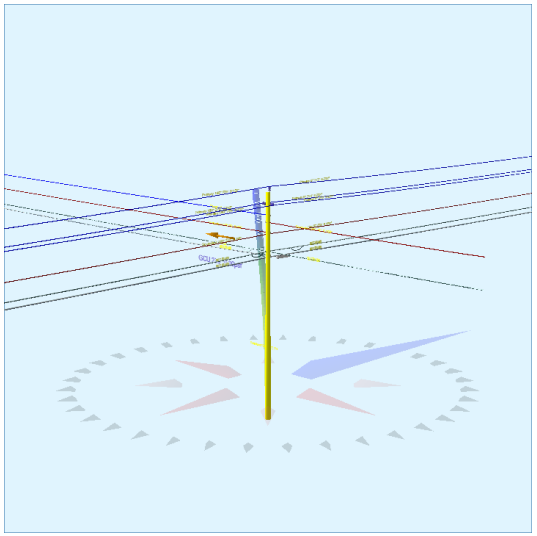
Pole Num:	**113890977_P4**	Pole Length / Class:	**40 / 2**	Code:	**NESC**	Structure Type:	**Junction**
Aux Data 1	**A05366S**	Species:	**SOUTHERN PINE**	NESC Rule:	**Rule 250B**	Status	**Unguyed**
Aux Data 2	**Unset**	Setting Depth (ft):	**6.00**	Construction Grade:	**C**	Pole Strength Factor:	**0.85**
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:	**1.30**
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:	**26.208590 Deg**	Longitude:	**-80.115900 Deg**	Elevation:	**0 Feet**		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	**56.8**	0.0	270.0
Groundline	**56.8**	0.0	270.0
Vertical	**7.0**	19.2	270.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	**57,709**	270.1	270.0
Groundline	**57,709**	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	697	28.1	**20,373**	35.3	**19.9**	**1,353**	87	1	**1,354**	**19.9**
Comms	1,312	53.0	**29,712**	51.5	**29.0**	**1,973**	1,404	12	**1,985**	**29.2**
Pole	451	18.2	**7,124**	12.3	**7.0**	**473**	2,192	19	**492**	**7.2**
Insulators	16	0.6	**501**	0.9	**0.5**	**33**	93	1	**34**	**0.5**
Pole Load	2,476	100.0	**57,709**	100.0	**56.4**	**3,833**	3,776	32	**3,865**	**56.8**
Pole Reserve Capacity			**44,682**		**43.6**	**2,967**			**2,935**	**43.2**

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	1,148	46.4	**27,496**	47.7	**26.9**	**1,826**	2,279	19	**1,845**	**27.1**
CATV	286	11.6	**6,648**	11.5	**6.5**	**442**	457	4	**445**	**6.6**
AT&T	1,026	41.4	**23,064**	40.0	**22.5**	**1,532**	946	8	**1,540**	**22.6**
<Undefined>	16	0.6	**501**	0.9	**0.5**	**33**	93	1	**34**	**0.5**
Totals:	2,476	100.0	**57,709**	100.0	**56.4**	**3,833**	3,776	32	**3,865**	**56.8**

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	2.67	0.039	273.0	0.0	273.0	291	12	-3	1,456	1,465
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	35.03	3.98	0.2320	2.63	0.039	270.0	180.0	270.0	291	-12	-3	1,440	1,425
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.67	0.039	273.0	0.0	273.0	291	11	-3	1,329	1,336
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.63	0.039	270.0	180.0	270.0	291	-11	-3	1,314	1,300
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.67	0.039	273.0	0.0	273.0	291	11	3	1,329	1,343
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.97	16.86	0.2320	2.63	0.039	270.0	180.0	270.0	291	-11	3	1,314	1,307
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	29.97	6.73	0.2320	0.42	0.039	95.0	270.0	95.0	291	11,326	0	0	11,326
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	28.97	6.79	0.1980	0.05	0.036	46.0	90.0	46.0	393	-14,789	0	0	-14,789
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	6.92	0.1980	0.21	0.036	95.0	270.0	95.0	393	13,768	0	0	13,768
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	6.92	0.1980	1.61	0.036	273.0	0.0	273.0	393	12	-5	957	964
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	26.97	6.92	0.1980	1.58	0.036	270.0	180.0	270.0	393	-12	-5	946	928
											Totals:	**10,305**	**-17**	**10,085**	**20,373**

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	6.05	0.104	273.0	0.0	273.0	1,200	34	-16	1,716	1,734
CATV	CATV	CATV	23.97	7.11	0.5700		0.600	273.0	0.0	273.0			-92	1,735	1,642
Overlashed Bundle	6M STRAND	CATV	24.00	7.11	0.2420	5.92	0.104	270.0	180.0	270.0	1,200	-34	-16	1,697	1,648

CATV	CATV	CATV	23.97	7.11	0.5700		0.600	270.0	180.0	270.0			-91	1,716	1,624
Overlashed Bundle	6M STRAND	CATV	24.00	7.11	0.2420	0.19	0.104	46.0	90.0	46.0	1,200	-37,440	0	0	-37,440
CATV	CATV	CATV	23.97	7.11	0.5700		0.600	46.0	90.0	46.0			0	0	0
Overlashed Bundle	6M STRAND	CATV	24.00	7.11	0.2420	0.81	0.104	95.0	270.0	95.0	1,200	37,440	0	0	37,440
CATV	CATV	CATV	23.97	7.11	0.5700		0.600	95.0	270.0	95.0			0	0	0
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	12.57	0.104	273.0	0.0	273.0	1,200	32	-16	2,363	2,379
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	6.88	0.5980		0.057	273.0	0.0	273.0			-8	2,888	2,880
Telco	BKTS 200 PR.	AT&T	22.95	7.70	0.9300		1.400	273.0	0.0	273.0			-233	2,358	2,125
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	12.30	0.104	270.0	180.0	270.0	1,200	-32	-16	2,337	2,289
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	6.88	0.5980		0.057	270.0	180.0	270.0			-8	2,334	2,326
Telco	BKTS 200 PR.	AT&T	22.95	7.70	0.9300		1.400	270.0	180.0	270.0			-230	2,332	2,101
Overlashed Bundle	6M STRAND	AT&T	23.00	7.17	0.2420	1.67	0.104	95.0	270.0	95.0	300	8,970	0	0	8,970
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	22.98	7.06	0.5980		0.057	95.0	270.0	95.0			0	0	0
Telco	BKTS 200 PR.	AT&T	22.95	7.41	0.9300		1.400	95.0	270.0	95.0			-5	0	-5
											Totals:	**8,970**	**-733**	**21,475**	**29,712**

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		29.00	0.00	180.0	180.0	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	0	0	0
Bolt	Single Bolt		27.00	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	19.16	32.96	11.46	13.81	7.96	12.26	1.60e+6	60.00	57.00	34.00	53,676	**539.42**	**14.29**

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.		