

# SOUTHERN CALIFORNIA EDISON COMPANY

## Transmission/Distribution ISO Facilities Study

12-31-2015 Facilities

TO 11 Draft Annual Update

Attachment 4

WP-Schedule 7-Plant Study

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### Transmission

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
<b>Land (Substation and Line)</b>				
350	\$328,430,727	\$328,430,728	\$241,049,135	73.39%
<b>Substation</b>				
352	686,827,403	686,827,404	470,458,376	68.50%
353	5,247,711,806	5,247,711,804	3,030,177,247	57.74%
<b>Total Substation</b>	5,934,539,209	5,934,539,208	3,500,635,623	58.99%
<b>Lines</b>				
354	2,259,972,825	2,259,972,826	2,164,622,763	95.78%
355	1,008,567,359	1,008,567,361	310,678,566	30.80%
356	1,482,107,625	1,482,107,624	1,239,646,181	83.64%
357	61,087,062	61,087,061	221,416	0.36%
358	268,612,323	268,612,322	13,011,928	4.84%
359	194,018,041	194,018,040	187,087,541	96.43%
<b>Total Lines</b>	5,274,365,234	5,274,365,234	3,915,268,395	74.23%
<b>Total Transmission</b>	<b>\$11,537,335,170</b>	<b>\$11,537,335,169</b>	<b>\$7,656,953,152</b>	<b>66.37%</b>

### Distribution

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
<b>Land:</b>				
360	\$115,272,068	\$115,272,065	-	0.00%
<b>Structures:</b>				
361	576,705,979	576,705,979	-	0.00%
362	2,244,270,529	2,244,270,529	-	0.00%
<b>Total Structures</b>	2,820,976,508	2,820,976,508	-	0.00%
<b>Total Distribution</b>	<b>\$2,936,248,576</b>	<b>\$2,936,248,573</b>	<b>-</b>	<b>0.00%</b>
<b>Total Transmission &amp; Distribution</b>	<b>\$14,473,583,746</b>	<b>\$14,473,583,742</b>	<b>\$7,656,953,152</b>	<b>52.90%</b>

# Southern California Edison Company

Summary of ISO Facility Gross Plant  
High/Low Voltage Split  
12-31-2015 Facilities  
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Total ISO Plant

				Gross ISO Plant Split into High Voltage, Low Voltage, and Transformers that Straddle HV/LV				
ISO Transmission and Distribut	Total ISO Gross Plant	Land	Structures	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV
<b>Transmission Lines:</b>								
1000 kV T Lines	58,034,932	-	58,034,932	-	-	58,034,932	-	-
500 kV T Lines	2,219,320,061	113,479,151	2,105,840,909	113,479,151	-	2,105,840,909	-	-
230 kV T Lines	1,755,120,081	83,181,566	1,671,938,515	83,181,566	-	1,671,938,515	-	-
161 kV T Lines	2,410,423	33,310	2,377,113	-	33,310	-	2,377,113	-
115 kV T Lines	73,303,107	4,839,733	68,463,374	-	4,839,733	-	68,463,374	-
66 kV T Lines	5,911,698	222,055	5,689,644	-	222,055	-	5,689,644	-
55 kV T Lines	3,020,803	96,896	2,923,907	-	96,896	-	2,923,907	-
<b>Total Transmission Lines</b>	<b>4,117,121,105</b>	<b>201,852,710</b>	<b>3,915,268,395</b>	<b>196,660,717</b>	<b>5,191,993</b>	<b>3,835,814,357</b>	<b>79,454,038</b>	-
<b>Substations:</b>								
High Voltage Substations (750 kV, 500kV, 220kV)	3,098,199,772	38,855,597	3,059,344,175	38,855,597	-	3,059,344,175	-	-
<b>Straddle Substations:</b>								
Antelope	209,117,093	21,983	209,095,110	19,215	2,768	174,086,459	25,077,755	9,930,896
Bailey	21,898,421	110,168	21,788,253	90,889	19,279	13,621,248	2,889,328	5,277,676
Eagle Mountain	1,538,016	-	1,538,016	-	-	1,395,426	140,560	2,031
Kramer	25,675,234	36,295	25,638,939	23,396	12,898	9,371,827	8,044,967	8,222,145
Ivanpah	45,026,491	-	45,026,491	-	-	17,319,458	11,979,987	15,727,046
Victor	92,650,771	19,123	92,631,647	1,573	17,550	6,034,786	67,334,393	19,262,469
<b>Total Straddle Substations</b>	<b>395,906,026</b>	<b>187,569</b>	<b>395,718,457</b>	<b>135,073</b>	<b>52,496</b>	<b>221,829,204</b>	<b>115,466,990</b>	<b>58,422,263</b>
Low Voltage Substations (Less Than 220kV)	45,726,249	153,259	45,572,989.95	-	153,259	-	45,572,990	-
<b>Total Substations</b>	<b>3,539,832,047</b>	<b>39,196,424</b>	<b>3,500,635,623</b>	<b>38,990,670</b>	<b>205,755</b>	<b>3,281,173,380</b>	<b>161,039,980</b>	<b>58,422,263</b>
<b>Total Lines and Substations</b>	<b>7,656,953,152</b>	<b>241,049,135</b>	<b>7,415,904,018</b>	<b>235,651,387</b>	<b>5,397,748</b>	<b>7,116,987,736</b>	<b>240,494,018</b>	<b>58,422,263</b>
Plant Total by Account	7,656,953,152	241,049,135	7,415,904,018					

Determination of High Voltage/Low Voltage Gross Plant Percentage of SCE ISO Transmission Facilities  
Gross Plant Percentage Determined Pursuant to ISO Tariff Section 12

Gross Plant that can be determined HV/LV	High Voltage	Low Voltage	Total
Land	235,651,387	5,397,748	241,049,135
Structures	7,116,987,736	240,494,018	7,357,481,754
Total Determined HV/LV	7,352,639,123	245,891,766	7,598,530,889
Percentage:	96.76%	3.24%	100.00%
Transformers	56,531,693	1,890,570	58,422,263
<b>Total HV &amp; LV Gross Plant</b>	<b>7,409,170,816</b>	<b>247,782,336</b>	<b>7,656,953,152</b>

Southern California Edison Company  
Summary of ISO Facility Gross Plant  
High/Low Voltage Mix Summary  
12-31-2015 Facilities  
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Facility:	Location #	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV
<b>220 kV Substations</b>						
Antelope	5052	19,215	2,768	174,086,459	25,077,755	9,930,896
Bailey	5059	90,889	19,279	13,621,248	2,889,328	5,277,676
Eagle Mountain	5040	-	-	1,395,426	140,560	2,031
Ivanpah	8363	-	-	17,319,458	11,979,987	15,727,046
Kramer	5042 & 8046	23,396	12,898	9,371,827	8,044,967	8,222,145
Victor	8049	1,573	17,550	6,034,786	67,334,393	19,262,469
<b>Total Straddle Stations</b>		135,073	52,496	221,829,204	115,466,990	58,422,263

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2015 Year-End				2014 Year-End			Delta		
Transmission									
	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total
<b>Land (Substation and Line)</b>									
350	328,430,728	241,049,135	73.4%	320,113,712	234,181,201	73.2%	8,317,016	6,867,933	0.2%
<b>Substation</b>									
352	686,827,404	470,458,376	68.5%	628,958,105	428,326,101	68.1%	57,869,299	42,132,275	0.4%
353	5,247,711,804	3,030,177,247	57.7%	4,996,027,822	2,920,111,450	58.4%	251,683,983	110,065,797	#####
<b>Total Substation</b>	5,934,539,208	3,500,635,623	59.0%	5,624,985,926	3,348,437,551	59.5%	309,553,282	152,198,072	#####
<b>Lines</b>									
354	\$2,259,972,826	2,164,622,763	95.8%	1,883,502,324	1,785,929,479	94.8%	376,470,502	378,693,284	1.0%
355	1,008,567,361	310,678,566	30.8%	838,670,098	230,528,301	27.5%	169,897,263	80,150,266	3.3%
356	1,482,107,624	1,239,646,181	83.6%	1,275,427,829	1,044,386,521	81.9%	206,679,795	195,259,660	1.8%
357	61,087,061	221,416	0.4%	56,304,667	217,201	0.4%	4,782,394	4,216	0.0%
358	268,612,322	13,011,928	4.8%	248,470,085	12,994,314	5.2%	20,142,237	17,615	#####
359	194,018,040	187,087,541	96.4%	86,695,550	79,700,254	91.9%	107,322,490	107,387,287	4.5%
<b>Total Lines</b>	\$5,274,365,234	\$3,915,268,395	74.2%	4,389,070,553	3,153,756,069	71.9%	885,294,681	761,512,326	2.4%
<b>Total Transmission</b>	<b>11,537,335,169</b>	<b>7,656,953,152</b>	<b>66.4%</b>	<b>10,334,170,191</b>	<b>6,736,374,821</b>	<b>65.2%</b>	<b>1,203,164,979</b>	<b>920,578,331</b>	<b>1.2%</b>
Distribution									
	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total
<b>Land:</b>									
360	115,272,065	-	0.0%	107,597,918	-	0.0%	7,674,147	-	0.0%
<b>Structures:</b>									
361	576,705,979	-	0.0%	523,812,732	-	0.0%	52,893,247	-	0.0%
362	2,244,270,529	-	0.0%	2,063,610,309	-	0.0%	180,660,220	-	0.0%
<b>Total Structures</b>	2,820,976,508	-	0.0%	2,587,423,041	-	0.0%	233,553,467	-	0.0%
<b>Total Distribution</b>	<b>2,936,248,573</b>	<b>-</b>	<b>0.0%</b>	<b>2,695,020,959</b>	<b>-</b>	<b>0.0%</b>	<b>241,227,614</b>	<b>-</b>	<b>0.0%</b>
<b>Total Transmission &amp; Distribution</b>	<b>14,473,583,742</b>	<b>7,656,953,152</b>	<b>52.9%</b>	<b>13,029,191,150</b>	<b>6,736,374,821</b>	<b>51.7%</b>	<b>1,444,392,593</b>	<b>920,578,331</b>	<b>1.2%</b>

## ISO Study Assumptions

The following assumptions have been made in completing this analysis.

