CROWN CASTLE'S RESPONSES TO THE AUDIT REPORT'S RECORDS FINDINGS

FINDING 1:

ESRB staff observed that loading calculations by Crown Castle Communication for Pole 4207066E was missing two SCE down guys at heights of 55.5 ft. and 36 ft.

CROWN CASTLE'S RESPONSE:

Crown Castle respectfully disagrees with this finding. After investigation, Crown Castle has determined that the two Southern California Edison ("SCE") down guy wires were not present at the time Crown Castle preformed the pole loading calculation provided in response to the pre-audit data request (April 26, 2021). SCE presumably installed the down guy wires at some point between April 26, 2021 and the date of the field visit. Out of an abundance of caution, on October 10, 2025, Crown Castle prepared a new pole loading calculation ("PLC") that reflects the present state of the pole, its attachments, and support structures. The PLC demonstrates that the safety factor is well in line with the requirements of General Order ("GO") 95, Rule 44.2. Please see Exhibit 1.

FINDING 2:

ESRB staff observed that loading calculations by Crown Castle Communication for Pole 1667852E was missing a SCE secondary service drop at a height of 28 ft.

CROWN CASTLE'S RESPONSE:

Crown Castle acknowledges that the PLC it performed on April 28, 2021, which it provided in response to the pre-audit data request, inadvertently failed to reflect the SCE secondary service drop cable attached at a height of 28 feet. On October 10, 2025, Crown Castle prepared a new PLC that reflects the present state of the pole and its attachments. The PLC demonstrates that the safety factor is well in line with the requirements of GO 95, Rule 44.2. Please see Exhibit 2.

FINDING 3:

ESRB staff observed during inspection that Pole 4207506E was a composite pole; however, the pole load calculation provided by Crown Castle Communication lists the pole species as Douglas Fir, thus, the pole load calculation are not accurate.

CROWN CASTLE'S RESPONSE:

Crown Castle respectfully disagrees with this finding. After investigation, Crown Castle has determined that, at the time it prepared the PLC provided in response to the pre-audit data request

(April 26, 2021), Pole 4207506E was a Douglas Fir. SCE presumably replaced the wood pole with a composite pole at some point between April 26, 2021 and the date of the field visit. On October 10, 2025, Crown Castle prepared a new PLC that reflects the present type of pole. The PLC demonstrates that the safety factor is well in line with the requirements of GO 95, Rule 44.2. Please see Exhibit 3.

CROWN CASTLE'S RESPONSES TO THE AUDIT REPORT'S FIELD INSPECTION FINDINGS

Location #	Structure ID	Location	Structure Type	Finding	Date of Remedial Action	Preventative Measure / Corrective Action
GO 95, Rule 31.1 Findings						
123	4207502E	Lake Elsinore	Pole	Incomplete pole transfer.	10/15/2025	Crown Castle resolved the issue by completing the pole transfer.
21	1623124E	Perris	Pole	The lashing wire of Crown Castle communications conductors attached to pole was loose.	10/04/2025	Crown Castle resolved the issue by securing the loose lashing wire.
9	2283889E	Menifee	Pole	The ground wire of Crown Castle communications attached to the pole was damaged.	10/03/2025	Crown Castle resolved the issue by repairing the damaged ground with a bug nut.
32	2610 Gibson Street	Riverside	Pole	Shoes were observed hanging on the Crown Castle communications conductor.	10/04/2025	Crown Castle resolved the issue by removing the shoes from the fiber-optic cable.

Location #	Structure ID	Location	Structure Type	Finding	Date of Remedial Action	Preventative Measure / Corrective Action
16	74653S	Perris	Pole	A Crown Castle communications conductor was in contact with a third-party wire strand.	10/04/2025	Crown Castle resolved the issue by detaching the third-party conductor from Crown Castle's conductor and re-attaching the conductor with a J-hook.
31	17786J	Riverside	Pole	A Crown Castle communications fiber enclosure was in contact with a third-party communications conductor.	10/04/2025	Crown Castle resolved the issue by securing the line to eliminate the contact.
GO 95, Rule 84.6-B Findings						
6	2283885E	Menifee	Pole	The ground moulding attached to the pole was damaged.	10/03/2025	Crown Castle resolved the issue by replacing the damaged wood moulding.
39	1822156E	Norco	Pole	The ground moulding attached to the pole was damaged.	10/08/2025	Crown Castle resolved the issue by replacing the damaged wood moulding.
GO 95, Rule 86.2 Finding						
2	4726113E	Menifee	Pole	Crown Castle communications down guy wire was loose and not taut.	10/04/2025	Crown Castle resolved the issue by securing the down guy wire and

Location #	Structure ID	Location	Structure Type	Finding	Date of Remedial Action	Preventative Measure / Corrective Action
						installing new high-strength wire rope.
GO 95, Rule 35 Finding						
89	4861429E	Moreno Valley	Pole	Crown Castle communications conductor was strained by vegetation.	10/21/2025	After investigation, Crown Castle determined that the fiber-optic cable is owned by Charter Communications. Crown Castle sent a third-party notice to Charter Communications.
GO 95, Rule 38 Findings						
8	2283888E	Menifee	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/04/2025	Crown Castle resolved the issue by replacing the pinch clamp.
10	2283891E	Menifee	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/04/2025	After investigation, Crown Castle determined that there was no contact between its conductor and the third-party conductor. The issue may have been

Location #	Structure ID	Location	Structure Type	Finding	Date of Remedial Action	Preventative Measure / Corrective Action
						resolved by the owner of the third-party cable.
20	4751070E	Perris	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/04/2025	Crown Castle resolved the issue by adjusting the "snowshoe" on the third-party's cable to achieve the proper separation between cables.
59	656486H	Norco	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/08/2025	Crown Castle resolved the issue by separating the cables.
87	4561924E	Moreno Valley	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/03/2025	Crown Castle resolved the issue by securing the third-party cable to achieve the proper separation between cables.
91	4169638E	Wildomar	Pole	Crown Castle communications conductor was in contact with a third-party communications conductor.	10/08/2025	Crown Castle resolved the issue by securing its fiber-optic cable to achieve the proper degree of separation between cables.

