

#### QUARTERLY CHECK-IN





### POLE ATTACHMENT SERVICES QUARTERLY WORKSHOP

PRESENTED BY: Pole Attachment Services Dept.

06 MAR 2025



### AGENDA



#### Safety

- General Topics
- Inventory
- Low Crossings
- Applications
- Additional Items

### **SAFETY** LADDER MONTH & SPRING CLEANING

- Practice Ladder Safety
- Read all safety labels on cleaning products
- Keep children away from cleaning chemicals
- Lift with knees
- Proper ventilation
- Avoid mixing chemicals
- Use safe solutions for surfaces
- Safely clean ceilings
- Mayo Clinic Minute: Spring cleaning health and safety tips





# **GENERAL TOPICS**

### POLE ATTACHMENT SERVICES WEBPAGE

- Upcoming Meetings/Workshop
- Previous Presentations
- Pole Attachment Standards
- Rate Calculations
- Agreements
- Approved Contractors

#### Forms



### **APPROVED ENGINEERING FIRMS**



Engineering	Electrical Distribution	One-Touch	Vegetation
	Construction	Transfer Construction	Management
Aeparmia * AWE, LLC * Binkley & Barfield **** Black & McDonald *** Byers Engineering * Cobb Fendley *** DeBauche Comm. & Cons. Serv.LLC * ENTRUST *** LJA Telecom *** Merrick & Company *** Merrick & Company *** Mountain, LTD. *** Quanta Utility Eng. Services *** Surveying & Mapping, LLC *** TDC2, LLC * TechServ *** Telecom Staffing, LLC *** TexasPro Engineering *** TOP Engineers + *** Tower Engineering Prof., Inc. *** TRC, Inc. ***	Chain Electric Pike Electric Greenstone Source Power	BComm Constructors, LLC Ervin Cable Construction, LLC Quest Utility Construction, Inc. S&S Cable Communications Tero Technologies Inc. TEXSTAR Enterprises, Inc. TX Superior Communications, LLC JC Communications ADB Companies A2 Total Telecom Services LLC B Robinson Inc. CJ Hood Communications US Aerial HMI Utilities Global Optics	Asplundh Tree Expert Davey Tree Surgery McCoy Tree Surgery

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

**\*\*** Option 2: Make ready engineering

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

### **APPROVED ENGINEERING FIRMS**



 The PAS team periodically identifies firms that have not submitted applications & then will remove them from the Approved Engineering Firms list
 This review will be conducted every 6 months

- It takes 90 days for individual credentials to expire
   The firms removed had been inactive for much longer
- Firms will need to re-apply to become approved, going through the entire approval process as if it were the first time

Engineering Firms that are collectively working on the applications & EMR design are to submit applications together

### **REGISTRATION & ANNUAL REPORTING** FORM A1



- Is Required to be completed annually by September 1<sup>st</sup> of every year
- The form can be found on the Pole Attachment page on the CPS Energy website



*To be completed annually by September 1st or as required due to contact information changes* Submit form via email to <u>poleattach@cpsenergy.com</u>, Email Subject Line: Annual Registration & Reporting Form

Date Form Submitted to CPS Energy: \_

Attaching Entity General Information				
Attaching Entity Name				
Corporate Address				
Local Address				
Form Submitted by				
Telephone Number				
Email				

Does This Entity Hold a Certificate from the Public Utility Commission of Texas?				
If Yes, Indicate Certificate Number and Date Received				

Has This Entity Been Granted a Franchise, Licensee Agreement, Permit, or Ordinance by the City of San Antonio?			
If Yes, Indicate Certificate Number and Date Received			

A1 Registration & Annual Reporting Form

#### PAS GIS TRAINING CLASSES GENERAL TOPICS



- Future Trainings Please submit the name & company to get on the list for the next available training (March 31st April 4th)
   Date: TBD (working on scheduling) with training for availability
   Next class is @ capacity, continue to submit for future training sessions
   Duration: 5 days Mon Fri
   Location: Virtual
- For more information, please email <a href="mailto:poleattach@cpsenergy.com">poleattach@cpsenergy.com</a>
- The maximum class size is 6 & the minimum is 3
- You will receive a set-up walkthrough from the GIS team that needs to be completed prior to the course starting

#### PAS GIS TRAINING CLASSES GENERAL TOPICS



#### • GIS training **DOES NOT** cover:

Pole Attachment Standards
 Distribution Standards and Specifications
 Date Attachment Presses

OPole Attachment Process

OReplace Design Training

 GIS Training DOES cover basic GIS design training to submit EMR designs which include:

○ Transformers, Streetlights Etc.

