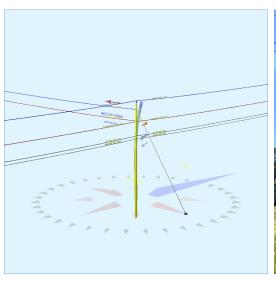
Pole Num:	93353761_P.F1720	Pole Length /	Class:	40 / 5	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1	Unset	Species:	sou	THERN PINE	NESC Rule:	Rule 250B	Status G	Suy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.00	Construction Grade:	С	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	erence (in):	31.00	Loading District:	Light	Transverse Wind LF	:	1.75
Aux Data 4	Unset	G/L Fiber Str	ess (psi):	8,000	Ice Thickness (in):	0.00	Wire Tension LF:		1.30
Aux Data 5	Unset	Allowable Str	ess (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:		0.00000	<b>00 Deg</b> Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Utili	zation (%)	Height (ft)	Wind Angle (deg)
Maximum	41.4	28.0	270.0
Groundline	23.6	0.0	330.0
Vertical	13.2	29.3	270.0

Pole Moments (ft-I	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	6,505	89.5	270.0
Groundline	11,768	310.7	330.0
GL Allowable	53,452		

Guy System Component Summary		Load From Angle o	Worst Wind 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		24.6	270.0	26.2	270.0	
EHS 3/8 (Down)			32.0	35.5	270.0	41.7	270.0	
		System Capac	ity Summary:	Adec	ıuate	Adequate		

Groundline Load Summar	y - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 310	.7°									
	Shear Load* (Ibs)	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														
Comms	86	11.4	1,786	15.2	3.3	227	342	4	232	3.4				
GuyBraces	-2,158	-287.0	-69,837	-593.5	-130.7	-8,885	6,028	79	-8,806	-129.5				
Pole	335	44.6	5,241	44.5	9.8	667	1,364	18	685	10.1				
Insulators	24	3.1	644	5.5	1.2	82	40	1	82	1.2				
Pole Load	752	100.0	11,768	100.0	22.0	1,497	8,116	106	1,603	23.6				
Pole Reserve Capacity			41,684		78.0	5,303			5,197	76.4				

Load Summary by Owner	Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 310.7°												
	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	2,800	372.5	79,175	672.8	148.1	10,073	1,706	22	10,095	148.5			
CATV	29	3.8	622	5.3	1.2	79	114	1	81	1.2			
AT&T	57	7.5	1,164	9.9	2.2	148	228	3	151	2.2			
<undefined></undefined>	-2,134	-283.8	-69,193	-588.0	-129.5	-8,803	6,068	79	-8,723	-128.3			
Totals:	752	100.0	11,768	100.0	22.0	1,497	8,116	106	1,603	23.6			

**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	35.03	3.02	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	35,621	-11	497	36,107
Primary	FPL	FPL	35.03	3.02	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-35,621	-11	497	-35,134
Primary	FPL	FPL	31.97	5.14	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	37,821	16	675	38,512
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	33,088	17	591	33,696
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	28,439	-19	397	28,817
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,439	-19	397	-28,062
				_							Totals:	70,909	-27	3,053	73,934

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	22.97	5.64	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	23,355	-20	337	23,671
CATV	CATV	CATV	22.97	5.64	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-23,355	-20	326	-23,050

User:Giulliana DESKTOP-80LQLSV OCP:5.02

\*Includes Load Factor(s)

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<sup>2</sup> Worst Wind Per Guy Wire

<sup>3</sup> Wind At 270°

## O-Calc® Pro Analysis Report

Monday, May 20	), 2024 5:20 PM
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Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 0.0 100.0 1,200 22,338 -21 312 22,629   Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 180.0 100.0 1,200 -22,338 -21 312 -22,047   Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 100.0 100.0 1,200 -22,338 -21 312 -22,047   Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 100.0 100.0 1,200 -22,338 -21 312 -22,047   Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 100.0 100.0 1,200 -22,338 -21 312 -22,047												Totals:	0	-123	1,909	1,786
Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 180.0 100.0 1,200 -22,338 -21 312 -22,047	Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-22,338	-21	312	-22,047
	Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	22,338	-21	312	22,629
Telco AT&T AT&T 21.97 5.70 0.5700 1.19 0.600 100.0 0.0 100.0 1,200 22,338 -21 312 22,629	Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-22,338	-21	312	-22,047
	Telco	AT&T	AT&T	21.97	5.70	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	22,338	-21	312	22,629

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"		34.00	0.00	90.0	90.0	3.00	3.80	12.75	-1	170	169
Bolt	Deadend 12.75"		32.00	0.00	0.0	0.0	3.00	2.00	15.00	2	99	101
Bolt	Deadend 12.75"		28.00	0.00	0.0	0.0	3.00	2.00	15.00	2	87	88
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	87	85
Bolt	Deadend 12.75"		23.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	71	69
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	68	66
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-2	68	66
									Totals:	-6	650	644

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		32.00	0.00	23.00	0.375	75.00	90.0	54.1	0.273	37.76	1.17

Guy Wire and Bra (Loads and React		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (lbs)	Loaded Tension* <sup>2</sup> (lbs)	Maximum Tension <sup>2</sup> (lbs)	Applied Tension <sup>3</sup> (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (Ibs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	5,774	5,249	4,924	3,989	2,886	-2,189	-69,838
									Totals:	3,989	2,886	-2,189	-69,838

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 MCU <sup>3</sup> (lbs)	Max Required Capacity² (%)
Single Helix Anchor		18.00	23.00	90.0	20,000	1.00	20,000	5,249	4,924	26.2

Pole Buckli	ng												
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	29.34	35.01	8.71	14.47	6.05	9.87	1.60e+6	60.00	57.00	34.00	61,306	614.87	7.58

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	/2021 General Description							
General Statement: Non-AT&T facilities may not be accurately identified pending attachment information from attaching party.								