

Kentucky Permitting Process

McLean Engineering

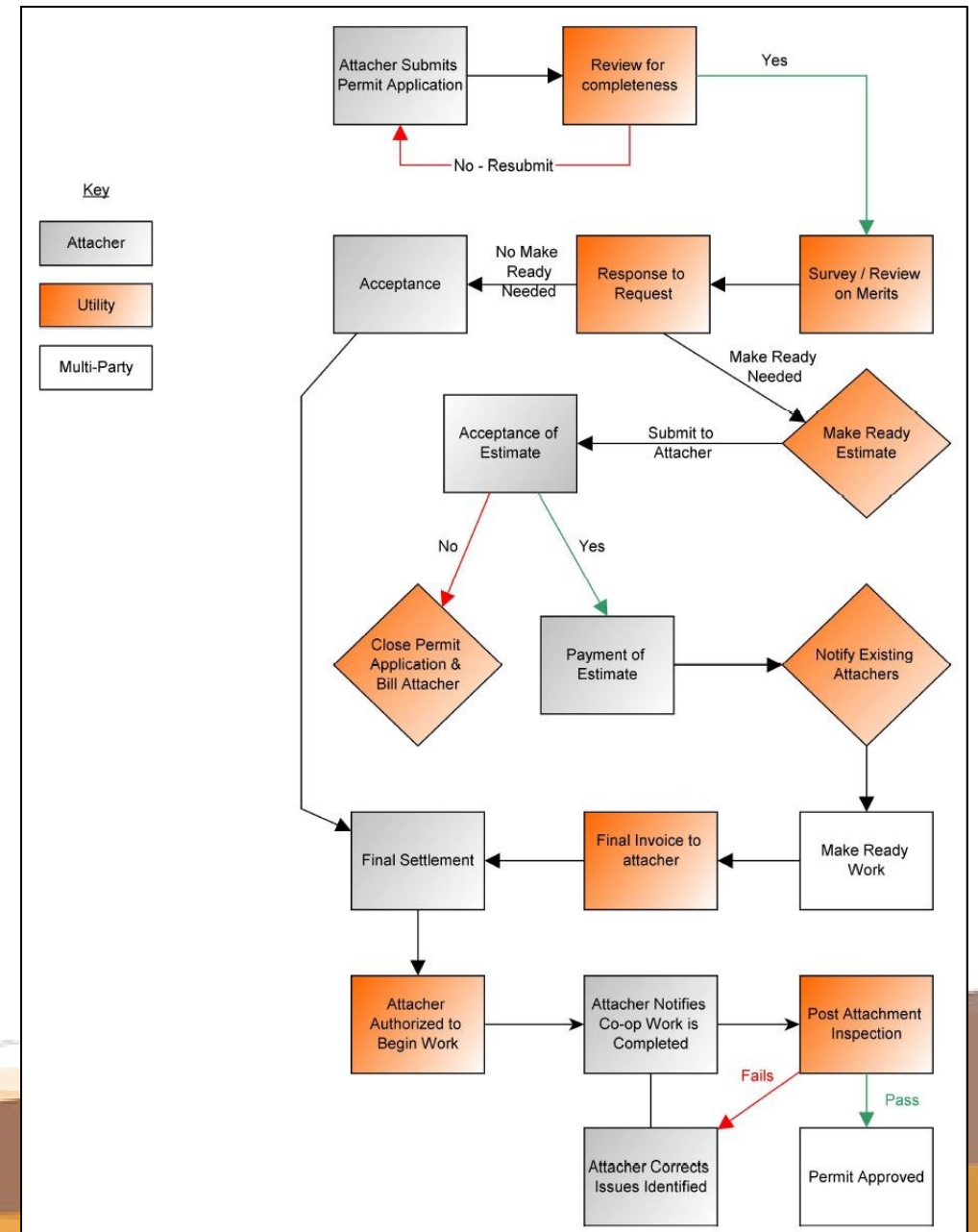
Kentucky Public Service Commission

22 March 2024



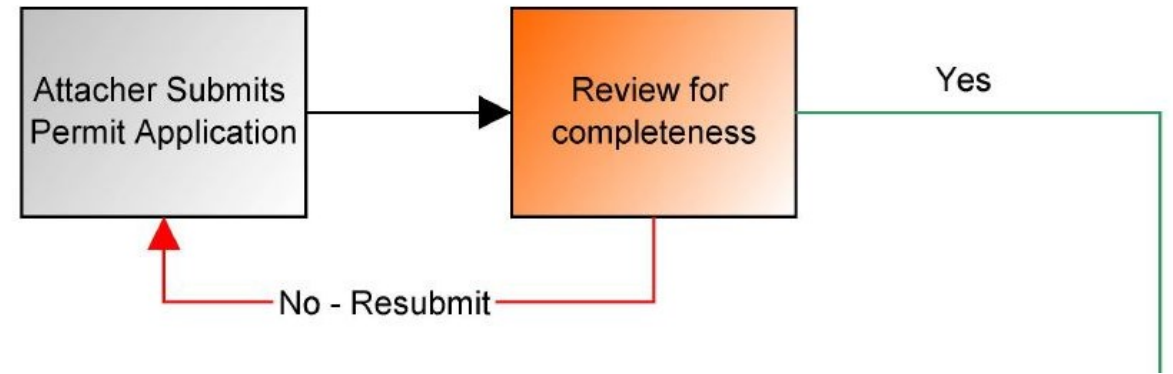
Permit Process

Set by Kentucky Public Service Commission regulations and individual cooperative tariffs.



Permits In

- Submitted through designated electronic means
- Necessary information included?



Appendix A (from tariff)

FOR _____ Entire Territory Served _____
PSC KY NO. _____ 6 _____
Original SHEET NO. _____ 84.36 _____
CANCELLING PSC KY NO. _____
SHEET NO. _____

Owen Electric Cooperative, Inc.
(NAME OF UTILITY)

SCHEDULE PA – POLE ATTACHMENTS

APPENDIX A – APPLICATION / REQUEST TO ATTACH (Template)
Electronic version supplied to Licensee by Cooperative

APPENDIX A – REQUEST TO ATTACH/MODIFY ATTACHMENTS TO POLES
Licensee Job # _____ (to be completed by Licensee)
Cooperative Work Order # _____ (to be completed by Cooperative)

SECTION 1 - REQUEST FOR APPROVAL TO PLACE ATTACHMENTS ON A POLE (to be completed by Licensee)

Company	Project	Request Date	Name	Title	Phone	Email	Signature:	Added	Removed	Overlashed	Modified	Start	Completion

One Touch Make-Ready? (Yes or No) _____
Make Ready Anticipated? (Yes or No) _____

Location of Attachment Request (Street Address and Coordinates (Lat, Long): _____

Checklist of Attached Documents (Containing Licensee Job #):

- Appendix A-OTMR Addendum selected contractors (if applicable)
- Detailed construction plans, drawings, and maps consistent with Appendix B
- Cable specifications, including diameter, ruting span, and tension
- Pole Loading Analysis
- Spreadsheet, containing the following:
 - Poles that we wish to use (pole number, Lat, Long)
 - Point of attachment (proposed height) on each pole
 - Number and type of attachments to be placed on each pole (including anchor type and distance from pole)
- Replacements or replacements of poles
- Rearrangements of fixtures and equipment necessary
- Additional poles required

The included information represents our proposed facilities. Any changes will be submitted to Cooperative for approval prior to construction. The Licensee will obtain all authorizations, permits, and approvals from all Municipal, State, and Federal authorities for the Licensee's proposed service and all easements, licenses, rights-of-way and permits necessary for the proposed use of these poles.