• Pole change outs (PCO)

○ Setting mid-span poles

CPS Energy led GIS training isn't a replacement for design training

### PAS GIS TRAINING CLASSES POLE APPLICATION PROCESS



Engineering Firms should:

- Make sure that all new &/or replacement employees as well as contractors are trained on
  - Pole Attachment Standards & pole attachment process
  - Electrical make ready designs to streamline the rejections
- Continue to train their employees on the importance of communication regarding worker safety zones & applicable clearances

It's the engineering contractor's responsibility to learn how to fill out the application & understand CPS Energy standards



# INVENTORY

### POLE ATTACHMENT INVENTORY INFORMATION



- CPS Energy's goal is to deliver clean, affordable, reliable energy safely to our customers.
  - Help us identify who's on our pole
  - Correct issues that may cause the delivery of power to customers
- Osmose Utilities Services inspecting CPS Energy utility poles
  - Strictly Attachments
  - Safety
- 18 month project, started in December 2024, concluding April 2026
  - Data to be sent monthly for attacher validation
  - Attacher results will reflect in Osmose360
  - Attacher meeting 3rd Wednesday of every month

#### POLE INVENTORY PROJECT PROGRESS



- 46K poles have been completed as of 3/5/2005
- Northwest side & CPSE facilities on the SE side
- Number of crews as high as 11; currently working with 6 crews
- Continued outward/in methodology, to help reduce congestion
- Preliminary deliverables for attachers coming soon

#### **OSMOSE 360** INFORMATION/REGISTRATION





Osmose360.com CPS0897



# LOW CROSSINGS

### LOW CROSSINGS NJUNS VIOLATION TICKETS



- Will be identified as violations (VIO) in NJUNS, requiring accelerated response times
  - Emails sent in addition to NJUNS ticket
- Service drops that violate height requirements will be sent as violation tickets but will have a priority level of 3
  - These pose a smaller risk of bringing down poles, but are still in danger of being snagged and can get wrapped in the primary
- 3 Methods of triggering:
  - LiDAR Data
  - Internal Reporting (Service Restoration, Inspectors, etc.)
  - Community Reported

### LIDAR DATA & LOW COMMUNICATION LINES ISSUES



- LiDAR (Light Detection And Ranging) traditionally used to map out vegetation to identify areas needing trimming
- Identifying low hanging wires to prevent vehicular strikes
   Safety
   Reliability
- Currently targeting street crossings that go below NESC clearances (15.5 ft)
- Only where Truck traffic is possible
- Doesn't capture everything

#### LIDAR PROCESS IDENTIFYING CROSSINGS





LiDAR 3D View of Low Lines Identified on Sonoma Parkway

#### LIDAR PROCESS FIELD VERIFICATION









#### LIDAR PROCESS FIELD VERIFICATION







Measured Crossing

PL21192 Replacement

#### LIDAR PROCESS ISSUE CORRECTIVE ACTION

	<b>8</b>
ENERG	Y

#### Ticket - VIO6692190 - Violation (VIO) - VIO:PT-Default

icket # 🗲	5692190	Creator TRCPA	NTG Member	Priority 1
Status (	Open	Owner CPSE01	Start Date 02-22-2025	Pole/Asset # PL21192

Details Poles/Assets Associations Parties

∧ Details		^ Asset 1	
Work Requested Date	02-22-2025	House number	8516
State	Texas ····	Street1	Sonoma Pkwy.
County	Bexar ····	Cross street	Rio Ranch Pkwy.
Place	San Antonio 🚥 🗶	Latitude	29.581977
Contact Name	Joshua Macias	Longitude	-98.650262
Contact Phone	(210) 557-5116	Zip code	
Contact Email	jmacias@trccompanies.com	Private property	
Reference Id		Pre existing	
Misc Id			
# of Poles/Assets	1		
Remarks	Full Screen		
		1	
∧ Steps			

