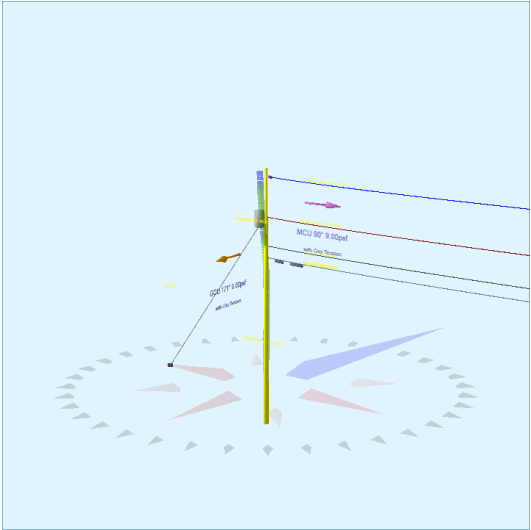


Pole Num:	914460137_P.F2833	Pole Length / Class:	45 / 4	Code:	NESC	Structure Type:	Deadend
Aux Data 1	Unset	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.50	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	34.82	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	44.8	30.3	90.0
Groundline	37.6	0.0	171.2
Vertical	14.3	28.6	90.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	10,716	90.0	90.0
Groundline	26,650	132.1	171.2
GL Allowable	75,750		

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	270.0		53.7	90.0	55.7	85.6
EHS 3/8 (Down)			30.0	77.5	90.0	88.4	85.6
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 132.1°

	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	2,364	151.4	79,099	296.8	104.4	7,101	114	1	7,102	104.4
Comms	3,567	228.5	84,236	316.1	111.2	7,562	171	2	7,563	111.2
GuyBraces	-4,795	-307.1	-145,888	-547.4	-192.6	-13,096	12,852	133	-12,963	-190.6
PowerEquipments	64	4.1	2,645	9.9	3.5	238	636	7	244	3.6
Pole	348	22.3	6,151	23.1	8.1	552	1,928	20	572	8.4
Insulators	14	0.9	407	1.5	0.5	37	28	0	37	0.5
Pole Load	1,561	100.0	26,650	100.0	35.2	2,392	15,730	163	2,555	37.6
Pole Reserve Capacity			49,100		64.8	4,408			4,245	62.4

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 132.1°

	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	2,712	173.7	85,250	319.9	112.5	7,653	2,042	21	7,674	112.9
CATV	1,182	75.7	29,488	110.7	38.9	2,647	57	1	2,648	38.9
AT&T	2,385	152.8	54,748	205.4	72.3	4,915	114	1	4,916	72.3
<Undefined>	-4,718	-302.1	-142,836	-536.0	-188.6	-12,822	13,517	140	-12,682	-186.5
Totals:	1,561	100.0	26,650	100.0	35.2	2,392	15,730	163	2,555	37.6

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	36.97	16.18	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	42,771	12	917	43,700
Secondary	FPL	FPL	29.97	5.83	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	34,673	-19	743	35,397
											Totals:	77,444	-6	1,660	79,097

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	24.97	6.11	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	28,888	-19	619	29,487
Telco	AT&T	AT&T	22.97	6.23	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	26,574	-20	869	27,423
Telco	AT&T	AT&T	22.97	6.23	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	26,574	-20	769	27,323
											Totals:	82,035	-59	2,258	84,234

PowerEquipment		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Diameter (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Transformer1PH-15KVA			30.00	20.83	180.0	180.0	335.00	34.00	--	22.00	--	741	1,904	2,645
Totals:												741	1,904	2,645

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"		37.00	0.00	90.0	90.0	3.00	3.80	12.75	6	152	158
Bolt	Deadend 12.75"		30.00	0.00	0.0	0.0	3.00	2.00	15.00	-2	76	75
Bolt	Deadend 12.75"		25.00	0.00	0.0	0.0	3.00	2.00	15.00	-2	64	62
Bolt	Deadend 12.75"		23.00	0.00	0.0	0.0	3.00	2.00	15.00	-2	59	57
Bolt	Deadend 12.75"		23.00	0.00	0.0	0.0	3.00	2.00	15.00	-2	59	57
									Totals:	-2	409	407

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 3/8Down			30.00	0.00	23.00	0.375	75.00	270.0	52.4	0.273	36.11	2.44

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 3/8Down		2.30e+7	15,400	0.90	13,860	700	12,252	11,138	10,735	8,500	6,557	-4,863	-145,885
Totals:										8,500	6,557	-4,863	-145,885

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 (%)
Single Helix Anchor			18.00	23.00	270.0	20,000	1.00	20,000	11,138	10,735	55.7

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	28.62	34.43	9.96	19.89	6.69	11.09	1.60e+6	60.00	57.00	38.50	109,805	1099.97	6.99

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.		