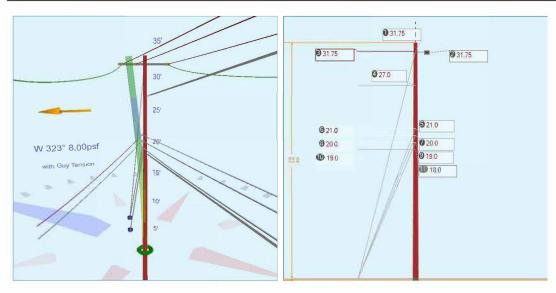
SAP Equip ID:	TBA	Pole Length /	Class:	40 / 5	Code:		GO 95	Structure Type:	Deadend
PM Order Number	35412695	Species:		OUGLAS FIR	GO 95 Rule:	At Inst	allation (New)	Pole Strength Factor	r: 0.50
Estimator Land ID	YXF9	Setting Depth	n (ft):	7.0	Construction	Grade:	С	Transverse Wind LF:	: 1.00
Sketch Location	LOC_1	G/L Circumfe	. Circumference (in):		Loading Distri	ict:	Light	Wire Tension LF:	1.00
Joint Pole Number	PG235473RN-1	G/L Fiber Str	Fiber Stress (psi):		Ice Thickness	(in):	0.00	Vertical LF:	1.00
Notification	119649185	Allowable Str	ess (psi):	3,642	Wind Speed (Wind Speed (mph):		Pole Factor of Safety	y: 3.38
Aux Data 6	Unset	Fiber Stress	Ht. Reduc:	No	Wind Pressur	Wind Pressure (psf):		Vertical Factor of Sat	fety: 12.35
Latitude:	37.549564	Longitude:	Longitude:		Elevation:		92.63'	Bending Factor of Sa	afety: 3.67



Pole Capacity Utiliz Crossarm allowand		Height (ft)	Wind Angle (deg)
Maximum	59.2	0.0	323.4
Groundline	59.2	0.0	323.4
Vertical	16.2	24.8	136.5

Pole Moments (ft-l Crossarm allowan		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	15,089	291.6	323.4
Groundline	15,089	291.6	323.4
GL Allowable	27,662		
Overturn	47,500		



Guy System Component Summary				Load From Angle o			aximum Load bad Applied
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)
Anchor - 20M	13.0	50.0		43.7	323.4	44.9	277.8
EHS 7/16 (Down)			31.8	48.6	323.4	50.7	240.0
EHS 5/16 (Down)			21.0	66.5	323.4	66.6	315.6
Anchor	120.0	230.0		2.4	323.4	3.7	230.0
EHS 3/8 (Span/Head)			27.0	3.8	323.4	5.9	230.0
EHS 5/16 (Span/Head)			18.0	0.0	323.4	0.0	0.0
Anchor - 12M	8.0	43.0		40.5	323.4	50.8	150.0
EHS 5/16 (Down)			20.0	42.1	323.4	53.6	150.0
EHS 5/16 (Down)			19.0	44.7	323.4	55.3	150.0
		System Capac	ity Summary:	Adeo	_l uate	Aded	quate

Groundline Load Summary	y - Reporting A	Angle Mode: L	oad - Reportii	ng Angle: 291	.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 (%)
Powers	963	96.1	22,077	146.3	79.8	4,018	-155	- 2	4,015	110.3
Comms	2,176	217.1	31,510	208.8	113.9	5,734	-380	-5	5,729	157.3
GuyBraces	- 2,287	-228.1	-40,321	-267.2	-145.8	-7,337	12,494	167	-7,170	-196.9
Pole	148	14.7	1,788	11.9	6.5	325	687	9	335	9.2
Crossarms	1	0.0	2	0.0	0.0	0	54	1	1	0.0
Insulators	2	0.1	33	0.2	0.1	6	21	0	6	0.2
Pole Load	1,002	100.0	15,089	100.0	54.6	2,746	12,720	170	2,916	80.1
Pole Reserve Capacity			12,573		45.5	896			726	19.9

Load Summary by Owner -	- Reporting An	gle Mode: Loa	ad - Reporting	Angle: 291.6	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 (%)
PG&E	227	22.6	4,627	30.7	16.7	842	4,671	62	905	24.8
CATV	480	47.9	6,800	45.1	24.6	1,237	2,925	39	1,277	35.0
Comm	148	14.8	1,874	12.4	6.8	341	4,437	59	400	11.0
Pole	148	14.7	1,788	11.9	6.5	325	687	9	335	9.2
Totals:	1,002	100.0	15,089	100.0	54.6	2,746	12,720	170	2,916	80.1

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)
Secondary	#4 (7) CU LT	PG&E	31.75	18.01	0.2316	0.90	0.129	119.6	230.0	119.6	635	1,881	-14	51	1,917
Secondary	#4 (7) CU LT	PG&E	31.75	42.00	0.2316	0.90	0.129	119.7	230.1	119.7	635	1,886	-33	51	1,903
Service	1/0 AAC N-SD TPX (SNA I L)	PG&E	31.75	42.00	0.9200	0.40	0.340	30.0	258.0	30.3	25	130	3	29	162
Service	1/0 AAC N-SD TPX (SNA I L)	PG&E	31.75	42.00	0.9200	0.37	0.340	28.0	210.0	28.2	25	23	-3	49	69
Secondary	#4 (7) CU LT	PG&E	31.75	42.00	0.2316	0.90	0.129	119.5	229.9	119.5	635	1,876	34	51	1,960
											Totals:	5,795	-13	230	6,012

