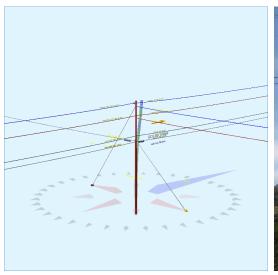
Pole Num:	93102169_P.OPP375	Pole Length /	/ Class:	40 / 5	Code:	NESC	Structure Type:		Junction
Aux Data 1	Unset	Species:	SOU	THERN PINE	NESC Rule:	Rule 250B	Status G	Suy Wir	es Adequate
Aux Data 2	Unset	Setting Depth	n (ft):	6.00	Construction Grade:	C	Pole Strength Facto	r:	0.85
Aux Data 3	Unset	G/L 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	00 Deg Longit	ude:		0.000000 Deg	Elevation:		0 Feet





Pole Capacity Utili	zation (%)	Height (ft)	Wind Angle (deg)
Maximum	27.2	20.0	356.3
Groundline	24.5	0.0	356.3
Vertical	11.1	26.6	0.0

Pole Moments (ft-	b)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	6,069	70.9	356.3
Groundline	12,189	335.6	356.3
GL Allowable	53,452		

Guy System Component Summary				Load From Angle o	Worst Wind on Pole	Individual Ma	aximum 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		18.1	356.3	19.8	90.0
EHS 3/8 (Down)			32.0	26.1	356.3	31.5	90.0
Single Helix Anchor	23.0	90.0		10.7	356.3	13.0	270.0
EHS 3/8 (Down)			20.0	15.4	356.3	20.6	270.0
		System Capac	ity Summary:	Adec	_l uate	Aded	quate

Groundline Load Summar	y - Reporting A	Angle Mode: L	oad - Reportir	ng Angle: 335	.6°					
	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	-1,216	-162.3	-36,412	-298.7	-68.1	-4,632	342	4	-4,628	-68.1
Comms	1,384	184.6	27,616	226.6	51.7	3,513	456	6	3,519	51.8
GuyBraces	220	29.4	15,032	123.3	28.1	1,912	6,553	86	1,998	29.4
Pole	332	44.3	5,195	42.6	9.7	661	1,364	18	679	10.0
Insulators	30	3.9	758	6.2	1.4	96	51	1	97	1.4
Pole Load	749	100.0	12,189	100.0	22.8	1,551	8,767	115	1,665	24.5
Pole Reserve Capacity			41,263		77.2	5,249			5,135	75.5

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 335.6°														
	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	-884	-118.0	-31,217	-256.1	-58.4	-3,971	1,706	22	-3,949	-58.1				
CATV	2	0.3	21	0.2	0.0	3	114	1	4	0.1				
AT&T	1,382	184.4	27,595	226.4	51.6	3,510	342	4	3,515	51.7				
<undefined></undefined>	250	33.3	15,790	129.6	29.5	2,009	6,604	86	2,095	30.8				
Totals:	749	100.0	12,189	100.0	22.8	1,551	8,767	115	1,665	24.5				

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	46,841	6	33	46,880
Primary	FPL	FPL	32.97	15.83	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-46,841	6	33	-46,803
Primary	FPL	FPL	31.97	5.14	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	-20,592	22	1,087	-19,483
Secondary	FPL	FPL	28.97	5.30	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	41,158	-10	29	41,176
Secondary	FPL	FPL	28.97	5.30	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-41,158	-10	29	-41,140
Secondary	FPL	FPL	27.97	5.36	0.5700	1.19	0.600	100.0	90.0	100.0	1,200	-18,016	23	951	-17,042
											Totals:	-38,608	37	2,160	-36,411

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	31,213	-11	22	31,223
CATV	CATV	CATV	21.97	5.70	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-31,213	-11	22	-31,202

User:Giulliana DESKTOP-80LQLSV OCP:5.02

*Includes Load Factor(s)

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² Worst Wind Per Guy Wire

³ Wind At 356.3°

Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,371	-11 -11	20	-28,363
	Alai	AIQI	19.91	5.01	0.5700	1.19	0.000	100.0	0.0	100.0	1,200	20,371	-11	30	20,390
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1.200	28,371	11	30	28,390
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	180.0	100.0	1,200	-28,371	-11	20	-28,363
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	0.0	100.0	1,200	28,371	-11	20	28,379
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	12,863	25	679	13,567
Telco	AT&T	AT&T	19.97	5.81	0.5700	1.19	0.600	100.0	270.0	100.0	1,200	12,863	25	1,096	13,983

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	270.0	270.0	3.00	3.80	12.75	3	164	167
Bolt	Deadend 12.75"		32.00	0.00	0.0	0.0	3.00	2.00	15.00	2	98	100
Bolt	Deadend 12.75"		29.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	89	88
Bolt	Deadend 12.75"		28.00	0.00	0.0	0.0	3.00	2.00	15.00	2	86	88
Bolt	Deadend 12.75"		22.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	68	66
Bolt	Deadend 12.75"		20.00	0.00	0.0	0.0	3.00	2.00	15.00	3	61	64
Bolt	Deadend 12.75"		20.00	0.00	0.0	0.0	3.00	2.00	15.00	3	61	64
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	61	60
Bolt	Deadend 12.75"		20.00	0.00	90.0	90.0	3.00	2.00	15.00	-1	61	60
									Totals:	8	750	758

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	270.0	54.1	0.273	37.76	0.86
EHS 3/8	Down		20.00	0.00	23.00	0.375	75.00	90.0	40.9	0.273	28.74	0.39

Guy Wire and (Loads and Re		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	4,364	3,967	3,619	2,932	2,121	876	28,294
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	2,851	2,592	2,133	1,396	1,612	-666	-13,262
									Totals:	4,328	3,733	210	15,032

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	270.0	20,000	1.00	20,000	3,967	3,618	19.8
Single Helix Anchor		18.00	23.00	90.0	20,000	1.00	20,000	2,592	2,133	13.0

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	26.62	34.55	8.83	14.33	6.05	9.87	1.60e+6	60.00	57.00	34.00	78,643	789.81	9.01

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.							