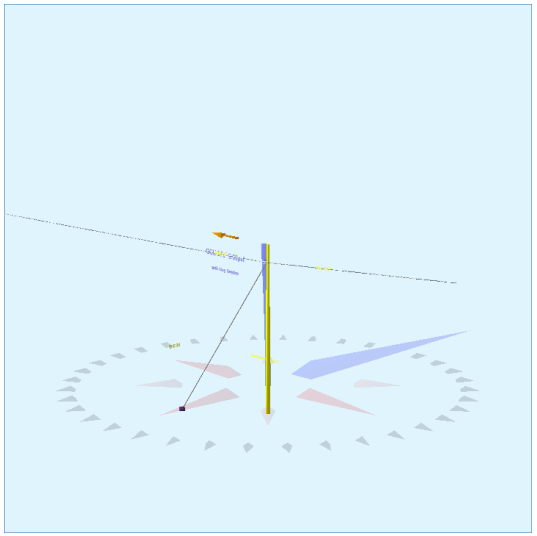
Pole Num:	**113890147_P1**	Pole Length / Class:	**30 / 4**	Code:	**NESC**	Structure Type:	**Angle**
Aux Data 1	**A05366S**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Guy Wires Adequate**
Aux Data 2	**Unset**	Setting Depth (ft):	**5.00**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**29.85**	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:	**26.207640 Deg**	Longitude:	**-80.116760 Deg**			Elevation:	**0 Feet**



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	**9.9**	0.0	275.6
Groundline	**9.9**	0.0	275.6
Vertical	**1.0**	17.0	0.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	**4,522**	276.1	275.6
Groundline	**4,522**	276.1	275.6
GL Allowable	**47,741**		

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	20.0	180.0		**3.4**	275.6	**5.0**	1.3
EHS 3/8 (Down)			22.0	**4.4**	275.6	**7.1**	1.3
			System Capacity Summary:	**Adequate**		**Adequate**	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 276.1°

	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	101	30.5	**2,199**	48.6	**4.6**	**313**	184	3	**316**	**4.6**
GuyBraces	-36	-10.9	**-804**	-17.8	**-1.7**	**-114**	684	10	**-105**	**-1.5**
Pole	266	80.4	**3,127**	69.2	**6.6**	**445**	1,029	15	**460**	**6.8**
Insulators	0	0.0	**-1**	0.0	**0.0**	**0**	10	0	**0**	**0.0**
Pole Load	330	100.0	**4,522**	100.0	**9.5**	**644**	1,906	27	**671**	**9.9**
Pole Reserve Capacity			**43,219**		**90.5**	**6,156**			**6,129**	**90.1**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 276.1°

	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	101	30.5	**2,199**	48.6	**4.6**	**313**	184	3	**316**	**4.6**
<Undefined>	-36	-10.9	**-804**	-17.8	**-1.7**	**-115**	693	10	**-105**	**-1.5**
FPL	266	80.4	**3,127**	69.2	**6.6**	**445**	1,029	15	**460**	**6.8**
Totals:	330	100.0	**4,522**	100.0	**9.5**	**644**	1,906	27	**671**	**9.9**

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	22.00	6.01	0.2420	0.21	0.104	35.0	75.0	35.0	1,200	-32,018	0	28	-31,990
Fiber Irregular	FNAP-SBL-216EUC	AT&T	21.97	6.14	0.5980		0.057	35.0	75.0	35.0			0	28	28
Telco	BKTP 50 PR.	AT&T	21.97	5.89	0.7000		1.160	35.0	75.0	35.0			-3	28	25
Overlashed Bundle	6M STRAND	AT&T	22.00	6.01	0.2420	1.96	0.104	112.0	270.0	112.0	1,200	34,125	-1	7	34,132
Fiber Irregular	FNAP-SBL-216EUC	AT&T	21.97	6.14	0.5980		0.057	112.0	270.0	112.0			0	7	7
Telco	BKTP 50 PR.	AT&T	21.97	5.89	0.7000		1.160	112.0	270.0	112.0			-10	7	-2
											Totals:	**2,108**	**-14**	**105**	**2,199**

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		22.00	0.00	180.0	90.0	5.00	3.00	0.00	-1	0	-1
									Totals:	**-1**	**0**	**-1**

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		22.00	0.00	20.00	0.375	75.00	180.0	47.6	0.273	29.04	0.11

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	980	891	607	448	409	-44	-804
									Totals:	**448**	**409**	**-44**	**-804**

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	20.00	180.0	18,000	1.00	18,000	891	607	5.0

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	16.99	33.02	8.87	5.43	6.69	9.51	1.60e+6	60.00	57.00	25.00	196,192	**1906.11**	**100.00**

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.		