GO 95, Rule 84.4-D4a Finding						
105	4169624E	Wildomar	Pole	Crown Castle communications conductor was in contact with a streetlight pole.	10/15/2025	Crown Castle resolved the issue by installing a crossarm.
GO 95, Rule 38 Finding						
16	74653S	Perris	Pole	Crown Castle communications conductor was in contact with SCE down guy attached to the same pole.	10/04/2025	Crown Castle resolved the issue by detaching the conductor and re-attaching the conductor with a J-hook.
GO 95, Rule 84.7-A Findings						
62	1888196E	Jurupa Valley	Pole	The climbing space was obstructed by vegetation.	10/08/2025	Crown Castle investigated the facilities and found that there was no vegetation obstructing the climbing space. Another party may have performed vegetation management.
121	Pole located between pole 4207504E and 4207503E	Lake Elsinore	Pole	The climbing space was obstructed by vegetation.	10/08/2025	Crown Castle investigated the facilities and found that there was no vegetation obstructing the climbing space. Another

						party may have performed vegetation management.
GO 128, Rule 17.1 Findings						
133	Corner of Raley Dr & Riverwalk Pkwy	Riverside	Handhole	The handhole was filled with a large amount of dirt.	10/04/2025	Crown Castle resolved the issue by removing the dirt from inside the vault and securing the vault lid with bolts.
126	4100 Golden Ave	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
127	Side of 11306 Parkfield Street	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
128	Side of 11307 Trailstone Ct	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
129	Corner of Golden Ave & Collett Ave	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
130	Corner of Riverwalk Pkwy and	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.

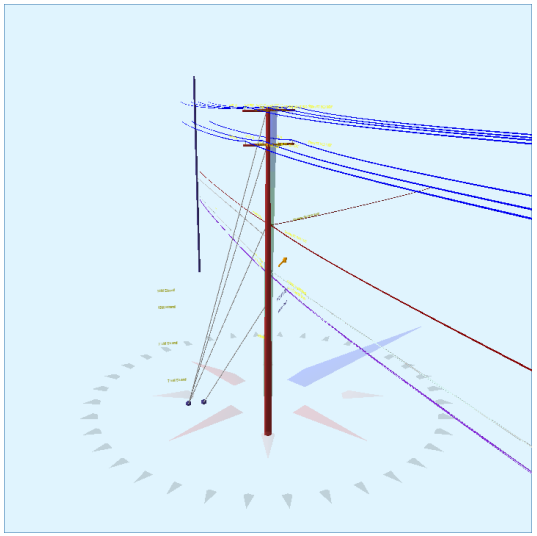
	Collett Ave (Sunesys)					
131	Corner of Riverwalk Pkwy and Collett Ave (Crown Castle)	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
132	Corner of Riverwalk Pkwy and Collett Ave (Freedom)	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
133	Corner of Raley Dr & Riverwalk Pkwy	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by removing the dirt from inside the vault and securing the vault lid with bolts.
134	Corner of Sierra Vista Way & Riverwalk Pkwy	Riverside	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.

135	Corner of Fullerton Ave & Magnolia Ave (Sunesys)	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/14/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
136	Corner of Fullerton Ave & Magnolia Ave (Wilcon)	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/14/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
137	Near 854 Magnolia Ave	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/07/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
138	Near 1820 Fullerton Ave (Wilcon)	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/07/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
139	Near 1820 Fullerton Ave (Sunesys)	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/07/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
140	Near 1906 Fullerton Ave	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/04/2025	Crown Castle resolved the issue by securing the vault lid with bolts.
141	Near 1980 Fullerton Ave	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/14/2025	Crown Castle resolved the issue by securing the vault lid with bolts.

142	Corner of Monarch Dr & Fullerton Ave	Corona	Handhole	The handhole cover was missing bolts (not properly secured).	10/07/2025	Crown Castle resolved the issue by securing the vault lid with bolts.

Exhibit 1

Pole Num:	**4207066E**	Pole Length / Class:	**65 / H1**	Code:	**GO 95**	Structure Type:	**Guyed Tangent**
Aux Data 1	**Unset**	Species:	**DOUGLAS FIR**	GO 95 Rule:	**At Replace (Existing)**	Pole Strength Factor:	**0.38**
Aux Data 2	**Unset**	Setting Depth (ft):	**8.5**	Construction Grade:	**A**	Transverse Wind LF:	**1.00**
Aux Data 3	**Unset**	G/L Circumference (in):	**57.00**	Loading District:	**Light**	Wire Tension LF:	**1.00**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.00**	Vertical LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**2,969**	Wind Speed (mph):	**55.90**	Pole Factor of Safety:	**16.21**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**8.00**	Vertical Factor of Safety:	**74.07**
Latitude:	**33.68026**	Longitude:	**-117.357791**	Elevation:	**0M**	Bending Factor of Safety:	**18.00**



Pole Capacity Utilization (%) Crossarm allowance 300 lbs		**Height (ft)**	**Wind Angle (deg)**
Maximum	**16.5**	34.7	330.0
Groundline	**13.2**	0.0	316.3
Vertical	**3.6**	38.9	59.2

