

#### WELCOME

#### CPS Energy Quarterly Pole Attachment Workshop

November 8, 2018

Confidential Information Property of CPS Energy



## Housekeeping

- Sign-up Sheets
- Restrooms
- Evacuation / Staging
- Introductions in the room







Thank You for Serving!

## **Safety**



https://youtu.be/dxaUj\_rfkN4





#### CPS Energy

#### Quarterly Pole Attachment Workshop - November 8, 2018

#### CPS Energy EMC Auditorium 4514 Frank Bryant – San Antonio

genda #	Item	Presenter	
1	Welcome & Introductions	Jesse Lopez	9:00 - 9:10 am
2	Safety & Agenda	Jesse Lopez	9:10 - 9:15 am
3	General Topics:	Jesse Lopez	9:15 — 10:20 am
4	Wireline attachments  NJUNS update/workshop  BREAK	Jesse Lopez	10:20 – 10:45 am
	Wireless attachments		
5	Suburban city introductions "Meet and Greet"	Jesse Lopez	11:00 – 11:10 am
6	Wireless attachments  Update on applications submitted  Dashboard update  Wireless installation workflow  Electric service update	Jesse Lopez	11:10 – 11:55 am
7	Pilot Project status update	Jesse Lopez	11:55 – 12:10 pm
8	Open Discussion / Questions	Attendees	12:10 – 12:20 pm
9	Final Wrap-up	Jesse Lopez	
10	Adjourn		



#### **GENERAL TOPICS**

# **Engineering Contractor GIS Training**



- Existing approved engineering firms for Pole Attachment Services
- 2 employees per Engineering company
- 1st Training 12/3/2018 12/7/2018
  - Duration: 5 days Mon Fri
  - Location EMC Auditorium
  - Capacity 10 seats
- 2nd Training January 7, 2019



#### **Application Rejections**



- Application missing required information
  - CPS Energy pole number (PL#) missing on application
  - Make ready not called for on the application
  - Missing required attachments at submittal of application
- Mistakes on Pole Loading Analysis
  - All existing violations on pole are not fixed or new creates a new violation
  - Incorrect construction grades
  - Missing cables on pole
  - Incorrect cable tensions
  - Mid-Span clearance issues
- 21 Day application review will reset with every application rejection
- Contractors should <u>NOT</u> change the attaching entities application name
  - Attaching Entities do not know what applications CPS Energy is referencing because the application name was changed by the engineering contractor when applying for attachment



#### **WORK MANAGER TASK STRUCTURE**

## **GIS Design Rejections**



#### Design Issues

- Work request number missing from Application
- Electrical make ready shown with incorrect responsible party
- Electrical make ready missed in GIS design
- GIS Design missing proper Compatible Units (CU's) and callouts
  - If a CU in the design needs to be Installed/Removed/Transferred within GIS, not just NSLC
  - Raise/Lower Neutrals & Secondary Use (5) NSLC (per operation)

#### NEW REQUIRED GIS DESIGN ITEM

- All WR#'s will require an additional (5) NSLC to account for construction crew travel time to the work site.
- This will become another item to reject an application.

#### **Work Manager Responsibilities**



Task 1000: C, M, REQ, 04/24/2018, 04/24/2018, APDM, Create Work Request, 0 Task 1040: W, M, REQ, 04/24/2018, , , Review WR Details / Assign Designer - Project - Grids, 0 Task 2280: P, M, DSGN, 04/24/2018, , , Perform Field Survey / Obtain Data, 0 Task 2360: P, M, DSGN, 04/24/2018, , , Design Job, 0 📲 Task 2400: P, M, DSGN, 04/26/2018, , , Request ROW / Easement From Customer, 0 Task 2445: P, M, DSGN, 04/24/2018, , , Obtain Permit(s), 0 ⊕ Task 2460: P, M, DSGN, 05/03/2018, , , Perform Supervisor Review of Design, 0 🔃 📲 Task 2550: P, M, DSGN, 05/04/2018, , , Submit Design to Distribution Planning, 0 🚜 Task 2570: P, M, DSGN, 05/14/2018, , DPLN, Obtain Distribution Planning Approval, 0 📲 Task 2605: P, M, DSGN, 05/07/2018, , , Send Contribution Charges to Customer, 0 Task 2670: P, M, DSGN, 04/30/2018, , , Obtain ROW, 0 Task 2680: P, M, DSGN, 05/15/2018, , , Indicate Official Revision, 0 Task 9200: P, M, CIAC, 05/07/2018, , , Receive Customer Pre-Work Payment, 0 Task 5000: P, M, APPR, 05/16/2018, , , Perform Supervisor Approval, 0 Task 5100: P, M, APPR, 05/17/2018, , , Approve Work Request, 0 표 👽 Task 6000; P, M, DESFN, 05/18/2018, , , Finalize and Lock Down Design, 0 Task 11100: P, M, REL, 05/21/2018, , , Accept Work Request for Construction, 0 Task 12500: P, M, SCH, 05/22/2018, , , Schedule Work, 0 Task 16100: P, M, CONST, 07/12/2018, , , Perform Field Work, 0 📲 Task 16500: P, M, ABRPT, 07/17/2018, , , Perform Initial Material Reconciliation, 0 Task 17000: P. M. ABRPT, 07/24/2018, ... Enter As-Builts, 0. Task 18200: P, M, CLOSE, 07/25/2018, , , Close Work Request, 0.