Create	I Edit X Dele	te 📝 Excel	✓ Complete	* Actions							3	3 rows
#	Updated On		Member	Job Type	Status	Interval	NTG Start	Response Request	Completed On	Field Completed On	# Reorder	0
1	02-21-2025 16	17		RAISE	NTG	5	02-22-2025	02-26-2025			Move	
2	02-21-2025 16	17		RAISE	Pending	5		03-03-2025			Move	
3	02-21-2025 16	17		RAISE	Pending	5		03-08-2025			Move	

### LOW CROSSINGS 5 DAY CORRECTIVE ACTION



NJUNS Violation ticket functions as Notice of Safety Violation
 Process outlined in pole attachment standards
 Violation shall be corrected by no later than five calendar days

- If the Violation has not been cured within five calendar days
   CPS Energy may perform such work as it deems necessary without giving written notice to Attaching Entity
  - Attaching entity is responsible for all costs incurred by CPS Energy
  - CPS Energy will impose a 10% surcharge on its costs of conducting any work or remedy of a Safety Violation
  - CPS Energy shall issue a Notice of Safety Violation Assessment Charge, provided in Appendix H for each Safety Violation(s) noted

### COMMUNICATIONS LINE VIOLATIONS POWER APP



- Gives internal personnel a reporting tool to communicate low lines and other hazardous situations related to telecommunications
  - Service Restoration
  - Inspectors









#### COMMUNICATIONS LINE VIOLATIONS POWER APP

- Basic information is added to the application, Pole #s, nearest Address, additional comments, and the ability to load pictures or any other documents
- These are then sent for field verification and next steps

$\times$	Submit a Violation 🗸
Pole	e 1 #
Ente	er 1st pole number at crossing
Pole	2 #
Ente	er 2nd pole number at crossing
Add	ress
Ente	er the address
Con	iment
Atta	chments
Ad	d a photo of the issue.
() A	ttach file



#### **COMMUNICATION LINE VIOLATIONS** REPORTED LOCATIONS







3457 Fredericksburg Rd

6916 NE Loop 410 Access Rd



# **APPLICATIONS**

### **PROACTIVE COMMUNICATION** INCREASE IN APPLICATIONS / POLE COUNT

- Funding Programs Texas Broadband Development Office
  - o Boot
  - o Boot II
  - Pole Replacement
  - o IIJA BEAD
  - IIJA Digital Opportunity Program
- Other local level programs
- Please proactively communicate with the Pole Attachment Services Department regarding large scale deployments



Counties in CPS Energy Territory

- Atascosa Guadalupe
- Bandera Kendall
- Bexar Medina
- Comal



### AT&T OWNED POLES REPLACEMENT

- The AT&T Occupancy Permit is insufficient to move forward with an AT&T pole changeout
- Required to have approval from AT&T for CPS Energy to change out an AT&T owned pole
  - This is coordinated through Engineering
  - Contact <u>ztschoepe@cpsenergy.com</u>
- If approved, sketch should note that it is a T-pole as well as call out to remove CPS Energy brand



#### WORK MANAGER PROCESS MAJOR TASKS



Create Work Request	6000	Finalize and Lock Down Design
Request Environmental Review	9100	Obtain ROW / Easement(s)
Obtain Environmental Permit(s)	9200	Receive Customer Pre-Work Pay
Perform Field Survey / Obtain Data	11060	Submit Notice of Intent (NOI)
Request Long Lead and/or Non-St	11065	Underground Inspections
Assign Designer / Supervisor	11100	Accept Work Request for Constru
Design Job	12271	Delay For Reason in Comments
Request ROW / Easement From	12500	Schedule Work
Obtain Permit(s)	12800	Send Scheduled Date to Customer
Calculate Contribution Charges	16100	Perform Field Work
Perform Supervisor Review of De	16130	Submit Notice of Termination (NOT)
Send Contribution Charges to Cus	16500	Perform Initial Material Reconciliat
Indicate Official Revision	16900	Receive Customer Post-Work Pay
Perform Supervisor Approval	17000	Enter As-Builts
Approve Work Request	18200	Close Work Request
	Create Work Request Request Environmental Review Obtain Environmental Permit(s) Perform Field Survey / Obtain Data Request Long Lead and/or Non-St Assign Designer / Supervisor Design Job Request ROW / Easement From Obtain Permit(s) Calculate Contribution Charges Perform Supervisor Review of De Send Contribution Charges to Cus Indicate Official Revision Perform Supervisor Approval Approve Work Request	Create Work Request6000Request Environmental Review9100Obtain Environmental Permit(s)9200Perform Field Survey / Obtain Data11060Request Long Lead and/or Non-St11065Assign Designer / Supervisor11100Design Job12271Request ROW / Easement From12800Obtain Permit(s)16100Calculate Contribution Charges16100Perform Supervisor Review of De16500Indicate Official Revision16900Perform Supervisor Approval17000