### 1. Devers-Mirage System

Beginning in the 2009 CPUC GRC and the 2009 FERC rate case, the Devers-Mirage system split was assumed to be completed and all 115kV facilities transferred from ISO to non-ISO. This assumption was consistent with the plant forecast that was utilized in the cases. The physical work is complete and CAISO relinquished operational control of the Devers-Mirage 115kV system effective June 1, 2013. The facilities assumed transferred control for purposes of the Transmission Plant Study include: 220/115kV transformation at Devers and Mirage Substations, the 115kV buses at Devers and Mirage Substation, Farrell, Garnet, Eisenhower, Thornhill, Tamarisk, Santa Rosa, Indian Wells, Concho 115kV substations, and all 115kV lines interconnecting these substations that were under ISO Operational Control.

### 2. East Kern Wind Resource Area and Future Project (Antelope-Bailey System)

The 2012 Transmission Plant Study maintained the ability to adjust for the Antelope-Bailey 66kV System split as part of the EKWRA project by maintaining the EKWRA Reconfiguration Option in the Study. The EKWRA project was forecast for 2014, therefore it was assumed in the development of the Transmission Plant Study for the 2015 CPUC GRC to be completed. CAISO relinquished operational control of the Antelope-Bailey 66kV system effective December 15, 2013, but the EKWRA project's physical work was completed in early 2015. As a result of the EKWRA project the existing Antelope-Bailey will be split into three radial 66kV systems -- one radiating from Bailey, one radiating from Antelope, and a third radiating from a new 500/220/66kV Windhub substation. Post EKWRA, the Bailey-Neenach and Neenach-Antelope 66kV lines will still remain operated in parallel with the CAISO controlled 230kV lines connecting Bailey and Antelope Substations. The following substations and interconnecting 66kV lines were impacted by the EKWRA project:

Substations affected EKWRA include:

2313 Kern River 1	2313	Shift from Mixed to Non-ISO
5079 Wind Hub	5079	Shift from ISO to Mixed
5357 Cummings	5357	Shift from Mixed to Non-ISO
5358 Monolith	5358	Shift from Mixed to Non-ISO
5365 Acton	5365	Shift from Mixed to Non-ISO
5508 Del Sur	5508	Shift from Mixed to Non-ISO
5511 Goldtown	5511	Shift from Mixed to Non-ISO
5512 Gorman	5512	Shift from Mixed to Non-ISO
5514 Lancaster	5514	Shift from Mixed to Non-ISO
5518 Little Rock	5518	Shift from Mixed to Non-ISO
5522 Shuttle	5522	Shift from Mixed to Non-ISO
5530 Redman	5530	Shift from Mixed to Non-ISO
5539 Anaverde	5539	Shift from Mixed to Non-ISO
5541 Rosamond	5541	Shift from Mixed to Non-ISO
5545 Piute	5545	Shift from Mixed to Non-ISO
5547 Corum	5547	Shift from Mixed to Non-ISO
5548 Oasis	5548	Shift from Mixed to Non-ISO
5553 Cal Cement	5553	Shift from Mixed to Non-ISO
5564 Palmdale	5564	Shift from Mixed to Non-ISO
5566 Quartz Hill	5566	Shift from Mixed to Non-ISO
5599 Helijet	5599	Shift from Mixed to Non-ISO
8504 Ritter Ranch	8504	Shift from Mixed to Non-ISO

For purpose of the 2012 Plant Study, the study assumed that EKWRA facilities were under ISO Operational Control during 2012. This study no longer maintains the ISO to Non-ISO reconfiguration option for EKWRA.

### 3. Current FERC methodology for transformer bank circuit breakers

Pursuant to the Commission's ruling in the Whitewater case (Docket No. ER02-2189), FERC's current methodology classifies all circuit breakers that connect both ISO controlled operating buses as FERC jurisdiction (either in double breaker or breaker and half scheme). SCE has not implemented this methodology for those circuit breakers classified in the original 1998 split of the transmission system into ISO and non-ISO. This study reflects the current single-line diagram classification and the ISO register.

### 4. Classification of Distribution Plant

In the 2011 Transmission Plant Study, a more thorough review of ISO distribution plant was instituted. At all substations, unless specific distribution voltage facilities could be identified as ISO controlled, no allocation of distribution plant was made. An exception to this general rule is those substation locations where ISO facilities are clearly identifiable by review of the single line diagrams and ISO register, however only distribution plant is recorded at the location. In these cases, distribution plant will be assigned or allocated consistent with the methodology for determining substation investment.