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	0.5" CATV Bundle	CATV	21.00	6.20	0.2420	0.69	0.104	120.0	229.5	120.0	1,359	2,617	1	36	2,654
CATV	CATV	CATV	20.98	6.20	0.2500		0.036	120.0	229.5	120.0			0	36	36
CATV	CATV 18 AWG COAX SVC DROP	CATV	21.00	6.20	0.2700	0.63	0.037	30.0	258.0	30.0	59	202	0	6	208
Overlashed Bundle	1" CATV Bundle	CATV	20.00	6.25	0.2420	1.19	0.104	120.0	229.5	120.0	1,415	2,594	1	69	2,664
CATV	Catv	CATV	19.96	6.25	0.7500		0.070	120.0	229.5	120.0			0	69	70
Telco	COMM 18.5 AWG SVC DROP	Comm	20.00	6.25	0.2900	0.58	0.029	30.0	258.0	30.0	92	301	0	6	307
Overlashed Bundle	1.25" Communication Bundle	Comm	19.00	6.31	0.2420	1.77	0.104	120.0	229.5	120.0	1,421	2,474	1	82	2,557
Telco	CU CABLE	Comm	18.95	6.31	1.0000		0.600	120.0	229.5	120.0			4	82	86
											Totals:	8,188	6	387	8,581

Crossarm	Owner	Height (ft)	Horiz. Offset	Offset	Rotate	Unit Weight	Unit Height	Unit Depth	Unit	Offset Moment*	Wind Moment*	Moment at GL*
		(11)		Angle (deg)	Angle (deg)	(lbs)		(in)	Length (in)	(ft-lb)	(ft-lb)	(ft-lb)

Normal 8L Composite Dead-End PG&E 31.75 -5.41 230.0 230.0 54.00 3.63 4.63 96.00 -2 3 1
Arm

Totals: -2 3 1

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)
Spool	Spool	PG&E	31.75	18.00	336.7	-0.1	2.00	3.00	3.19	0	3	3
Spool	Spool	PG&E	31.75	42.00	327.4	0.1	2.00	3.00	3.19	0	3	3
Spool	Spool	PG&E	31.75	-42.00	132.7	-0.2	2.00	3.00	3.19	0	3	3
Bolt	Bolted Clamp	CATV	21.00	0.00	320.0	230.0	5.00	3.00	0.50	0	0	0
Bolt	Communication-Single Bolt	CATV	20.00	0.00	320.0	230.0	5.00	3.00	0.10	0	0	0
Bolt	Communication-Single Bolt	Comm	19.00	0.00	320.0	230.0	5.00	3.00	0.10	0	0	0
								ſ	Totals:	0	9	9

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 7/16	Down	PG&E	31.75	0.00	13.00	0.438	75.00	50.0	67.5	0.399	40.29	0.94
EHS 5/16	Down	CATV	21.00	0.00	13.00	0.312	75.00	50.0	58.1	0.205	30.24	1.02
EHS 3/8	Span/Head	PG&E	27.00	5.20	120.01	0.375	75.00	230.0	10.3	0.273	119.86	0.22
EHS 5/16	Span/Head	Comm	18.00	7.03	120.01	0.312	75.00	230.0	5.2	0.205	118.88	0.00
EHS 5/16	Down	Comm	20.00	0.00	8.00	0.312	75.00	43.0	68.0	0.205	25.57	0.55
EHS 5/16	Down	Comm	19.00	0.00	8.00	0.312	75.00	43.0	66.9	0.205	24.61	0.56

Guy Wire and B (Loads and Rea		Elastic Modulus (psi)	Rated Tensile Strength (lbs)	Guy Strength Factor	Allowable Tension (lbs)	Initial Tension (Ibs)	Loaded Tension* ² (lbs)	Maximum Tension² (lbs)	Applied Tension³ (lbs)	Vertical Load (Ibs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL³ (ft-lb)
EHS 7/16	Down	2.30e+7	20,800	0.50	10,400	700	5,272	5,272	5,050	4,666	1,932	-919	-28,262
EHS 5/16	Down	2.30e+7	11,200	0.50	5,600	700	3,731	3,731	3,721	3,157	1,969	-937	-19,183
EHS 3/8	Span/Head	2.30e+7	15,400	0.50	7,700	700	457	457	295	53	290	138	4,098
EHS 5/16	Span/Head	2.30e+7	11,200	0.50	5,600	700	0	0	0	0	0	0	205
EHS 5/16	Down	2.30e+7	11,200	0.50	5,600	700	3,004	3,004	2,357	2,185	884	-323	-6,127
EHS 5/16	Down	2.30e+7	11,200	0.50	5,600	700	3,094	3,094	2,501	2,301	980	-358	-6,460
									Totals:	12,361	6,055	-2,399	-55,728

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 (%)
Anchor - 20M	PG&E	6.00	13.00	50.0	40,000	0.50	20,000	8,972	8,741	44.9
Anchor	PG&E	6.00	120.01	230.0	25,000	0.50	12,500	456	295	3.6
Anchor - 12M	Comm	30.00	8.00	43.0	24,000	0.50	12,000	6,098	4,857	50.8

User:YXF9 PGE OCP:6.02 Includes Load Factor(s) Page 4 of 5 Worst Wind Per Guy Wire ³ Wind At 323.4°

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	24.77	34.28	8.80	6.20	6.05	9.76	2.38e+6	60.00	57.00	33.00	77,839	785.19	6.17