- 2280 Designer: Field work (locates, staked locations)
- 2360 Designer: GIS Design
- 2460/2605 Supervisor: Designer notifies supervisor by email that EMR is ready for review. Supervisor reviews the design & creates the CIAC invoice
- 2680 Designer: if EMR project is completed (all permits attached, PE seal, etc.) designer IND of revision in GIS & must send an email to supervisor that design is ready for final approval
- 5000/5100 Supervisor: Final approval

EMR Designer is the owner of the Work Order from start to close out & responsible for pushing the project through the process

#### WORK MANAGER PROCESS MAJOR TASKS



1000	Create Work Request	6000	Finalize and Lock Down Design
2125	Request Environmental Review	9100	Obtain ROW / Easement(s)
2130	Obtain Environmental Permit(s)	9200	Receive Customer Pre-Work Pay
2280	Perform Field Survey / Obtain Data	11060	Submit Notice of Intent (NOI)
2305	Request Long Lead and/or Non-St	11065	Underground Inspections
2310	Assign Designer / Supervisor	11100	Accept Work Request for Constru
2360	Design Job	12271	Delay For Reason in Comments
2400	Request ROW / Easement From	12500	Schedule Work
2445	Obtain Permit(s)	12800	Send Scheduled Date to Customer
2450	Calculate Contribution Charges	16100	Perform Field Work
2460	Perform Supervisor Review of De	16130	Submit Notice of Termination (NOT)
2605	Send Contribution Charges to Cus	16500	Perform Initial Material Reconciliat
2680	Indicate Official Revision	16900	Receive Customer Post-Work Pay
5000	Perform Supervisor Approval	17000	Enter As-Builts
5100	Approve Work Request	18200	Close Work Request

\*NTP sent after EMR Post Inspection

- 6000 Designer: Designer is responsible for:
  - O Finalizing the design
  - O Coordinates the tree trimming if needed
  - O Applies for any pending ROW permits
  - Re-stakes proposed pole locations
  - $\bigcirc$  Prepares for construction
- 9200 Designer: receives notification when the CIAC has been paid
- 11100 Designer: releases design to construction, emails scheduler
- 12500/12800/16100 –
   Scheduler/Construction
- 16500\* Designer: Must Request NTP
- 17000 Designer: enters As-Builts & submits for verification
- 18200: Work order is closed

#### WORK MANAGER PROCESS MAJOR TASKS



Remerge	Update	Refresh Date 🍦	Attachment File Name*	Description 👙
	<u>ئ</u>	Nov 13, 2023	COSA_188645_20230831_extended.pdf	COSA PERMIT
IJ	<u>ٹ</u>	Oct 24, 2023	COSA_188645_20230831.pdf	COSA PERMIT
G	1	Oct 24, 2023	WR#40761043 FINAL FOR CONSTRUCTION_PE Sealed.pdf	FINAL FOR CO
H	1	Oct 06, 2023	40761043_2_202310061439_10-06-2023(14_39_35).pdf	DNU
πο	+	Lat 24 2023	10761012 2 202207210222 7 21 2022/02 22 221 pdf	

Attached Eiles

#### Attachments for Work Request

\*These are not the only attachments that would need to be attached; This is not a comprehensive list

- 2460 for Entrust- Zsofia Cassidy (CZ), TRC- Steven Chavez Martinez (CSTE), QUES- Brandon Perez (PBT1)
- Permit Attachments expected at task
   2360\*
  - O Design for Review (preliminary)
  - O Design for Construction (final)
  - Dig Tess (number should also be on the design)
  - O Gas Maps
  - SAWS/Water Maps
  - CPS Energy Environmental forms/approvals (design notes should be in red)
- Permit attachments expected before 5000 approval
  - TXDOT approval
  - City/County approval