SECTION 2 - APPROVAL/DENIAL OF REQUEST (to be completed by Cooperative)

Response Date	Utility Make Ready Construction Required?

Request Response: Approve Deny. If denied, reason for denial: _____

Signature: _____

I hereby grants license to Licensee to make Attachments as described above, subject to the terms and conditions of the Tariff.

DATE OF ISSUE _____ January 26, 2023 _____
MONTH / DATE / YEAR

DATE EFFECTIVE Service rendered on and after December 28, 2022
MONTH / DATE / YEAR

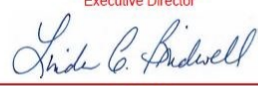
ISSUED BY _____
SIGNATURE OF OFFICER

TITLE _____ President & CEO _____

BY AUTHORITY OF ORDER OF THE PUBLIC SERVICE COMMISSION
IN CASE NO. _____ 2022-00106 _____ DATED _____ December 28, 2022 _____

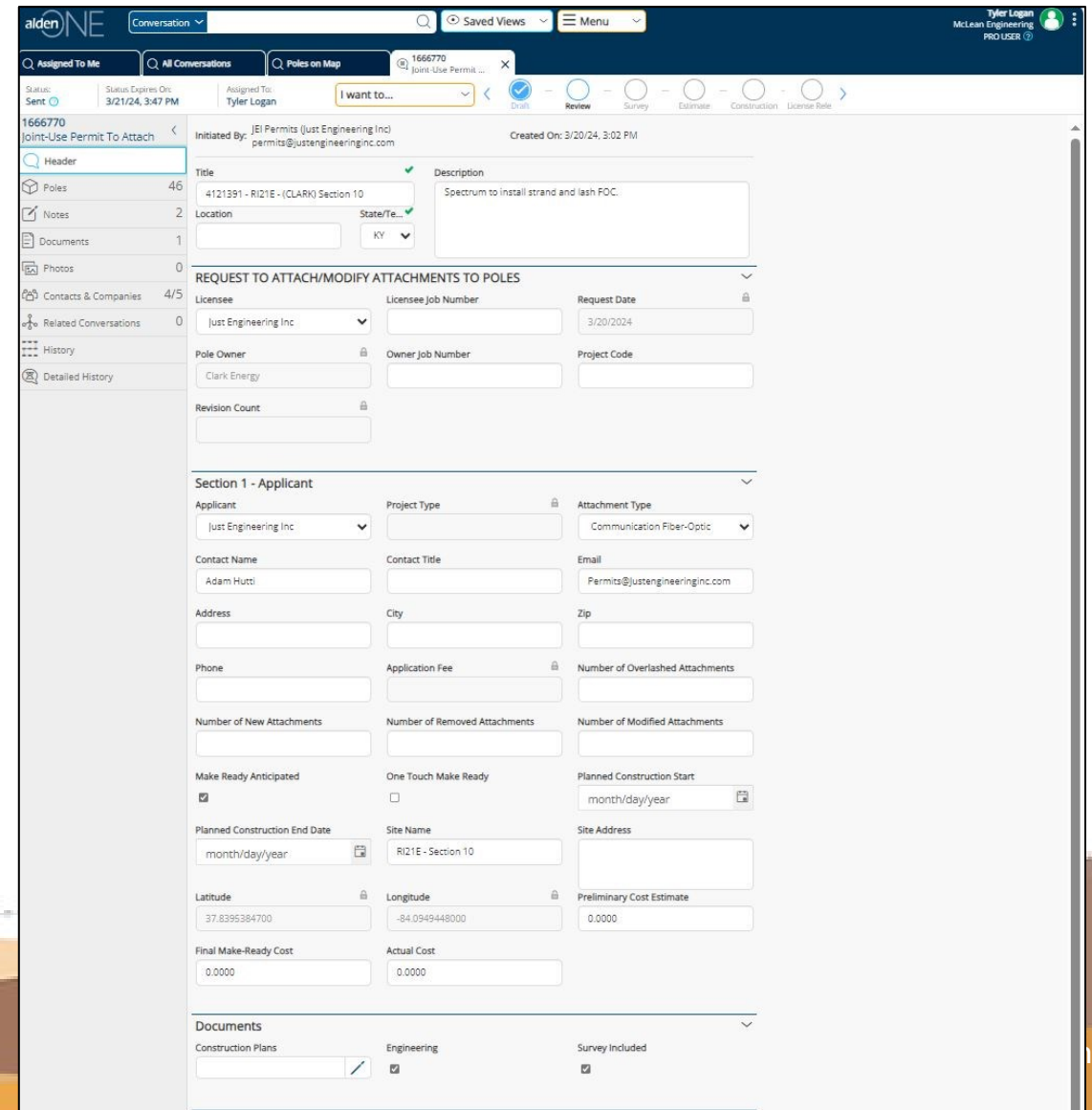
**KENTUCKY
PUBLIC SERVICE COMMISSION**

Linda C. Bridwell
Executive Director



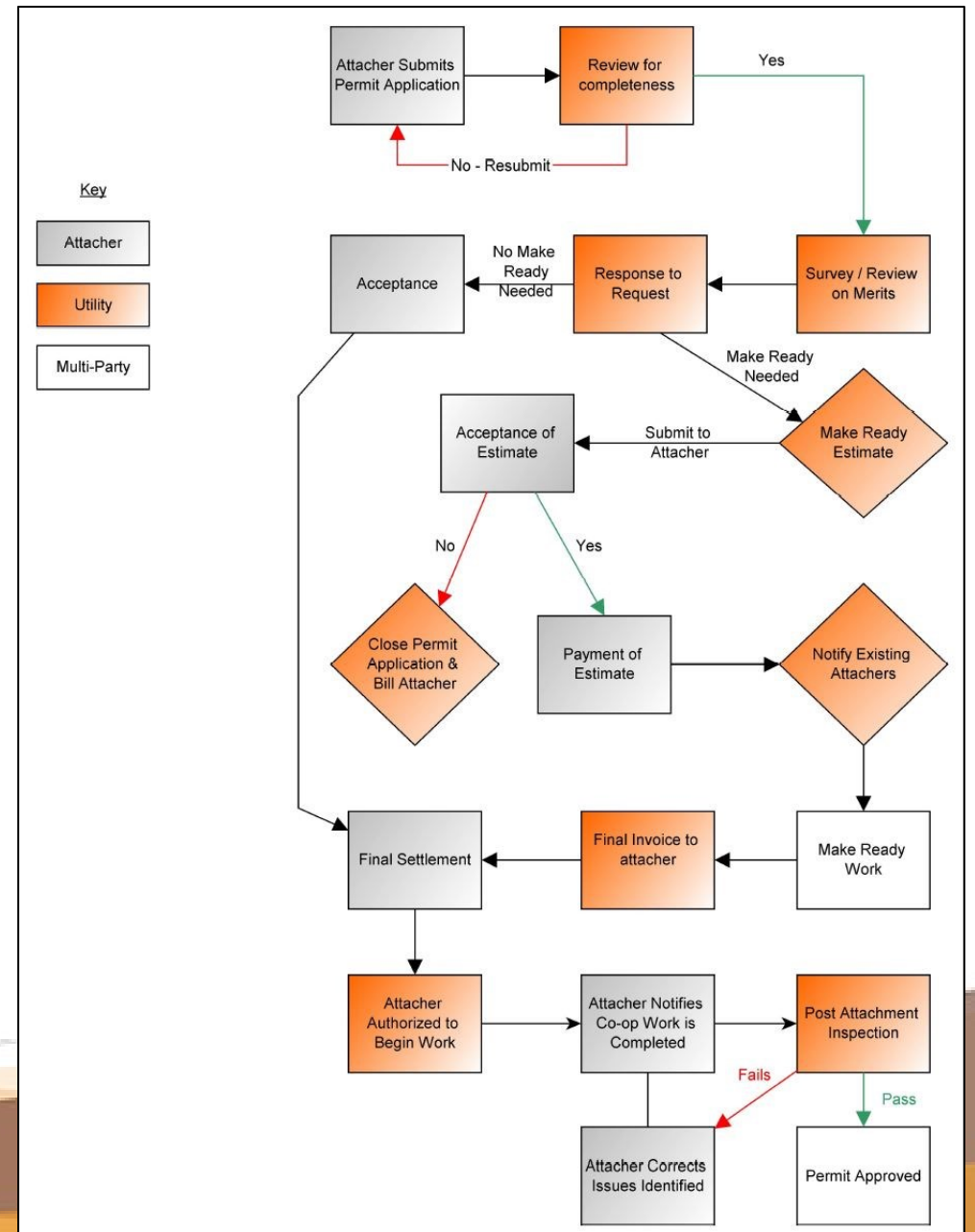
EFFECTIVE
12/28/2022
PURSUANT TO 807 KAR 5:011 SECTION 9 (1)

AldenOne



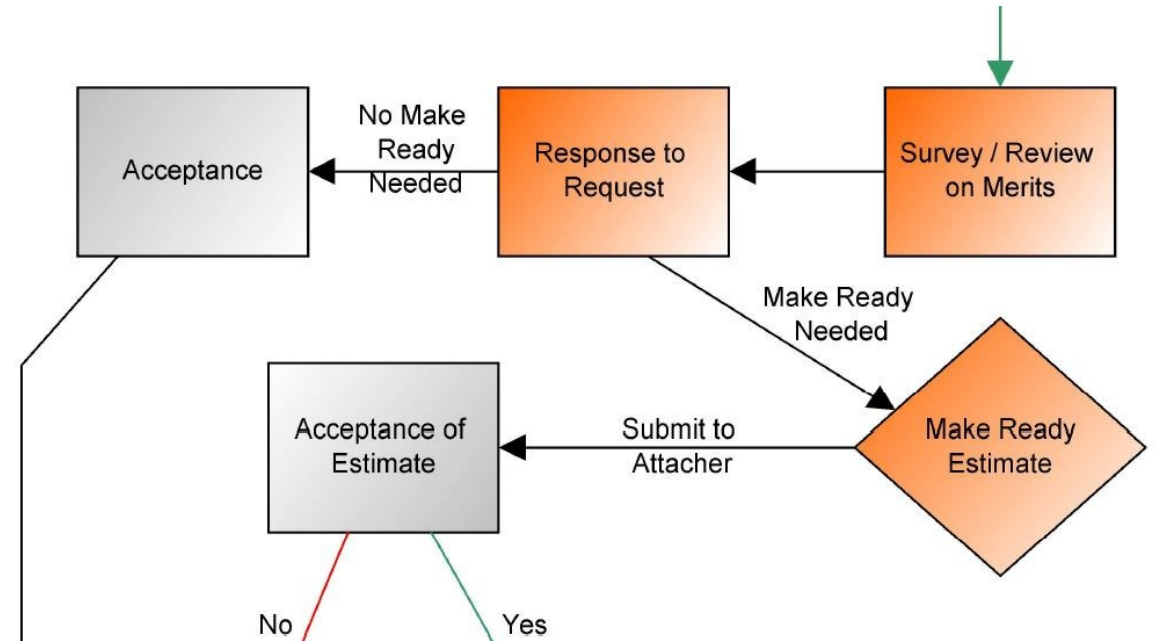