#### **LEGEND for Responsible Parties**

Designer – <u>Attachers</u>/Contractors

Supervisor – QUES/TRC

Manager – Jesse/CPS

### Task 6000 and 11100 (Update)



Designer completes Task 6000 (Finalize and Lock Down Design)

- Designer will then assign and notify scheduler that the job is ready for construction at Task 11100
  - Southwest District (SWD) Mary Alvarez (Initials for Work Manager are AMH)
  - Northwest District (NWD) Jennifer Ware (Initials for Work Manager are WJD2)
  - Eastside District (ESD) Missy Wilson (Initials for Work Manager are WCL)
- The scheduler will schedule the work and release it to construction

# **Pole Attachment Standards Addendum Updates**



- Pole Attachment Services continues to work diligently with stakeholders to ensure the Pole Attachment Standards improve operations for all attaching entities
- Pole Attachment Services will be working on the addendums to be included in the Pole Attachment Standards to be effective January 1, 2019
- We remind you that the principles of Safety, Reliability, and Customer Service, which guide our Pole Attachment Services Department will be our guide for the development of our addendums

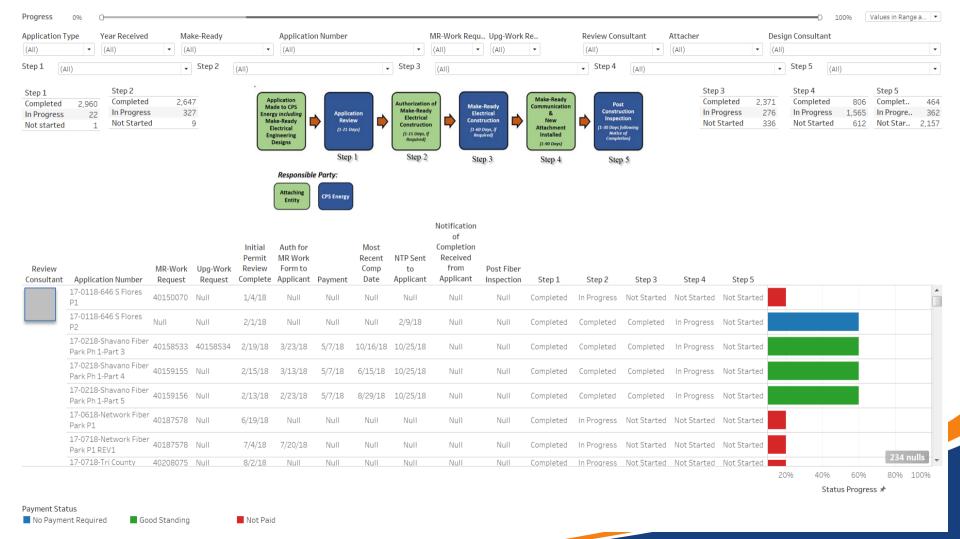




# **Annual Attachment Connection Fee**

- CPS Energy shall invoice the annual Attachment Connection to each Attaching Entity having permitted Wireline, Wireless and Banner Attachments no later than December 31st
- The invoice shall set forth the total number of pole feet utilized by attachments as of December 1<sup>st</sup> of the current rental year multiplied by the attachment rate







