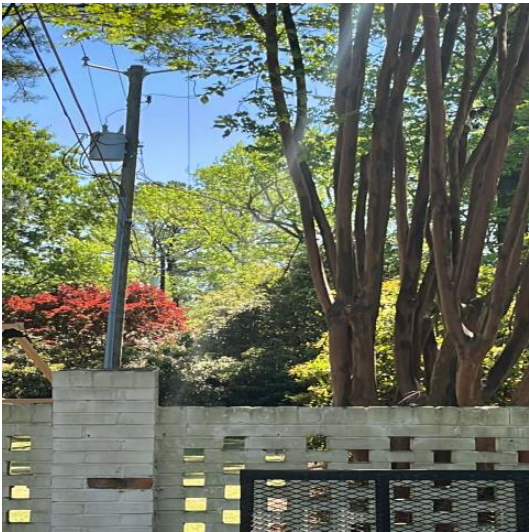
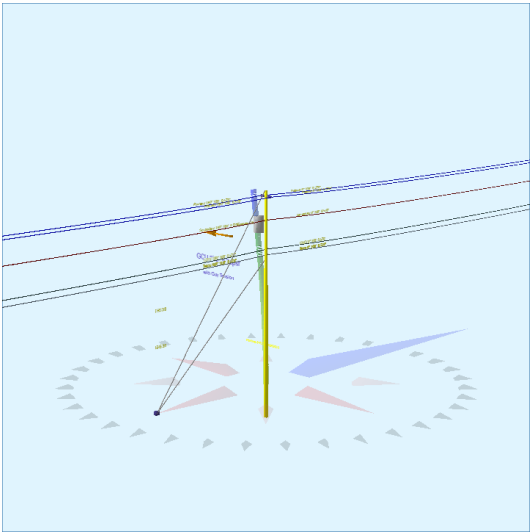


Pole Num:	P.R731_116858871	Pole Length / Class:	40 / 5	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	31.00	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	42.2	0.0
Groundline	42.2	0.0
Vertical	2.3	22.4

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	22,251	268.1
Groundline	22,251	268.1
GL Allowable	53,452	

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	25.0	180.0		0.2	270.0	2.3	320.0
EHS 3/8 (Down)			34.0	0.3	270.0	1.2	320.0
EHS 3/8 (Down)			22.0	0.0	270.0	2.4	0.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 268.1°										
	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	224	24.2	7,046	31.7	13.2	896	342	4	901	13.2
Comms	224	24.2	5,067	22.8	9.5	645	342	4	649	9.5
GuyBraces	19	2.1	555	2.5	1.0	71	58	1	71	1.0
PowerEquipments	82	8.8	3,369	15.1	6.3	429	636	8	437	6.4
Pole	355	38.2	5,551	25.0	10.4	706	1,364	18	724	10.6
Insulators	24	2.6	664	3.0	1.2	84	34	0	85	1.2
Pole Load	928	100.0	22,251	100.0	41.6	2,831	2,777	36	2,867	42.2
Pole Reserve Capacity			31,201		58.4	3,969			3,933	57.8

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 268.1°										
	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	579	62.4	12,597	56.6	23.6	1,603	1,706	22	1,625	23.9
CATV	75	8.1	1,739	7.8	3.3	221	114	1	223	3.3
AT&T	150	16.1	3,328	15.0	6.2	423	228	3	426	6.3
<Undefined>	125	13.4	4,588	20.6	8.6	584	729	10	593	8.7
Totals:	928	100.0	22,251	100.0	41.6	2,831	2,777	36	2,867	42.2

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	32.97	15.83	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,705	-15	1,233	-487
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,705	-15	1,233	2,923
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,705	15	1,233	-458
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,705	15	1,233	2,952
Secondary	FPL	FPL	28.97	5.30	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,498	-25	1,083	-441
Secondary	FPL	FPL	28.97	5.30	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,498	-25	1,083	2,556
Totals:											0	-50	7,096	7,046	

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	5.59	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,240	-27	896	-370
CATV	CATV	CATV	23.97	5.59	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,240	-27	896	2,109
Telco	AT&T	AT&T	22.97	5.64	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,188	-27	859	-356
Telco	AT&T	AT&T	22.97	5.64	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,188	-27	859	2,020
Telco	AT&T	AT&T	22.97	5.64	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-1,188	-27	859	-356
Telco	AT&T	AT&T	22.97	5.64	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	1,188	-27	859	2,020
Totals:											0	-160	5,227	5,067	

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	28.00	20.36	270.0	270.0	335.00	34.00	--	22.00	--	1,079	2,289	3,369
Totals:											1,079	2,289	3,369

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"		33.00	0.00	90.0	90.0	3.00	3.80	12.75	-8	175	167
Deadend	Deadend 12.75"		33.00	0.00	270.0	270.0	3.00	3.80	12.75	8	175	182
Bolt	Deadend 12.75"		29.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	95	93
Bolt	Deadend 12.75"		24.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	79	76
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	75	73
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	75	73
									Totals:	-11	674	664

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	34.00	0.00	25.00	0.375	75.00	180.0	53.5	0.273	40.55	0.01
EHS 3/8	Down	22.00	0.00	25.00	0.375	75.00	180.0	41.2	0.273	31.57	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	168	153	37	29	22	1	376
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	329	299	0	0	0	0	179
									Totals:	29	22	1	555

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	25.00	180.0	20,000	1.00	20,000	449	36	2.2

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	22.44	33.83	9.01	7.53	6.05	9.87	1.60e+6	60.00	57.00	34.00	120,061	1207.42	43.48

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.		