The screenshot displays the AldenOne web application interface. At the top, there is a navigation bar with 'aldenONE' logo, search, and menu options. Below this, a sidebar on the left contains navigation links like 'Assigned To Me', 'All Conversations', and 'Poles on Map'. The main content area shows a permit application for '1666770 Joint-Use Permit to Attach' initiated by 'J&E Permits (Just Engineering Inc)'. The form includes fields for 'Title', 'Description', 'Location', 'State/Fe...', and 'Request Date'. A 'CHECKLIST OF ATTACHED DOCUMENTS' section is visible, with checkboxes for various documents. The bottom of the form shows 'SECTION 1 - APPLICANT' information, including 'Applicant', 'Project Type', 'Attachment Type', 'Contact Name', 'Contact Title', 'Email', 'Address', 'City', 'Zip', 'Phone', 'Application Fee', 'Number of Overlashed Attachments', 'Number of New Attachments', 'Number of Removed Attachments', 'Number of Modified Attachments', 'Make Ready Anticipated', 'One Touch Make Ready', 'Planned Construction Start', 'Planned Construction End Date', 'Site Name', 'Site Address', 'Latitude', 'Longitude', 'Preliminary Cost Estimate', 'Final Make-Ready Cost', and 'Actual Cost'. A 'Documents' section at the bottom lists 'Construction Plans', 'Engineering', and 'Survey Included'.