### **DESIGNER RESPONSIBILITY**



- The Designer is the owner of the Work Order & GIS from the creation through the As-Builts
- Make sure that the designer's initials are indicated under Work Request Owner to ensure delivery of emails as tasks are completed

Work Request Detail					
- General					
*WR No			*WR Status	DESFN	
Contact Name			Contact Phone	( 999 ) 999 - 9999 >	<b>&lt;</b> 99999
*WR Type	PALMR		*Classification	CAPITAL	T
*Address			Directional Address		*
*Priority	C3	• •	*Requested Completion Date	02/29/2024	(III)
Customer Ready Date	01/18/2024		Earliest Appointment Start	MM/DD/YYYY HH:MM	
Description			Latest Appointment	MM/DD/YYYY HH:MM	
		•			
*Local District	OHN	· (i)	WR Owner Name	MR9	• 68
				ROBERTO MONSIV	v

### **ASSOCIATED WORK REQUESTS**



- All associated work requests should be submitted with the original application submission
- This extends to final approvals at task 5000/5100
- All associated work requests must be paid prior to sending to task 5000/5100

 The 5000/5100 notification email should include the associated work requests



Failure to submit all associated work requests with the project can result in delays for the applicant company.

### **DESIGNER RESPONSIBILITY**



- After task 5100 is completed, designer is responsible to progress job
- Task 6000 Designer: Designer is responsible for:
  - Finalizing the design
  - Coordinates the tree trimming if needed
  - Applies for any pending ROW permits
  - Re-stakes proposed pole locations
  - Prepares for construction
- Ensure CIAC payment has been received prior to progressing the job to scheduling/construction

### **APPLICATION TIMELINE**



- The 21 days 'Pause' when applications are sent back for corrections (commonly called quick fixes)
- The timeline 'Resumes' when the review firm receives the quick fix back
  - OSubsequent pauses for additional quick fixes
- Applicants shall receive a consolidated review for the total application (application form, PLA, EMR, etc.)

Applications in which the design needs to be fundamentally changed (e.g. additional pole replacements) are handled as rejections.

### **COMMON APPLICATION ERRORS**



- Application missing required information
  - CPS Energy Pole number (PL#) missing on application
  - O Make ready not called for on the application
  - OMissing required attachments at submittal of application
- Mistakes on Pole Loading Analysis
  - All existing violations on pole are not fixed or creates a new violation
  - Incorrect construction grades
  - Missing cables on pole
  - Incorrect cable tensions
  - Mid-span clearance issues
- The application review shot clock will reset with every application rejection
- Contractors should NOT change the attaching entities application name on rejections, only a REV designation should be added to the end of the application name
  - O Example Tag Number-Year-Application \*Number\_REV#

### **COMMON APPLICATION ERRORS**



- Pole Loading Analysis (PLA) Report(s) should include coversheet stamped by a PE, or each individual PLA Report is to be stamped
- Pole information on PLA Reports should reflect that of application height information. Pole Capacity Utilization Percentage should also match on Application & more UTD PLA Reports
- Correct wire Sizes/Types, Equipment Sizes/Types, Tensions & Ownership need to be utilized
- Anchor(s)/Downguy(s) at appropriate Lead Lengths/Attachment Heights, as shown on the application. (If applicable)
- Pole Number, Class/Height, Species & Construction Grade, shown as it exists or is proposed on the application

PLA Analysis shall be valid for no longer than six (6) months from the time of Application Submission. After six (6) months, a new PLA analysis will be required

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- All associated work requests must be paid prior to sending to task 5000/5100
  - The 5000/5100 notification email should include the associated work requests



Failure to submit all associated work requests with the project can result in delays for the applicant company.

### MIDSPAN POLES PARAMETERS FOR MIDSPAN POLE



- Midspan poles are an option for span lengths greater than 250'
- Best effort should be made to split the span
  - Proper placements (not in the middle of driveways, right in front of customer windows, etc.)
  - $\bigcirc\,\mathsf{No}$  cascading for midspan poles
- Exceptions will be taken into consideration
  - Riser poles, AT&T poles, RR crossings, etc.



