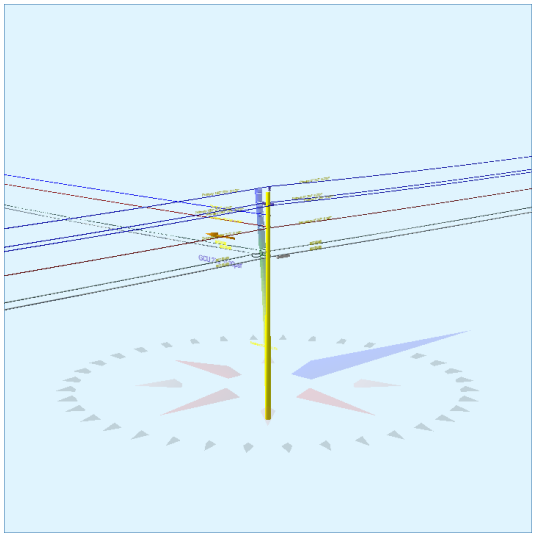
Pole Num:	**113890964_P3**	Pole Length / Class:	**40 / 2**	Code:	**NESC**	Structure Type:	**Unguyed Tangent**
Aux Data 1	**A05366S**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Aux Data 2	**Unset**	Setting Depth (ft):	**6.00**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
Aux Data 3	**Unset**	G/L Circumference (in):	**38.50**	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:	**1.00**
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:	**26.207850 Deg**	Longitude:	**-80.115900 Deg**	Elevation:	**0 Feet**		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	**67.3**	0.0	270.0
Groundline	**67.3**	0.0	270.0
Vertical	**6.9**	19.1	270.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	**68,474**	270.1	270.0
Groundline	**68,474**	270.1	270.0
GL Allowable	**102,391**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 270.1°

	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	917	32.3	**27,463**	40.1	**26.8**	**1,824**	85	1	**1,825**	**26.8**
Comms	1,458	51.3	**33,387**	48.8	**32.6**	**2,217**	1,356	11	**2,229**	**32.8**
Pole	451	15.9	**7,124**	10.4	**7.0**	**473**	2,192	19	**492**	**7.2**
Insulators	16	0.6	**501**	0.7	**0.5**	**33**	84	1	**34**	**0.5**
Pole Load	2,842	100.0	**68,474**	100.0	**66.9**	**4,548**	3,716	32	**4,579**	**67.3**
Pole Reserve Capacity			**33,917**		**33.1**	**2,252**			**2,221**	**32.7**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 270.1°

	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	1,368	48.1	**34,587**	50.5	**33.8**	**2,297**	2,277	19	**2,316**	**34.1**
CATV	584	20.5	**13,791**	20.1	**13.5**	**916**	421	4	**919**	**13.5**
AT&T	875	30.8	**19,596**	28.6	**19.1**	**1,301**	934	8	**1,309**	**19.3**
<Undefined>	16	0.6	**501**	0.7	**0.5**	**33**	84	1	**34**	**0.5**
Totals:	2,842	100.0	**68,474**	100.0	**66.9**	**4,548**	3,716	32	**4,579**	**67.3**

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	3.98	0.2320	2.58	0.039	267.0	0.0	267.0	291	10	-3	1,424	1,431
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	35.03	3.98	0.2320	2.67	0.039	273.0	180.0	273.0	291	-10	-3	1,456	1,442
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.58	0.039	267.0	0.0	267.0	291	9	-3	1,300	1,306
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.67	0.039	273.0	180.0	273.0	291	-9	-3	1,329	1,316
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.58	0.039	267.0	0.0	267.0	291	9	3	1,300	1,312
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.67	0.039	273.0	180.0	273.0	291	-9	3	1,329	1,323
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	29.97	6.73	0.2320	0.38	0.039	90.0	270.0	90.0	300	8,990	0	0	8,990
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	27.97	6.86	0.1980	0.34	0.036	90.0	270.0	90.0	300	8,390	0	0	8,390
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	27.97	6.86	0.1980	1.55	0.036	267.0	0.0	267.0	393	11	-5	970	976
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	27.97	6.86	0.1980	1.61	0.036	273.0	180.0	273.0	393	-11	-5	992	976
											Totals:	**17,381**	**-17**	**10,099**	**27,463**

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	24.00	7.11	0.2420	5.80	0.104	267.0	0.0	267.0	1,200	29	-16	1,678	1,692
CATV	CATV	CATV	23.97	7.11	0.5700		0.600	267.0	0.0	267.0			-90	1,676	1,586
Overlashed Bundle	6M STRAND	CATV	24.00	7.11	0.2420	6.05	0.104	273.0	180.0	273.0	1,200	-29	-16	1,716	1,671
CATV	CATV	CATV	23.97	7.11	0.5700		0.600	273.0	180.0	273.0			-92	1,735	1,642
Overlashed Bundle	6M STRAND	CATV	24.00	7.11	0.2420	0.73	0.104	90.0	270.0	90.0	300	7,200	0	0	7,200

CATV	CATV	CATV	23.97	7.11	0.5700		0.600	90.0	270.0	90.0			0	0	0
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	12.03	0.104	267.0	0.0	267.0	1,200	28	-16	2,091	2,103
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	6.88	0.5980		0.057	267.0	0.0	267.0			-8	2,616	2,608
Telco	BKTS 200 PR.	AT&T	22.96	7.57	0.9300		1.400	267.0	0.0	267.0			-224	2,087	1,863
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	12.57	0.104	273.0	180.0	273.0	1,200	-28	-16	2,138	2,093
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	6.88	0.5980		0.057	273.0	180.0	273.0			-8	2,135	2,127
Telco	BKTS 200 PR.	AT&T	22.96	7.57	0.9300		1.400	273.0	180.0	273.0			-229	2,134	1,905
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	1.51	0.104	90.0	270.0	90.0	300	6,900	0	0	6,900
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	7.06	0.5980		0.057	90.0	270.0	90.0			0	0	0
Telco	BKTS 200 PR.	AT&T	22.96	7.35	0.9300		1.400	90.0	270.0	90.0			-4	0	-4
											Totals:	**14,100**	**-720**	**20,006**	**33,387**

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	90.0	90.0	3.00	3.80	12.75	-2	180	178
Deadend	Deadend Insulator - 15 kV		32.00	0.00	90.0	90.0	3.00	3.80	12.75	-8	170	162
Deadend	Deadend Insulator - 15 kV		32.00	0.00	270.0	270.0	3.00	3.80	12.75	8	170	178
Bolt	Single Bolt		30.00	0.00	0.0	0.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt		28.00	0.00	0.0	0.0	5.00	3.00	0.00	0	0	0
Bolt	Single Bolt		28.00	0.00	90.0	90.0	5.00	3.00	0.00	-5	0	-5
Bolt	Single Bolt		24.00	0.00	90.0	0.0	5.00	3.00	0.00	-6	0	-6
Bolt	Single Bolt		24.00	0.00	180.0	90.0	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	-6	0	-6
Bolt	Single Bolt		23.00	0.00	0.0	270.0	5.00	3.00	0.00	0	0	0
									Totals:	**-19**	**519**	**501**

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
2.00	19.07	32.95	11.46	13.68	7.96	12.26	1.60e+6	60.00	57.00	34.00	54,242	**538.56**	**14.49**

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.		