Permit Process



Pole Owner Review

- Field visit every pole
- Review engineering in office
- Make-Ready Determinations
 - Simple solutions
 - Specific solutions
 - Distribution Eng(Staking)
 - Cost Estimate



Field Review

- Match what was submitted?
- Obvious pre-existing NESC violations?
- Potential for new NESC violations?

The screenshot displays a web application interface for field review. The top navigation bar includes a home icon, a breadcrumb trail 'BGE - Charter - LA11E', an 'EDIT APP' button, and utility icons. Below the navigation bar, there is a search bar, a filter icon, and a record count of '241 records'. A 'SAVE VIEW' button and a 'REFERENCE FILES (1)' button are also present. A 'DOWNLOAD DATA' button is located on the right side of the interface.

The main content area is divided into two sections. On the left, there are 'QUICK FILTERS' for 'Record Updated' and 'Status'. The 'Record Updated' section includes radio buttons for 'All', 'Today', 'Yesterday', 'Last 7 days', 'Last 30 days', 'This Month', 'Last Month', and 'Specific Range'. The 'Status' section includes checkboxes for 'Pole Complete' (green) and 'Span Complete' (yellow). Below the filters, there are date pickers for 'Start date...' and 'End date...'.

The right section features a map with a search bar and a table of records. The map shows a network of utility poles and spans, with green lines indicating 'Pole Complete' and yellow lines indicating 'Span Complete'. The table below the map lists records with the following columns: Status, Title, Updated, Project, Assigned, Updated By, Section, and Sequence Number.

Status	Title	Updated	Project	Assigned	Updated By	Section	Sequence Number
Pole Complete	Pole	3/15/2024, 3:30:53 PM			Elijah Mallet	2	25
Pole Complete	Pole	3/15/2024, 3:24:39 PM			Elijah Mallet	2	26
Pole Complete	Pole	3/15/2024, 3:18:02 PM			Elijah Mallet	2	27
Pole Complete	Pole	3/15/2024, 3:16:19 PM			Elijah Mallet	2	29

Field Review

Navigation and controls: Home, BGE - Charter - LA11E, EDIT APP, +, ⚡, ?, 🗺️

Search and filters: Search your data..., 241 records, SAVE VIEW, REFERENCE FILES (1), DOWNLOAD DATA, 🗺️, 📄, 📋, +

QUICK FILTERS

▼ Record Updated

- All
- Today
- Yesterday
- Last 7 days
- Last 30 days
- This Month
- Last Month
- Specific Range

Start date... [📅] - End date... [📅]
From To

▼ Status

- Pole Complete
- Span Complete

Map: Search places, +, -, 🔄, 🌐, Keyboard shortcuts, Map data ©2024 Google, 2 km, Terms

Status	Title	Updated	Project	Assigned	Updated By	Section	Sequence Number
<input checked="" type="checkbox"/> Pole Complete	Pole	3/15/2024, 3:30:53 PM			Elijah Mallet	2	25
<input checked="" type="checkbox"/> Pole Complete	Pole	3/15/2024, 3:24:39 PM			Elijah Mallet	2	26
<input checked="" type="checkbox"/> Pole Complete	Pole	3/15/2024, 3:18:02 PM			Elijah Mallet	2	27
<input checked="" type="checkbox"/> Pole	Pole	3/15/2024, 3:16:19 PM			Eliiah Mallet	2	29

Engineering Review

- Is the Pole-Loading Analysis (PLA) correct?
- Is any Make-Ready needed?
 - Clearance/separation
 - At pole or in mid-span
 - Pole overloaded

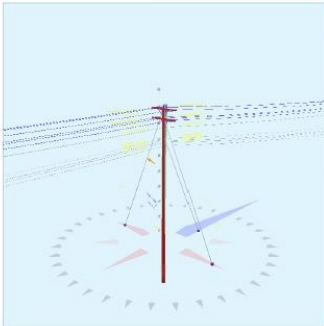
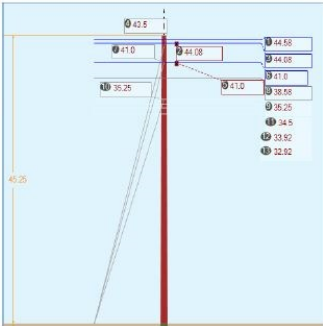
The screenshot displays a GIS application interface for a project titled "BGE - Charter - LA14E". The interface includes a search bar, a map showing a power line route with various colored markers (green, yellow, blue, red), and a data table. The table lists records with columns for Status, Title, Updated, Project, Assigned, Updated By, Section, and Sequence Number. The "Status" column includes checkboxes for various completion and inspection states.

Status	Title	Updated	Project	Assigned	Updated By	Section	Sequence Number
<input type="checkbox"/> Pole Complete	Ocalc Complete	3/21/2024, 7:34:01 AM			Chelsea Tuazon	5	
<input type="checkbox"/> Span Complete	Ocalc Complete	3/21/2024, 7:27:00 AM			Chelsea Tuazon	5	
<input type="checkbox"/> Underground Complete	Ocalc Complete	3/20/2024, 3:08:18 PM			Chelsea Tuazon	5	
<input type="checkbox"/> Go Back	Comm. Make	3/20/2024, 3:02:43 PM			Chelsea Tuazon	5	
<input type="checkbox"/> Did Not Inspect							
<input type="checkbox"/> Incomplete							
<input type="checkbox"/> Ocalc Complete							
<input type="checkbox"/> Post Inspection							
<input type="checkbox"/> Post Inspection Complete							
<input type="checkbox"/> Pole Change Out							
<input type="checkbox"/> Comm. Make Ready							
<input type="checkbox"/> Power Rearrange							

Engineering Review

Pole ID: SCID 04 FID 064-157011.ppk O-Calc® Pro Analysis Report Friday, September 22, 2023 8:39 PM

Pole Num:	SCID 04 FID 064-157011	Pole Length / Class:	60 / 2	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status:	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	14.75	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	41.76	Loading District:	Medium	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.25	Wire Tension LF:	1.30
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	39.53	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	4.00		
Latitude:		Longitude:	0	Elevation:			0'