Pole Moments (ft-lb) Crossarm allowance 300 lbs		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**7,154**	339.1	330.0
Groundline	**18,649**	331.2	316.3
GL Allowable	**145,094**		

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)**
Guy Pole	98.0	301.0		**0.0**	330.0	**0.7**	130.0
HS 9/32 (Span/Head)			32.5	**0.0**	330.0	**10.9**	130.0
Expanding - 12" 8-Way - Soil Class 4	16.0	213.0		**18.9**	330.0	**22.9**	30.0
10M Strand (Down)			55.5	**21.6**	330.0	**26.1**	30.0
10M Strand (Down)			49.0	**22.2**	330.0	**26.8**	30.0
7.5M Strand (Down)			34.5	**22.5**	330.0	**27.6**	30.0
Single - 12" - Soil Class 4	13.0	213.0		**2.7**	330.0	**3.5**	30.0
7.5M Strand (Down)			19.0	**9.1**	330.0	**11.5**	30.0
			System Capacity Summary:	**Adequate**		**Adequate**	

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 331.2°

	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	710	97.7	**24,981**	134.0	**17.2**	**791**	558	2	**793**	**26.7**
Comms	233	32.1	**3,867**	20.7	**2.7**	**123**	141	1	**123**	**4.1**
GuyBraces	-806	-110.9	**-21,597**	-115.8	**-14.9**	**-684**	4,759	18	**-666**	**-22.4**
Pole	515	70.9	**8,913**	47.8	**6.1**	**282**	3,586	14	**296**	**10.0**
Crossarms	63	8.7	**2,131**	11.4	**1.5**	**68**	98	0	**68**	**2.3**
Insulators	11	1.5	**354**	1.9	**0.2**	**11**	67	0	**11**	**0.4**
Pole Load	727	100.0	**18,649**	100.0	**12.9**	**591**	9,209	36	**626**	**21.1**
Pole Reserve Capacity			**126,445**		**87.1**	**2,379**			**2,343**	**78.9**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 331.2°

	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 (%)
SCE	614	84.5	**16,203**	86.9	**11.2**	**513**	8,605	33	**546**	**18.4**
CROWN CASTLE	115	15.8	**1,945**	10.4	**1.3**	**62**	42	0	**62**	**2.1**
TWC	-2	-0.3	**501**	2.7	**0.4**	**16**	562	2	**18**	**0.6**
Totals:	727	100.0	**18,649**	100.0	**12.9**	**591**	9,209	36	**626**	**21.1**

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)
Primary	336.4 ACSR	SCE	56.72	55.38	0.6840	2.81	0.365	150.0	113.0	150.1	758	-33,784	-89	722	-33,151
Primary	336.4 ACSR	SCE	56.72	55.38	0.6840	1.51	0.365	98.0	301.0	98.0	758	37,157	-58	309	37,408
Primary	336.4 ACSR	SCE	56.72	16.33	0.6840	2.81	0.365	150.0	113.0	150.1	758	-33,784	-33	722	-33,095
Primary	336.4 ACSR	SCE	56.72	16.33	0.6840	1.51	0.365	98.0	301.0	98.0	758	37,157	-21	309	37,445
Primary	336.4 ACSR	SCE	56.72	55.38	0.6840	2.81	0.365	150.0	113.0	150.1	758	-33,784	66	722	-32,996
Primary	336.4 ACSR	SCE	56.72	55.38	0.6840	1.51	0.365	98.0	301.0	98.0	758	37,157	43	309	37,509
Primary	4/0 ACSR	SCE	56.72	16.33	0.5630	2.81	0.291	150.0	113.0	150.1	591	-26,337	8	595	-25,734
Primary	4/0 ACSR	SCE	56.72	16.33	0.5630	1.50	0.291	98.0	301.0	98.0	591	28,965	5	255	29,225
Primary	653 ACSR	SCE	50.72	55.44	1.0000	2.81	0.858	150.0	113.0	150.1	1,757	-70,096	-212	945	-69,363
Primary	653 ACSR	SCE	50.72	55.44	1.0000	1.51	0.858	98.0	301.0	98.0	1,757	77,093	-138	404	77,359
Primary	653 ACSR	SCE	50.72	16.53	1.0000	2.81	0.858	150.0	113.0	150.1	1,757	-70,096	-79	945	-69,231
Primary	653 ACSR	SCE	50.72	16.53	1.0000	1.51	0.858	98.0	301.0	98.0	1,757	77,093	-52	404	77,446
Primary	653 ACSR	SCE	50.72	55.44	1.0000	2.81	0.858	150.0	113.0	150.1	1,757	-70,096	153	945	-68,998
Primary	653 ACSR	SCE	50.72	55.44	1.0000	1.51	0.858	98.0	301.0	98.0	1,757	77,093	100	404	77,598
Secondary	#6 Al Duplex	SCE	35.00	8.81	0.5370	1.53	0.071	98.0	301.0	98.0	253	7,642	2	150	7,794
Secondary	1/0 Al Triplex	SCE	35.00	8.81	1.0300	2.83	0.399	150.0	113.0	150.1	714	-19,625	19	671	-18,935
Secondary	#4 Al Triplex	SCE	35.00	8.81	0.6800	0.70	0.164	66.0	355.0	66.0	250	8,006	3	89	8,099
Other	0.75 Cable	CROWN CASTLE	26.00	9.52	0.7500		0.229	98.0	301.0	98.0			4	82	86
Other	0.75 Cable	CROWN CASTLE	26.00	9.52	0.7500		0.229	150.0	113.0	150.0			6	192	198
											Totals:	**29,760**	**-272**	**9,175**	**38,664**

