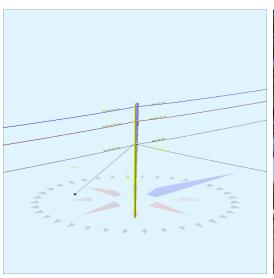
Pole Num:	93100080_P.F29	Pole Length /	Class:	40 / 5	Code:	NESC	Structure Type:	Gu	yed Tangent
Aux Data 1	Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status G	uy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.00	Construction Grade:	C	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L Circumfe	rence (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 I	Ht. Reduc:	No	Wind Pressure (psf):	9.00			
Latitude:		0.00000	00 Deg Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Ut	ilization (%)	Height (ft)	Wind Angle (deg)
Maximum	44.3	0.0	319.3
Groundline	44.3	0.0	319.3
Vertical	2.3	19.1	65.0

Pole Moments (ft-l	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	23,239	339.2	319.3
Groundline	23,239	339.2	319.3
GL Allowable	53,452		

Guy System Component Summary				Load From Angle o		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	245.0		11.3	319.3	17.1	80.0	
EHS 3/8 (Down)			20.0	16.4	319.3	27.1	80.0	
		System Capac	ity Summary:	Adeq	uate	Aded	uate	

Groundline Load Summary	/ - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 339	.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	35	2.8	1,029	4.4	1.9	131	228	3	134	2.0
Comms	956	78.3	19,084	82.1	35.7	2,428	228	3	2,431	35.7
GuyBraces	-117	-9.6	-2,368	-10.2	-4.4	-301	2,256	30	-272	-4.0
Pole	334	27.4	5,223	22.5	9.8	665	1,364	18	682	10.0
Insulators	12	1.0	271	1.2	0.5	34	28	0	35	0.5
Pole Load	1,220	100.0	23,239	100.0	43.5	2,956	4,105	54	3,010	44.3
Pole Reserve Capacity			30,213		56.5	3,844			3,790	55.7

Load Summary by Owner	- Reporting An	gle Mode: Loa	ad - Reporting	Angle: 339.2	0					
	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	369	30.2	6,252	26.9	11.7	795	1,592	21	816	12.0
AT&T	956	78.3	19,084	82.1	35.7	2,428	228	3	2,431	35.7
<undefined></undefined>	-104	-8.5	-2,097	-9.0	-3.9	-267	2,285	30	-237	-3.5
Totals:	1,220	100.0	23,239	100.0	43.5	2,956	4,105	54	3,010	44.3

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	3.08	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	48,070	-5	286	48,350
Primary	FPL	FPL	32.97	3.08	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-48,070	-5	286	-47,789
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	40,779	-9	243	41,013
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-40,779	-9	243	-40,546
											Totals:	0	-29	1,057	1,029

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)
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	29,115	-10	173	29,278
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	29,115	-10	173	29,278
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-29,115	-10	173	-28,952
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	-11,076	26	529	-10,521
											Totals:	18,039	-4	1,049	19,084

Insulator		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (Ibs)	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	0.00	-1	0	-1
Bolt	Deadend 12.75"		28.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	86	85
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	62	61
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	62	61
Bolt	Deadend 12.75"		20.00	0.00	0.0	0.0	3.00	2.00	15.00	3	62	64
									Totals:	-1	272	271

Guy Wire and Bra	ce	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		20.00	0.00	23.00	0.375	75.00	245.0	40.9	0.273	28.74	0.41

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* 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 GL³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	3,755	3,414	2,269	1,485	1,715	-125	-2,368
									Totals:	1,485	1,715	-125	-2,368

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 ³ (lbs)	Max Required Capacity² (%)
Single Helix Anchor		18.00	23.00	245.0	20,000	1.00	20,000	3,414	2,269	17.1

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	19.14	33.27	9.15	8.44	6.05	9.87	1.60e+6	60.00	57.00	34.00	175,218	1784.95	43.48

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.								