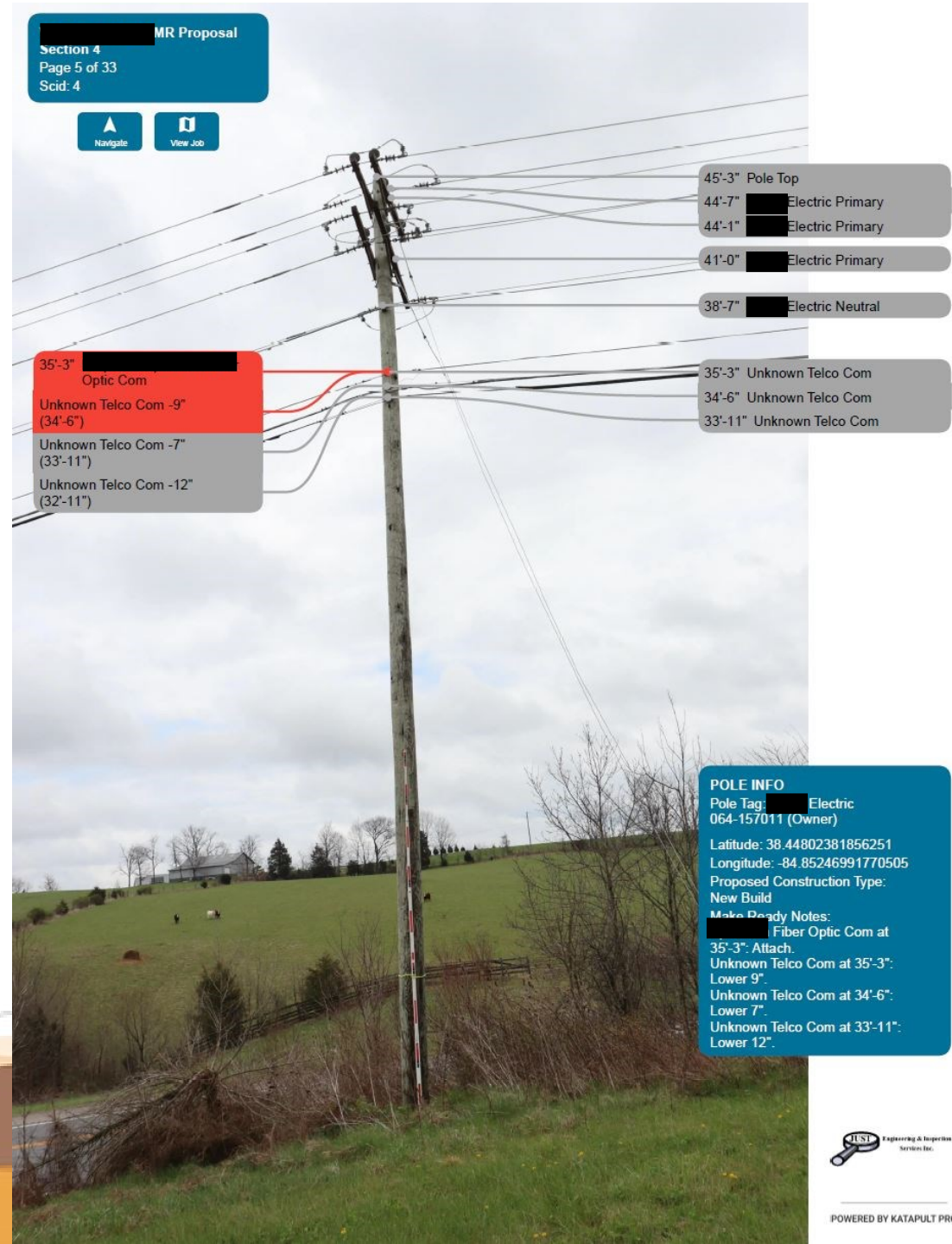



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	30.2	0.0
Groundline	30.2	0.0
Vertical	12.7	37.8

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	36,667	314.1
Groundline	36,667	314.1
GL Allowable	130,658	

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load With Overload Applied	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)
Single Helix Anchor EHS 1/4 (Down)	15.0	8.6	35.3	0.0	294.2	7.6	140.0
Single Helix Anchor EHS 5/16 (Down)	20.0	270.0	43.5	0.0	294.2	45.0	100.0
Single Helix Anchor EHS 5/16 (Down)	20.0	90.0	41.0	40.2	294.2	46.4	280.0
System Capacity Summary:				Adequate		Adequate	

User:rodriguez BMAD OCP:7.00 *Includes Load Factor(s) Page 1 of 5 ²Worst Wind Per Guy Wire ³Wind At 294.2°



POLE INFO

Pole Tag: Electric
064-157011 (Owner)

Latitude: 38.44802381856251
Longitude: -84.85246991770505
Proposed Construction Type: New Build

Make Ready Notes:
 Fiber Optic Com at 35'-3": Attach.
 Unknown Telco Com at 35'-3": Lower 9"
 Unknown Telco Com at 34'-6": Lower 7"
 Unknown Telco Com at 33'-11": Lower 12"

Make Ready

- Report delivered to Cooperative

- Power Make Ready

Pole change out 45/3.

New Comms, Attach, 40" below lowest power
Transfer existing coms.

- Communications Make Ready

Cooperative, Secondary Drip Loop at 25'-6"

New Comms POA = 22' 2"

Unknown Telco Com at 23'-0": Lower 22"