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	CATV 1.75 w/6.6M Strand	TWC	25.00	9.60	0.3060	1.35	0.165	98.0	301.0	98.0	1,200	25,926	3	129	26,058
CATV	1.75 Cable	TWC	25.00	9.60	1.2500		0.868	98.0	301.0	98.0			16	129	145
Overlashed Bundle	CATV 1.75 w/6.6M Strand	TWC	25.00	9.60	0.3060	2.90	0.165	150.0	113.0	150.1	1,200	-23,573	5	300	-23,268
CATV	1.75 Cable	TWC	25.00	9.60	1.2500		0.868	150.0	113.0	150.1			25	300	325
Overlashed Bundle	EXISTING .75 w/6M Strand	CROWN CASTLE	26.00	9.52	0.3060	0.52	0.104	98.0	301.0	98.0	1,200	26,963	2	82	27,047
Overlashed Bundle	EXISTING .75 w/6M Strand	CROWN CASTLE	26.00	9.52	0.3060	1.17	0.104	150.0	113.0	150.0	1,200	-24,516	3	192	-24,322
											Totals:	**4,800**	**53**	**1,132**	**5,985**

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	10' Single Crossarm	SCE	56.00	6.47	113.0	113.0	49.00	4.63	3.63	120.00	-21	1,765	1,744

Normal	10' Single Crossarm	SCE	50.00	6.94	113.0	113.0	49.00	4.63	3.63	120.00	-22	1,576	1,553
										Totals:	**-43**	**3,340**	**3,297**

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)**
Pin	12 kV Pin- Front Arm	SCE	56.19	55.00	196.3	0.0	8.00	3.80	6.31	0	75	75
Pin	12 kV Pin- Front Arm	SCE	56.19	15.00	179.7	0.0	8.00	3.80	6.31	0	75	75
Pin	12 kV Pin- Front Arm	SCE	56.19	-55.00	29.7	0.0	8.00	3.80	6.31	0	75	75
Pin	12 kV Pin- Front Arm	SCE	56.19	-15.00	46.3	0.0	8.00	3.80	6.31	0	75	75
Pin	12 kV Pin- Front Arm	SCE	50.19	55.00	195.8	0.0	8.00	3.80	6.31	0	67	67
Pin	12 kV Pin- Front Arm	SCE	50.19	15.00	178.2	0.0	8.00	3.80	6.31	0	67	67
Pin	12 kV Pin- Front Arm	SCE	50.19	-55.00	30.2	0.0	8.00	3.80	6.31	0	67	67
Spool	Spool Insulator	SCE	35.00	0.00	0.0	0.0	8.99	3.00	8.00	0	47	47
Bolt	Communication Three Bolt Clamp	TWC	25.00	0.00	33.0	303.0	1.00	3.00	0.10	0	0	0
Bolt	Communication Three Bolt Clamp	CROWN CASTLE	26.00	0.00	33.0	303.0	1.00	3.00	0.10	0	0	0
									Totals:	**0**	**548**	**548**

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)**
HS 9/32	Span/Head	SCE	32.50	32.50	98.00	0.281	75.00	301.0	0.0	0.164	87.83	0.00
10M Strand	Down	SCE	55.50	0.00	16.00	0.306	75.00	213.0	73.6	0.165	55.88	0.86
10M Strand	Down	SCE	49.00	0.00	16.00	0.306	75.00	213.0	71.6	0.165	49.57	0.78
7.5M Strand	Down	SCE	34.50	0.00	16.00	0.272	75.00	213.0	64.8	0.131	35.70	0.54
7.5M Strand	Down	TWC	19.00	0.00	13.00	0.272	75.00	213.0	55.4	0.131	29.65	0.18

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)**	**Proportional Moment at GL[3] (ft-lb)**
HS 9/32	Span/Head	2.30e+7	6,400	0.75	4,800	700	523	523	0	0	0	0	65
10M Strand	Down	2.30e+7	10,000	0.75	7,500	700	1,955	1,955	1,623	1,556	459	-217	-7,274
10M Strand	Down	2.30e+7	10,000	0.75	7,500	700	2,007	2,007	1,662	1,576	525	-248	-7,392
7.5M Strand	Down	2.30e+7	7,500	0.75	5,625	700	1,550	1,550	1,265	1,145	538	-254	-5,391
7.5M Strand	Down	2.30e+7	7,500	0.75	5,625	700	647	647	514	423	292	-138	-1,605
									Totals:	**4,700**	**1,814**	**-858**	**-21,597**

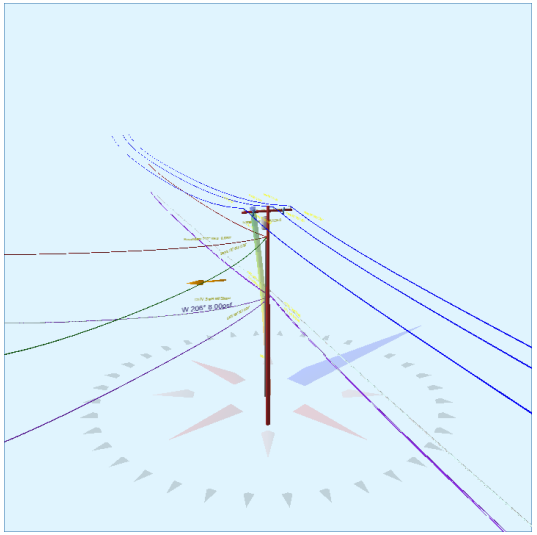
Anchor/Rod Load Summary	Owner	Rod Length AGL (in)	Lead Length (ft)	Lead Angle (deg)	Strength of Assembly (lbs)	Anchor/Rod Strength Factor	Allowable Load (lbs)	Max Load[2] (lbs)	Load at Pole MCU[3] (lbs)	Max Required Capacity[2] (%)
Guy Pole	SCE	120.00	98.00	301.0	100,000	0.75	75,000	523	0	0.7
Expanding - 12" 8-Way - Soil Class 4	SCE	120.00	16.00	213.0	32,000	0.75	24,000	5,500	4,540	22.9
Single - 12" - Soil Class 4	TWC	6.00	13.00	213.0	25,000	0.75	18,750	647	514	3.5