#### **WIRELINE ATTACHMENTS**





- WebEx application training conducted by NJUNS on August 23, 2018
- Meeting with SMEs from CPS Energy and Attaching Entities
- Meeting will be held at the end of November to start developing a best practice NJUNS document
- Monthly WebEx session will be setup to ensure data is being entered properly by all parties





### **BREAK**



#### **WIRELESS ATTACHMENTS**



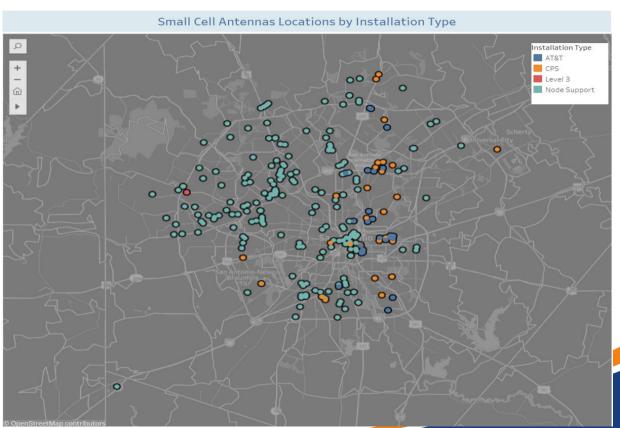
# **Partnership With Suburban Cities**

- Our goal is to partner with Suburban Cities in the successful development of standards and Small Cell installation processes
- Ideally, a common set of standards and processes can be developed for overall consistency and standardization throughout our service territory
  - One set of standards and processes for Small Cell companies to follow regardless of which city they are working in
  - One set of standards and processes for CPS Energy to coordinate with Small Cell companies and with individual Suburban Cities
  - Common ground among Suburban Cities in standards and processes facilitates future collaboration on Small Cell related issues

