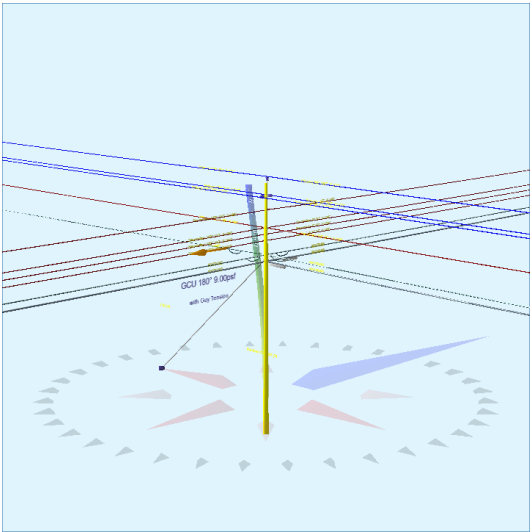


Pole Num:	113894367_P6	Pole Length / Class:	40 / 5	Code:	NESC	Structure Type:	Junction
Aux Data 1	A05366S	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (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:	26.207100 Deg	Longitude:	-80.115960 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	57.5	0.0	180.0
Groundline	57.5	0.0	180.0
Vertical	3.1	20.5	90.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	30,249	179.2	180.0
Groundline	30,249	179.2	180.0
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)
Expanding - 10" 8-Way - Soil Class 4	25.0	270.0		11.4	180.0	17.3	87.2
EHS 3/8 (Down)			22.0	14.8	180.0	24.7	87.2
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 179.2°

	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	303	23.1	9,587	31.7	17.9	1,220	107	1	1,221	18.0
Comms	650	49.6	14,879	49.2	27.8	1,893	1,003	13	1,906	28.0
GuyBraces	-13	-1.0	-294	-1.0	-0.6	-37	2,053	27	-11	-0.2
Pole	355	27.1	5,553	18.4	10.4	707	1,364	18	724	10.7
Insulators	16	1.2	523	1.7	1.0	67	103	1	68	1.0
Pole Load	1,312	100.0	30,249	100.0	56.6	3,848	4,629	61	3,909	57.5
Pole Reserve Capacity			23,203		43.4	2,952			2,891	42.5

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 179.2°

	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	658	50.2	15,141	50.1	28.3	1,926	1,471	19	1,945	28.6
CATV	273	20.8	6,442	21.3	12.1	820	500	7	826	12.1
AT&T	378	28.8	8,438	27.9	15.8	1,073	503	7	1,080	15.9
<Undefined>	3	0.2	229	0.8	0.4	29	2,155	28	57	0.8
Totals:	1,312	100.0	30,249	100.0	56.6	3,848	4,629	61	3,909	57.5

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	AAC 4 AWG 7 STRAND ROSE	FPL	35.03	3.02	0.2320	2.58	0.039	267.0	90.0	267.0	291	184	-2	1,424	1,605
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	35.03	3.02	0.2320	2.32	0.039	250.0	270.0	250.0	291	-184	-2	1,333	1,147
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	15.89	0.2320	2.58	0.039	267.0	90.0	267.0	291	168	-3	1,299	1,464
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	15.89	0.2320	2.32	0.039	250.0	270.0	250.0	291	-168	-2	1,217	1,047
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	15.89	0.2320	2.58	0.039	267.0	90.0	267.0	291	168	3	1,299	1,470
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	15.89	0.2320	2.32	0.039	250.0	270.0	250.0	291	-168	2	1,217	1,052
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	29.97	5.75	0.1980	0.22	0.036	97.0	0.0	97.0	393	-15,298	0	0	-15,298

Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	29.97	5.75	0.1980	0.41	0.036	133.0	180.0	133.0	393	15,298	0	0	15,298
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	5.92	0.1980	1.55	0.036	267.0	90.0	267.0	393	191	-5	936	1,122
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	5.92	0.1980	1.38	0.036	250.0	270.0	250.0	393	-191	-4	876	681
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	5.92	0.1980	0.22	0.036	97.0	0.0	97.0	393	-13,766	0	0	-13,766
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	5.92	0.1980	0.41	0.036	133.0	180.0	133.0	393	13,766	0	0	13,766
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	25.97	5.97	0.1980	0.22	0.036	97.0	0.0	97.0	393	-13,256	0	0	-13,256
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	25.97	5.97	0.1980	0.41	0.036	133.0	180.0	133.0	393	13,256	0	0	13,256
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	24.97	6.03	0.1980	0.22	0.036	97.0	0.0	97.0	393	-12,745	0	0	-12,745
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	24.97	6.03	0.1980	0.41	0.036	133.0	180.0	133.0	393	12,745	0	0	12,745
											Totals:	0	-14	9,601	9,587

