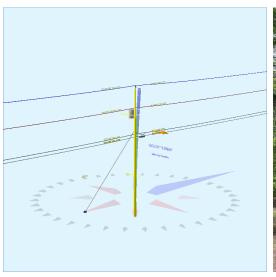
Pole Num:	116861791_P52	Pole Length /	Class:	45 / 4	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1	Unset	Species:	sou	THERN PINE	NESC Rule:	Rule 250B	Status G	uy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.50	Construction Grade:	С	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	rence (in):	34.82	Loading District:	Light	Transverse Wind LF	:	1.75
Aux Data 4	Unset	G/L Fiber Str	ess (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:		1.30
Aux Data 5	Unset	Allowable Str	ess (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:		1.90
Aux Data 6	Unset	Fiber Stress I	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:		0.00000	<b>00 Deg</b> Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Ut	ilization (%)	Height (ft)	Wind Angle (deg)
Maximum	32.2	0.0	91.2
Groundline	32.2	0.0	91.2
Vertical	1.6	22.2	0.0

Pole Moments (ft-I	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	24,010	93.2	91.2
Groundline	24,010	93.2	91.2
GL Allowable	75,750		

Guy System Component Summary				Load From V		Individual Ma	ximum Load
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
Single Helix Anchor	23.0	180.0		0.0	91.2	2.6	0.0
EHS 3/8 (Down)			24.0	0.0	91.2	4.1	0.0
	•	System Capaci	ty Summary:	Adeq	uate	Aded	uate

Groundline Load Summary	/ - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 93.2	0					
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
Powers	149	14.5	5,425	22.6	7.2	487	228	2	489	7.2
Comms	320	31.1	7,335	30.6	9.7	658	456	5	663	9.8
GuyBraces	8	8.0	195	0.8	0.3	18	6	0	18	0.3
PowerEquipments	82	7.9	2,515	10.5	3.3	226	636	7	232	3.4
Pole	449	43.6	7,924	33.0	10.5	711	1,928	20	731	10.8
Insulators	22	2.1	617	2.6	0.8	55	34	0	56	0.8
Pole Load	1,029	100.0	24,010	100.0	31.7	2,155	3,289	34	2,189	32.2
Pole Reserve Capacity			51,740		68.3	4,645			4,611	67.8

Load Summary by Owner	- Reporting An	gle Mode: Lo	ad - Reporting	Angle: 93.2°						
	Shear Load* (lbs)	Applied Load (%)	Bending Moment (ft-lb)	Applied Moment (%)	Pole Capacity (%)	Bending Stress (+/- psi)	Vertical Load (lbs)	Vertical Stress (psi)	Total Stress (psi)	Pole Capacity (%)
FPL	598	58.1	13,349	55.6	17.6	1,198	2,156	22	1,221	18.0
CATV	76	7.4	1,803	7.5	2.4	162	114	1	163	2.4
AT&T	244	23.7	5,532	23.0	7.3	497	342	4	500	7.4
<undefined></undefined>	112	10.8	3,326	13.9	4.4	299	677	7	306	4.5
Totals:	1,029	100.0	24,010	100.0	31.7	2,155	3,289	34	2,189	32.2

**Detailed Load Components:** 

Power	·	Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	FPL	FPL	39.53	3.34	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-3,453	16	1,476	-1,961
Primary	FPL	FPL	39.53	3.34	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	3,453	16	1,476	4,945
Secondary	FPL	FPL	31.97	5.71	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,792	27	1,194	-1,572
Secondary	FPL	FPL	31.97	5.71	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,792	27	1,194	4,013
											Totals:	0	85	5,339	5,425

Comm		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (lbs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (lbs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,006	30	886	-1,091
CATV	CATV	CATV	22.97	6.23	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,006	30	858	2,893

										- Г	Totals:	0	238	7,097	7,335
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,919	30	820	2,769
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,919	30	820	-1,069
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,919	30	820	2,769
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,919	30	820	-1,069
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,919	30	820	2,769
Telco	AT&T	AT&T	21.97	6.28	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,919	30	1,252	-637

PowerEquipmer	nt	Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer	1PH-15KVA		30.00	20.83	180.0	180.0	335.00	34.00		22.00		62	2,453	2,515
											Totals:	62	2,453	2,515

Insulator		Owner	Height (ft)	Horiz. Offset	Offset Angle	Rotate Angle	Unit Weight	Unit Diameter	Unit Length	Offset Moment*	Wind Moment*	Moment at GL*
D I I	D		00.50	(in)	(deg)	(deg)	(lbs)	(in)	(in)	(ft-lb)	(ft-lb)	(ft-lb)
Deadend	Deadend 12.75"		38.50	0.00	90.0	90.0	3.00	3.80	12.75	2	204	205
Bolt	Deadend 12.75"		32.00	0.00	90.0	90.0	3.00	2.00	15.00	3	105	108
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	3	75	78
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	3	72	75
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	3	72	75
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	3	72	75
									Totals:	16	601	617

Guy Wire and Br	ace	Owner	Attach Height (ft)	End Height (ft)	Lead/Span Length (ft)	Wire Diameter (in)	Percent Solid (%)	Lead Angle (deg)	Incline Angle (deg)	Wire Weight (lbs/ft)	Rest Length (ft)	Stretch Length (in)
EHS 3/8	Down		24.00	0.00	23.00	0.375	75.00	180.0	46.1	0.273	31.50	0.00

Guy Wire and Brace (Loads and Reactions)		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension* <sup>2</sup> (lbs)	Maximum Tension <sup>2</sup> (lbs)	Applied Tension <sup>3</sup> (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	565	514	0	0	0	0	195
									Totals:	0	0	0	195

Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load² (lbs)	Load at Pole MCU <sup>3</sup> (lbs)	Max Required Capacity² (%)
Single Helix Anchor		18.00	23.00	180.0	20,000	1.00	20,000	514	0	2.6

Pole Buckli	ing												
Buckling Constant	Buckling Column Height* (ft)	Buckling Section Height (% Buckling Col. Hgt.)	Buckling Section Diameter (in)	Minimum Buckling Diameter at GL (in)	Diameter at Tip (in)	Diameter at GL (in)	Modulus of Elasticity (psi)	Pole Density (pcf)	Ice Density (pcf)	Pole Tip Height (ft)	Buckling Load Capacity at Height (lbs)	Buckling Load Applied at Height (lbs)	Buckling Load Factor of Safety
0.71	22.22	33.44	10.23	8.24	6.69	11.09	1.60e+6	60.00	57.00	38.50	203,375	2055.44	62.50

Notes									
Date	Author	Description							
1/27/2021		Power Company Request							
Power company load data has been requested. Email sent to Elmer Pole									
1/27/2021 General Description									
General Statement: Non-AT&T facilities may not be accurately identified pending attachment information from attaching party.									