### **POLE PHOTOS**



- All applications must have up to date photo(s) from within last 6 months
  - May need a new photo if field conditions change,
    - e.g.:
      - New attachment
      - Streetlight
- Combine photos into a single PDF
- No Google Photos



Taken in the field

Google StreetView

### **PROCESS STANDARDS**



 Attachers must inform CPS Energy/Contractors when attachment construction is completed
 Notice is required to initiate post construction inspection
 Final permit will not be received until passing post construction inspection

 Wireline routes should follow existing CPS Energy pole lines



Pole line with communications attached

### **AS-BUILTS**



- CPS Energy is running weekly reports for work requests in As-Built Status
  - 1. Responsible designer shall review documents attached at task 16500 for As-Builts
  - 2. After entering and completing the as-builts, send revision for as-built verification through GIS
  - 3. In ARM, at Task 17000, add supervisor initials CZ or CSTE O "Completed on 03/07/2024 submitted to Entrust/TRC by SWAY"
  - If the applicable designer has left the approved engineering firm's company, it is that engineering firm's responsibility to submit
  - Supervisor that completes as-built verification shall notify designer that work request is closed



### **ADDITIONAL ITEMS**

### **NJUNS TRANSFERS**

- Attaching entities need to query NJUNS regularly to keep up with their Next to Go steps
- CPS Energy continues to stress the importance of timely transfers
  - Customer complaints
  - Safety concerns
- NJUNS registration is a requirement for ALL attaching entities



In 2024, over 2,500 stub poles were removed by CPS Energy



### **NJUNS NOTIFICATIONS**

 CPS Energy utilizes different types of NJUNS notifications:

○ Pole Transfers (PT) tickets ○ Violation (VIO) tickets ○ New (New) tickets

- NJUNS training materials can be found on the ○ NJUNS User's guide
  - **O**Training Videos
  - O Best Practices
- If any attaching entity needs assistance or additional training, please reach out to the **Pole Attachment Services team**

The next web-based training can be found at the **NJUNS Training page**, where you can subscribe to receive notifications





### TAGGING



- Tagging Requirements For:

   Attachments
   Banner Attachments
   Overlashings
   Wireless installations
- Minimum of 95% of attachments need to be tagged



Proper Tag

### **NESC 217C**



- The ground end of each anchor guy adjacent to regularly traveled pedestrian thoroughfares, or places where persons are normally encountered or reasonably anticipated, shall be provided with a substantial and conspicuous marker
- Modified in 2023 NESC



Side-Walk Guys Marked\* \*Side-walk guys/ arms not constructed to spec

### **STEEL/COMPOSITE POLES**



- Attachments must be firmly secured with clamps and/or stainless-steel banding. The drilling of any additional holes into steel poles or associated equipment is prohibited.
- This rule extends to all pre-engineered poles that CPS Energy utilizes including composite poles.



Banding Kit for Steel pole

### **POLE CONDITION**

- Poles with two red tags and an orange ribbon in the field have been identified as a priority reject pole.
  - These are entered as emergency replacements in the CPS Energy system
- A double red tag pole is a pole that has failed inspection; the expected replacement time is 3-9 months
- A single red tag pole is a reject pole
  - Anticipated timeframe for replacement is less than 2 years





### **POLE CONDITION**

- A silver tag is used to indicate the pole has passed inspection
- Always exercise due care, as field conditions may have changed since the last inspection
- Attaching entities and their contractors should provide training to personnel on identifying hazardous poles and recognizing the dangers they pose





Silver Inspection Tag

### **TXDOT RIGHT OF WAY** OVERHEAD ELECTRIC AND COMMUNICATION LINES



- This exceeds the heights listed currently in the pole attachment standards for such an environment
- The standards will be updated to include this height at a later date
- Reviewing applications in accordance with this requirement





### **BANDIT SIGNS**



- Bandit signs are unauthorized attachments and are removed to improve urban beautification as well as remove potential hazards
- Bandit signs can be reported to banditsigns@cpsenergy.com



**Bandit Signs** 



### ANNOUNCEMENTS

### **ANNOUNCEMENTS**



- Next Quarterly Dates:
  - June 5th, 2025
  - September 4th, 2024
  - O December 4th, 2024
- Pole Attachment Invoices will be going out when rates are finalized
- Rates to be posted on PAS website
- Contact <u>poleattach@cpsenergy.com</u> to get on the list for GIS training



### **QUESTIONS?**