibility**

- a. Municipal ROW Authority – An Attaching Entity installing wireless equipment of any nature shall provide CPS Energy a Local Government Authorization Form executed by the executive officer of every local government in which the Attaching Entity provides wireless-based service stating that the Attaching Entity has authority to use public rights-of-way for Wireless Installations. The Local Government Authorization Form is attached as Appendix [\_\_].
- b. Execution of Wireless Installation Pole License Agreement – Reference to Section II.C.1.
- c. Owner of Wireless Facilities Must Be Contract Licensee – Reference to Section II.H.8.

### **2. Application for Permit Required**

- a. Wireless Installation Pole Permit Application Form – Any Wireless Installation utilizing CPS Energy’s Facilities shall be installed pursuant to a Permit issued following approval of a Wireless Application. A Wireless Installation installed without a Permit shall be unauthorized. The Wireless Application is attached as Appendix [\_\_].

#### **1. Contents of Application**

- a. Purpose of Application
  - i. Initial Installation
  - ii. Equipment Upgrade
  - iii. Ground Equipment
  - iv. Pole Mounted Equipment
  - v. Mid-Span Equipment
- b. Identify Local Jurisdiction Where Pole Is Located
- c. Identify Location of Pole

- i. GPS Coordinate, CPS Energy Pole Number, and Street Address
- d. Picture of Affected Pole(s)
- e. Identify Type of Wireless Installation
  - i. Small Cell Installations – Wireless Provider Owned
    - 1. Pole Side-Mounted Installation
      - a. Type of Pole
    - 2. Pole Top-Mounted Installation on Street Light Pole
  - ii. Small Cell Installations – Facilities Provider Owned
    - 1. Identify Spectrum Owner/Lessee
    - 2. Pole Side-Mounted Installation
      - a. Type of Pole
    - 3. Pole Top-Mounted Installation on Street Light Pole
  - iii. Mid-Span WiFi Installations
    - 1. Identify Server, Switching, and Routing Equipment Supporting WiFi Access Points
    - 2. Identify Location of Supporting Equipment
    - 3. Identify Cable Source Electrifying WiFi Access Points
    - 4. Identify Corresponding Overlapping Application
    - 5. Identify Location of Shut-Off Device (or Method)
  - iv. DAS Neutral Host Installations
    - 1. Identify Spectrum Owners/Lessees



2. Identify DAS Route
  3. Identify Number of Poles
  4. Identify Number of Nodes
  5. Identify Corresponding Wired Permit Application for Fiber Installation
  6. Identify Location of Equipment Hut
- v. Others
- f. Copy of Manufacturer Wireless Equipment Specifications
  - g. Scale Technical Drawings of Wireless Installation
  - h. Identify Backhaul Service
    - i. Type of Wired Service and Provider
    - ii. Type of Wireless Service and Provider
  - i. Identify Demarcation Points
    - i. Demarcation Point for Backhaul Service
    - ii. Demarcation Point for Electricity Service
    - iii. Identify Shut-Off Device in Lieu of Electric Meter
  - j. Pole Load Analysis
  - k. Interference Test Report
  - l. Make-Ready Requirements
    - i. Yes
    - ii. No
  - m. Application Fee
  - n. Signature
  - o. Compliance with Local Requirements – Attestation
  - p. Installation in Historic or Special Purpose District
    - i. Applicable Requirements

q. Other

3. Maintenance Notification – No Application Required (CPS Energy willing to pull this section provided stakeholders agree to installation of shut-off device they can use to shut-off electricity.)

a. Scheduled Maintenance – Date and Time

1. Advance Notice Period

b. Unscheduled Maintenance – Date and Time

1. Advance Notice Period

c. Equipment Malfunction – Date and Time

1. Real-Time Notice

2. Post-Event Notice

d. Request to De-Energize Facilities

1. Process

2. CPS Energy Response

3. CPS Energy Fee

4. Make-Ready Engineering Requirements – Reference to Section III requirements.

a. Applicant Responsible for Make-Ready Engineering

b. Application Submitted with Make-Ready Engineering

c. Contractor Responsibilities for Make-Ready Construction

d. Payment of Make-Ready Fees

e. Other

5. Time Period for Review and Processing of Application (New Shorter Time Period Processing Wireless Installations – Not Applicable to Corresponding Attachment or Overlapping Application)

a. CPS Energy Review of Application

b. Process Applicable to Application Not Subject to Make-Ready

- c. Process Applicable to Application Subject to Make-Ready
  - d. Other Considerations
- 6. Make-Ready Electrical Space Construction (Reference to Section IV)
- 7. Make-Ready Communication Construction – One Touch Transfer (Reference to Section IV)
- 8. Make-Ready Communication Construction – Complex Transfers (Reference to Section IV)
- 9. Notice of Installation Completion and Acceptance
  - a. Elements of Installation Completion
  - b. Request for Electrification of Equipment
  - c. Acceptance Testing
  - d. Starting Date of Operation
  - e. Other
- 10. Post Construction Inspection (Reference to Section IV)

## **E. Wireless Installation Pole Rates**

1. Option One – (FCC Rate) X (Space Occupied on Pole)
  - a. Pole Mounted
  - b. Mid-Span Installation
2. Option Two – Rate per Type of Pole
  - a. Utility Distribution Pole
  - b. Street Light Pole
  - c. Steel Pole
  - d. Pole Top Installations
3. Option Three – Rate Based on Location of Pole
  - a. Downtown Poles
  - b. Commercial Parks
  - c. Highway Corridors
  - d. Residential Neighborhood Poles
  - e. Historic District Poles
  - f. River Front Poles
4. Option Four – Niagara Mohawk Formula
  - a. Pole Top Fee
  - b. Pole Side-Mounted Fee
5. Other Considerations

## **F. Other Considerations**

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## **VI. Appendices (Revisions / Additions to Section VI)**

- A. Local Government Authorization Form (to be added)**
- B. Wireless Attachment Application (to be added)**
- D. Specifications for Wireless Installations (to be added)**
- E. Mid-Span WiFi Installation Clearance Requirements (to be added)**
- G. CPS Energy Pole Loading Requirements (to be added)**
- H. CPS Energy Schedule of Pole Attachment Rates, Fees, and Charges (to be added)**

### **Legal Issues under Consideration**

1. No Third-Party Beneficiaries
2. Sub-Licensing of Poles Not Permitted
  - a. Small Cell Installations – Facilities Provider Owner
  - b. Mid-Span WiFi Installations
  - c. DAS Neutral Host Installations
3. No Third-Party Wireless Installations
4. No Assignment without CPS Energy's Consent