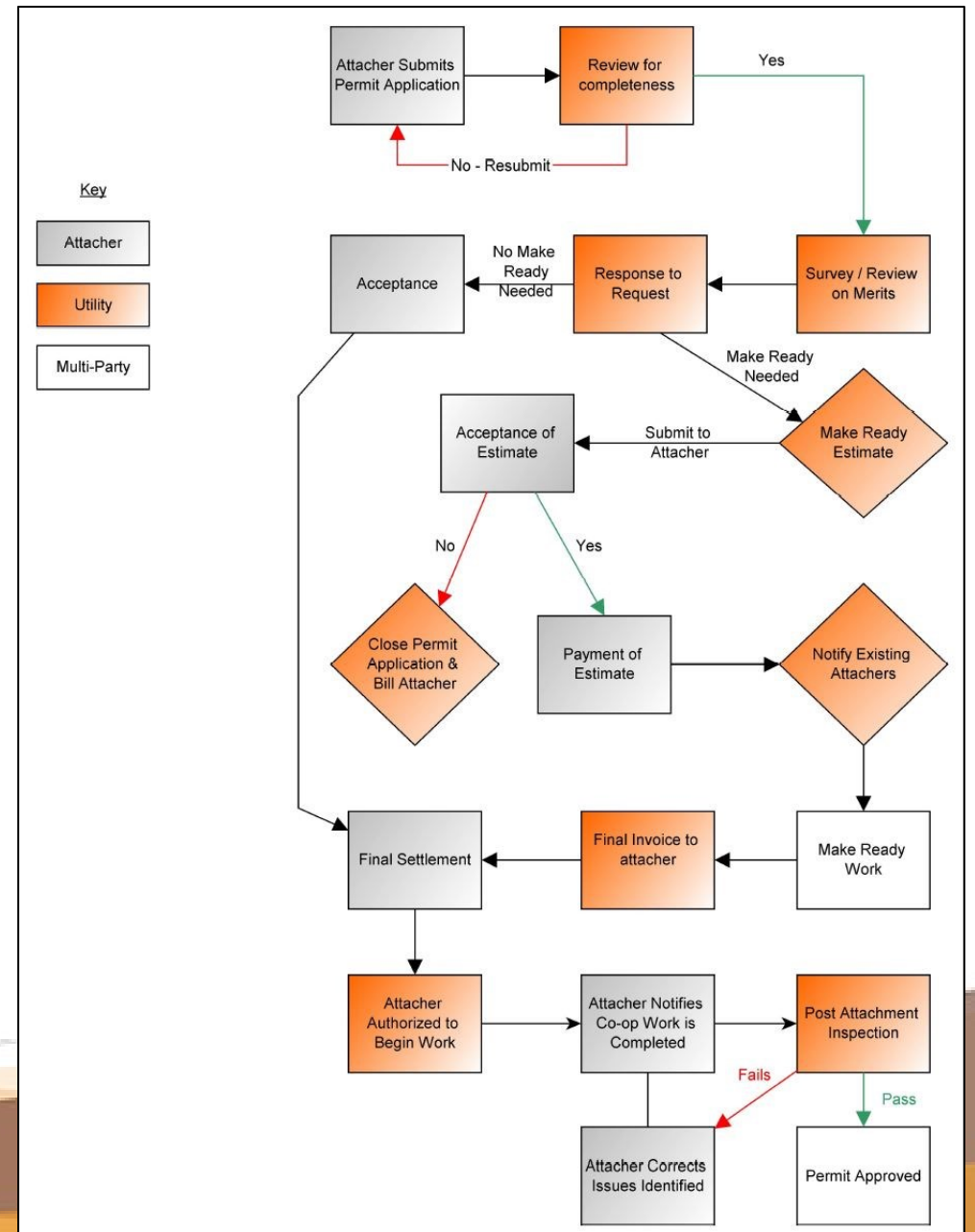
Fidrum ID	status	latitude	longitude	seqst	sequence number	pole numb	inspection typ	make ready pi	power_makeready_needed	pole loading pi	pole load percentag	failure due to new attachment	Pole Hgt	Pole Cls	Comments
656165-66b-457b-466e-ca70e48867	local_complete	38.42862362	-84.87129377	2	4	541203		yes	no	yes		no			attacher POA = 34' (based on provided photo) Neutral at 30'-11" attacher POA = 26'9" Unknown Telco Com at 26'-6"; Lower 12"
350e0312-6a54-478e-b1aa-2f29a4394d	comm_make_ready	38.42835479	-84.87212549	2	5	54128342		yes	no	yes	28.9	no			Neutral at 30'-4" attacher POA = 23' 30" (based on provided photo) Transformer at 27'-9" attacher POA = 23'11"
fd29a16-65c5-44e0-b1f1-8931808ca5e	local_complete	38.42709747	-84.87365287	2	6	54126110		yes	no	yes	23.8	no			Unknown Telco Com at 25'-0"; Lower 25" Neutral at 20'-0" (based on provided photo) attacher POA = 23'9" (based on provided photo)
07449c6-79c-4aa3-888b-7dd21f40008	comm_make_ready	38.43118027	-84.87072343	2	7	11054130869		yes	no	yes	80	no			Neutral at 28'-0" attacher POA = 23'9" (based on provided photo)
0790788-87d-410b-b08e-c0c870a77	power_make_ready	38.43145289	-84.87118758	2	8	54130932		yes	yes	yes	74.8	no			Neutral at 28'-0" attacher POA = 24'8" Unknown Telco Com at 25'-4"; Lower 20" Unknown Telco Com at 25'-1"; Lower 20" attacher POA = 24' 5"
69919600-c2c5-482a-8395-03754b70d550	comm_make_ready	38.43209328	-84.87217949	2	9	54068057		yes	no	yes	87.7	no			Service at 27'-9" attacher POA = 24' 5" OEC Secondary drip loop = 25' 9" install guy. attacher POA = 22' 5" Unknown Coax = 23' Lower 19' 22' 5" 7/16 guy needed backing up for anchor.
ba223c1a-ae9d-45a7-b0d5-4d6a7009496	local_complete	38.39265746	-84.76663551	9	45	37099723		yes	no	yes		no			Unclear why taller pole is suggested. Existing Neutral at 27'-10" Minor elevation change. attacher POA on pole 11 at 20' 1". Neutral 23' 5" attacher POA = 20' 1" Unknown Telco Com at 19'-8"; Lower 7" 19' 1" Unknown Telco Com at 18'-7"; Lower 6" 18' 1"
788a7330-6a40-4c0b-a795-787646a1786	power_make_ready	38.43301367	-84.87356621	2	10	11054166242		yes	no	yes	53.8	no			Provided MR states P.O.D. Taller pole not necessary based on provided photo being added between poles 11 & 12. Install 42" H/R span pole attacher POA 40' below Neutral.
07096ca-3971-469f-8eb-ba2db1e8b58	comm_make_ready	38.43312608	-84.87378015	2	11	11054066216		yes	no	yes	50	no			Transformer at 20'-0" attacher POA = 22' 1"
25a6ae6f-979-42e6-8b7c-eb13a5e9584	midspan_pole	38.43348493	-84.87424249	2	11.1			yes	yes	yes	64.1	no			Install 42" H/R span pole attacher POA = 22' 1"
5a702db-8b1-42e6-853c-c0832bd67e2	local_complete	38.43395025	-84.87502419	2	12	1054064359		yes	no	yes	64.5	no			Transformer at 20'-0" attacher POA = 22' 1"
6080c6f-c88c-4a65-87b-cc138a839a13	midspan_pole	38.43444577	-84.87328936	2	12.1			yes	yes	yes	40.7	no			Neutral at 27'-9" attacher POA = 24' 5" Install 40' midspan pole. attacher POA 40' below Neutral.
6612885-aa71-4877-c938-4a66a50915	local_complete	38.43470662	-84.87616279	2	13	54062592		yes	no	yes	51.3	no			Neutral at 28'-4" attacher POA = 24' 5" Install 40' midspan pole. attacher POA 40' below Neutral.
65b0961a-a319-48bd-87d3-0e600280c916	midspan_pole	38.43517595	-84.87688278	2	13.1			yes	no	yes	47.5	no			Neutral at 28'-4" attacher POA = 24' 5" Install 42' midspan pole.
4c2a7cb-e4e5-4234-88f2-386e4002553	local_complete	38.4356006	-84.87370771	2	14	54060599		yes	no	yes	73.8	no			Neutral at 28'-4" attacher POA = 24' 5" Install 42' midspan pole.