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2015 Facilities

**TRANSMISSION SUBSTATION FACILITIES**

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353 TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment		A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment	A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment
BIG CREEK NO.4	2236	220kV	-	-	4,829,336	4,829,336	-	-	4,829,336	-	-	-
INYO	2570	115kV	-	287,755	4,204,593	4,492,348	-	287,755	4,204,593	-	-	-
METRO GOM MAINT	5001	500kV	-	-	49,086,699	49,086,699	-	-	49,086,699	-	-	-
HARBORGEN SUB	5019	220kV	-	18,729	3,964,504	3,983,233	-	18,729	3,964,504	-	-	-
EL SEGUNDO SWITCHCRACK SUB	5026	220kV	12,470	7,552	1,159,364	1,179,386	12,470	7,552	1,159,364	-	-	-
MIDWAY SUB	5032	500kV	-	3,616	190,211	193,827	-	3,616	190,211	-	-	-
PASTORIA SUB	5036	220kV	21,435	1,099,836	11,167,497	12,288,768	21,435	1,099,836	11,167,497	-	-	-
CLWTR SWITCHCRACKS 1,2	5044	115kV	-	-	1,476,690	1,476,690	-	-	1,476,690	-	-	-
MOHAVE SWITCHCRACK	5045	500kV	-	3,092,946	7,655,389	10,748,334	-	3,092,946	7,655,389	-	-	-
RANCHO VISTA SUB	5047	500kV	1,844,367	22,511,206	154,002,745	178,358,319	1,844,367	22,511,206	154,002,745	-	-	-
SYLMAR SUB	5058	1000kV	-	19,757	1,787,622	1,807,379	-	19,757	1,787,622	-	-	-
LUGO SUB	5061	500kV	90,983	8,484,220	130,071,909	138,647,112	90,983	8,484,220	130,071,909	-	-	-
PISGAH SUB	5065	220kV	-	98,533	3,969,865	4,068,398	-	98,533	3,969,865	-	-	-
GENE SUB	5066	220kV	-	30,050	2,165,679	2,195,729	-	30,050	2,165,679	-	-	-
WINDHUB SUB	5079	220kV	1,231,926	30,028,205	216,102,994	247,363,124	1,066,136	25,958,295	187,072,915	165,790	4,069,909	29,030,079
SERRANO SUB	5080	500kV	1,226,475	20,039,224	164,972,709	186,238,408	1,226,475	20,039,224	164,972,709	-	-	-
LEWIS SUB	5089	220kV	-	1,444	3,434,718	3,436,773	-	1,444	3,434,718	-	-	-
EL DORADO SUB(NEVADA)	5090	500kV	13,183	28,775,274	148,927,346	177,715,802	13,183	28,775,274	148,927,346	-	-	-
MEAD SUB	5091	500kV	-	-	12,306	12,306	-	-	12,306	-	-	-
MOENKOPI SUB	5092	500kV	-	-	1,516,885	1,516,885	-	-	1,516,885	-	-	-
WEST SERIES CAPACITORS	5093	500kV	-	2,118,236	45,491,191	47,609,427	-	2,118,236	45,491,191	-	-	-
EAST SERIES CAPACITORS 1	5094	500kV	-	857,212	8,215,857	9,073,069	-	857,212	8,215,857	-	-	-
PALO VERDE SWITCHCRACK SUB	5097	500kV	-	47,541	4,971,888	5,019,429	-	47,541	4,971,888	-	-	-
MIDWAY-PAC INTERTIE	8932	500kV	-	162,585	13,930,693	14,093,278	-	162,585	13,930,693	-	-	-
PARDEE-PAC INTERTIE	8950	220kV	-	55,269	942,130	997,399	-	55,269	942,130	-	-	-
SYLMAR-PAC INTERTIE	8958	1000kV	51,663	7,731,153	119,394,198	127,177,014	51,663	7,731,153	119,394,198	-	-	-
RP&AS,LDN&ESMNT REQUIS	9219	Div Offices & Misc	8,631,747	45,883	-	8,677,630	8,631,747	45,883	-	-	-	-
EDISON ITAC	1451	Misc	-	-	35,855	35,855	-	-	-	-	-	35,855
PALO VERDE NUCL GEN PLT-U1	1860	500kV	-	-	2,542,931	2,542,931	-	-	-	-	-	2,542,931
PALO VERDE-UNIT 2	1864	500kV	-	-	2,488,614	2,488,614	-	-	-	-	-	2,488,614
PALO VERDE-UNIT 3	1866	500kV	-	-	3,783,320	3,783,320	-	-	-	-	-	3,783,320
PALO VERDE-COMMON 1,2,3	1867	500kV	7,766	-	2,668,495	2,676,261	-	-	-	7,766	-	2,668,495
MAMMOTH POOL LAKE-FP 2085	2150	220kV	-	-	24,016	24,016	-	-	-	-	-	24,016
BIG CREEK CANYON	2202	33kV & Below	-	-	1,641,022	1,641,022	-	-	-	-	-	1,641,022
PORTAL POWER PLANT	2237	33kV & Below	-	-	68,246	68,246	-	-	-	-	-	68,246
MAMMOTH POOL	2238	220kV	-	-	2,840,762	2,840,762	-	-	-	-	-	2,840,762
EASTWOOD POWER STATION	2239	220kV	-	627,754	4,940,311	5,568,065	-	-	-	-	627,754	4,940,311
HYDRO PRODUCTION	2300	Misc	-	-	10,367	10,367	-	-	-	-	-	10,367
SNTA ANA RV&MILL CRK CNYN	2301	33kV & Below	-	-	421,924	421,924	-	-	-	-	-	421,924
LYTLE CRK&SN ANTONIO CNYN	2303	33kV & Below	-	-	140,226	140,226	-	-	-	-	-	140,226
KERN RIVER CANYON	2305	66kV	-	-	692,140	692,140	-	-	-	-	-	692,140
KAWEAH RIVER CANYON	2307	66kV	-	-	572,929	572,929	-	-	-	-	-	572,929
SAN GORGONIO CANYON	2309	33kV & Below	-	-	193,975	193,975	-	-	-	-	-	193,975
BOREL	2314	66kV	-	1,383	259,591	260,974	-	-	-	-	1,383	259,591
SANTA ANA NO.1	2315	33kV & Below	-	-	36,406	36,406	-	-	-	-	-	36,406
SANTA ANA NO.3	2317	33kV & Below	-	-	14,930	14,930	-	-	-	-	-	14,930
MILL CREEK NO.1	2318	33kV & Below	1,464	-	7,316	8,780	-	-	-	1,464	-	7,316
MILL CREEK NO.2&3	2319	33kV & Below	-	-	52,080	52,080	-	-	-	-	-	52,080
KAWEAH NO.1	2324	66kV	-	-	48,507	48,507	-	-	-	-	-	48,507
KAWEAH NO.2	2325	66kV	-	2,694	49,126	51,820	-	-	-	-	2,694	49,126
KAWEAH NO.3	2326	66kV	-	-	57,269	57,269	-	-	-	-	-	57,269
LOWER TULE RIVER	2327	66kV	-	-	50,834	50,834	-	-	-	-	-	50,834
KERN RIVER NO.3	2328	66kV	-	-	462,406	462,406	-	-	-	-	-	462,406
ONTARIO NO.1	2331	66kV	-	-	205,914	205,914	-	-	-	-	-	205,914
EASTERN HYDRO REGION	2500	55kV	-	7,254	-	7,254	-	-	-	-	7,254	-
BISHOP CREEK CANYON	2501	Misc	-	-	697,220	697,220	-	-	-	-	-	697,220
MONO BASIN	2503	115kV	-	-	196,344	196,344	-	-	-	-	-	196,344
Lundy	2560 & 2510	55kV	-	317,627	5,816,896	6,134,523	-	-	-	-	317,627	5,816,896
POOLE	2512	115kV	-	-	120,052	120,052	-	-	-	-	-	120,052
RUSH CREEK	2514	115kV	-	-	175,912	175,912	-	-	-	-	-	175,912
BISHOP CREEK NO.2	2522	55kV	-	-	60,797	60,797	-	-	-	-	-	60,797
BISHOP CREEK NO.3	2523	55kV	-	-	1,841,377	1,841,377	-	-	-	-	-	1,841,377
BISHOP CREEK NO.4	2524	55kV	-	-	117,271	117,271	-	-	-	-	-	117,271
BISHOP CREEK NO.5	2525	55kV	-	-	69,769	69,769	-	-	-	-	-	69,769
BISHOP CREEK NO.6	2526	55kV	-	-	65,066	65,066	-	-	-	-	-	65,066
FISH LAKE VALLEY METERING	2553	55kV	-	1,343	13,493	13,493	-	-	-	-	1,343	12,150
CASA DIABLO	2557	115kV	2,119	290,687	3,537,186	3,829,992	-	-	-	2,119	290,687	3,537,186
LEE VINING	2561	115kV	344	261,722	2,091,192	2,353,258	-	-	-	344	261,722	2,091,192
SHERWIN	2571	115kV	-	100,772	1,046,645	1,147,416	-	-	-	-	100,772	1,046,645
ZACK	2582	55kV	5,433	-	629,851	635,284	-	-	-	5,433	-	629,851
MT. TOM	2598	55kV	-	-	(230)	(230)	-	-	-	-	-	(230)
DAF INDAL 500KW WND TURBN	3717	33kV & Below	714	-	-	714	-	-	-	714	-	-
LEBEC SUBSTATION	5016	220kV	-	-	15,138	15,138	-	-	-	-	-	15,138
ARCOGEN SUB	5022	220kV	-	-	963,824	963,824	-	-	-	-	-	963,824
CLWTR SWITCHCRACK 3,4 SUB	5046	220kV	48,136	156,227	3,179,929	3,384,292	-	-	-	48,136	156,227	3,179,929
ORMOND BCH SWITCHCRACK SUB	5049	220kV	158,170	34,483	5,225,825	5,418,477	-	-	-	158,170	34,483	5,225,825
SAUGUS SUB	5051	66kV	13,373	1,564,971	37,537,080	39,115,424	-	-	-	13,373	1,564,971	37,537,080
CAMINO SUB	5068	220kV	-	12,697	3,993,261	4,005,957	-	-	-	-	12,697	3,993,261
VELASCO SUB	5072	220kV	-	-	155,442	155,442	-	-	-	-	-	155,442
HUNTINGTON BCH SWITCHCRACK	5078	220kV	21,660	70,925	4,628,872	4,721,458	-	-	-	21,660	70,925	4,628,872

**SOUTHERN CALIFORNIA EDISON COMPANY**

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**TRANSMISSION SUBSTATION FACILITIES**