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	38.94	35.08	15.99	7.88	9.24	18.15	2.38e+6	60.00	57.00	56.50	258,417	**2558.05**	**27.78**

Exhibit 2

Pole Num:	**1667852E**	Pole Length / Class:	**45 / 4**	Code:	**GO 95**	Structure Type:	**Unguyed Tangent**
Aux Data 1	**Unset**	Species:	**DOUGLAS FIR**	GO 95 Rule:	**At Replace (Existing)**	Pole Strength Factor:	**0.38**
Aux Data 2	**Unset**	Setting Depth (ft):	**6.5**	Construction Grade:	**A**	Transverse Wind LF:	**1.00**
Aux Data 3	**Unset**	G/L Circumference (in):	**35.00**	Loading District:	**Light**	Wire Tension LF:	**1.00**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**8,000**	Ice Thickness (in):	**0.00**	Vertical LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**2,867**	Wind Speed (mph):	**55.90**	Pole Factor of Safety:	**2.92**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**8.00**	Vertical Factor of Safety:	**13.27**
Latitude:	**33.683054**	Longitude:	**-117.363378**	Elevation:	**0M**	Bending Factor of Safety:	**2.95**



Pole Capacity Utilization (%) Crossarm allowance 300 lbs		**Height (ft)**	**Wind Angle (deg)**
Maximum	91.3	0.0	206.3
Groundline	91.3	0.0	206.3
Vertical	20.1	26.6	206.3

Pole Moments (ft-lb) Crossarm allowance 300 lbs		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**29,346**	214.7	206.3
Groundline	**29,346**	214.7	206.3
GL Allowable	**32,439**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 214.7°

	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	475	43.9	**16,451**	56.1	**50.7**	**1,464**	302	3	**1,467**	**51.2**
Comms	311	28.7	**6,386**	21.8	**19.7**	**568**	176	2	**570**	**19.9**
GenericEquipments	8	0.7	**291**	1.0	**0.9**	**26**	40	0	**26**	**0.9**
PowerEquipments	28	2.6	**1,077**	3.7	**3.3**	**96**	492	5	**101**	**3.5**
Pole	226	20.9	**4,330**	14.8	**13.4**	**385**	1,022	10	**396**	**13.8**
Crossarms	2	0.1	**60**	0.2	**0.2**	**5**	49	1	**6**	**0.2**
Risers	27	2.5	**558**	1.9	**1.7**	**50**	73	1	**50**	**1.8**
Insulators	5	0.5	**193**	0.7	**0.6**	**17**	45	0	**18**	**0.6**
Pole Load	1,082	100.0	**29,346**	100.0	**90.5**	**2,612**	2,198	23	**2,634**	**91.9**
Pole Reserve Capacity			**3,093**		**9.5**	**256**			**233**	**8.1**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 214.7°

	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 (%)
SCE	722	66.7	**21,969**	74.9	**67.7**	**1,955**	1,971	20	**1,975**	**68.9**
CROWN CASTLE	91	8.4	**1,939**	6.6	**6.0**	**173**	59	1	**173**	**6.0**
TWC	266	24.6	**5,411**	18.4	**16.7**	**482**	159	2	**483**	**16.8**
UNKNOWN	4	0.3	**28**	0.1	**0.1**	**3**	9	0	**3**	**0.1**
Totals:	1,082	100.0	**29,346**	100.0	**90.5**	**2,612**	2,198	23	**2,634**	**91.9**

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	336.4 ACSR	SCE	38.22	55.25	0.6840	6.22	0.365	242.0	296.0	242.4	557	3,226	-197	2,086	5,115
Primary	336.4 ACSR	SCE	38.22	55.25	0.6840	4.41	0.365	198.0	116.0	198.2	557	-3,226	-161	1,707	-1,681
Primary	336.4 ACSR	SCE	38.22	15.88	0.6840	6.22	0.365	242.0	296.0	242.4	557	3,226	-52	2,086	5,261
Primary	336.4 ACSR	SCE	38.22	15.88	0.6840	4.41	0.365	198.0	116.0	198.2	557	-3,226	-42	1,707	-1,562
Primary	336.4 ACSR	SCE	38.22	55.25	0.6840	6.22	0.365	242.0	296.0	242.4	557	3,226	203	2,086	5,515
Primary	336.4 ACSR	SCE	38.22	55.25	0.6840	4.41	0.365	198.0	116.0	198.2	557	-3,226	166	1,707	-1,354
Secondary	#6 Al Duplex	SCE	32.50	6.19	0.5370	2.79	0.071	149.0	296.0	149.1	130	641	0	857	1,498
Secondary	#4 Al Triplex	SCE	32.50	6.19	0.6800	0.73	0.164	69.0	217.0	69.2	50	1,624	0	4	1,628
Service	#2 Al Triplex Service	SCE	32.50	6.19	0.7600	4.33	0.290	69.0	166.0	69.9	42	896	1	276	1,173