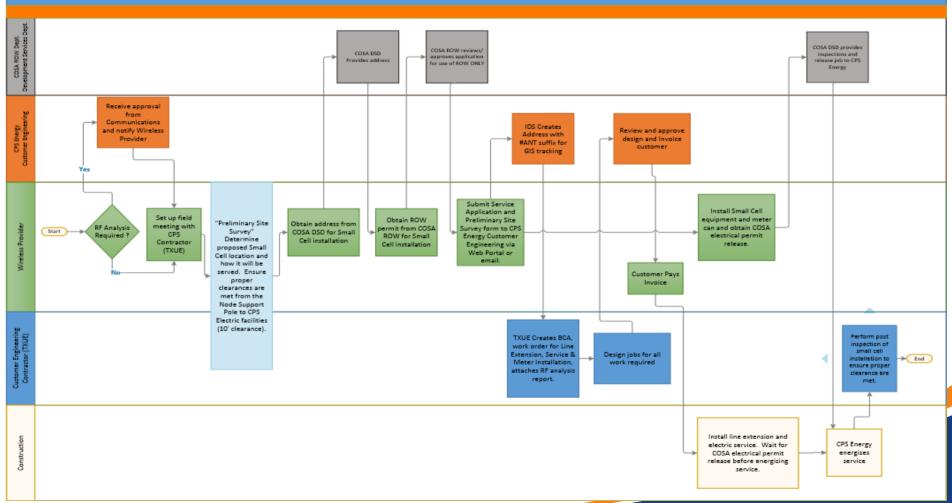
## **Small Cell Applications**

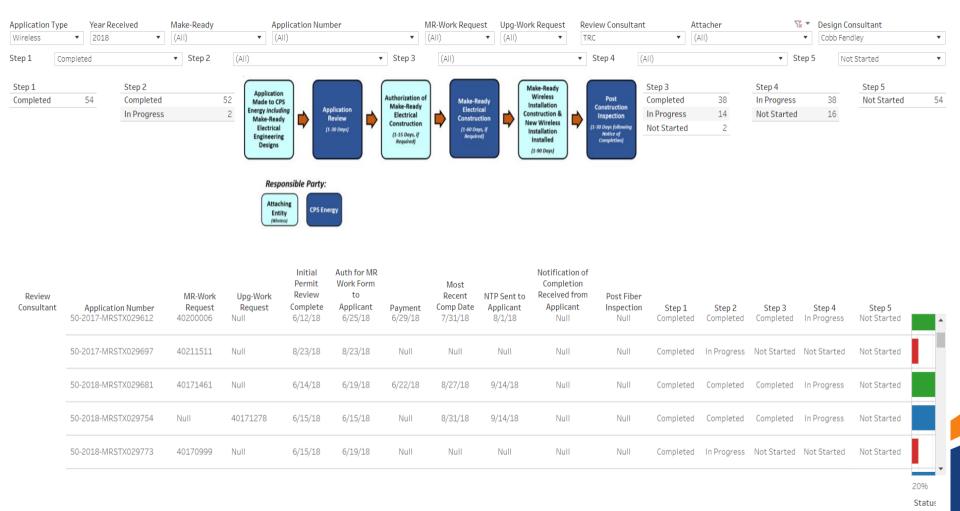


Installation	City	
AT&T	San Antonio	4
	San Antonio	9
	San Antonio	10
	San Antonio	3
CPS	San Antonio	8
	San Antonio	19
	San Antonio	11
Level 3	San Antonio	1
Node	San Antonio	81
Support	Helotes	1
	Leon Valley	4
	Live Oak	1
	Lytle	1
	San Antonio	114
	San Antonio	8
Grand Total		275



#### Wireless Installation: Node Support Pole / Non CPS Energy Pole





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#### **Pole Top Antenna Installation**

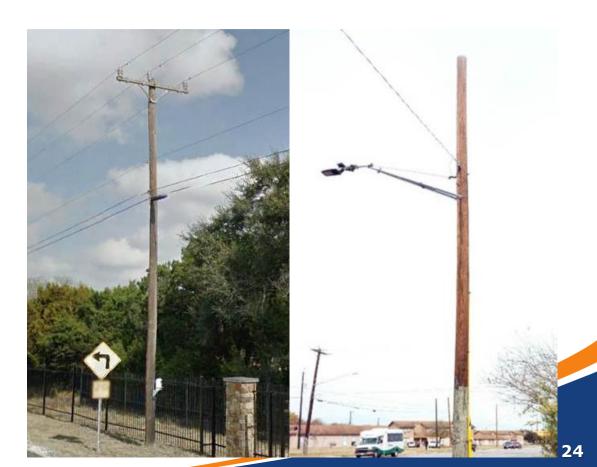


- Must be installed by an approved Electrical Distribution Construction Contractor
  - Overhead Distribution pole
  - Overhead fed streetlight pole

#### Electrical Distribution Construction

5-Star Electric
Canfer Utility Services
Chain Electric
T&D Solutions
Pike Electric

L.E. Myers Co



### **Electric Service rejections**



Service Lateral
 Shall be installed
 through the light
 pole concrete base



## **Electric Service rejections**



- Pull Boxes Are Not Permitted Before The Meter Socket. Underground Service shall be installed external to the pole in the concrete base
- Underground Service
   Lateral is <u>Not</u> permitted
   to be stubbed up in the
   center of the pole.
   Unmetered Service
   lateral shall <u>Not</u> be
   routed through a pull
   box



#### **Electric Service rejections cont...**



Hand hole shall be obstructed by service lateral riser

Conduit in and out of hand holes



Transition from PVC to Carflex without fittings



### **Electric Service rejections cont...**



Conduit Stub-Up







#### **Lessons Learned**

Reality: Communications Contractor ≠ Electrician ≠ Linemen







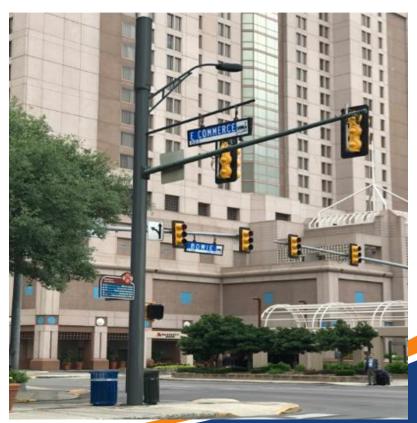


#### PILOT PROJECT UPDATE

#### **Project Status**



- Underground Network has completed the service design for 6 of the 8 pilot project locations
  - The last two sites are 95% complete
- Projected construction completion dates:
  - Team 1 March 15, 2019
  - Team 2 Both sites on hold
  - Team 3 March 15, 2019
  - Team 4 December 20, 2018



#### **Metering Update**



- Standards and Specification team created the material number for the smart meter
- Accuracy test Completed
- SAP Setup Completed
- UIQ software upgrade Completed
- Proximity and functionality testing of the meter - Completed
- Currently working with EIT on the configuration of the new material and register group in our system in order for billing to complete their testing





### Thank You