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353 TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment		A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment	A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment
TRITON SUB	5095	115kV	2,415,092	2,369,447	26,475,973	31,260,513	-	-	-	2,415,092	2,369,447	26,475,973
ALHAMBRA SUB	5101	66kV	-	83,447	3,061,167	3,144,615	-	-	-	-	83,447	3,061,167
BANDINI SUB	5107	66kV	4,583	-	-	4,583	-	-	-	4,583	-	-
BICKNELL SUB	5109	33kV & Below	-	-	2,451	2,451	-	-	-	-	-	2,451
THUMSGEN SUBSTATION	5112	66kV	-	-	2,049	2,049	-	-	-	-	-	2,049
RUSH SUB	5116	66kV	-	-	6,165	6,165	-	-	-	-	-	6,165
MONROVIA SUB	5134	33kV & Below	-	-	17,332	17,332	-	-	-	-	-	17,332
ROSEMead SUB	5141	66kV	-	-	22	22	-	-	-	-	-	22
DUARTE SUB	5150	33kV & Below	-	-	18,514	18,514	-	-	-	-	-	18,514
JOSE SUB	5152	66kV	-	56,769	3,887	60,656	-	-	-	-	56,769	3,887
ARROYO SUB	5158	66kV	-	-	123	123	-	-	-	-	-	123
AMADOR SUB	5161	66kV	-	-	(47,687)	(47,687)	-	-	-	-	-	(47,687)
FAIR OAKS SUB	5162	33kV & Below	-	-	17,195	17,195	-	-	-	-	-	17,195
JPL SUB	5165	66kV	-	-	3,666	3,666	-	-	-	-	-	3,666
MAYFLOWER SUB	5167	33kV & Below	-	-	91,972	91,972	-	-	-	-	-	91,972
TEMPLE SUB	5170	33kV & Below	-	-	17,367	17,367	-	-	-	-	-	17,367
KIMBALL SUBSTATION	5176	66kV	-	-	22,032	22,032	-	-	-	-	-	22,032
KIRK WALL SUBSTATION	5178	66kV	3,995	-	-	3,995	-	-	-	3,995	-	-
RAVENDALE SUB	5179	66kV	-	11,112	-	11,112	-	-	-	-	11,112	-
CITRUS SUB	5185	66kV	-	-	37,984	37,984	-	-	-	-	-	37,984
CORTEZ SUB	5186	66kV	-	-	31,589	31,589	-	-	-	-	-	31,589
RAILROAD SUB	5196	66kV	-	-	4,078	4,078	-	-	-	-	-	4,078
ALHAMBRA DIST SUB TRG FAC	5198	66kV	-	25,705	2,046,562	2,072,267	-	-	-	-	25,705	2,046,562
SEPULVEDA SUB	5207	66kV	-	41,604	-	41,604	-	-	-	-	41,604	-
HOWARD SUB	5210	66kV	-	-	17,431	17,431	-	-	-	-	-	17,431
INGLEWOOD SUB	5211	66kV	-	14,955	-	14,955	-	-	-	-	14,955	-
LENNOX SUB	5213	66kV	-	25,054	17,794	42,848	-	-	-	-	25,054	17,794
PEARL SUB	5224	33kV & Below	-	14,955	-	14,955	-	-	-	-	14,955	-
WINDSOR HILLS SUB	5235	66kV	-	-	1,820,273	1,820,273	-	-	-	-	-	1,820,273
LAWND ALE SUB	5238	33kV & Below	-	25,201	-	25,201	-	-	-	-	25,201	-
YUKON SUB	5241	66kV	4,415	-	-	4,415	-	-	-	4,415	-	-
SAWTELLE SUB	5250	66kV	-	25,891	-	25,891	-	-	-	-	25,891	-
BRIDGE SUB	5257	66kV	-	14,957	-	14,957	-	-	-	-	14,957	-
STIRRUP SUB	5259	33kV & Below	-	14,955	-	14,955	-	-	-	-	14,955	-
STANHILL SUB	5273	66kV	-	-	0	0	-	-	-	-	-	0
HAVILAH SUB	5311	66kV	-	-	6,563	6,563	-	-	-	-	-	6,563
LAUREL SUB	5315	66kV	-	-	10,321,503	10,321,503	-	-	-	-	-	10,321,503
STRATHMORE SUB	5325	66kV	-	-	8,744	8,744	-	-	-	-	-	8,744
WOODVILLE SUB	5333	66kV	-	-	74,641	74,641	-	-	-	-	-	74,641
LINE CREEK SUB	5352	33kV & Below	-	-	35,819	35,819	-	-	-	-	-	35,819
KERNVILLE SUB	5356	66kV	-	-	26,153	26,153	-	-	-	-	-	26,153
RIVERWAY SUB	5374	66kV	801,825	-	-	801,825	-	-	-	801,825	-	-
MASCOT SUBSTATION	5375	66kV	573,588	-	-	573,588	-	-	-	573,588	-	-
CASITAS SUB	5504	66kV	-	-	(251)	(251)	-	-	-	-	-	(251)
CHANNEL ISLANDS SUB	5506	66kV	-	116,483	-	116,483	-	-	-	-	116,483	-
ORTEGA SUB	5507	66kV	-	-	25,904	25,904	-	-	-	-	-	25,904
FILLMORE SUB	5510	66kV	-	5,566	-	5,566	-	-	-	-	5,566	-
OJAI SUB	5526	66kV	-	13,050	-	13,050	-	-	-	-	13,050	-
VENTURA SUB	5538	33kV & Below	-	31,321	-	31,321	-	-	-	-	31,321	-
ELIZABETH LAKE SUB	5546	66kV	-	-	3,072	3,072	-	-	-	-	-	3,072
CORUM SUB	5547	66kV	-	-	380,255	380,255	-	-	-	-	-	380,255
NEWBURY SUB	5557	66kV	-	-	692,110	692,110	-	-	-	-	-	692,110
GRISWOLD SUB	5562	33kV & Below	-	-	2,070	2,070	-	-	-	-	-	2,070
PLAYA SUB	5565	33kV & Below	-	37,628	-	37,628	-	-	-	-	37,628	-
GAVIOTA SUB	5572	66kV	-	-	118,097	118,097	-	-	-	-	-	118,097
RANDALL SUB	5601	66kV	-	20,403	56,150	76,552	-	-	-	-	20,403	56,150
TIMOTEO SUB	5604	66kV	-	1,760	-	1,760	-	-	-	-	1,760	-
ORANGE PRODUCTS SUB	5606	66kV	-	13,596	-	13,596	-	-	-	-	13,596	-
INLAND CONTAINER SUB	5612	66kV	-	20,750	-	20,750	-	-	-	-	20,750	-
DECLZ SUB	5615	66kV	-	-	23,032	23,032	-	-	-	-	-	23,032
SAN ANTONIO SUB	5631	66kV	-	-	7,606	7,606	-	-	-	-	-	7,606
COLTON CEMENT SUB	5646	66kV	-	20,599	-	20,599	-	-	-	-	20,599	-
AMERON SUB	5652	66kV	-	-	531,131	531,131	-	-	-	-	-	531,131
NOGALES SUB	5655	66kV	-	-	525,170	525,170	-	-	-	-	-	525,170
ARCHIBALD SUB	5659	66kV	-	-	1,613	1,613	-	-	-	-	-	1,613
WIMBLEDON SUB	5664	66kV	-	-	17,343	17,343	-	-	-	-	-	17,343
DEL ROSA SUB	5670	66kV	-	-	17,327	17,327	-	-	-	-	-	17,327
WHIPPLE SUB	5674	66kV	-	8,714	-	8,714	-	-	-	-	8,714	-
LANDING SUB	5678	66kV	-	14,661	-	14,661	-	-	-	-	14,661	-
ATHENS SUBSTATION	5727	33kV & Below	-	-	16,863	16,863	-	-	-	-	-	16,863
NAPLES SUBSTATION	5740	33kV & Below	-	-	114,340	114,340	-	-	-	-	-	114,340
WATSON SUBSTATION	5758	66kV	-	-	3,790	3,790	-	-	-	-	-	3,790
HEDDA SUB	5784	33kV & Below	-	-	5,598	5,598	-	-	-	-	-	5,598
SOUTH GATE SUBSTATION	5787	33kV & Below	-	-	17,255	17,255	-	-	-	-	-	17,255
BOVINE SUBSTATION	5788	66kV	-	-	17,101	17,101	-	-	-	-	-	17,101
MOVIE SUBSTATION	5798	66kV	-	-	17,658	17,658	-	-	-	-	-	17,658
VERA SUBSTATION	5801	66kV	-	-	104,130	104,130	-	-	-	-	-	104,130
CHICQUITA SUBSTATION	5811	66kV	-	-	58,207	58,207	-	-	-	-	-	58,207
CARMENITA SUBSTATION	5814	66kV	-	-	146,427	146,427	-	-	-	-	-	146,427
PARKWOOD SUBSTATION	5816	66kV	-	93,280	-	93,280	-	-	-	-	93,280	-
WAVE SUBSTATION	5828	66kV	-	-	17,259	17,259	-	-	-	-	-	17,259

**SOUTHERN CALIFORNIA EDISON COMPANY**

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**TRANSMISSION SUBSTATION FACILITIES**