Other	0.75 Cable	CROWN CASTLE	21.92	6.80	0.7500	0.229	149.0	296.0	149.0			-10	426	416
Other	0.75 Cable	CROWN CASTLE	21.92	6.80	0.7500	0.229	198.0	116.0	198.0			-13	566	553
											Totals:	**3,160**	**-104**	**13,506**	**16,562**

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	CATV 1.5 w/6.6M Strand	TWC	20.83	6.86	0.3060	2.38	0.165	149.0	296.0	149.1	1,200	3,788	-7	792	4,573
CATV	1.5 Cable	TWC	20.83	6.86	1.5000		0.654	149.0	296.0	149.1			-28	792	765
Overlashed Bundle	CATV .5 w/6.6M Strand	TWC	20.83	6.86	0.2420	0.18	0.104	69.0	217.0	69.6	50	1,041	-2	1	1,040
CATV	0.5 Cable	TWC	20.83	6.86	0.5000		0.174	69.0	217.0	69.6			-3	1	-2
Overlashed Bundle	CATV 1.5 w/6.6M Strand	TWC	20.83	6.86	0.3060	3.97	0.165	198.0	116.0	198.2	1,200	-3,788	-9	1,053	-2,745
CATV	1.5 Cable	TWC	20.83	6.86	1.5000		0.654	198.0	116.0	198.2			-37	1,053	1,016
CATV	0.5 Cable	TWC	20.83	6.86	0.5000	0.19	0.174	69.0	166.0	69.2	50	687	-3	116	800
Overlashed Bundle	EXISTING .75 w/6M Strand	CROWN CASTLE	21.92	6.80	0.3060	1.15	0.104	149.0	296.0	149.0	1,200	3,986	-4	426	4,408
Overlashed Bundle	EXISTING .75 w/6M Strand	CROWN CASTLE	21.92	6.80	0.3060	1.94	0.104	198.0	116.0	198.0	1,200	-3,986	-6	566	-3,426
											Totals:	**1,728**	**-99**	**4,800**	**6,429**

GenericEquipment		**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	Cutout	SCE	37.44	36.63	116.0	0.0	20.00	18.00	--	4.00	--	-61	148	88
Cylinder	Cutout	SCE	37.44	35.07	116.0	0.0	20.00	18.00	--	4.00	--	57	148	205
											Totals:	**-4**	**297**	**293**

PowerEquipment		**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)**
Transformer	37KVA	SCE	35.00	18.54	296.0	296.0	492.00	28.00	--	18.00	--	115	970	1,085
											Totals:	**115**	**970**	**1,085**

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	10' Single Crossarm	SCE	37.50	5.21	296.0	296.0	49.00	4.63	3.63	120.00	3	57	60
										Totals:	**3**	**57**	**60**

Riser		**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)**
3" Riser 225.0° H:32.0	3" Riser	SCE	32.00	5.72	225.0	225.0	64.00	384.00	3.50	3.50	384.00	29	505	534

2" Riser 220.0° H:10.0	2" Riser	UNKNOWN	10.00	5.72	220.0	220.0	9.00	120.00	2.30	2.30	120.00	4	24	28
											Totals:	**33**	**528**	**562**

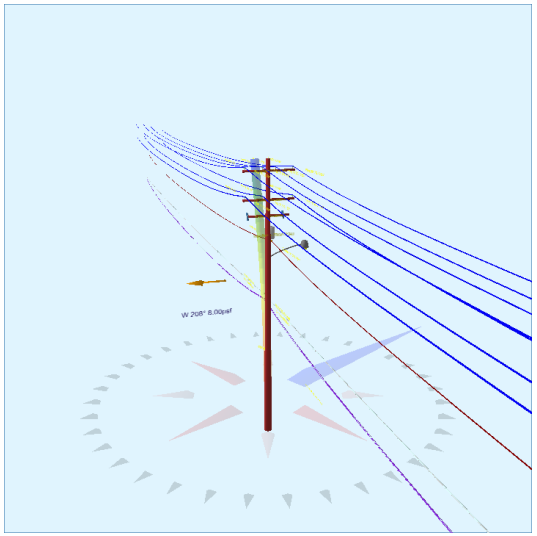
Insulator		**Owner**	**Height (ft)**	**Horiz. Offset (in)**	**Offset Angle (deg)**	**Rotate Angle (deg)**	**Unit Weight (lbs)**	**Unit Diameter (in)**	**Unit Length (in)**	**Offset Moment* (ft-lb)**	**Wind Moment* (ft-lb)**	**Moment at GL* (ft-lb)**
Pin	12 kV Pin- Front Arm	SCE	37.69	55.00	20.6	0.0	8.00	3.80	6.31	0	50	50
Pin	12 kV Pin- Front Arm	SCE	37.69	15.00	6.8	0.0	8.00	3.80	6.31	0	50	50
Pin	12 kV Pin- Front Arm	SCE	37.69	-55.00	211.4	0.0	8.00	3.80	6.31	0	50	50
Bolt	Single Bolt	SCE	37.69	36.56	17.9	180.0	5.00	3.00	0.10	0	1	1
Bolt	Single Bolt	SCE	37.69	-35.00	214.5	180.0	5.00	3.00	0.10	0	1	1
Spool	Spool Insulator	SCE	32.50	0.00	296.0	296.0	8.99	3.00	8.00	0	43	43
Bolt	Communication Three Bolt Clamp	TWC	20.83	0.00	26.0	296.0	1.00	3.00	0.10	0	0	0
Bolt	Communication Three Bolt Clamp	CROWN CASTLE	21.92	0.00	26.0	296.0	1.00	3.00	0.10	0	0	0
									Totals:	**0**	**194**	**194**

