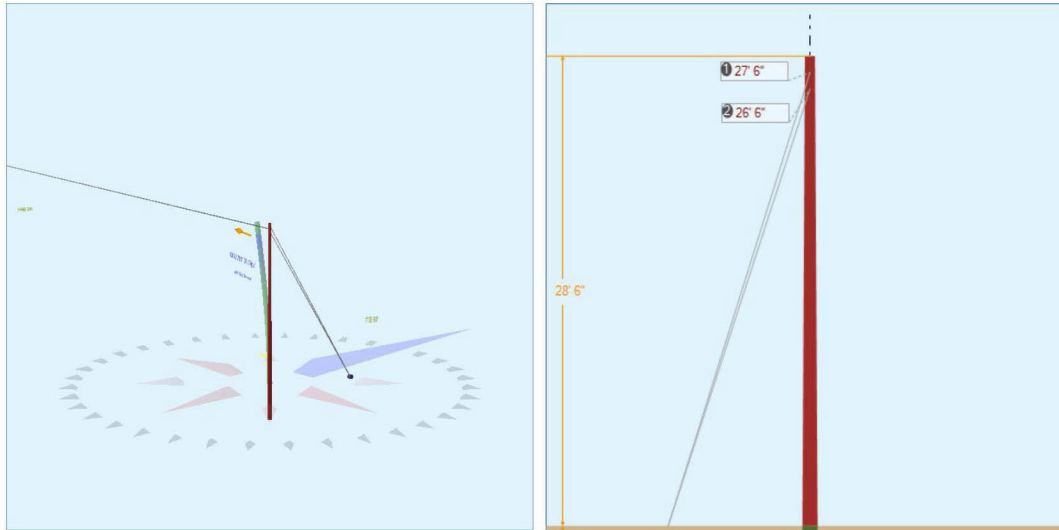




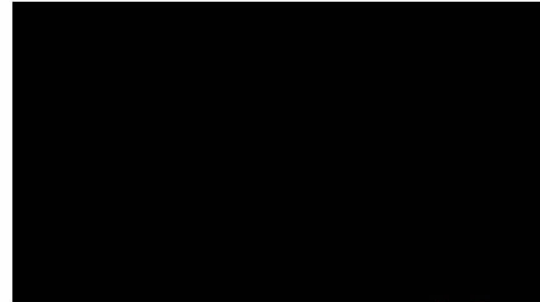
PASSED [REDACTED] 05/22/2021

Pole Num:	0	Pole Length / Class:	35 / 5	Code:	HFTD 2-3 Peak Wind	Structure Type:	Guyed Tangent
PM Order Number	[REDACTED]	Species:	DOUGLAS FIR	GO 95 Rule:	At Installation (New)	Pole Strength Factor:	0.50
Estimator LAN ID	[REDACTED]	Setting Depth (ft):	6.50	Construction Grade:	B	Transverse Wind LF:	1.00
Sketch Location	LOC_105	G/L Circumference (in):	28.83	Loading District:	Heavy	Wire Tension LF:	1.00
Joint Pole Number	Unset	G/L Fiber Stress (psi):	8,000	Ice Thickness (in):	0.00	Vertical LF:	1.00
Notification	[REDACTED]	Allowable Stress (psi):	4,000	Wind Speed (mph):	90.00	Pole Factor of Safety:	6.17
Aux Data 6	Unset	Fiber Stress Ht. Reduc:	No	Wind Pressure (psf):	20.74	Vertical Factor of Safety:	12.35
Latitude:	39.911279 Deg	Longitude:	-121.326533 Deg	Elevation:	1971.999936896 Feet	Bending Factor of Safety:	6.84



Pole Capacity Utilization (%)	Height (ft)	Wind Angle (deg)
Maximum	32.4	0.0
Groundline	32.4	0.0
Vertical	16.2	26.2

Pole Moments (ft-lb)	Load Angle (deg)	Wind Angle (deg)
Max Cap Util	7,392	272.5
Groundline	7,392	272.5
GL Allowable	25,284	
Overturn	35,300	



Digitally signed

by [REDACTED]

Date: 2021.05.24

09:15:17 -07'00'

Guy System Component Summary				Load From Worst Wind Angle on Pole		Individual Maximum Load With Overload Applied	
Description	Lead Length (ft)	Lead Angle (deg)	Height (ft)	Nominal Capacity (%)	Wind Angle (deg)	Max* Load Capacity (%)	Wind Angle (deg)
Anchor - 18M	15.0	28.0		59.5	291.2	60.9	210.0
EHS 3/8 (Down)			27.5	69.7	291.2	71.0	210.0
EHS 3/8 (Down)			26.5	69.4	291.2	71.4	210.0
Anchor	60.0	208.0		44.9	291.2	44.9	0.0
EHS 3/8 (Span/Head)			27.5	72.9	291.2	72.9	0.0
System Capacity Summary:				Adequate		Adequate	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 272.5°										
	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 (%)
GuyBraces	155	30.4	3,732	50.5	14.8	852	7,909	120	971	24.3
Pole	355	69.6	3,660	49.5	14.5	835	548	8	843	21.1
Pole Load	510	100.0	7,392	100.0	29.2	1,686	8,457	128	1,814	45.4
Pole Reserve Capacity			17,892		70.8	2,314			2,186	54.6

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 272.5°										
	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	155	30.4	3,732	50.5	14.8	852	7,909	120	971	24.3
Pole	355	69.6	3,660	49.5	14.5	835	548	8	843	21.1
Totals:	510	100.0	7,392	100.0	29.2	1,686	8,457	128	1,814	45.4

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	27.50	0.00	15.00	0.375	75.00	28.0	61.2	0.273	36.56	1.24
EHS 3/8	Down	PG&E	26.50	0.00	15.00	0.375	75.00	28.0	60.3	0.273	35.64	1.20
EHS 3/8	Span/Head	PG&E	27.50	44.33	60.00	0.375	75.00	208.0	-15.6	0.273	60.13	2.13

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 Tension ³ (lbs)	Vertical Load (lbs)	Shear Load In Guy Dir (lbs)	Shear Load At Report Angle (lbs)	Moment at GL ³ (ft-lb)
EHS 3/8	Down	2.30e+7	15,400	0.50	7,700	700	5,467	5,467	5,369	4,704	2,587	-1,115	-29,780
EHS 3/8	Down	2.30e+7	15,400	0.50	7,700	700	5,500	5,500	5,347	4,644	2,650	-1,142	-29,415
EHS 3/8	Span/Head	2.30e+7	15,400	0.50	7,700	700	5,616	5,616	5,616	-1,514	5,408	2,331	64,577
Totals:										7,834	10,646	73	5,383

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 Load ² (lbs)	Load at Pole MCU ³ (lbs)	Max Required Capacity ² (%)
Anchor - 18M	PG&E	6.00	15.00	28.0	36,000	0.50	18,000	10,967	10,716	60.9
Anchor	PG&E	6.00	60.00	208.0	25,000	0.50	12,500	5,616	5,616	44.9

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	26.21	34.70	8.18	5.82	6.05	9.18	2.38e+6	60.00	57.00	28.50	52,106	522.06	6.17