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353 TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment		A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment	A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment
LA HABRA SUBSTATION	5832	66kV	-	-	17,125	17,125	-	-	-	-	-	17,125
OCEANVIEW SUBSTATION	5842	66kV	-	-	58,101	58,101	-	-	-	-	-	58,101
ORANGE SUBSTATION	5843	66kV	-	422,681	-	422,681	-	-	-	-	422,681	-
SANTA ANA SUBSTATION	5849	33kV & Below	-	6,882	-	6,882	-	-	-	-	6,882	-
TALBERT SUB	5853	66kV	-	-	1,526	1,526	-	-	-	-	-	1,526
ALTON SUBSTATION	5860	66kV	241,262	-	-	241,262	-	-	-	241,262	-	-
SULLIVAN SUBSTATION	5862	66kV	-	-	14,802	14,802	-	-	-	-	-	14,802
ESTRELLA SUBSTATION	5865	66kV	-	-	41,148	41,148	-	-	-	-	-	41,148
SHAWNEE SUBSTATION	5869	66kV	-	-	17,289	17,289	-	-	-	-	-	17,289
LA PALMA SUBSTATION	5873	66kV	-	-	304,027	304,027	-	-	-	-	-	304,027
TUSTIN SUBSTATION	5878	66kV	11,308	-	-	11,308	-	-	-	11,308	-	-
BORREGO SUBSTATION	5887	66kV	-	-	248,896	248,896	-	-	-	-	-	248,896
TELEGRAPH SUB	5892	66kV	-	12,346	96,987	109,334	-	-	-	-	12,346	96,987
NIGUEL SUBSTATION	5896	66kV	-	-	21,384	21,384	-	-	-	-	-	21,384
LAS LOMAS SUB	5902	66kV	4,664,177	-	-	4,664,177	-	-	-	4,664,177	-	-
ORANGE COUNTY REGION	6002	33kV & Below	-	-	9,358	9,358	-	-	-	-	-	9,358
IMPERIAL COUNTY	7013	115kV	-	-	1,702	1,702	-	-	-	-	-	1,702
ROADWAY(CEP)	8000	115kV	110,643	530,696	9,835,972	10,477,311	24,273	116,427	2,157,862	86,369	414,270	7,678,110
PAUBA(CEP) SUB	8003	115kV	106,825	757,631	8,351,603	9,216,059	-	-	-	106,825	757,631	8,351,603
THORNHILL(CEP) SUB	8004	115kV	25,609	976,480	7,949,936	8,952,024	-	-	-	25,609	976,480	7,949,936
STADLER(CEP) SUB	8005	115kV	139,611	786,164	11,176,227	12,102,002	-	-	-	139,611	786,164	11,176,227
PAN AERO (CEP) SUB	8009	115kV	-	-	641,041	641,041	-	-	-	-	-	641,041
PHELAN(CEP) SUB	8010	115kV	154,446	755,301	5,724,365	6,634,111	-	-	-	154,446	755,301	5,724,365
BANWIND SUBSTATION	8011	115kV	-	-	8,940	8,940	-	-	-	-	-	8,940
APPLE VALLEY(CEP) SUB	8013	115kV	-	480,534	8,796,574	9,277,108	-	-	-	-	480,534	8,796,574
BUNKER(CEP) SUB	8014	115kV	969,397	1,313,709	14,214,181	16,497,286	-	-	-	969,397	1,313,709	14,214,181
FARREL(CEP) SUB	8016	115kV	-	606,817	11,141,034	11,747,850	-	-	-	-	606,817	11,141,034
CONCHO(CEP) SUB	8017	115kV	285,201	672,863	8,108,439	9,066,503	-	-	-	285,201	672,863	8,108,439
AULD(CEP) SUB	8018	33kV & Below	83,538	1,160,979	16,736,060	17,980,577	-	-	-	83,538	1,160,979	16,736,060
MAXWELL(CEP) SUB	8019	115kV	33,940	466,213	8,625,862	9,126,015	-	-	-	33,940	466,213	8,625,862
SAVAGE(CEP) SUB	8020	115kV	29,280	705,696	14,757,943	15,492,919	-	-	-	29,280	705,696	14,757,943
PEPPER(CEP) SUB	8021	115kV	17,579	425,103	8,050,687	8,493,369	-	-	-	17,579	425,103	8,050,687
YUCCA(CEP) SUB	8022	66kV	19,474	282,743	2,585,546	2,887,763	-	-	-	19,474	282,743	2,585,546
BLACK MOUNTAIN(CEP) SUB	8023	115kV	-	12,014	912,016	912,016	-	-	-	-	12,014	912,016
ALESSANDRO(CEP) SUB	8024	115kV	45,514	798,484	21,868,315	22,712,313	-	-	-	45,514	798,484	21,868,315
BAKER(CEP) SUB	8025	115kV	-	106,299	2,923,006	3,029,305	-	-	-	-	106,299	2,923,006
BANNING(CEP) SUB	8026	115kV	20,210	1,557,931	16,029,217	17,607,357	-	-	-	20,210	1,557,931	16,029,217
COTTONWOOD(CEP) SUB	8027	115kV	22,426	1,783,729	11,242,030	13,048,185	-	-	-	22,426	1,783,729	11,242,030
EDWARDS(CEP) SUB	8028	115kV	-	37,679	2,829,467	2,867,146	-	-	-	-	37,679	2,829,467
HI DESERT(CEP) SUB	8029	115kV	1,154,541	1,278,543	18,884,236	21,317,320	-	-	-	1,154,541	1,278,543	18,884,236
MOUNTAIN PASS(CEP) SUB	8030	115kV	70,286	15,922	4,666,352	4,752,561	-	-	-	70,286	15,922	4,666,352
RANDSBURG(CEP) SUB	8031	115kV	116	257,138	5,170,025	5,427,279	-	-	-	116	257,138	5,170,025
ROCKET TEST(CEP) SUB	8032	115kV	-	18,045	279,329	297,374	-	-	-	-	18,045	279,329
SEARLES(CEP) SUB	8033	115kV	-	50,564	2,909,044	2,959,608	-	-	-	-	50,564	2,909,044
ZANJA(CEP) SUB	8035	115kV	152,559	1,558,690	5,153,756	6,865,005	-	-	-	152,559	1,558,690	5,153,756
SANTA ROSA(CEP) SUB	8036	33kV & Below	44,689	355,051	14,462,299	14,862,039	-	-	-	44,689	355,051	14,462,299
NELSON(CEP) SUB	8038	115kV	22,819	712,915	13,853,470	14,589,205	-	-	-	22,819	712,915	13,853,470
HOMART(CEP) SUB	8039	115kV	174,875	389,821	5,388,524	5,953,219	-	-	-	174,875	389,821	5,388,524
HOLGATE(CEP) SUB	8041	115kV	27,167	347,967	2,973,102	3,348,235	-	-	-	27,167	347,967	2,973,102
CALECTRIC SUB (CEP)	8042	115kV	27,870	2,329,595	25,385,842	27,743,306	-	-	-	27,870	2,329,595	25,385,842
GARNET SUB	8044	115kV	38,081	1,535,632	13,541,739	15,115,452	-	-	-	38,081	1,535,632	13,541,739
IID TIE SUB	8045	115kV	39,144	-	23,873	63,017	-	-	-	39,144	-	23,873
TIEFORT SUB	8047	115kV	-	218,704	1,435,532	1,654,236	-	-	-	-	218,704	1,435,532
USBR BLYTHE SUB	8048	161kV	-	64,707	7,786,051	7,850,758	-	-	-	-	64,707	7,786,051
PUREWATER SUB	8059	115kV	-	105,704	1,218,367	1,324,071	-	-	-	-	105,704	1,218,367
WHIRLWIND SUB	8060	500kV	-	35,544,765	149,198,512	184,743,277	-	35,544,765	149,198,512	-	-	-
SEAWIND T/S	8061	115kV	2,976	463	272,654	276,093	-	-	-	2,976	463	272,654
TIFFANYWIND SUB	8064	115kV	-	-	30,176	30,176	-	-	-	-	-	30,176
NUSED GALE	8067	115kV	-	-	9,758	9,758	-	-	-	-	-	9,758
CARODEAN	8072	115kV	-	2,025,293	10,033,767	12,059,060	-	-	-	-	2,025,293	10,033,767
IVYGLEN SUB	8073	115kV	166,697	1,049,253	8,169,611	9,385,561	-	-	-	166,697	1,049,253	8,169,611
COOL WATER SWITCHCRACK 1,2	8074	115kV	-	69,954	2,543,263	2,613,217	-	-	-	-	69,954	2,543,263
HIGHGROVE SWITCHCRCK	8075	115kV	7,139	178,624	1,782,984	1,968,747	-	-	-	7,139	178,624	1,782,984
SUN CITY(NEW)	8078	115kV	119,513	1,887,934	7,875,363	9,882,809	-	-	-	119,513	1,887,934	7,875,363
AQUEDUCT SUB	8079	115kV	2,880	939,201	9,204,343	10,146,424	-	-	-	2,880	939,201	9,204,343
MENTONE SUB	8082	115kV	161,883	811,211	5,922,789	6,895,884	-	-	-	161,883	811,211	5,922,789
HIGHWIND SUB	8084	220kV	-	6,736,900	4,074,897	10,811,797	-	6,736,900	4,074,897	-	-	-
CAJALCO SUB	8086	115kV	25,836	244,940	9,767,417	10,038,193	-	-	-	25,836	244,940	9,767,417
HESPERIA SUB	8087	115kV	22,150	299,789	4,557,298	4,879,238	-	-	-	22,150	299,789	4,557,298
SKYLARK SUB	8088	115kV	81,206	313,715	9,655,213	10,050,135	-	-	-	81,206	313,715	9,655,213
MAYBERRY SUB	8089	115kV	23,090	358,861	12,716,452	13,098,402	-	-	-	23,090	358,861	12,716,452
PERMANENTE SUB	8090	115kV	-	-	87,113	87,113	-	-	-	-	-	87,113
ELCENTRO TELEMTERING	8091	161kV	-	-	15,844	15,844	-	-	-	-	-	15,844
NILAND TELEMETERING	8092	161kV	-	-	6,807	6,807	-	-	-	-	-	6,807
SHANDIN SUB	8093	115kV	42,272	457,108	8,943,247	9,442,627	-	-	-	42,272	457,108	8,943,247
ARROWHEAD SUB	8094	115kV	-	297,351	5,032,085	5,329,436	-	-	-	-	297,351	5,032,085
STETSON SUB	8095	115kV	23,493	718,412	7,830,826	8,572,730	-	-	-	23,493	718,412	7,830,826
MARSHINO SUB	8096	115kV	27,809	1,576,175	9,202,942	10,806,927	-	-	-	27,809	1,576,175	9,202,942
DUNN SIDING SUB	8097	115kV	4,913	3,673	793,061	801,647	-	-	-	-	4,913	793,061
EISENHOWER SUB	8098	115kV	189,886	750,018	12,213,180	13,153,084	-	-	-	189,886	750,018	12,213,180
TAMARISK SUB	8099	115kV	125,967	379,583	11,987,727	12,493,277	-	-	-	125,967	379,583	11,987,727



