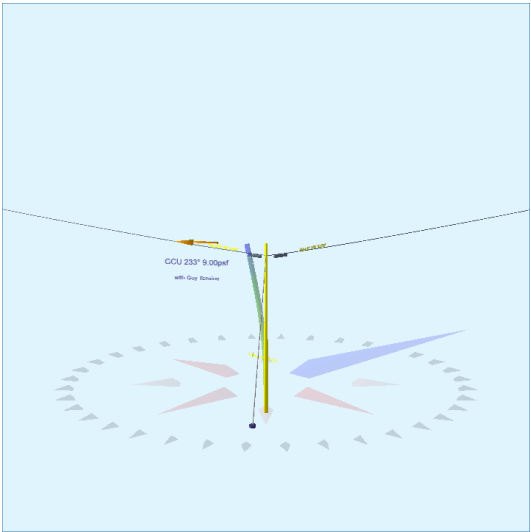


Pole Num:	116859937_P36	Pole Length / Class:	30 / 5	Code:	NESC	Structure Type:	Angle
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	5.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	27.85	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	38.8	0.0
Groundline	38.8	0.0
Vertical	9.2	21.9

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	14,380	239.1
Groundline	14,380	239.1
GL Allowable	38,775	

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	140.0		29.6	232.8	30.8	320.0
EHS 3/8 (Down)			23.0	42.7	232.8	48.9	320.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 239.1°										
	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 (%)
Comms	1,175	155.2	26,912	187.2	69.4	4,720	228	4	4,723	69.5
GuyBraces	-668	-88.1	-15,527	-108.0	-40.0	-2,723	6,185	100	-2,623	-38.6
Pole	243	32.1	2,848	19.8	7.4	500	875	14	514	7.6
Insulators	7	0.9	146	1.0	0.4	26	11	0	26	0.4
Pole Load	758	100.0	14,380	100.0	37.1	2,522	7,299	118	2,640	38.8
Pole Reserve Capacity			24,395		62.9	4,278			4,160	61.2

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 239.1°										
	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 (%)
AT&T	1,175	155.2	26,912	187.2	69.4	4,720	228	4	4,723	69.5
<Undefined>	-661	-87.3	-15,381	-107.0	-39.7	-2,697	6,197	100	-2,597	-38.2
FPL	243	32.1	2,848	19.8	7.4	500	875	14	514	7.6
Totals:	758	100.0	14,380	100.0	37.1	2,522	7,299	118	2,640	38.8

Detailed Load Components:

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)
Telco	AT&T	AT&T	22.97	5.14	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-18,377	-21	948	-17,449
Telco	AT&T	AT&T	22.97	5.14	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	30,759	-21	430	31,168
Telco	AT&T	AT&T	22.97	5.14	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	-18,377	-21	588	-17,810
Telco	AT&T	AT&T	22.97	5.14	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	30,759	-21	266	31,004
Totals:												24,764	-84	2,232	26,913

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)
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	75	73
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	75	73
									Totals:	-4	150	146

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 3/8Down		23.00	0.00	24.00	0.375	75.00	140.0	43.7	0.273	31.55	1.18

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 3/8Down	2.30e+7	15,400	0.90	13,860	700	6,775	6,159	5,920	4,086	4,283	-681	-15,527
Totals:									4,086	4,283	-681	-15,527

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	140.0	20,000	1.00	20,000	6,159	5,920	30.8

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	21.91	34.18	8.02	11.84	6.05	8.87	1.60e+6	60.00	57.00	25.00	78,973	793.39	10.87

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.		