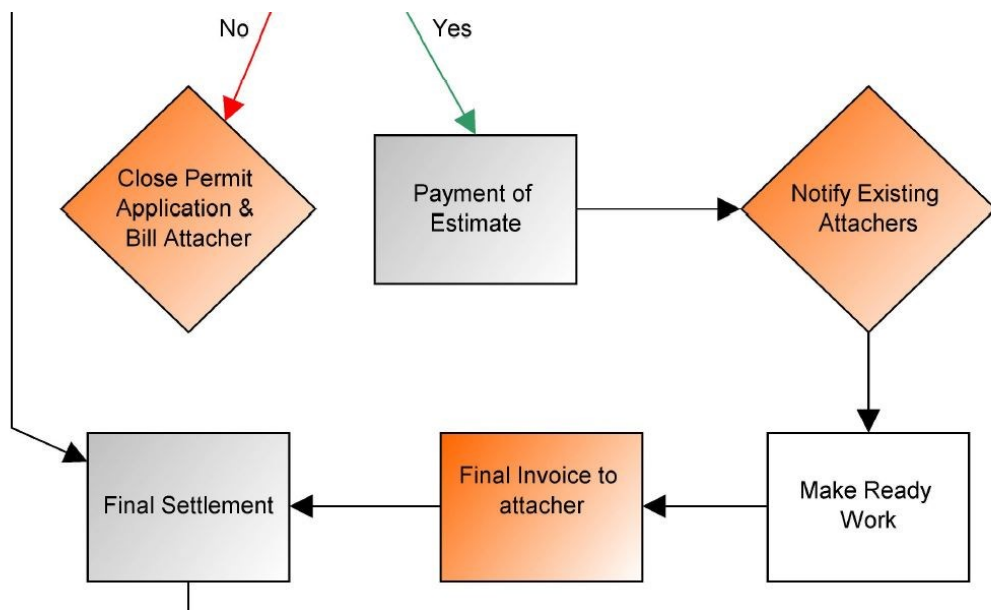
Staking & Make Ready Estimate

- MR solution to specific engineering work order
- Inventory, labor, equipment, and overhead costs
- Make Ready Estimate to requesting attacher

Permit Process



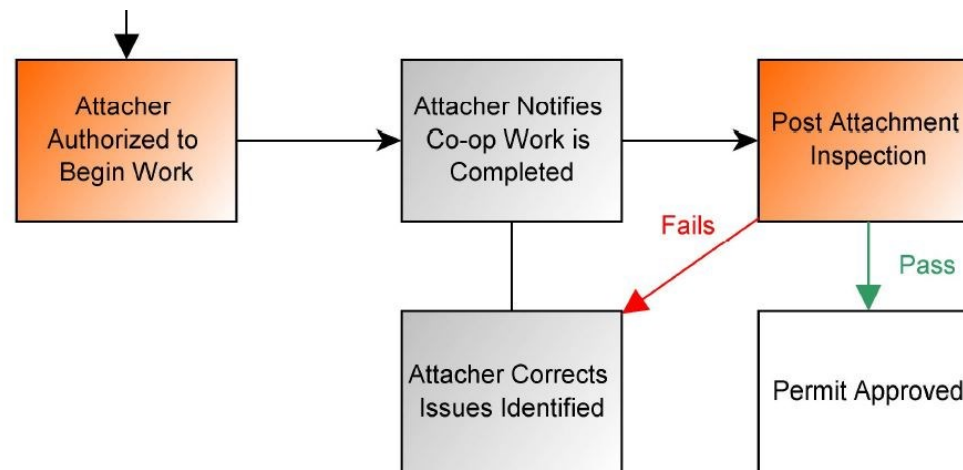
Make-Ready Payment and Construction



- Requesting attacher decision
 - Accept estimate
 - Revise request
 - Cancel request
- Pays estimate
- Pole Owner begins construction process

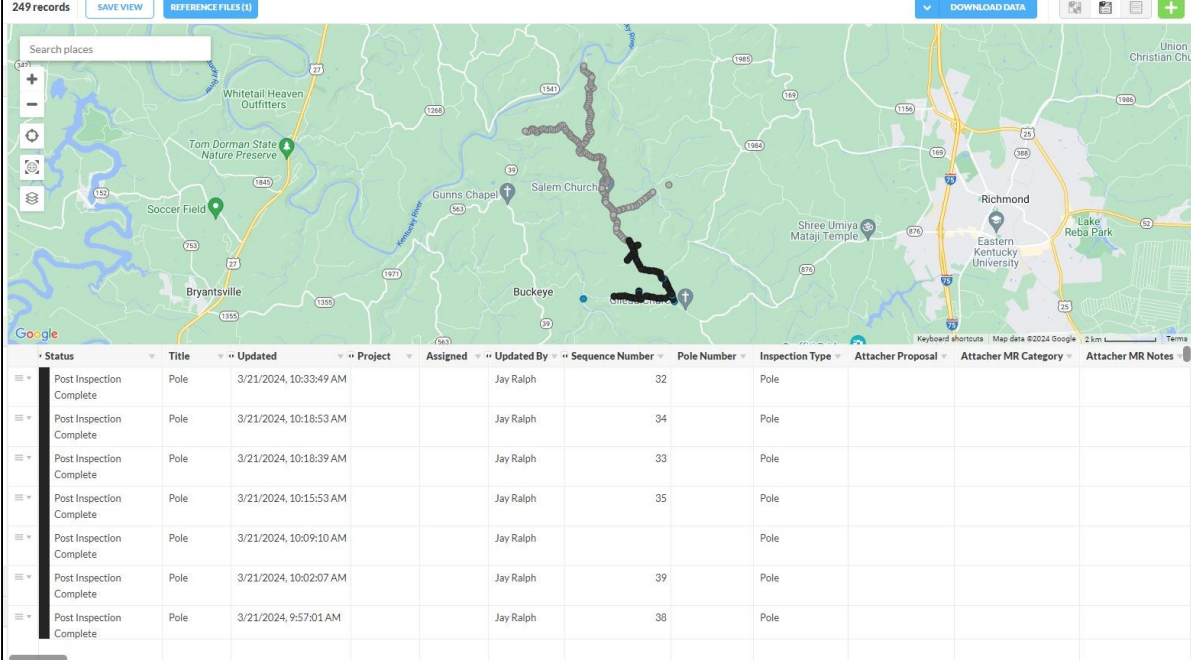
Ready to Attach

- Cooperative notifies Attacher construction is complete
- Attacher completes new attachments
 - Notifies when complete



