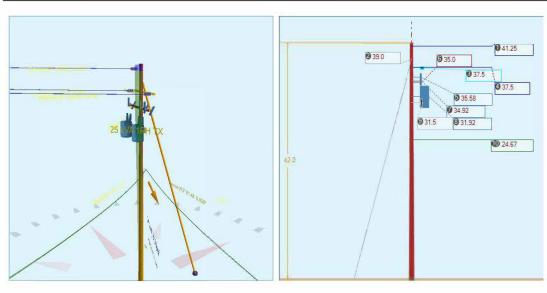
SAP Equip ID:	TBA	Pole Length /	/ Class:	50 / 4	Code:		GO 95	Structure Type:	Deadend
PM Order Number	35412692	Species:	Į.	OOUGLAS FIR	GO 95 Rule:	At Insta	allation (New)	Pole Strength Factor:	0.33
Estimator LAN ID	B2WJ	Setting Depth	n (ft):	8.0	Construction	Grade:	В	Transverse Wind LF:	1.00
Sketch Location	LOC_1	G/L Circumfe	erence (in):	35.80	Loading Distri	ict:	Light	Wire Tension LF:	1.00
Joint Pole Number	N/A	G/L Fiber Str	ess (psi):	7,600	Ice Thickness	(in):	0.00	Vertical LF:	1.00
Notification	119648377	Allowable Str	ess (psi):	2,434	Wind Speed (mph):	55.90	Pole Factor of Safety:	: 4.63
Aux Data 6	Unset	Fiber Stress	Ht. Reduc:	No	Wind Pressur	e (psf):	8.00	Vertical Factor of Safe	ety: 14.64
Latitude:	39.236506	Longitude:		-121.588593	Elevation:		75.5'	Bending Factor of Sa	fety: 4.89



Pole Capacity Util Crossarm allowan	ization (%) ce 300 lbs	Height (ft)	Wind Angle (deg)
Maximum	64.8	0.0	294.1
Groundline	64.8	0.0	293.4
Vertical	20.5	35.6	11.0

Pole Moments (ft-l Crossarm allowan		Load Angle (deg)	Wind Angle (deg)
Max Cap Util	18,077	310.8	294.1
Groundline	18,077	310.8	293.4
GL Allowable	29,455		
Overturn	91,000		

Guy System Component Summary	c_			Load From Angle o		Individual Ma With Overlo	
Description		Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)
Anchor - 15M	12.0	191.0	S 48	41.0	294.1	44.5	10.0
EHS 3/8 (Down)			39.0	79.8	294.1	86.8	10.0
	W	System Capac	ity Summary:	Adec	_l uate	Adequate	

Groundline Load Summary	y - Reporting <i>A</i>	Angle Mode: L	oad - Reportii	ng Angle: 310	.8°					
	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	1,248	172.2	36,644	202.7	124.4	3,899	-53	-1	3,899	160.2
GuyBraces	- 874	-120.7	-26,470	-146.4	-89.9	-2,817	5,896	58	-2,759	-113.3
GenericEquipments	71	9.8	2,967	16.4	10.1	316	1,340	13	329	13.5
Pole	242	33.5	3,893	21.5	13.2	414	1,148	11	426	17.5
Crossarms	25	3.5	673	3.7	2.3	72	190	2	73	3.0
Insulators	13	1.7	370	2.1	1.3	39	62	1	40	1.6
Pole Load	724	100.0	18,077	100.0	61.4	1,924	8,584	84	2,008	82.5
Pole Reserve Capacity			11,378		38.6	510			426	17.5

Load Summary by Owner	oad Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 310.8°													
	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	482	66.5	14,184	78.5	48.2	1,509	7,436	73	1,582	65.0				
Pole	242	33.5	3,893	21.5	13.2	414	1,148	11	426	17.5				
Totals:	724	100.0	18,077	100.0	61.4	1,924	8,584	84	2,008	82.5				

Detailed Load Components:

Power		Owner	Height (ft)	Horiz. Offset (in)	Cable Diameter (in)	Sag at Max Temp (ft)	Cable Weight (Ibs/ft)	Lead/Span Length (ft)	Span Angle (deg)	Wire Length (ft)	Tension (I bs)	Tension Moment* (ft-lb)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Primary	4 (6/1) ACSR SWAN LT	PG&E	41.25	22.13	0.2500	0.69	0.057	127.6	8.0	127.6	708	4,988	-1	112	5,099
Primary	4 (6/1) ACSR SWAN LT	PG&E	37.50	43.92	0.2500	0.71	0.057	128.5	8.7	128.5	708	4,439	2	103	4,544
Primary	4 (6/1) ACSR SWAN LT	PG&E	37.50	43.92	0.2500	0.70	0.057	128.3	8.6	128.3	708	4,457	-3	103	4,557
Service	1/0 AAC N-SD TPX (SNA I L)	PG&E	24.67	19.31	0.9200	0.91	0.340	61.5	273.0	62.2	45	276	5	32	313
Service	1/0 AAC N-SD QPX	PG&E	24.67	19.31	1.1510	0.58	0.480	40.0	329.0	40.4	45	332	4	21	357
			_							·	Totals:	14,491	7	372	14,870

GenericEquip	pment	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)
Cylinder	ARRESTER	PG&E	35.58	41.29	8.0	0.0	20.00	18.00		4.00		-15	42	28
Cylinder	ARRESTER	PG&E	35.58	20.71	8.0	0.0	20.00	18.00		4.00		11	42	53

