



**WELCOME**

**CPS Energy  
Quarterly Pole Attachment  
Workshop**

**May 27, 2021**

Confidential Information Property of CPS Energy

# Safety Message of the Day

## Tips for great communication in the workplace

- 1-on-1s
- Weekly team meetings
- Follow up with written notes and clear set of expectations
- Create a safe space for your team to communicate
- Keep feedback constructive



# Agenda

## 1. General Topics

- Pole Attachment Contractors
- Pole Attachment Standards Update
- Annual Pole Attachment Invoices

## 2. Work Manager

- New Work Manager Update “How to”

## 3. Wireline Attachment

- Wireline Standards

## 4. Wireless Attachments

- GIS Design Examples
- Wireless Antenna Violations

## 5. Downtown/Residential Streetlight Project Updates

## 6. Questions



# Sr. Director, Distribution Engineering



- Previous Director, Rick Lopez, retired from CPS Energy after 30+ years of service in December
- Brian D. Bartos, P.E. has accepted the position of Sr. Director, Distribution Engineering in February 2021
- Brian previously held the position of Sr. Director, Underground and Integrated Operations from 2017-2021
- Previous to that, Brian held the position of the Pole Attachment Manager, Brian holds a tremendous amount of knowledge of the program

# GENERAL TOPICS

# Approved Pole Attachment Contractors



- Engineering companies are currently at our maximum approval limit
- Engineering companies seeking approval will be placed on a waiting list
- CPS Energy will conduct quarterly reviews of companies to remove any companies not submitting pole attachment applications
- Companies removed will have to re-submit a letter from their Attaching Entity stating they will be doing work for them

Engineering	
1. Aeparmia Engineering	★★★
2. Amdocs	★
3. ArchComm, LLC	★
4. C&D Utility Consulting, LLC	★★★
5. Cobb Fendley	★★★
6. Davey Resource Group, Inc.	★★★
7. DeBauche Comm. & Cons. Serv., LLC	★
8. Fullerton	★★★
9. LandDev Consulting, LLC	★★★
10. LJA Engineering	★★★
11. Nexius Solutions, Inc.	★★★
12. PhaseLink Utility Solutions	★★★
13. Precision Design & Drafting Inc.	★★★
14. Quanta Utility Engineering Services	★★★
15. Telecom Staffing, LLC	★★★
16. TDC2, LLC	★
17. Texas Utility Engineering, Inc.	★★★
18. TRC, Inc.	★★★
19. TrueNet Communications	★
20. Teo Engineering Organization LLC	★
21. Jacobs Telecommunications, Inc	★
22. Rocky Mountain West Telecomm	★

★ Option 1: Pole Loading Analysis (PLA) & Application submittal

★★ Option 2: Make ready engineering

★★★ Option 3: Pole Loading Analysis (PLA), Application submittal & Make ready engineering

# Pole Attachment Services -Electrical Make Ready Training Classes

- In 2020, CPS held 2 trainings with 3 contractors in each class
- Future Proposed Trainings –
  - October 25, 2021
  - Duration: 5 days – Mon - Fri
  - Location – 4514 Frank Bryant
- For more information please email [poleattach@cpsenergy.com](mailto:poleattach@cpsenergy.com)



# Pole Attachment Standards V5.0 Updates

*CPS ENERGY*

## POLE ATTACHMENT STANDARDS

- Pole Attachment Services continues to work diligently with stakeholders to ensure the Pole Attachment Standards improve operations for all Attaching Entities
- Pole Attachment Services released the Pole Attachment Standards V5.0 on January 8, 2021
- Pole Attachment Standards V5.0 includes the downtown underground fed streetlight and the residential underground fed streetlight





# Annual Pole Attachment Invoice



- On June 15, 2021, CPS Energy will be sending the 2021 Pole Attachment Invoices to each Attaching Entities having permitted Wireline, Wireless and Banner Attachments
- CPS Energy is required to use the FCC telecom pole attachment rate formula to set the annual rates



