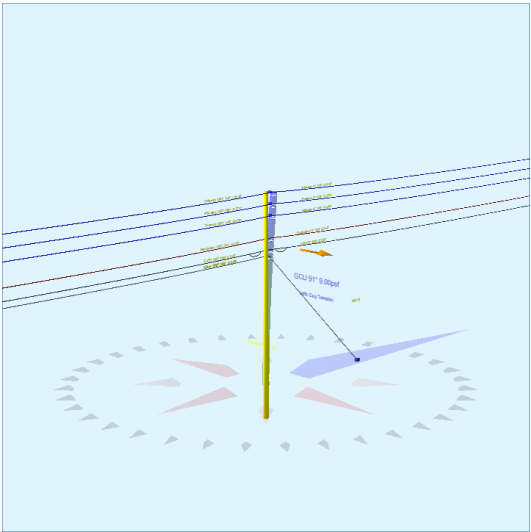


Pole Num:	116875337_P14	Pole Length / Class:	40 / 2	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	38.50	Loading District:	Light	Transverse Wind LF:	1.75
Aux Data 4	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:	1.30
Aux Data 5	Unset	Allowable Stress (psi):	6,800	Wind Speed (mph):	59.29	Vertical LF:	1.90
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	9.00		
Latitude:	0.000000 Deg	Longitude:	0.000000 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	22.2	0.0
Groundline	22.2	0.0
Vertical	2.1	21.4

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	21,804	104.0
Groundline	21,804	104.0
GL Allowable	102,391	

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max Load Capacity (%)	Wind Angle (deg)
Single Helix Anchor	24.0	0.0		19.9	91.2	21.8	180.0
EHS 3/8 (Down)			23.0	28.7	91.2	34.6	180.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 104.0°										
	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	290	29.6	9,019	41.4	8.8	599	456	4	603	8.9
Comms	901	92.0	20,893	95.8	20.4	1,388	228	2	1,390	20.4
GuyBraces	-680	-69.4	-15,896	-72.9	-15.5	-1,056	4,167	35	-1,020	-15.0
Pole	440	44.9	6,949	31.9	6.8	462	2,192	19	480	7.1
Insulators	28	2.9	839	3.9	0.8	56	40	0	56	0.8
Pole Load	980	100.0	21,804	100.0	21.3	1,448	7,082	60	1,508	22.2
Pole Reserve Capacity			80,587		78.7	5,352			5,292	77.8

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 104.0°										
	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 (%)
FPL	730	74.5	15,968	73.2	15.6	1,060	2,648	22	1,083	15.9
CATV	75	7.7	1,858	8.5	1.8	123	114	1	124	1.8
AT&T	826	84.3	19,035	87.3	18.6	1,264	114	1	1,265	18.6
<Undefined>	-652	-66.5	-15,057	-69.1	-14.7	-1,000	4,206	36	-964	-14.2
Totals:	980	100.0	21,804	100.0	21.3	1,448	7,082	60	1,508	22.2

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	33.97	16.73	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-12,798	18	1,233	-11,547
Primary	FPL	FPL	33.97	16.73	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	12,798	18	1,233	14,049
Primary	FPL	FPL	31.97	16.86	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-12,044	19	1,160	-10,865
Primary	FPL	FPL	31.97	16.86	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	12,044	19	1,160	13,223
Primary	FPL	FPL	29.97	16.98	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-11,291	20	1,088	-10,184
Primary	FPL	FPL	29.97	16.98	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	11,291	20	1,088	12,398
Secondary	FPL	FPL	25.97	6.48	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-9,784	30	942	-8,811
Secondary	FPL	FPL	25.97	6.48	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	9,784	30	942	10,756
Totals:											0	173	8,846	9,019	

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)
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CATV	CATV	CATV	23.97	6.61	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-9,030	30	899	-8,101
CATV	CATV	CATV	23.97	6.61	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	9,030	30	899	9,959
Telco	AT&T	AT&T	22.97	6.67	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	8,653	31	834	9,518
Telco	AT&T	AT&T	22.97	6.67	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	8,653	31	834	9,518
Totals:												17,307	122	3,464	20,893

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Deadend	Deadend 12.75"		34.00	0.00	90.0	90.0	3.00	3.80	12.75	8	176	183
Deadend	Deadend 12.75"		32.00	0.00	90.0	90.0	3.00	3.80	12.75	8	165	173
Deadend	Deadend 12.75"		30.00	0.00	90.0	90.0	3.00	3.80	12.75	8	155	163
Bolt	Deadend 12.75"		26.00	0.00	90.0	90.0	3.00	2.00	15.00	3	83	86
Bolt	Deadend 12.75"		24.00	0.00	90.0	90.0	3.00	2.00	15.00	3	77	80
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	3	74	77
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	3	74	77
									Totals:	35	803	839

Guy Wire and Brace		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		23.00	0.00	24.00	0.375	75.00	0.0	43.6	0.273	31.46	0.79

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*2 (lbs)	Maximum Tension² (lbs)	Applied Tension³ (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	4,802	4,365	3,975	2,743	2,877	-695	-15,896
									Totals:	2,743	2,877	-695	-15,896

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 MCU³ (lbs)	Max Required Capacity² (%)
Single Helix Anchor			18.00	24.00	0.0	20,000	1.00	20,000	4,365	3,975	21.8

Pole Buckling													
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	21.44	33.32	11.35	11.68	7.96	12.26	1.60e+6	60.00	57.00	34.00	330,489	3372.48	47.62

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.		