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Cylinder	ARRESTER	PG&E	35.58	41.29	8.0	0.0	20.00	18.00	 4.00		21	42	63
Cylinder	Disconnect Switch 1	PG&E	34.92	44.09	188.0	0.0	20.00	18.00	 4.00		-20	42	22
Cylinder	Disconnect Switch 2	PG&E	34.92	44.09	188.0	0.0	20.00	18.00	 4.00		19	42	61
Cylinder	Disconnect Switch 3	PG&E	34.92	18.21	188.0	0.0	20.00	18.00	 4.00		7	42	49
I mported	25 kVA 1PH TX	PG&E	31.92	31.61	0.0	0.0	610.00		 		-52	237	185
I mported	25 kVA 1PH TX	PG&E	31.92	31.61	0.0	0.0	610.00		 		506	237	743
									Γ	Totals:	476	728	1,204

Crossarm		Owner	Height (ft)	Horiz. Offset (in)	Offset Angle (deg)	Rotate Angle (deg)	Unit Weight (lbs)	Unit Height (in)	Unit Depth (in)	Unit Length (in)	Offset Moment* (ft-lb)	Wind Moment* (ft-lb)	Moment at GL* (ft-lb)
Normal	8L Composite Dead-End Arm	PG&E	37.50	-5.91	7.9	7.9	54.00	3.63	4.63	96.00	-5	69	65
Normal	Cutout Arm- 3 Wire	PG&E	35.00	4.73	8.0	8.0	36.00	4.00	2.00	92.00	2	60	63
Normal	3-Phase Open Delta	PG&E	31.50	5.43	0.0	0.0	100.00	10.00	3.00	50.00	9	136	145
										Totals:	7	266	273

Insulator		Owner	Height (ft)	Horiz. Offset	Offset Angle	Rotate Angle	Unit Weight	Unit Diameter	Unit Length	Offset Moment*	Wind Moment*	Moment at GL*
				(in)	(deg)	(deg)	(lbs)	(in)	(in)	(ft-lb)	(ft-lb)	(ft-lb)
Deadend	Dead-End Insulator	PG&E	41.25	0.00	7.9	7.9	4.00	3.90	18.75	0	51	51
Deadend	Dead-End Insulator	PG&E	37.50	42.00	105.9	0.0	4.00	3.90	18.75	0	46	46
Deadend	Dead-End Insulator	PG&E	37.50	-42.00	269.9	0.0	4.00	3.90	18.75	0	46	46
Bolt	ARRESTER	PG&E	35.17	40.00	91.2	0.0	5.00	3.00	0.10	0	0	0
Bolt	ARRESTER	PG&E	35.17	-18.00	292.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	ARRESTER	PG&E	35.17	-40.00	284.8	0.0	5.00	3.00	0.10	0	0	0
Bolt	Cutout	PG&E	35.17	44.00	91.9	180.0	5.00	3.00	0.10	0	0	0
Bolt	Cutout	PG&E	35.17	-44.00	284.1	180.0	5.00	3.00	0.10	0	0	0
Bolt	Cutout	PG&E	35.17	-18.00	292.7	180.0	5.00	3.00	0.10	0	0	0
Bolt	1PH TX	PG&E	31.92	23.00	76.7	0.0	5.00	3.00	0.10	0	0	0
Bolt	1PH TX	PG&E	31.92	-23.00	283.3	0.0	5.00	3.00	0.10	0	0	0
Extension	14" Spool Bracket	PG&E	24.67	0.00	269.1	269.1	10.00	1.00	15.00	0	6	6
									Totals:	0	150	150

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	PG&E	39.00	0.00	12.00	0.375	75.00	191.0	72.7	0.273	45.94	1.78

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 Tension ² (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	0.50	7,700	700	6,681	6,681	6,147	5,868	1,833	-911	-34,086
									Totals:	5,868	1,833	-911	-34,086

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Generator

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 (Ibs)	Max Required Capacity² (%)
Anchor - 15M	PG&E	30.00	12.00	191.0	30,000	0.50	15,000	6,681	6,147	44.5

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	35.59	35.25	9.99	7.68	6.69	11.40	2.38e+6	60.00	57.00	42.00	41,537	418.73	4.88

Notes									
Date	Author	Description							
8/3/2015	ben1	Install C/O Arm min 2.5 ft below Primary Conductor							
Install C/O Arm n	Install C/O Arm min 2.5 ft below Primary Conductor								
10/4/2015	0/4/2015 BEN1 Set Height to Minimum of 3.25 ft Below Primary Conductor								
9/30/2015		Scott Transformer Bracket dimensions							
Scott Transfe	ormer Bracket -	Material Code 180133							
Center of tra	Center of transformers are 23 inches from center of bracket								
Transformers tilted back at 37 degrees									
Top and bottom mounts are 17.5 inches apart									
12/13/2017	PG&E Pole Generator	WAG							
12/13/2017	PG&E Pole	WAG							

Estimator: B2WJ PM 35412692 LOC_1

v3.5.6

PGE Master Catalog - APR-28-2022

PLDBID: 7700359626 50'-4 wood 8' deep.

Load Case: GO 95 Light Grade B At Installation (W:8psf)

Analyzed Wind Speed: 55.9 mph

Configured Snow Loading: Light w/ 0 in. ice Construction Grade/Type: Grade B At Installation.

Required Pole Safety Factor = 3

Confirm correct number of PG&E Primary, Secondary, Neutral spans on Construction Drawing include and align with (+/-10'):

Primary: 3-4 (6/1) ACSR SWAN LT 8 Deg. 128 Ft.

Service: 1-1/0 AAC N-SD TPX (SNAIL) 273 Deg. 61 Ft.

Service: 1-1/0 AAC N-SD QPX 329 Deg. 40 Ft.

Confirm correct detailing of equipment on Construction Drawing (Cutouts are not shown on ConDwg):

Disconnect Switch 1
Disconnect Switch 2
Disconnect Switch 3
25 kVA 1PH TX
25 kVA 1PH TX

Done. No audit item issues detected