# New Internal GIS Web Link



<https://gisweb.cpsenergy.com/Web/index.html?viewer=GISViewer>

The screenshot displays the GIS Viewer web application interface. At the top, there is a dark blue header with the CPS Energy logo on the left, the text "GIS Viewer" in the center, and a "Global Search..." input field on the right. Below the header is a navigation menu with tabs for "File", "Home", "Map", "Tools", and "Tracing". A secondary menu contains icons for "Layer List", "Filter", "Upload Data", "Add Layers", "Layer Catalog", "Linked Maps", and "Time Slider". The main content area is a map of an urban area with various utility layers overlaid in green and blue. A search bar with the text "I want to..." is positioned above the map. On the left side, there is a "Layers" panel with a "Filter Layers..." input and a "Filter" button. The panel lists several utility layers with checkboxes: "Electric" (checked), "Primary Meter", "Bus Bar", "Transformer", "Voltage Regulator", "Riser", "Street Light", "Support Structure", "SubStation", "Underground Structure", "Primary", "Secondary", "Conduit System", "Transmission", and "Landbase". The map shows streets such as "RIVERWALK ST", "NACIONAL ST", "E NUEVA ST", "KING PHILIP ST", "S ALAMO ST", "E MARKET ST", "CONVENTION WAY", and "HENSFAIR ST". A scale bar at the bottom indicates distances up to 200 feet. The bottom right corner of the map area contains the text "BCAD, Texas Parks &amp; Wildlife, Esri, HERE, Garmin, INCREMENT P, USGS, EPA, USDA".

# WORK MANAGER

# Work Manager System Demonstrations



- CSI Team has two demonstrations of some general use & navigational functions within ARM 2.2
- General Navigation Basics → Navigation → Basics WebEx
- General Navigation Views and Tasks → General Navigation → Views and Tasks WebEx

A screenshot of the CPS Energy Connect web application showing the 'Work Request Detail' for work request 40173800. The interface is displayed in a browser window titled 'WR Detail 40173800 - Internet Explorer'. The user is identified as 'User Id: JMLOPEZ, User Name: JESSE M LOPEZ, Type: Company'. The main content area is titled 'Work Request Detail 40173800' and includes buttons for 'Attachments', 'Copy', 'Refresh', 'Save', and 'Close'. The 'General' tab is active, showing various fields for the work request. The left sidebar contains navigation icons for home, search, and settings. The top navigation bar includes the 'ARM' logo and a hamburger menu icon.

General	
*WR No	40173800
*WR Status	APPR
Contact Name	
Contact Phone	( 999 ) 999 - 9999 x 99999
*WR Type	PALMR
*Classification	CAPITAL
*Address	2787 WINFIELD SCOTT RD. FORT SAM
Directional Address	
*Priority	C3
*Requested Completion Date	05/18/2018
Customer Ready Date	06/10/2019
Earliest Appointment Start	MM/DD/YYYY
Description	TWC#1594790 - MR
Latest Appointment	MM/DD/YYYY
*Local District	UCE
WR Owner Name	CCA
*Work Group	CPS
Design Estimate	2319.20

# Designer Responsibility

## The Designer (design company) is the owner of the Work Order and GIS Design from creation through AsBuilts

- Make sure designer's initials are indicated under Work Request Owner to ensure delivery of emails as tasks are completed




WR No:	40358525	WR Type:	PALMR
WR Name:	[REDACTED]		
Owner:	NK2		KYLE NEALON

A red arrow points from the 'WR No:' label to the 'Owner:' field.

# GIS Design Polygon Example



The Designer must check for any other work order polygons in GIS to ensure no other jobs are replacing the pole or poles your customer is proposing attachments

 <b>CONSTRUCTION COMPLETED</b> DATE _____ CITY _____ CIR _____  FERG MAP PAGE 583 - B1	<b>OVERHEAD ELECTRIC DESIGN</b>		PROJECT#	E-0070										
	40352965	Application Name and Number												
	<b>DESIGNER</b>	Phone #	10/14/2019	Job Description:										
	K. NEALON	816-414-1171		MAKE READY (1)										
	1 OF 1		ADDRESS:											
	ESD		332 W. SUNSET RD											
			SAN ANTONIO, TX											
	X	2136448.000000	Y	13732284.000000	A023	1" = 100'								
	<table border="1"><tr><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></table>						<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
ESTIMATED MAN HOURS:					SKETCH SIZE 11 X 17 1" = 100'									

