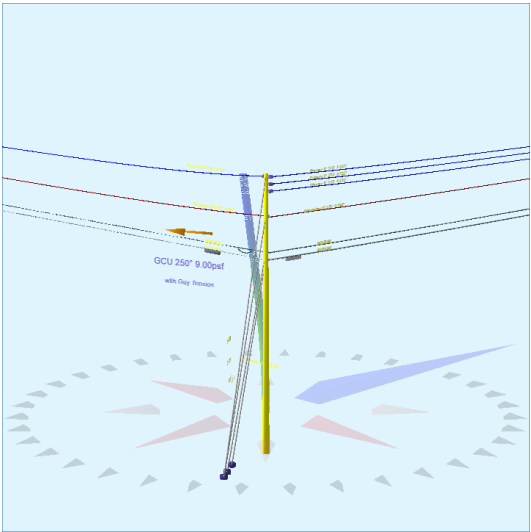


Pole Num:	113890851_P5	Pole Length / Class:	40 / 3	Code:	NESC	Structure Type:	Angle
Aux Data 1	A05366S	Species:	SOUTHERN PINE	NESC Rule:	Rule 250B	Status	Guy Wires Adequate
Aux Data 2	Unset	Setting Depth (ft):	6.00	Construction Grade:	C	Pole Strength Factor:	0.85
Aux Data 3	Unset	G/L Circumference (in):	36.00	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:	26.209320 Deg	Longitude:	-80.115900 Deg	Elevation:	0 Feet		



Pole Capacity Utilization (%)		Height (ft)	Wind Angle (deg)
Maximum	38.2	0.0	250.0
Groundline	38.2	0.0	250.0
Vertical	6.2	24.5	325.0

Pole Moments (ft-lb)		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	30,626	244.3	250.0
Groundline	30,626	244.3	250.0
GL Allowable	83,712		

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)
Expanding - 10" 8-Way - Soil Class 4	30.0	145.0		18.3	250.0	19.5	280.0
EHS 3/8 (Down)			33.5	5.5	250.0	6.5	280.0
EHS 3/8 (Down)			33.5	5.5	250.0	6.5	280.0
EHS 3/8 (Down)			28.0	12.9	250.0	14.9	299.3
Expanding - 10" 8-Way - Soil Class 4	28.0	145.0		13.6	250.0	14.8	340.0
EHS 3/8 (Down)			23.0	17.7	250.0	21.1	340.0
Expanding - 10" 8-Way - Soil Class 4	25.0	145.0		14.6	250.0	15.4	330.0
EHS 3/8 (Down)			22.0	19.0	250.0	22.1	330.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 244.3°										
	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	225	14.3	6,410	20.9	7.7	521	46	0	521	7.7
Comms	1,852	117.9	41,177	134.5	49.2	3,345	768	7	3,352	49.3
GuyBraces	-944	-60.1	-24,194	-79.0	-28.9	-1,965	8,558	83	-1,882	-27.7
Pole	417	26.5	6,567	21.4	7.9	534	1,894	18	552	8.1
Insulators	21	1.3	666	2.2	0.8	54	61	1	55	0.8
Pole Load	1,571	100.0	30,626	100.0	36.6	2,488	11,327	110	2,598	38.2
Pole Reserve Capacity			53,086		63.4	4,312			4,202	61.8

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 244.3°										
	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	642	40.8	12,977	42.4	15.5	1,054	1,941	19	1,073	15.8
CATV	855	54.5	19,547	63.8	23.4	1,588	246	2	1,590	23.4
AT&T	996	63.4	21,630	70.6	25.8	1,757	522	5	1,762	25.9
<Undefined>	-923	-58.7	-23,528	-76.8	-28.1	-1,911	8,619	84	-1,828	-26.9
Totals:	1,571	100.0	30,626	100.0	36.6	2,488	11,327	110	2,598	38.2

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	AAC 4 AWG 7 STRAND ROSE	FPL	33.47	13.27	0.2320	0.44	0.039	98.0	270.0	98.1	291	11,395	1	74	11,470
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	33.47	13.27	0.2320	2.61	0.039	270.0	0.0	270.0	291	-5,492	-2	1,165	-4,330
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	32.47	13.29	0.2320	2.61	0.039	270.0	0.0	270.0	291	-5,328	-2	1,130	-4,200
Primary	AAC 4 AWG 7 STRAND ROSE	FPL	31.47	13.31	0.2320	2.61	0.039	270.0	0.0	270.0	291	-5,164	-2	1,095	-4,071
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	27.97	6.53	0.1980	0.23	0.036	98.0	270.0	98.0	393	12,862	-1	53	12,914
Secondary	ACSR 6 AWG 6/1 TURKEY	FPL	27.97	6.53	0.1980	1.57	0.036	270.0	0.0	270.0	393	-6,199	-5	831	-5,373
											Totals:	2,074	-11	4,347	6,410