**SOUTHERN CALIFORNIA EDISON COMPANY**  
12-31-2015 Facilities  
TRANSMISSION SUBSTATION FACILITIES

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353  TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment		A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment	A/C 350 Land & Land Rights	A/C 352 Structures & Improvements	A/C 353 Station Equipment
AMARGO SUB	8102	33kV & Below	-	-	20,739	20,739	-	-	-	-	-	20,739
BARSTOW SUB	8110	33kV & Below	-	6,894	59,447	66,341	-	-	-	-	6,894	59,447
BLYTHE SUB	8113	33kV & Below	-	10,726	423,685	434,411	-	-	-	-	10,726	423,685
BRYMAN SUB	8117	33kV & Below	-	-	6,703	6,703	-	-	-	-	-	6,703
MILITARY SUB	8120	33kV & Below	-	15,598	-	15,598	-	-	-	-	15,598	-
CAL CITY SUB	8132	33kV & Below	-	6,894	40,101	46,995	-	-	-	-	6,894	40,101
DOWNS SUB	8137	33kV & Below	-	6,894	-	6,894	-	-	-	-	6,894	-
GLEN IVY SUB	8152	33kV & Below	-	15,642	35,758	51,400	-	-	-	-	15,642	35,758
HELENDALE SUB	8163	33kV & Below	-	15,110	59,658	74,768	-	-	-	-	15,110	59,658
Lakeview	8179	115kV	-	9,087,935	21,891,082	30,979,017	-	-	-	-	9,087,935	21,891,082
BOTTLE SUB	8182	115kV	-	158,075	1,283,195	1,441,271	-	-	-	-	158,075	1,283,195
MINNEOLA SUB	8190	33kV & Below	-	-	5,725	5,725	-	-	-	-	-	5,725
MORENO SUB	8193	33kV & Below	104,923	744,336	3,946,398	4,795,658	-	-	-	104,923	744,336	3,946,398
MURRIETA 2 SUB	8195	33kV & Below	-	-	21,911	21,911	-	-	-	-	-	21,911
MURRIETA SUB	8196	33kV & Below	1,616,115	-	-	1,616,115	-	-	-	1,616,115	-	-
SOUTHCAP SUB.	8197	115kV	-	-	933,062	933,062	-	-	-	-	-	933,062
MUSCOY SUB	8198	33kV & Below	-	-	132,416	132,416	-	-	-	-	-	132,416
BELDING SUB	8204	33kV & Below	-	19,232	-	19,232	-	-	-	-	19,232	-
NORTH MUROC SUB	8206	33kV & Below	-	-	26,127	26,127	-	-	-	-	-	26,127
OLIVE LAKE SUB	8210	33kV & Below	-	558	-	558	-	-	-	-	558	-
ORO GRANDE SUB	8212	33kV & Below	-	-	25,595	25,595	-	-	-	-	-	25,595
PALM CANYON SUB	8214	33kV & Below	-	30,644	-	30,644	-	-	-	-	30,644	-
LUCERNE SUB	8220	33kV & Below	-	13,167	-	13,167	-	-	-	-	13,167	-
RANCHO SUB	8222	33kV & Below	-	6,894	2,107	9,001	-	-	-	-	6,894	2,107
RIALTO SUB	8225	33kV & Below	-	17,716	30,776	48,492	-	-	-	-	17,716	30,776
RIDGECREST SUB	8226	33kV & Below	-	-	17,438	17,438	-	-	-	-	-	17,438
SAN JACINTO SUB	8234	33kV & Below	-	-	10,232	10,232	-	-	-	-	-	10,232
TEMESCAL SUB	8250	33kV & Below	-	-	4,236	4,236	-	-	-	-	-	4,236
THUNDERBIRD SUB	8251	33kV & Below	-	-	51,765	51,765	-	-	-	-	-	51,765
VICTORVILLE SUB	8260	33kV & Below	-	6,894	45,886	52,780	-	-	-	-	6,894	45,886
WILDE SUB	8267	33kV & Below	-	-	47,409	47,409	-	-	-	-	-	47,409
YERMO SUB	8268	33kV & Below	-	6,894	-	6,894	-	-	-	-	6,894	-
TENAJA SUBSTATION	8270	115kV	-	-	30,476	30,476	-	-	-	-	-	30,476
IRON MT SCE	8273	33kV & Below	-	8,651	-	8,651	-	-	-	-	8,651	-
GALE SUB	8283	33kV & Below	-	-	3,705,135	3,705,135	-	-	-	-	-	3,705,135
GOLD HILL SUB	8294	33kV & Below	-	6,894	-	6,894	-	-	-	-	6,894	-
BUCKWIND	8301	115kV	-	4,640	748,412	753,051	-	-	-	-	4,640	748,412
CAPWIND	8302	115kV	-	29,827	60,323	90,150	-	-	-	-	29,827	60,323
RENWIND	8303	115kV	-	15,102	827,360	842,462	-	-	-	-	15,102	827,360
SANWIND	8304	115kV	-	-	369,731	369,731	-	-	-	-	-	369,731
TRANSWIND	8305	115kV	-	25,366	790,725	816,091	-	-	-	-	25,366	790,725
VENWIND	8306	115kV	-	21,039	2,287,437	2,308,477	-	-	-	-	21,039	2,287,437
ALTWIND	8308	115kV	-	1,022	24,461	25,483	-	-	-	-	1,022	24,461
TERAWIND	8310	115kV	-	5,398	223,362	228,761	-	-	-	-	5,398	223,362
INDIGO SUBSTATION	8311	115kV	-	4,899	85,092	89,991	-	-	-	-	4,899	85,092
CALGEN	8312	115kV	532	1,600	12,970	15,102	-	-	-	532	1,600	12,970
MCGEN	8314	115kV	-	112,388	2,033,228	2,145,616	-	-	-	-	112,388	2,033,228
SEGS II	8320	115kV	-	-	28,142	28,142	-	-	-	-	-	28,142
SEGS III	8321	115kV	-	-	11,755	11,755	-	-	-	-	-	11,755
SEGS IV	8322	115kV	-	-	9,731	9,731	-	-	-	-	-	9,731
SEGS V	8323	115kV	-	-	8,814	8,814	-	-	-	-	-	8,814
SEGS VI	8324	115kV	-	-	39,130	39,130	-	-	-	-	-	39,130
SEGS VII	8325	115kV	-	-	119,704	119,704	-	-	-	-	-	119,704
SEGS VIII	8326	220kV	-	-	83,150	83,150	-	-	-	-	-	83,150
SEGS IX	8327	220kV	-	-	74,085	74,085	-	-	-	-	-	74,085
SOPORT	8340	115kV	-	42,538	654,012	696,550	-	-	-	-	42,538	654,012
NEWCOMB	8342	115kV	51,172	1,226,277	10,916,321	12,193,770	-	-	-	51,172	1,226,277	10,916,321
ELSINORE	8343	115kV	20,961	1,350,236	11,534,688	12,905,885	-	-	-	20,961	1,350,236	11,534,688
SOUTH BASE SUB	8344	115kV	12,179	155,845	1,878,913	2,046,936	-	-	-	12,179	155,845	1,878,913
INDIAN WELLS SUB	8345	115kV	222,600	871,289	12,798,999	13,892,888	-	-	-	222,600	871,289	12,798,999
PECHANGA SUB	8347	115kV	560,579	844,656	11,063,672	12,468,908	-	-	-	560,579	844,656	11,063,672
MORAGA	8348	115kV	40,720	347,922	17,065,277	17,453,919	-	-	-	40,720	347,922	17,065,277
TANKER SUBSTATION	8351	115kV	120	4,440	696,181	700,741	-	-	-	120	4,440	696,181
PLUESS SUBSTATION	8353	115kV	-	-	151,193	151,193	-	-	-	-	-	151,193
AFG SUBSTATION	8354	115kV	-	78,655	1,082,686	1,161,340	-	-	-	-	78,655	1,082,686
RECTIFIER SUB	8357	115kV	-	5,170	1,089,069	1,094,239	-	-	-	-	5,170	1,089,069
MOUNTWIND SUBSTATION	8359	66kV	-	-	29,688	29,688	-	-	-	-	-	29,688
COSO SUB	8361	115kV	91,119	1,641,131	4,595,949	6,328,199	-	-	-	91,119	1,641,131	4,595,949
MOVAL SUBSTATION	8362	115kV	-	44,522	459,534	504,056	-	-	-	-	44,522	459,534
PRIMM SUBSTATION	8372	220kV	-	-	28,867,684	28,867,684	-	-	28,867,684	-	-	-
PHARMACY SUBSTATION	8509	66kV	-	-	43,289	43,289	-	-	-	-	-	43,289
GLOW SUBSTATION	8511	66kV	-	-	(2,947)	(2,947)	-	-	-	-	-	(2,947)
PLASTER SUBSTATION	8558	66kV	4,671	-	-	4,671	-	-	-	4,671	-	-
ONEIL SUBSTATION	8810	66kV	1,188,142	-	-	1,188,142	-	-	-	1,188,142	-	-
MWD EASTSIDE RES	8956	115kV	-	-	26,094	26,094	-	-	-	-	-	26,094
CONSTR FIELD FORCES	9009	Div Offices & Misc	-	-	527,316	527,316	-	-	-	-	-	527,316
TRANS/SUB SUPPORT SERV	9047	Div Offices & Misc	-	-	68,048,659	68,048,659	-	-	-	-	-	68,048,659
REAL PROP-LAND SVCS-STHRN	9287	Misc	-	12,869	-	12,869	-	-	-	-	12,869	-
TELCOMM-ALHAMBRA	9310	Misc	327,844	-	-	327,844	-	-	-	327,844	-	-
WESTMINSTER FENWICK BLDG	9440	Div Offices & Misc	-	8,929	-	8,929	-	-	-	-	8,929	-
PLANT ACCTG-MISC. LEDGER	9900	Div Offices & Misc	631	-	-	631	-	-	-	631	-	-