# WIRELINER ATTACHMENTS

# Communication Fiber Placement

## Attachers shall place their fiber on the same side of the pole as CPS Energy Fiber

- Failure to do so, causes a safety issue for CPS Energy linemen that have to climb these poles
- Attaching to the same side of the pole allow for a smoother transition when replacing poles





# Communication Transfers

- CPS Energy continues to stress the importance of communication transfers
- CPS Energy receives numerous complaints per year regarding double wood and braced poles
- These issues pose huge safety concerns for CPS Energy
- The violation pictured to the right was reported to the Public Utility Commission of Texas which required an official response from CPS Energy



# Communication Make Ready

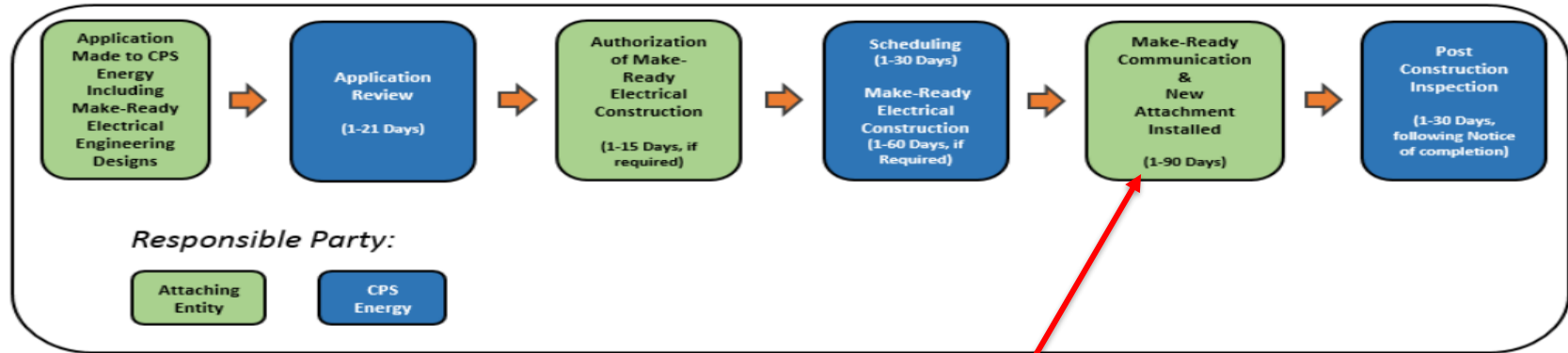


Figure B: Competitive Provider – Standard Process for Wire Attachments

Note: Even though a "Notice to Proceed (NTP)" has been issued to the Attaching Entity, ALL communication make-ready must be completed prior to attaching the new pole attachment (wireline or wireless)

# Process Standards

- Attachers must inform CPS/Contractors when fiber construction is complete
- Auto-post-fiber-inspection will be implemented if no post construction communication has been sent to EN Engineering and/or TRC
- Wireline routes should follow existing CPS Energy pole lines



# Temporary Attachment Form (B7) & Waiver Request

- Approved engineering company must coordinate site meeting with EN Engineering and/or TRC
- Pole application must be submitted with the proposed attachment height for each temporary attachment for CPS Energy to review
- A **signed** temporary attachment request must be submitted with the pole attachment application
- Waivers must be submitted with the pole attachment application or the application will be deemed incomplete and rejected
- All requests must meet NESC clearances in order to be approved for temporary attachment

# AT&T Approval Letter



This applies to AT&T owned poles

- AT&T approval letter must be saved in Work Manager Task 2360 as "AT&T Pole Replacement Approval"
- Work Request detail must reflect Project "E-0069" in Work Manager

February 06, 2019

Extenet Systems Inc.  
Don Couch  
Ronnie Teaff

RE: Occupancy Permit

Customer Application: SA015  
Occupancy Permit: 2018-CS-TX-010175  
Location: SAN ANTONIO, TX 78205  
Project Number: A01G7Y2  
Permit Date: 2/5/2019

AT&T has confirmed that the structure(s) is available for your use.

This is your approved occupancy permit. You have 12 months to complete your construction work.

Once your work is completed please fill out and return the attached Applicant Notice of Completion form and send it to BRIAN BEDNARZ, who can be reached on 210-729-8410. BRIAN BEDNARZ will make the necessary arrangements to have the post inspection work completed.