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	CATV	23.00	6.14	0.2420	0.84	0.104	97.0	0.0	97.0	1,200	-35,877	0	0	-35,876
CATV	CATV	CATV	22.97	6.14	0.5700		0.600	97.0	0.0	97.0			0	0	0
Overlashed Bundle	6M STRAND	CATV	23.00	6.14	0.2420	1.54	0.104	133.0	180.0	133.0	1,200	35,877	0	0	35,877
CATV	CATV	CATV	22.97	6.14	0.5700		0.600	133.0	180.0	133.0			1	0	1
Overlashed Bundle	6M STRAND	CATV	23.00	6.14	0.2420	5.80	0.104	267.0	90.0	267.0	1,200	497	14	1,608	2,119
CATV	CATV	CATV	22.97	6.14	0.5700		0.600	267.0	90.0	267.0			78	1,626	1,704
Overlashed Bundle	6M STRAND	CATV	23.00	6.14	0.2420	5.12	0.104	250.0	270.0	250.0	1,200	-497	13	1,506	1,021
CATV	CATV	CATV	22.97	6.14	0.5700		0.600	250.0	270.0	250.0			73	1,524	1,597
Overlashed Bundle	6M STRAND	AT&T	22.00	6.20	0.2420	1.23	0.104	97.0	0.0	97.0	1,200	-34,317	0	0	-34,317
Fiber Irregular	FNAP-SBL-216EUC	AT&T	21.98	5.90	0.5980		0.052	97.0	0.0	97.0			0	0	0
Telco	BKTA 400 PR.	AT&T	21.95	6.73	1.3000		0.910	97.0	0.0	97.0			-1	0	-1
Overlashed Bundle	6M STRAND	AT&T	22.00	6.20	0.2420	2.24	0.104	133.0	180.0	133.0	1,200	34,317	0	0	34,317
Fiber Irregular	FNAP-SBL-216EUC	AT&T	21.98	5.90	0.5980		0.052	133.0	180.0	133.0			0	0	0
Telco	BKTA 400 PR.	AT&T	21.95	6.73	1.3000		0.910	133.0	180.0	133.0			-1	0	-1
Overlashed Bundle	6M STRAND	AT&T	22.00	6.20	0.2420	8.44	0.104	267.0	90.0	267.0	1,200	476	14	2,444	2,933
Fiber Irregular	FNAP-SBL-216EUC	AT&T	21.98	6.33	0.5980		0.052	267.0	90.0	267.0			7	2,946	2,953
Telco	BKTA 400 PR.	AT&T	21.95	6.00	1.3000		0.910	267.0	90.0	267.0			115	2,438	2,553
											Totals:	476	312	14,092	14,879

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 Insulator - 15 kV		34.00	0.00	0.0	0.0	3.00	3.80	12.75	-1	180	179

Deadend	Deadend Insulator - 15 kV	32.00	0.00	0.0	0.0	3.00	3.80	12.75	-8	170	162
Deadend	Deadend Insulator - 15 kV	32.00	0.00	180.0	180.0	3.00	3.80	12.75	8	170	177
Bolt	Single Bolt	30.00	0.00	90.0	90.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	27.00	0.00	0.0	0.0	5.00	3.00	0.00	-5	0	-5
Bolt	Single Bolt	27.00	0.00	270.0	270.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	26.00	0.00	270.0	270.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	25.00	0.00	270.0	270.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	23.00	0.00	90.0	0.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	23.00	0.00	180.0	90.0	5.00	3.00	0.00	5	0	5
Bolt	Single Bolt	22.00	0.00	90.0	0.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt	22.00	0.00	180.0	90.0	5.00	3.00	0.00	5	0	5
Totals:									4	519	523

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	25.00	0.375	75.00	270.0	41.2	0.273	32.57	0.42

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	3,419	3,108	2,051	1,352	1,542	-21	-294
Totals:									1,352	1,542	-21	-294	

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	25.00	270.0	18,000	1.00	18,000	3,108	2,051	17.3

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	20.53	33.51	9.09	9.24	6.05	9.87	1.60e+6	60.00	57.00	34.00	148,569	1493.33	32.26

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.