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2015 Facilities  
TRANSMISSION SUBSTATION FACILITIES

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353  TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment		A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment	A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment
CUMMINGS SUB	5357	66kV	-	-	96,660	96,660	-	-	-	-	-	96,660
MONOLITH SUB	5358	66kV	-	234	1,261,397	1,261,631	-	-	-	-	234	1,261,397
ACTON SUB	5365	66kV	24,167	-	15,397	39,564	-	-	-	-	-	15,397
DEL SUR SUB	5508	66kV	-	-	784,749	784,749	-	-	-	-	-	784,749
GOLDTOWN SUB	5511	66kV	-	-	526,259	526,259	-	-	-	-	-	526,259
LANCASTER SUB	5514	66kV	-	-	1,383,022	1,383,022	-	-	-	-	-	1,383,022
LITTLE ROCK SUB	5518	66kV	-	-	1,690,353	1,690,353	-	-	-	-	-	1,690,353
SHUTTLE SUB	5522	66kV	-	-	908,281	908,281	-	-	-	-	-	908,281
REDMAN WUB	5530	66kV	-	-	282,763	282,763	-	-	-	-	-	282,763
ANAVERDE SUB	5539	66kV	-	-	76,359	76,359	-	-	-	-	-	76,359
ROSAMOND SUB	5541	66kV	-	-	658,870	658,870	-	-	-	-	-	658,870
PIUTE SUB	5545	66kV	-	-	149,257	149,257	-	-	-	-	-	149,257
OASIS SUB	5548	66kV	-	-	397,187	397,187	-	-	-	-	-	397,187
CAL CEMENT SUB	5553	66kV	-	4,529	367,757	372,286	-	-	-	-	4,529	367,757
PALMDALE SUB	5564	66kV	-	-	593,395	593,395	-	-	-	-	-	593,395
QUARTZ HILL SUB	5566	66kV	-	-	220,467	220,467	-	-	-	-	-	220,467
HELIJET SUB	5599	66kV	-	-	499,396	499,396	-	-	-	-	-	499,396
RITTER SUB	8504	66kV	942,487	-	-	942,487	-	-	-	942,487	-	-
BIG CREEK NO.1	2211	220kV	-	264,412	9,186,719	9,451,131	-	139,326	4,831,334	-	125,086	4,355,385
BIG CREEK NO.8	2229	220kV	-	282,649	2,438,028	2,720,677	-	272,842	2,324,830	-	9,807	113,198
BIG CREEK NO.3	2230	220kV	-	2,326,259	17,107,471	19,433,730	-	1,999,241	14,108,005	-	327,018	2,999,466
CONTROL STATION	2556	115kV	-	1,486,596	15,265,498	16,752,094	-	1,245,406	13,181,656	-	241,189	2,083,842
EAGLE ROCK SUB	5011	220kV	19,613	1,691,795	33,578,964	35,290,372	3,654	316,919	6,253,693	15,959	1,374,876	27,325,270
MESA SUB	5012	220kV	169,249	6,820,582	47,598,764	54,588,595	52,058	2,113,853	14,624,742	117,190	4,706,728	32,974,023
RIO HONDO SUB	5013	220kV	457,530	4,170,460	81,508,604	86,136,594	147,374	2,954,575	24,643,302	310,156	1,215,885	56,865,302
WALNUT SUB	5014	220kV	97,955	2,736,913	36,138,153	38,973,022	9,725	271,710	3,584,661	88,230	2,465,204	32,553,492
GOULD SUB	5015	220kV	29,300	845,493	32,065,661	32,940,454	10,760	312,813	11,772,784	18,541	532,681	20,292,876
COTTONWOOD SUB	5018	220kV	-	(0.01)	0.01	-	-	(0.01)	0.01	-	-	-
LA FRESA SUB	5021	220kV	101,370	4,792,845	64,203,801	69,098,015	20,664	968,952	13,095,946	80,706	3,823,893	51,107,855
EL NIDO SUB	5023	220kV	285,620	3,766,149	30,595,927	34,647,696	77,988	1,028,334	8,033,521	207,632	2,737,815	22,562,406
LA CIENEGA SUB	5024	220kV	2,100,227	4,936,661	41,758,976	48,795,864	587,143	1,380,102	11,674,218	1,513,083	3,556,559	30,084,757
ALAMITOS SWITCHCRACK SUB	5025	220kV	63,557	602,122	14,038,436	14,704,114	29,353	278,081	6,483,443	34,204	324,041	7,554,992
LG BCH SWITCHCRACK SUB	5027	220kV	97,213	1,323,464	8,223,160	9,643,837	35,661	485,495	3,016,556	61,552	837,969	5,206,604
REDONDO SWITCHCRACK SUB	5028	220kV	13,018	39,761	5,707,969	5,760,749	9,041	27,612	3,963,916	3,978	12,149	1,744,054
MAGUNDEN SUB	5031	220kV	8,363	2,649,444	15,890,048	18,547,856	7,893	2,500,811	14,997,274	470	148,634	892,774
RECTOR SUB	5033	220kV	394,843	16,655,524	112,133,642	129,184,009	225,998	9,758,324	63,914,849	168,845	6,897,200	48,218,793
SPRINGVILLE SUB	5034	220kV	12,198	1,060,686	27,576,828	28,649,712	4,260	320,770	9,681,525	7,937	739,917	17,895,303
VESTAL SUB	5035	220kV	7,243	1,400,997	28,499,913	29,908,153	2,622	507,575	10,317,737	4,621	893,423	18,182,176
EAGLE MT. SUB	5040	220kV	-	318,948	8,202,434	8,521,381	-	57,567	1,480,450	-	261,381	6,721,984
CIMA SUB	5043	220kV	1,824	17,123	3,264,157	3,283,104	208	1,956	372,858	1,616	15,167	2,891,299
MANDALAY SWITCHCRACK SUB	5048	220kV	49,104	22,506	2,520,276	2,591,886	-	-	-	49,104	22,506	2,520,276
PARDEE SUB	5050	220kV	970,263	3,068,778	26,187,211	30,226,252	806,561	2,552,143	21,767,777	163,703	516,634	4,419,434
ANTELOPE SUB	5052	220kV	21,983	5,922,082	203,173,028	209,117,093	21,983	5,922,082	203,173,028	-	-	-
SANTA CLARA SUB	5053	220kV	140,739	3,491,725	49,490,282	53,122,746	36,932	583,864	13,319,297	103,807	2,907,861	36,170,985
GOLETA SUB	5055	220kV	236,194	1,020,530	25,974,848	27,231,571	93,955	405,916	10,332,518	142,239	614,614	15,642,330
MOORPARK SUB	5056	220kV	184,091	4,495,552	56,671,084	61,350,726	26,599	649,558	8,188,348	157,492	3,845,994	48,482,735
BAILEY SUB	5059	220kV	111,063	895,918	21,069,401	22,076,382	110,168	888,695	20,899,558	895	7,222	169,844
PADUA SUB	5060	220kV	149,547	4,227,718	54,760,795	59,138,060	59,194	1,732,476	21,594,841	90,353	2,495,242	33,165,953
CHINO SUB	5062	220kV	34,465	2,927,698	36,561,347	39,523,510	8,285	685,034	8,788,220	26,179	2,242,664	27,773,127
JULIAN HINDS SUB	5063	220kV	-	2,215	1,125,000	1,127,215	-	1,742	884,686	-	473	240,314
VISTA SUB	5064	220kV	52,109	9,099,321	65,908,444	75,059,873	9,751	1,759,490	12,276,111	42,358	7,339,831	53,632,332
DEVERS SUB	5067	500kV	1,371,130	22,781,774	195,662,484	219,815,388	1,144,173	18,527,833	163,758,317	226,957	4,253,941	31,904,166
MIRA LOMA SUB	5069	500kV	474,834	18,828,629	185,291,356	204,594,819	396,126	15,783,355	154,501,850	78,708	3,045,274	30,789,506
HINSON SUB	5071	220kV	678,278	602,463	26,224,177	27,504,918	173,064	150,918	6,693,941	505,214	451,545	19,530,236
LIGHTHIPE SUB	5073	220kV	164,680	11,568,434	37,328,470	49,061,584	59,589	4,185,999	13,507,181	105,091	7,382,436	23,821,289
LAGUNA BELL SUB	5074	220kV	131,263	1,879,671	50,778,186	52,789,120	32,729	464,996	12,744,914	98,533	1,414,676	38,033,272
DEL AMO SUB	5075	220kV	185,982	3,259,190	59,484,679	62,929,851	33,688	470,040	10,899,018	152,294	2,789,150	48,585,661
BARRE SUB	5081	220kV	86,188	2,877,553	58,397,461	61,361,202	29,235	966,787	19,817,695	56,953	1,910,766	38,579,766
VILLA PARK SUB	5082	220kV	270,570	3,949,062	31,915,975	36,135,606	61,076	890,220	7,215,579	209,494	3,058,841	24,700,396
VIEJO SUBSTATION	5083	220kV	13,285,971	8,577,539	34,781,519	56,645,029	3,130,755	2,020,743	8,196,545	10,155,216	6,556,796	26,584,973
CENTER SUB	5084	220kV	72,253	4,247,748	35,219,969	39,539,971	9,666	453,612	4,826,220	62,587	3,794,136	30,393,750
JOHANNA SUB	5085 & 5881	220kV	813,416	4,239,715	21,762,107	26,815,238	385,159	2,007,055	11,193,592	428,257	2,232,660	10,568,514
ELLIS SUB	5086	220kV	59,737	2,205,663	65,278,986	67,544,387	14,736	553,424	16,093,190	45,002	1,652,239	49,185,796
OLINDA SUB	5087	220kV	390,538	2,052,335	27,725,503	30,168,376	60,329	317,039	4,282,964	330,209	1,735,295	23,442,540
SANTIAGO SUB	5088	220kV	557,976	3,369,213	70,473,021	74,400,210	203,736	1,230,216	25,732,128	354,240	2,138,997	44,740,893
ETIOWANDA SWITCHCRACK SUB	5096	220kV	186,144	3,876,634	46,982,416	51,045,195	42,743	890,160	10,965,039	143,401	2,986,475	36,017,378
EL CASCO SUBSTATION	8006	220kV	-	29,991,590	53,332,921	83,324,511	-	3,285,710	5,850,028	-	26,705,880	47,482,893
MIRAGE(CEP) SUB	8012	220kV	629,541	4,507,656	52,146,761	57,283,957	274,246	1,978,362	22,701,945	355,294	2,529,294	29,444,816
TORTILLA(CEP) SUB	8037	115kV	17,114	383,294	13,771,533	14,171,940	5,239	139,059	4,194,008	11,875	244,234	9,577,525
VICTOR SUB	8049	220kV	22,088	11,545,262	95,446,825	107,014,175	19,123	10,005,496	82,626,151	2,965	1,539,766	12,820,673