Rental will be billed on Extenet Systems Inc. account for Texas. Per your occupancy request, our records will reflect an occupancy of the following.

Structure Type	Permit Quantity
Pole	1

If either the permit quantity or billing account is not correct, please notify us immediately, via email at: BB1306@att.com. Any unreported or unauthorized occupancy will be immediately subject to the appropriate penalty fines and removal actions as described in the associated tariff or agreement for the state involved.

Identification tags are required on your facilities at each point of contact (at each pole or manhole). The failure to install these identification tags may result in the inability to notify you in the event of a major failure or structure relocation.

Thank you,

BRIAN BEDNARZ  
Manager - Structure Access  
Attachments

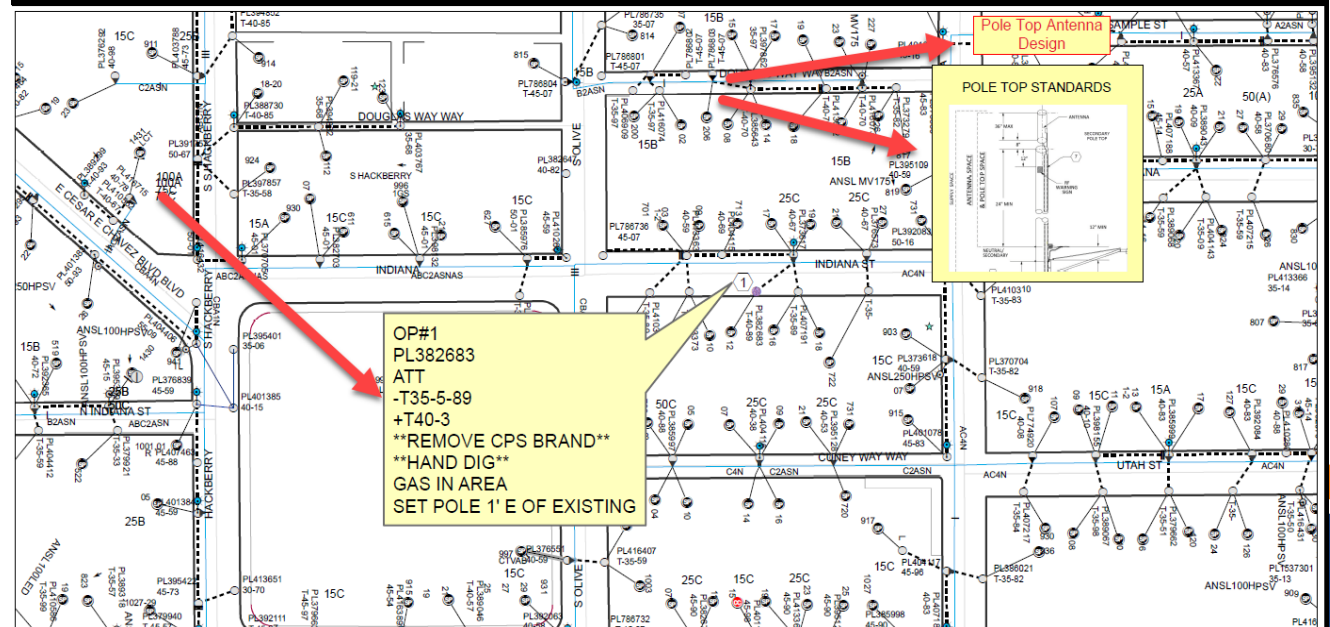


# AT&T Pole Replacements



	<b>OVERHEAD ELECTRIC DESIGN</b> PROJECT # E-0069 40280542   WIRELESS 714 INDIANA ST #ANT RUIEBCHEN   210-879-2915   3/14/2019 JOB Description: WIRELESS EXTENT MAKE READY(1)	<b>Seal</b> NO SEAL REQUIRED	<b>Outages</b> NO OUTAGES REQUIRED	<b>Locates &amp; Permits</b> CPS APPLICATION AND PROJECT MAP ATTACHED AT TASK 2360 IN WMIS NOTIFY COSA CLERK'S OFFICE PRIOR TO CONSTRUCTION OF PROJECT BY CALLING (210) 207-8949	<b>Environmental Notes</b> ENVIRONMENTAL CHECKLIST & APPROVAL ATTACHED AT TASK 2360	<b>Miscellaneous Notes</b> CONTACT DESIGNER 48 HRS PRIOR TO CONSTRUCTION AT (210) 879-2915 OR RUIEBCHEN@TXUE,INC.COM OR SUPERVISOR MGARCIA@CPSENERGY.COM	
