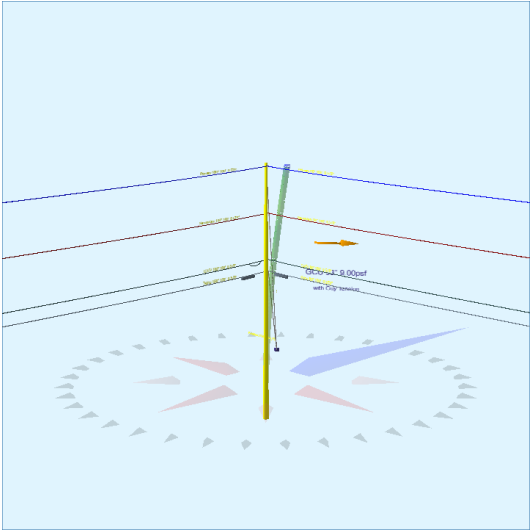


Pole Num:	116871844_P5	Pole Length / Class:	45 / 4	Code:	NESC	Structure Type:	Angle
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.50	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	34.82	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	49.9	0.0
Groundline	49.9	0.0
Vertical	17.5	29.6

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	35,753	64.4
Groundline	35,753	64.4
GL Allowable	75,750	

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	320.0		65.1	52.8	68.3	125.6
EHS 3/8 (Down)			38.0	39.8	52.8	44.8	125.6
EHS 3/8 (Down)			23.0	54.8	52.8	64.4	150.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 64.4°										
	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	1,541	100.1	52,439	146.7	69.2	4,707	228	2	4,710	69.3
Comms	1,565	101.6	32,899	92.0	43.4	2,953	228	2	2,956	43.5
GuyBraces	-2,015	-130.8	-57,592	-161.1	-76.0	-5,170	15,232	158	-5,012	-73.7
Pole	440	28.5	7,766	21.7	10.3	697	1,928	20	717	10.5
Insulators	10	0.6	241	0.7	0.3	22	23	0	22	0.3
Pole Load	1,540	100.0	35,753	100.0	47.2	3,210	17,639	183	3,392	49.9
Pole Reserve Capacity			39,997		52.8	3,590			3,408	50.1

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 64.4°										
	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	1,981	128.6	60,205	168.4	79.5	5,405	2,156	22	5,427	79.8
CATV	772	50.1	17,005	47.6	22.5	1,527	114	1	1,528	22.5
AT&T	793	51.5	15,894	44.5	21.0	1,427	114	1	1,428	21.0
<Undefined>	-2,006	-130.2	-57,351	-160.4	-75.7	-5,148	15,255	158	-4,990	-73.4
Totals:	1,540	100.0	35,753	100.0	47.2	3,210	17,639	183	3,392	49.9

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	37.97	3.37	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	53,432	14	370	53,817
Primary	FPL	FPL	37.97	3.37	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-25,560	14	1,021	-24,525
Secondary	FPL	FPL	29.97	5.83	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	42,174	25	292	42,491
Secondary	FPL	FPL	29.97	5.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-20,174	25	806	-19,344
											Totals:	49,871	79	2,489	52,439

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	21.97	6.28	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	30,915	27	214	31,157
CATV	CATV	CATV	21.97	6.28	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-14,789	27	610	-14,152
Telco	AT&T	AT&T	19.97	6.40	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	28,101	27	314	28,443

Telco	AT&T	AT&T	19.97	6.40	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-13,442	27	866	-12,549
											Totals:	30,785	109	2,005	32,899

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"		38.00	0.00	90.0	90.0	3.00	3.80	0.00	1	0	1
Bolt	Deadend 12.75"		30.00	0.00	90.0	90.0	3.00	2.00	15.00	2	96	99
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	3	71	73
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	3	64	67
									Totals:	9	231	241

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		38.00	0.00	23.00	0.375	75.00	320.0	58.6	0.273	42.77	1.49
EHS 3/8	Down		23.00	0.00	23.00	0.375	75.00	320.0	44.9	0.273	30.78	1.47

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	6,212	5,647	5,521	4,713	2,875	-717	-26,767
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	8,924	8,113	7,589	5,353	5,379	-1,341	-30,825
									Totals:	10,066	8,254	-2,057	-57,592

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	23.00	320.0	20,000	1.00	20,000	13,661	13,015	68.3

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	29.60	34.58	9.91	21.40	6.69	11.09	1.60e+6	60.00	57.00	38.50	100,896	1007.93	5.71

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.