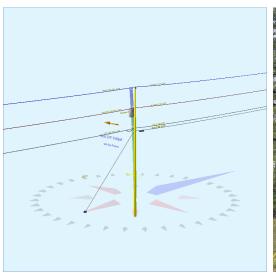
Pole Num:	116877200_P75	Pole Length /	Class:	45 / 4	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1	Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status C	ay Wir	es Adequate
Aux Data 2	Unset	Setting Depth	` '		Construction Grade:	С	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	erence (in):	34.82	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 Uti	lization (%)	Height (ft)	Wind Angle (deg)
Maximum	29.8	0.0	270.0
Groundline	29.8	0.0	270.0
Vertical	4.3	23.4	0.0

Pole Moments (ft-	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	21,704	279.4	270.0
Groundline	21,704	279.4	270.0
GL Allowable	75,750		

Guy System Component Summary				Load From Angle o		Individual Ma	ximum 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	180.0		21.3	270.0	24.3	357.2	
EHS 3/8 (Down)		24.0	30.7	270.0	38.5	357.2		
	System Capacity Summary:					Adequate		

Groundline Load Summary	y - Reporting A	Angle Mode: L	oad - Reportii	ng Angle: 279	.4°					
	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	148	16.5	5,155	23.8	6.8	463	228	2	465	6.8
Comms	677	75.7	16,184	74.6	21.4	1,453	228	2	1,455	21.4
GuyBraces	-472	-52.7	-11,492	-53.0	-15.2	-1,032	4,651	48	-983	-14.5
PowerEquipments	81	9.0	3,511	16.2	4.6	315	636	7	322	4.7
Pole	443	49.5	7,821	36.0	10.3	702	1,928	20	722	10.6
Insulators	18	2.0	526	2.4	0.7	47	28	0	47	0.7
Pole Load	895	100.0	21,704	100.0	28.7	1,948	7,700	80	2,028	29.8
Pole Reserve Capacity			54,046		71.3	4,852			4,772	70.2

Load Summary by Owner	- Reporting An	ngle Mode: Lo	ad - Reporting	Angle: 279.4	0					
	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 (%)
FPL	590	66.0	12,976	59.8	17.1	1,165	2,156	22	1,187	17.5
CATV	75	8.4	1,816	8.4	2.4	163	114	1	164	2.4
AT&T	602	67.3	14,368	66.2	19.0	1,290	114	1	1,291	19.0
<undefined></undefined>	-373	-41.6	-7,456	-34.4	-9.8	-669	5,316	55	-614	-9.0
Totals:	895	100.0	21,704	100.0	28.7	1,948	7,700	80	2,028	29.8

**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	FPL	FPL	39.03	3.37	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	9,990	-16	1,440	11,414
Primary	FPL	FPL	39.03	3.37	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-9,990	-16	1,440	-8,565
Secondary	FPL	FPL	31.97	5.71	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	8,182	-27	1,180	9,335
Secondary	FPL	FPL	31.97	5.71	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-8,182	-27	1,180	-7,029
											Totals:	0	-85	5,240	5,155

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	0.0	100.0	1,200	6,390	-29	921	7,283
CATV	CATV	CATV	24.97	6.11	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-6,390	-29	952	-5,467

## O-Calc® Pro Analysis Report

Telco	AT&T	AT&T	23.97	6.17	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	6,134	-29	1,272	7,378
Telco	AT&T	AT&T	23.97	6.17	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	6,134	-29	884	6,990
										Ī	Totals:	12,269	-115	4,030	16,184

PowerEquipmen	t	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)
Transformer	1PH-15KVA	•	30.00	20.83	270.0	270.0	335.00	34.00		22.00		1,090	2,421	3,511
											Totals:	1,090	2,421	3,511

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"		38.00	0.00	90.0	90.0	3.00	3.80	12.75	-2	199	197
Bolt	Deadend 12.75"		32.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	104	101
Bolt	Deadend 12.75"		25.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	81	78
Bolt	Deadend 12.75"		24.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	78	75
Bolt	Deadend 12.75"		24.00	0.00	90.0	90.0	3.00	2.00	15.00	-3	78	75
									Totals:	-13	539	526

Guy Wire and B	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		24.00	0.00	23.00	0.375	75.00	180.0	46.1	0.273	31.50	0.85

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* <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 (lbs)	Moment at GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	5,343	4,857	4,258	3,067	2,954	-485	-11,492
									Totals:	3,067	2,954	-485	-11,492

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	180.0	20,000	1.00	20,000	4,857	4,258	24.3

Pole Buckli	ing												
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	23.37	33.61	10.19	12.68	6.69	11.09	1.60e+6	60.00	57.00	38.50	180,414	1790.65	23.26

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.							