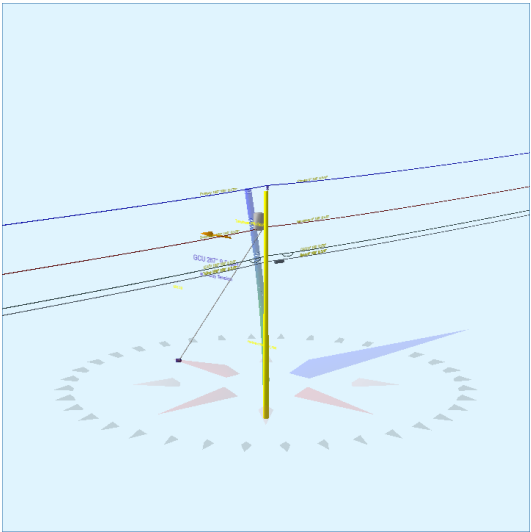


Pole Num:	116877085_P88	Pole Length / Class:	40 / 2	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (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	19.8	0.0	267.2
Groundline	19.8	0.0	267.2
Vertical	0.9	20.4	90.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	19,863	265.3	267.2
Groundline	19,863	265.3	267.2
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	23.0	270.0		0.0	267.2	4.9	92.7
EHS 3/8 (Down)			28.0	0.0	267.2	7.7	92.7
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 265.3°										
	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	15.8	4,594	23.1	4.5	305	228	2	307	4.5
Comms	242	25.7	5,207	26.2	5.1	346	342	3	349	5.1
GuyBraces	0	0.0	1	0.0	0.0	0	7	0	0	0.0
PowerEquipments	82	8.7	2,464	12.4	2.4	164	636	5	169	2.5
Pole	451	47.8	7,120	35.8	7.0	473	2,192	19	491	7.2
Insulators	18	2.0	477	2.4	0.5	32	28	0	32	0.5
Pole Load	942	100.0	19,863	100.0	19.4	1,319	3,433	29	1,348	19.8
Pole Reserve Capacity			82,528		80.6	5,481			5,452	80.2

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 265.3°										
	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	600	63.7	11,714	59.0	11.4	778	2,420	21	798	11.7
CATV	77	8.2	1,704	8.6	1.7	113	114	1	114	1.7
AT&T	165	17.5	3,503	17.6	3.4	233	228	2	235	3.4
<Undefined>	100	10.6	2,942	14.8	2.9	195	672	6	201	3.0
Totals:	942	100.0	19,863	100.0	19.4	1,319	3,433	29	1,348	19.8

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	35.03	3.98	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-4,489	-19	1,304	-3,204
Primary	FPL	FPL	35.03	3.98	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	4,489	-19	1,304	5,775
Secondary	FPL	FPL	27.97	6.36	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-3,584	-30	1,041	-2,573
Secondary	FPL	FPL	27.97	6.36	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	3,584	-30	1,041	4,596
Totals:											0	-97	4,692	4,594	

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	6.67	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,944	-32	883	-2,092
CATV	CATV	CATV	22.97	6.67	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,944	-32	883	3,795

Telco	AT&T	AT&T	21.97	6.74	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,815	-32	1,177	-1,671
Telco	AT&T	AT&T	21.97	6.74	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,815	-32	818	3,601
Telco	AT&T	AT&T	21.97	6.74	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-2,815	-32	818	-2,029
Telco	AT&T	AT&T	21.97	6.74	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	2,815	-32	818	3,601
Totals:												0	-191	5,398	5,207

PowerEquipment		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	29.00	21.29	180.0	180.0	335.00	34.00	--	22.00	--	93	2,371	2,464
Totals:												93	2,371	2,464

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	-2	180	178
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	92	89
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	75	72
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	72	69
									Totals:	-14	492	477

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	28.00	0.00	23.00	0.375	75.00	270.0	50.4	0.273	34.51	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*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	1,068	971	0	0	0	0	1
Totals:									0	0	0	1	

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 Load ² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity ² (%)
Single Helix Anchor			18.00	23.00	270.0	20,000	1.00	20,000	971	0	4.9

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	20.40	33.16	11.40	8.07	7.96	12.26	1.60e+6	60.00	57.00	34.00	371,602	3814.79	111.11

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.		