Post Inspection

- Field visit to verify
 - Completed according to plans
 - No code violations
 - No damage occurred due to work
- Results sent to all parties
- Attacher corrects deficiencies



Status	Title	Updated	Project	Assigned	Updated By	Sequence Number	Pole Number	Inspection Type	Attacher Proposal	Attacher MR Category	Attacher MR Notes
Post Inspection Complete	Pole	3/21/2024, 10:33:49 AM			Jay Ralph		32	Pole			
Post Inspection Complete	Pole	3/21/2024, 10:18:53 AM			Jay Ralph		34	Pole			
Post Inspection Complete	Pole	3/21/2024, 10:18:39 AM			Jay Ralph		33	Pole			
Post Inspection Complete	Pole	3/21/2024, 10:15:53 AM			Jay Ralph		35	Pole			
Post Inspection Complete	Pole	3/21/2024, 10:09:10 AM			Jay Ralph			Pole			
Post Inspection Complete	Pole	3/21/2024, 10:02:07 AM			Jay Ralph		39	Pole			
Post Inspection Complete	Pole	3/21/2024, 9:57:01 AM			Jay Ralph		38	Pole			

Post Inspection Report

fulcrum id	ass	attachment grounded	stub pole	transfer needed	obvious code violations	obvious code violations other	cv comments	Comments
a803511d-8623-4232-82ff-4996f976d72f	yes	no	no	no				
c4715fa1-8647-4669-8569-5652847e86c2	yes	no	no	no				
d508f26f-575d-4186-b2e3-0b874e3c2022	yes	no	no	no				
6984c124-7213-460b-8bce-65bdf4be0cd7	yes	no	no	no				
4d734370-c03a-41cd-9390-679c7c16517d	yes	no	no	no				
b72da072-a0d5-4033-85f8-bb8a906a31d4	yes	no	no	no				
b0f6b7cc-432b-4e5f-a835-77495d3957de	yes	no	no	no				
5aa9db33-0214-4b86-8cba-2b06cddbdf8	yes	no	no	no		Down guy anchor not 5ft inside power down guy anchor		
8390b703-b74a-4df5-8140-25869dfd4692	yes	no	no	no				
342a457d-ba49-411e-981e-2aba1692aeddd	yes	no	no	no				
d086318d-2e2c-4ad9-a1d0-a41b01475f41	yes	no	no	no		Down guy anchor not 5ft inside power anchor		
18dc9f07-d626-40a8-8db1-944dff87759	yes	no	no	no				
a0dc79b3-6bae-42e0-95eb-18bc66ff172b	yes	no	no	no				
b726c02d-31ca-447c-8f69-ea1371d3fde	yes	yes	no	no				
89d9126e-bc19-4e42-b78e-d5410148fa5c	yes	no	no	no		Down guy not 5ft inside power down guy anchor		
13e9392f-3d7e-49a8-b773-1d00af450ec3	yes	no	no	no	Clearance at Pole		Clearance to power secondary riser	
195428d1-eb0a-4e91-a338-75c2b1ecf195	yes	no	no	no				
fdaf7663-970c-4898-b069-f85d19445cc8	yes	no	no	no				
19de60ea-aa0d-4a80-b577-e5e8e51c765d	yes	no	no	no				
1a051927-75e7-4795-9270-40cebb3657da	yes	no	no	no				
24928970-b86f-4a87-a935-232a77f89964	yes	no	no	no				
62ea973b-d6d1-4a03-a9ea-c5279fd07df7	yes	no	no	no				
06a8c8bb-65ad-45c2-b833-c3b34f6af793	yes	no	no	no				
441591cf-609b-417d-9e5e-bec34ed8e8d8	yes	no	no	no				
882b02c1-9f03-4865-b001-6491e9637cf5	yes	no	no	no				
2ddbca13-812b-4415-8633-58841912c082	yes	no	no	no				
4d3187f9-0d73-4c08-8e95-205ac4d95e82	yes	no	no	no				
d6bc9526-6106-4f6c-89b9-c4a92db631ad	yes	no	no	no				
f9ee13e0-f126-4e98-81a2-0cea01c39ce	yes	no	no	no				
1b2dd4dc-cb21-4bec-ae56-cba938b0360a	yes	no	no	no		Down guy anchor not 5ft inside power down guy anchor		
6c2864f8-f78b-4884-8f9d-6592d84c49cd	yes	no	no	no				
6c5052b3-02fa-438d-8899-06c735de8774	no	no	no	no				
1fa3d87c-887b-4d40-b13e-93aa67248b02	yes	no	no	no				
1f97bde8-36b1-42ff-86b0-4ac0bba4eaa8	no	no	no	no				
0635a39c-0b80-48c4-b31d-787437460024	yes	no	no	no		Down guy not 5ft inside power down guy anchor		
0ebb69ca-67a6-477d-9dea-03f52a43a47e	yes	no	no	no				
2be1801d-7c86-4fe5-948a-5dd43cae5431	yes	no	no	no		Down anchor not 5ft inside power down guy anchor		



Long-Lived Permits - Reconciliation

	Delayed or Reprioritized	Payment Delays	Ready to Attach	Not Submitted	Total
Fleming Mason	2651	531	464	-	3646
Blue Grass	33	245	2	264	544
Inter County	646	522	280	-	1448

Owen Electric Cooperative

Pending Permits by Age	0-3 Mos	4-6 Mos	7-9 Mos	10-12 Mos	1+ Year	Total
Total	495	1159	0	0	0	1654

Survey Revision(rework)	130	815	0	0	0	945
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Revisions required for *every pole permit application*

- Failure to meet construction standards required by tariff
- Missing pole loading analysis or data to perform pole loading analysis
- Transmission crossings
- Cost of Make-Ready
- Inappropriate Make-Ready requests
- Additional MR found during the survey process
- Additional MR during the attachment process
- Property owner disagreements

Permitting Issues

- Missing Sections (creates a "hole" in the project, makes it impossible to complete review and build).
 - Examples: CY03E - Section 8 - Owen Electric; RI24e - Section 3 - Blue Grass Energy.
- Duplicate submissions under different names. Wastes resources and creates confusion.
 - Examples: FG36E and FG72E submitted to InterCounty; DV31E and DV11E submitted to InterCounty
- Pole-loading errors or submissions missing pole-loading files.
- Unauthorized attachments (failure to submit permit).