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)
Overlashed Bundle	6M STRAND	CATV	23.00	6.83	0.2420	5.92	0.104	270.0	0.0	270.0	1,200	-15,578	-14	1,377	-14,215
CATV	CATV	CATV	22.97	6.83	0.5700		0.600	270.0	0.0	270.0			-79	1,375	1,296
Overlashed Bundle	6M STRAND	CATV	23.00	6.83	0.2420	0.86	0.104	98.0	270.0	98.0	1,200	32,322	-5	88	32,404
CATV	CATV	CATV	22.97	6.83	0.5700		0.600	98.0	270.0	98.0			-29	90	62
Overlashed Bundle	6M STRAND	AT&T	22.00	6.89	0.2420	12.30	0.104	270.0	0.0	270.0	1,200	-14,901	-14	1,712	-13,203
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	21.98	6.60	0.5980		0.057	270.0	0.0	270.0			-7	2,137	2,130
Telco	BKTS 200 PR.	AT&T	21.96	7.29	0.9300		1.400	270.0	0.0	270.0			-199	1,709	1,510
Overlashed Bundle	6M STRAND	AT&T	22.00	6.89	0.2420	1.50	0.104	98.0	270.0	98.0	1,200	30,916	-5	89	31,000
Fiber Irregular	FlexNap Ribbon Cable - 72 FIBERS	AT&T	21.97	6.61	0.5980		0.057	98.0	270.0	98.0			-3	89	86
Telco	BKTS 100 PR.	AT&T	21.97	7.19	0.6700		1.140	98.0	270.0	98.0			-58	164	106
											Totals:	32,758	-411	8,830	41,177

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 Insulator - 15 kV		33.50	0.00	0.0	0.0	3.00	3.80	12.75	5	177	181
Deadend	Deadend Insulator - 15 kV		33.50	0.00	90.0	90.0	3.00	3.80	12.75	-4	177	172
Deadend	Deadend Insulator - 15 kV		32.50	0.00	90.0	90.0	3.00	3.80	12.75	-4	171	167
Deadend	Deadend Insulator - 15 kV		31.50	0.00	90.0	90.0	3.00	3.80	12.75	-4	166	162
Bolt	Single Bolt		28.00	0.00	0.0	0.0	5.00	3.00	0.00	-2	0	-2
Bolt	Single Bolt		28.00	0.00	90.0	90.0	5.00	3.00	0.00	-5	0	-5
Bolt	Single Bolt		23.00	0.00	90.0	0.0	5.00	3.00	0.00	-5	0	-5

Bolt	Single Bolt	22.00	0.00	90.0	0.0	5.00	3.00	0.00	-5	0	-5
								Totals:	-25	691	666

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		33.50	0.00	30.00	0.375	75.00	145.0	48.0	0.273	44.27	0.21
EHS 3/8	Down		33.50	0.00	30.00	0.375	75.00	145.0	48.0	0.273	44.27	0.21
EHS 3/8	Down		28.00	0.00	30.00	0.375	75.00	145.0	42.9	0.273	40.29	0.45
EHS 3/8	Down		23.00	0.00	28.00	0.375	75.00	145.0	39.3	0.273	35.46	0.55
EHS 3/8	Down		22.00	0.00	25.00	0.375	75.00	145.0	41.2	0.273	32.53	0.54

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 Tension² (lbs)	Applied Tension³ (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	899	817	760	565	509	-82	-2,396
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	899	817	760	565	509	-82	-2,396
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	2,064	1,877	1,785	1,215	1,308	-211	-5,651
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	2,923	2,657	2,450	1,551	1,896	-305	-6,872
EHS 3/8	Down	2.30e+7	15,400	0.90	13,860	700	3,056	2,779	2,629	1,732	1,977	-318	-6,879
Totals:										5,628	6,199	-998	-24,194

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 (%)
Expanding - 10" 8-Way - Soil Class 4			6.00	30.00	145.0	18,000	1.00	18,000	3,506	3,301	19.5
Expanding - 10" 8-Way - Soil Class 4			6.00	28.00	145.0	18,000	1.00	18,000	2,657	2,450	14.8
Expanding - 10" 8-Way - Soil Class 4			6.00	25.00	145.0	18,000	1.00	18,000	2,778	2,629	15.4

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	24.46	33.90	10.45	15.63	7.32	11.46	1.60e+6	60.00	57.00	34.00	182,369	1826.91	16.13

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.