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**
2.00	26.57	34.14	10.09	7.52	6.69	11.15	2.38e+6	60.00	57.00	38.50	10,612	**109.35**	**4.98**

Exhibit 3

Pole Num:	**4207506E**	Pole Length / Class:	**55 / H3**	Code:	**GO 95**	Structure Type:	**Unguyed Tangent**
Aux Data 1	**Unset**	Species:	**Fiberglass**	GO 95 Rule:	**At Replace (Existing)**	Pole Strength Factor:	**0.38**
Aux Data 2	**Unset**	Setting Depth (ft):	**7.5**	Construction Grade:	**A**	Transverse Wind LF:	**1.00**
Aux Data 3	**Unset**	G/L Circumference (in):	**54.00**	Loading District:	**Light**	Wire Tension LF:	**1.00**
Aux Data 4	**Unset**	G/L Fiber Stress (psi):	**4,113**	Ice Thickness (in):	**0.00**	Vertical LF:	**1.00**
Aux Data 5	**Unset**	Allowable Stress (psi):	**1,506**	Wind Speed (mph):	**55.90**	Pole Factor of Safety:	**3.04**
Aux Data 6	**Unset**	Fiber Stress Ht. Reduc:	**No**	Wind Pressure (psf):	**8.00**	Vertical Factor of Safety:	**11.96**
Latitude:	**33.68198**	Longitude:	**-117.36088**	Elevation:	**0M**	Bending Factor of Safety:	**3.06**



Pole Capacity Utilization (%) **Crossarm allowance 300 lbs**		**Height (ft)**	**Wind Angle (deg)**
Maximum	**87.8**	0.0	207.7
Groundline	**87.8**	0.0	207.7
Vertical	**22.3**	33.5	207.7

Pole Moments (ft-lb) **Crossarm allowance 300 lbs**		**Load Angle (deg)**	**Wind Angle (deg)**
Max Cap Util	**54,530**	206.9	207.7
Groundline	**54,530**	206.9	207.7
GL Allowable	**62,583**		

Groundline Load Summary - Reporting Angle Mode: Load - Reporting Angle: 206.9°

	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	905	55.2	**37,238**	68.3	**59.5**	**896**	884	4	**899**	**59.7**
Comms	228	13.9	**4,959**	9.1	**7.9**	**119**	231	1	**120**	**8.0**
GenericEquipments	8	0.5	**318**	0.6	**0.5**	**8**	40	0	**8**	**0.5**
PowerEquipments	25	1.5	**847**	1.6	**1.4**	**20**	349	2	**22**	**1.5**
Pole	430	26.2	**10,001**	18.3	**16.0**	**241**	664	3	**243**	**16.2**
Crossarms	4	0.3	**181**	0.3	**0.3**	**4**	134	1	**5**	**0.3**
Streetlights	29	1.7	**537**	1.0	**0.9**	**13**	60	0	**13**	**0.9**
Insulators	11	0.7	**449**	0.8	**0.7**	**11**	77	0	**11**	**0.7**
Pole Load	1,640	100.0	**54,530**	100.0	**87.1**	**1,311**	2,438	11	**1,322**	**87.8**
Pole Reserve Capacity			**8,053**		**12.9**	**195**			**184**	**12.2**

Load Summary by Owner - Reporting Angle Mode: Load - Reporting Angle: 206.9°

	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 (%)
SCE	1,358	82.8	**48,373**	88.7	**77.3**	**1,163**	2,159	9	**1,173**	**77.8**
CROWN CASTLE	107	6.5	**2,377**	4.4	**3.8**	**57**	69	0	**57**	**3.8**
TWC	175	10.7	**3,781**	6.9	**6.0**	**91**	211	1	**92**	**6.1**
Totals:	1,640	100.0	**54,530**	100.0	**87.1**	**1,311**	2,438	11	**1,322**	**87.8**

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	336.4 ACSR	SCE	46.05	55.44	0.6840	4.95	0.365	212.0	118.0	212.3	567	521	178	2,227	2,925
Primary	336.4 ACSR	SCE	46.05	55.44	0.6840	4.26	0.365	194.0	298.0	194.2	567	-521	163	2,038	1,679
Primary	336.4 ACSR	SCE	46.05	16.54	0.6840	4.95	0.365	212.0	118.0	212.3	567	521	49	2,227	2,796
Primary	336.4 ACSR	SCE	46.05	16.54	0.6840	4.26	0.365	194.0	298.0	194.2	567	-521	45	2,038	1,562
Primary	336.4 ACSR	SCE	46.05	55.44	0.6840	4.95	0.365	212.0	118.0	212.3	567	521	-177	2,227	2,571
Primary	336.4 ACSR	SCE	46.05	55.44	0.6840	4.26	0.365	194.0	298.0	194.2	567	-521	-162	2,038	1,355
Primary	4/0 ACSR	SCE	46.05	16.54	0.5630	4.94	0.291	212.0	118.0	212.3	452	415	-38	1,833	2,209
Primary	4/0 ACSR	SCE	46.05	16.54	0.5630	4.26	0.291	194.0	298.0	194.2	452	-415	-35	1,677	1,227
Primary	653 ACSR	SCE	40.72	55.49	1.0000	4.95	0.858	212.0	118.0	212.3	1,331	1,081	418	2,880	4,379
Primary	653 ACSR	SCE	40.72	55.49	1.0000	4.26	0.858	194.0	298.0	194.2	1,331	-1,081	382	2,635	1,937
Primary	653 ACSR	SCE	40.72	16.71	1.0000	4.95	0.858	212.0	118.0	212.3	1,331	1,081	115	2,880	4,075

