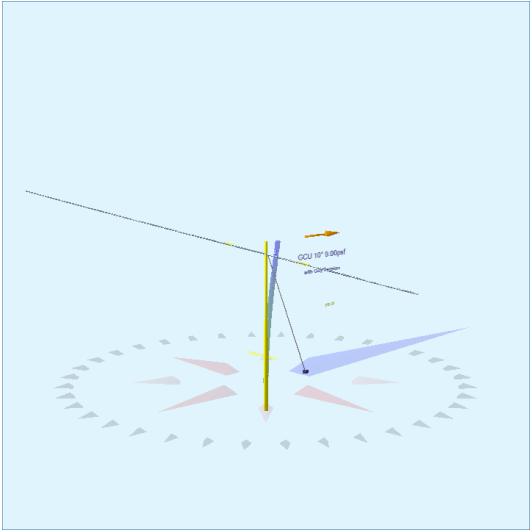


Pole Num:	113893429_P7	Pole Length / Class:	30 / 5	Code:	NESC	Structure Type:	Guyed Tangent
Aux Data 1	A05366S	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	5.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (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:	26.207280 Deg	Longitude:	-80.113720 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	17.9	0.0	10.0
Groundline	17.9	0.0	10.0
Vertical	0.4	13.7	180.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	6,845	10.4	10.0
Groundline	6,845	10.4	10.0
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)
Expanding - 10" 8-Way - Soil Class 4	10.0	0.0		0.0	10.0	3.5	185.6
EHS 3/8 (Down)			23.0	0.0	10.0	5.0	185.6
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 10.4°

	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 (%)
Comms	176	41.9	3,979	58.1	10.3	698	161	3	700	10.3
GuyBraces	0	0.0	4	0.1	0.0	1	5	0	1	0.0
Pole	245	58.1	2,866	41.9	7.4	503	875	14	517	7.6
Insulators	0	0.0	-4	-0.1	0.0	-1	10	0	-1	0.0
Pole Load	421	100.0	6,845	100.0	17.7	1,201	1,049	17	1,217	17.9
Pole Reserve Capacity			31,930		82.3	5,600			5,583	82.1

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 10.4°

	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 (%)
AT&T	176	41.9	3,979	58.1	10.3	698	161	3	700	10.3
<Undefined>	0	0.0	0	0.0	0.0	0	14	0	0	0.0
FPL	245	58.1	2,866	41.9	7.4	503	875	14	517	7.6
Totals:	421	100.0	6,845	100.0	17.7	1,201	1,049	17	1,217	17.9

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)
Overlashed Bundle	6M STRAND	AT&T	23.00	5.64	0.2420	0.26	0.104	40.0	100.0	40.0	1,200	230	-2	403	632
Fiber Irregular	FNAP-SBL-216EUC	AT&T	22.98	5.77	0.5980		0.057	40.0	100.0	40.0			-1	403	402
Telco	BKTH 400 PR.	AT&T	22.95	5.43	1.4000		1.100	40.0	100.0	40.0			-18	402	384
Overlashed Bundle	6M STRAND	AT&T	23.00	5.64	0.2420	1.36	0.104	94.0	280.0	94.0	1,200	-230	-4	948	714
Fiber Irregular	FNAP-SBL-216EUC	AT&T	22.98	5.77	0.5980		0.057	94.0	280.0	94.0			-2	947	945
Telco	BKTH 400 PR.	AT&T	22.95	5.43	1.4000		1.100	94.0	280.0	94.0			-43	946	903
Totals:											0	-70	4,050	3,979	

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	Single Bolt		23.00	0.00	180.0	90.0	5.00	3.00	0.00	-4	0	-4
Totals:										-4	0	-4

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	10.00	0.375	75.00	0.0	66.3	0.273	24.48	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 Tension ² (lbs)	Applied Tension ³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL ³ (ft-lb)
EHS 3/8 Down	2.30e+7	15,400	0.90	13,860	700	694	631	0	0	0	0	4
Totals:									0	0	0	4

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 (%)
Expanding - 10" 8-Way - Soil Class 4		6.00	10.00	0.0	18,000	1.00	18,000	631	0	3.5

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	13.69	32.61	8.36	3.72	6.05	8.87	1.60e+6	60.00	57.00	25.00	238,701	2623.12	250.00

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.		