	CONSTRUCTION COMPLETED BY: _____ DATE: _____ COUNTY: _____ FERG MAP PAGE 617-B7	ADDRESS: 714 INDIANA ST SAN ANTONIO, TX 1 OF 1 ESD X 2136889 Y 13896752 Z454 1" = 100' ESTIMATED MAN HOURS SKETCH SIZE 11 X 17 1" = 100'	<b>Associated Work Orders</b> WR#40253731	<b>Field Meeting Notes</b> ATT WORK REQUIRED AT OP#1	**HAND DIG OP#1** GAS IN AREA SET POLE 1' E OF EXISTING		

AT&T pole change out must be on "Work Request Project Type E-0069"



# WIRELESS ATTACHMENTS





# Wireless GIS Design Notes

## Wireless Design Callouts – Must show heights of lowest controlling electrical

- Lowest electrical must be shown to ensure all NESC clearances are met
- Attaching Entities must maintain 40" clearance from lowest CPS electrical

PL136852

-P453

+P552

TRANSFER LUMLED250OHS3  
AT THE SAME HEIGHT  
AS EXISTING

RELOCATE AS FOLLOWS:  
PRIMARY XARM: 38'0"  
SECONDARY: 29'6"  
NEUTRAL: 28'6"

T: ATT 24'6", 23'6"

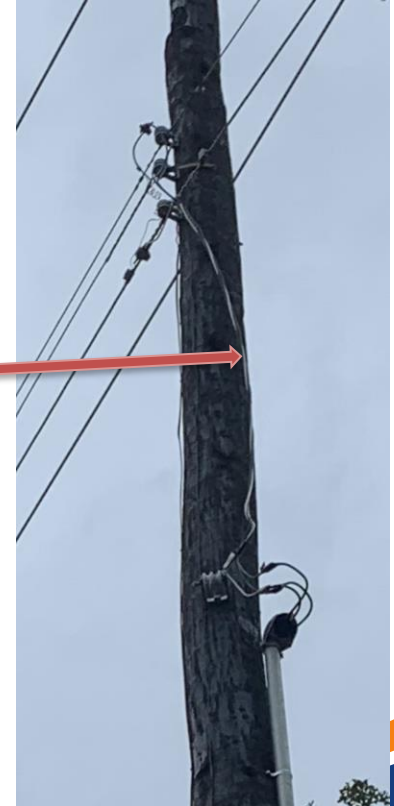
T: CHARTER 22'6"





# Wireless Antenna Installation Violations

- EN Engineering and/or TRC are working with the wireless providers and customer engineering to start making the necessary adjustments on the weather head violations
- Clearance violations due to weather head installed too low
  - 40" clearance not met to the communication companies
- Communication companies fiber make ready needs to be done prior to the wireless antenna installation, using the one-touch process for simple transfers