Primary	653 ACSR	SCE	40.72	16.71	1.0000	4.26	0.858	194.0	298.0	194.2	1,331	-1,081	105	2,635	1,659
Primary	653 ACSR	SCE	40.72	55.49	1.0000	4.95	0.858	212.0	118.0	212.3	1,331	1,081	-416	2,880	3,545
Primary	653 ACSR	SCE	40.72	55.49	1.0000	4.26	0.858	194.0	298.0	194.2	1,331	-1,081	-380	2,635	1,174
Other	0.75 Cable	CROWN CASTLE	21.67	9.45	0.7500		0.229	212.0	118.0	212.0			19	606	625
Other	0.75 Cable	CROWN CASTLE	21.67	9.45	0.7500		0.229	194.0	298.0	194.0			18	555	572
Secondary	#4 Al Triplex	SCE	32.00	8.66	0.6800	4.27	0.164	194.0	298.0	194.2	261	-166	-11	1,407	1,229
Secondary	#4 Al Triplex	SCE	32.00	8.66	0.6800	4.96	0.164	212.0	118.0	212.3	254	162	-13	1,537	1,687
											Totals:	**-4**	**259**	**36,953**	**37,207**

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	EXISTING .75 w/6M Strand	CROWN CASTLE	21.67	9.45	0.3060	2.20	0.104	212.0	118.0	212.0	1,200	518	9	606	1,133
Overlashed Bundle	EXISTING .75 w/6M Strand	CROWN CASTLE	21.67	9.45	0.3060	1.87	0.104	194.0	298.0	194.0	1,200	-518	8	555	44
Overlashed Bundle	CATV 1.75 w/6.6M Strand	TWC	20.67	9.52	0.3060	5.44	0.165	212.0	118.0	212.4	1,200	494	14	943	1,451
CATV	1.75 Cable	TWC	20.67	9.52	1.2500		0.868	212.0	118.0	212.4			73	943	1,016
Overlashed Bundle	CATV 1.75 w/6.6M Strand	TWC	20.67	9.52	0.3060	4.62	0.165	194.0	298.0	194.3	1,200	-494	13	863	381
CATV	1.75 Cable	TWC	20.67	9.52	1.2500		0.868	194.0	298.0	194.3			67	863	930
											Totals:	**0**	**183**	**4,772**	**4,955**

GenericEquipment		**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	Cutout	SCE	36.94	48.00	298.0	0.0	20.00	18.00	--	4.00	--	80	148	228
Cylinder	Cutout	SCE	36.94	35.00	298.0	0.0	20.00	18.00	--	4.00	--	-58	148	90
											Totals:	**22**	**296**	**318**

PowerEquipment		**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)**
Transformer	25KVA	SCE	34.00	20.51	118.0	118.0	349.00	26.00	--	17.00	--	12	835	847
											Totals:	**12**	**835**	**847**

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	10' Single Crossarm	SCE	45.33	6.96	118.0	118.0	49.00	4.63	3.63	120.00	1	68	68
Normal	10' Single Crossarm	SCE	40.00	7.37	118.0	118.0	49.00	4.63	3.63	120.00	1	60	60
Normal	8' Single Crossarm	SCE	37.00	7.53	118.0	118.0	36.00	4.50	3.50	96.00	0	52	52
										Totals:	**2**	**179**	**181**

Streetlight		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)
General	Streetlight - 6 ft. Arm	SCE	29.00	6.39	28.0	28.0	60.00	24.00	20.00	3.00	72.00	-295	831	537
											Totals:	**-295**	**831**	**537**

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)
Pin	12 kV Pin- Front Arm	SCE	45.52	55.00	200.8	0.0	8.00	3.80	6.31	0	61	61
Pin	12 kV Pin- Front Arm	SCE	45.52	15.00	183.1	0.0	8.00	3.80	6.31	0	61	61
Pin	12 kV Pin- Front Arm	SCE	45.52	-55.00	35.2	0.0	8.00	3.80	6.31	0	61	61
Pin	12 kV Pin- Front Arm	SCE	45.52	-15.00	52.9	0.0	8.00	3.80	6.31	0	61	61
Pin	12 kV Pin- Front Arm	SCE	40.19	55.00	200.4	0.0	8.00	3.80	6.31	0	54	54
Pin	12 kV Pin- Front Arm	SCE	40.19	15.00	181.8	0.0	8.00	3.80	6.31	0	54	54
Pin	12 kV Pin- Front Arm	SCE	40.19	-55.00	35.6	0.0	8.00	3.80	6.31	0	54	54
Bolt	Single Bolt	SCE	37.19	48.00	199.1	180.0	5.00	3.00	0.10	0	1	1
Bolt	Single Bolt	SCE	37.19	-35.00	40.1	180.0	5.00	3.00	0.10	0	1	1
Bolt	Communication Three Bolt Clamp	CROWN CASTLE	21.67	0.00	208.0	118.0	1.00	3.00	0.10	0	0	0
Bolt	Communication Three Bolt Clamp	TWC	20.67	0.00	208.0	118.0	1.00	3.00	0.10	0	0	0
Spool	Spool Insulator	SCE	32.00	0.00	28.0	28.0	8.99	3.00	8.00	0	43	43
									Totals:	**0**	**449**	**449**

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
2.00	33.54	34.45	15.43	11.90	9.98	17.20	693,084	13.58	57.00	47.50	10,613	**109.35**	**4.48**