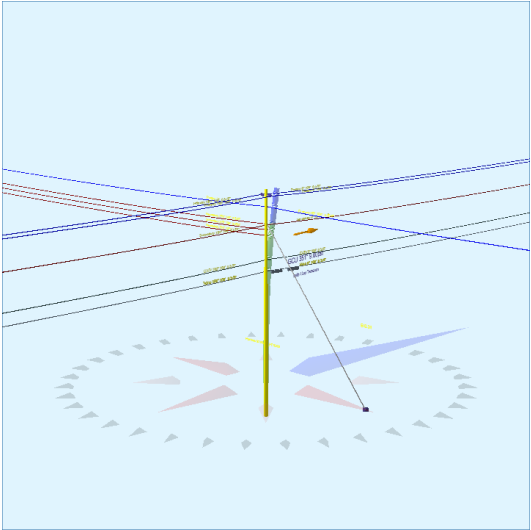


Pole Num:	93100099_P.F26481	Pole Length / Class:	40 / 5	Code:	NESC	Structure Type:	Junction
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (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:	0.000000 Deg	Longitude:	0.000000 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	32.6	26.0	351.2
Groundline	28.4	0.0	351.2
Vertical	13.0	26.5	270.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	5,441	79.4	351.2
Groundline	14,143	329.2	351.2
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)
Single Helix Anchor	23.0	90.0		34.1	351.2	37.9	267.2
EHS 3/8 (Down)			28.0	49.1	351.2	60.2	267.2
System Capacity Summary:				Adequate		Adequate	

**Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 329.2°**

	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	2,570	335.3	69,715	492.9	130.4	8,869	627	8	8,877	130.5
Comms	21	2.7	337	2.4	0.6	43	342	4	47	0.7
GuyBraces	-2,187	-285.4	-62,001	-438.4	-116.0	-7,887	7,940	104	-7,784	-114.5
Pole	329	43.0	5,149	36.4	9.6	655	1,364	18	673	9.9
Insulators	34	4.5	942	6.7	1.8	120	57	1	121	1.8
Pole Load	766	100.0	14,143	100.0	26.5	1,799	10,330	135	1,934	28.4
Pole Reserve Capacity			39,309		73.5	5,001			4,866	71.6

**Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 329.2°**

	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	2,899	378.2	74,864	529.3	140.1	9,524	1,991	26	9,550	140.4
CATV	6	0.8	100	0.7	0.2	13	114	1	14	0.2
AT&T	15	1.9	237	1.7	0.4	30	228	3	33	0.5
<Undefined>	-2,153	-280.9	-61,059	-431.7	-114.2	-7,768	7,997	105	-7,663	-112.7
<b>Totals:</b>	766	100.0	14,143	100.0	26.5	1,799	10,330	135	1,934	28.4

**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	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	44,196	-7	96	44,285
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-44,196	-7	96	-44,108
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	44,196	7	96	44,300
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-44,196	7	96	-44,093
Primary	FPL	FPL	30.97	5.19	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	-24,707	21	984	-23,702
Primary	FPL	FPL	30.97	5.19	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	24,707	21	984	25,712
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	22,313	22	889	23,224
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	37,493	-13	81	37,562
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-37,493	-13	81	-37,425
Secondary	FPL	FPL	26.97	5.42	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	21,515	22	857	22,394
Secondary	FPL	FPL	25.97	5.47	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	20,718	22	825	21,565
Totals:											64,546	83	5,085	69,714	

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)
CATV	CATV	CATV	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	29,450	-14	64	29,500
CATV	CATV	CATV	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-29,450	-14	64	-29,400
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	26,769	-14	89	26,843
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-26,769	-14	58	-26,725
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	26,769	-14	89	26,843
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-26,769	-14	58	-26,725
Totals:											0	-84	421	337	

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 12.75"		33.00	0.00	90.0	90.0	3.00	3.80	12.75	-4	162	158
Deadend	Deadend 12.75"		33.00	0.00	270.0	270.0	3.00	3.80	12.75	4	162	166
Bolt	Deadend 12.75"		31.00	0.00	0.0	0.0	3.00	2.00	15.00	2	94	96
Bolt	Deadend 12.75"		28.00	0.00	0.0	0.0	3.00	2.00	15.00	2	85	87
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	85	84
Bolt	Deadend 12.75"		27.00	0.00	0.0	0.0	3.00	2.00	15.00	2	82	84
Bolt	Deadend 12.75"		26.00	0.00	0.0	0.0	3.00	2.00	15.00	2	79	81
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	67	66
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	61	59
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	61	59
									Totals:	3	939	942

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		28.00	0.00	23.00	0.375	75.00	90.0	50.4	0.273	34.56	1.48

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	8,347	7,589	6,811	5,251	4,338	-2,218	-62,000
Totals:										5,251	4,338	-2,218	-62,000

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 Load² (lbs)	Load at Pole MCU³ (lbs)	Max Required Capacity² (%)
Single Helix Anchor			18.00	23.00	90.0	20,000	1.00	20,000	7,588	6,811	37.9

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	26.52	34.53	8.84	15.51	6.05	9.87	1.60e+6	60.00	57.00	34.00	79,437	794.64	7.69

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.		