# **DOWNTOWN DECORATIVE STREETLIGHT PROJECT UPDATE**

# Downtown Underground Fed Streetlights Update

## Team 1 update (construction completion date)

- Site 1 – Complete

## Team 2 update

- Site 1 – Complete

## Team 3 update

- Site 1– Complete

**Verizon (Modus) completed the mock up at our EDS training yard on February 5, 2020**



Final Mock Up



# Verizon Site 1 - 205 Alamo Plaza



# Verizon Site 1 - 205 Alamo Plaza Meter/Disconnect





# AT&T Site 1 – 123 West Market Street



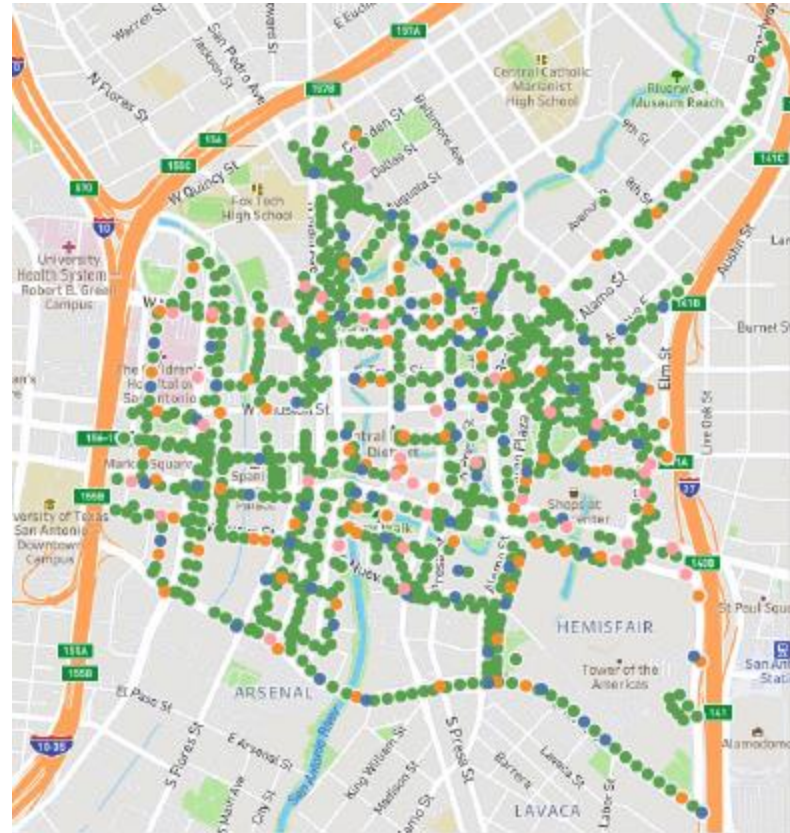
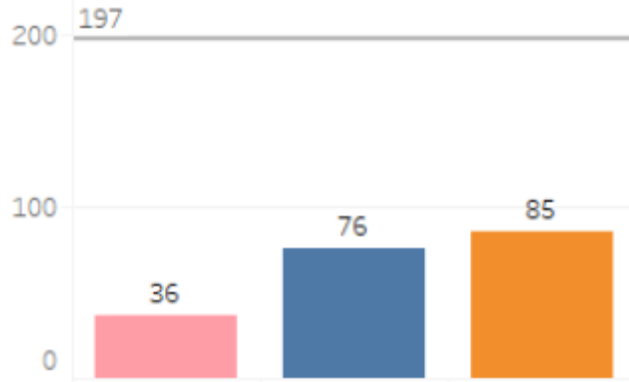
# AT&T Site 1 - Meter/Disconnect



# T-Mobile Site 1 – 321 E Nueva St



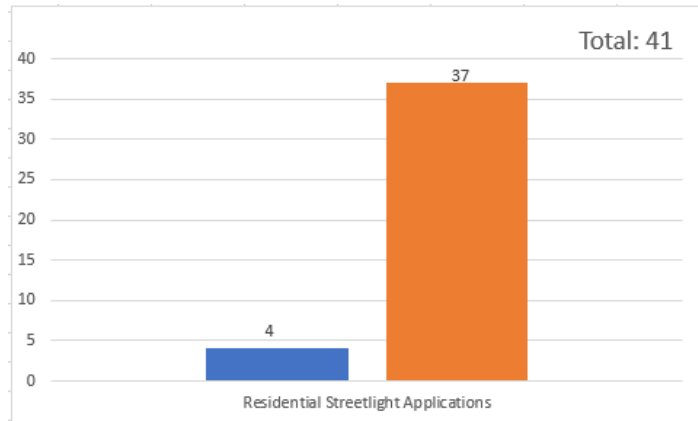
# Dashboard for Downtown Streetlights



# RESIDENTIAL UNDERGROUND FED STREETLIGHTS

# Dashboard for Residential Streetlights

The residential streetlight application process was released in V5.0 of the Pole Attachment Standards



# AT&T Photosims – 4G only

Existing CPS Energy Pole



Metallic Silver



# Verizon Photosims – 4G/5G



Existing CPS Energy Pole



Metallic Silver





# Questions?





***Thank You***