**SOUTHERN CALIFORNIA EDISON COMPANY**  
12-31-2015 Facilities  
TRANSMISSION SUBSTATION FACILITIES

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353  TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment		A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment	A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment
MIDWAY-VINCENT LINES 1&2	4026	500KV	2,910,822	-	27,105	2,937,927	2,910,822	-	27,105	-	-	-
DWP-EDSN CELILO-SYLMR LN	4031	1000KV	-	95,841	-	95,841	-	95,841	-	-	-	-
DWP-EDSN CELILO-SYLMR LN	4034	1000KV	-	541	-	541	-	541	-	-	-	-
PARDEE-SYLMAR LINES 1&2	4045	220KV	187,213	20,864	-	208,077	187,213	20,864	-	-	-	-
EAGLE ROCK-SYLMAR LNE	4046	220KV	186,657	-	-	186,657	186,657	-	-	-	-	-
PARDEE-VINCENT LINE CONST	4059	220KV	13,002	-	-	13,002	13,002	-	-	-	-	-
RIO HONDO-VINCENT LN 2	4070	220KV	61,040	-	-	61,040	61,040	-	-	-	-	-
MANY TRANSMISSION LINES	4101	220KV	1,449,844	278,181	98,475	1,826,500	1,409,906	405,910	95,762	39,939	(127,729)	2,713
COGEN/RENEWABLE ENERGY SO	4102	220KV	1,466,128	-	-	1,466,128	831,624	-	-	634,504	-	-
ISO 66KV LINES	4103	66KV	(99)	-	-	(99)	-	-	-	(99)	-	-
ISO 66KV T/L	4703	66KV	-	34,610	5,845,598	5,880,208	-	-	-	-	34,610	5,845,598
DEVERS-HINS LN, OTHERS	4104	220KV	1,331,335	-	-	1,331,335	1,261,091	77,796	-	70,245	(77,796)	-
33 AND 66 KV LINES	4105	66KV	32,683,316	1,452,749	1,071,634	35,207,700	222,055	17,244	47,204	32,461,262	1,435,505	1,024,431
S/E DIV., 66KV LINES	4805	66KV	-	118,500	-	118,500	-	-	-	-	118,500	-
COGEN/RENEW ENGY SOURCES	4106	115KV	563,121	-	-	563,121	-	-	-	563,121	-	-
ANTELOPE/MESA LINE, OTHER	4107	220KV	4,261,323	310,268	-	4,571,591	4,261,323	1,121,722	3,419	-	(811,454)	(3,419)
CHINO-SERRANO/SN ONFRE LN	4108	220KV	8,067,991	3,035,777	-	11,103,767	8,067,810	3,036,743	-	181	(967)	-
VARIOUS 220KV LINES	4808	220KV	-	1,035	-	1,035	-	-	-	-	1,035	-
COACHELLA VALLEY-DEVERS (SCE PORTION)	4109	220KV	-	-	-	-	-	25,255	-	-	(25,255)	-
COACHELLA VALLEY - DEVERS 220 KV Line	4509	220KV	-	25,255	-	25,255	-	-	-	-	25,255	-
BIG CRK 3-BIG CRK 4	4111	220KV	1,944	-	-	1,944	1,944	-	-	-	-	-
BIGCRK-SPRGVL, MGDN-SPRGV	4113	220KV	793,531	-	-	793,531	793,457	-	-	74	-	-
ALAMITOS-MESA LN, OTHERS	4114	220KV	3,210,534	533,210	661,182	4,404,926	3,063,711	672,743	630,945	146,824	(139,533)	30,237
HINSON-LIGHTHIPE 1&2	4115	220KV	1,607,024	531,635	2,149	2,140,808	1,607,024	549,758	2,149	-	(18,124)	-
HINSON-LIGHTHIPE 1,2	4415	220KV	-	18,124	-	18,124	-	-	-	-	18,124	-
HINSON-LAFRESA, OTHERS	4116	220KV	3,594,552	162,282	2,065	3,758,900	3,594,552	292,663	2,065	-	(130,380)	-
HINSON-LA FRESA	4416	220KV	-	130,380	-	130,380	-	-	-	-	130,380	-
ELDRDO-CIMA-PISGAH LN1,2	4117	220KV	1,005,237	7,084	12,857	1,025,178	917,785	18,584	11,739	87,452	(11,500)	1,119
MRA LMA-VLL PK LNS, OTHR	4118	220KV	5,612,167	86,461	2,260	5,700,887	5,214,319	335,453	2,100	397,848	(248,992)	160
CENTER-MESA LN, OTHERS	4119	220KV	2,105,146	52,418	101	2,157,665	1,895,901	166,863	5,425	209,244	(114,444)	(5,324)
ALAMITOS-CENTER, OTHERS	4120	220KV	4,269,950	301,434	3,380	4,574,764	3,792,400	387,090	26,643	477,550	(85,656)	(23,263)
ALAMITOS-CENTER....	4420	220KV	-	90,160	-	90,160	-	-	-	-	90,160	-
BIG CREEK 4-SPRNGVLL-MGDN	4121	220KV	281,784	-	-	281,784	281,784	55,314	-	-	(55,314)	-
LUGO-VINCENT LINES 1&2	4123	500KV	1,749,466	-	16,633	1,766,099	1,749,466	-	16,633	-	-	-
BIG CRK 1-CMP TEN-...-PRTL	4124	Transmission Line	485	-	-	485	-	-	-	485	-	-
GOLETA-SNTA CLARA, OTHERS	4125	220KV	11,478,276	1,064,843	1,918	12,545,036	8,540,243	797,524	1,427	2,938,032	267,318	491
NORTH BOULDER-MEAD, OTHER	4127	220KV	19,842	-	-	19,842	19,842	-	-	-	-	-
KERN RIVERS-VESTAL 66 KV	4129	66KV	34,937	-	-	34,937	-	-	-	34,937	-	-
MOHAVE-LUGO 500KV	4130	500KV	157,990	-	-	157,990	157,990	-	-	-	-	-
CUMMINGS-KERBN RIV1, OTHE	4132	66KV	3,146	-	-	3,146	-	-	-	3,146	-	-
BOREL-...-WALKER 66KV LN	4133	66KV	50,020	-	-	50,020	-	-	-	50,020	-	-
LUGO-VICTOR LNS, OTHER	4135	220KV	2,211,409	61	-	2,211,471	1,443,217	64,169	-	768,193	(64,108)	-
LUGO-ELDORADO LN	4136	500KV	1,330,373	-	-	1,330,373	1,330,373	-	-	-	-	-
LUGO-ELDORADO LN	4137	500KV	16,589	-	-	16,589	16,589	-	-	-	-	-
LUGO-MIRA LOMA 2&3	4138	500KV	9,592,056	351,064	98	9,943,217	9,592,056	1,062,368	98	-	(711,304)	-
SPRGVLL-TULE 66KV LN	4139	66KV	517	-	-	517	-	-	-	517	-	-
MOHAVE-LUGO 500 KV LN	4140	500KV	278,112	-	-	278,112	-	-	-	-	-	-
MOHAVE-ELDORADO LN	4141	500KV	76,199	-	-	76,199	76,199	-	-	-	-	-
BOREL-WELDON 66KV LN	4142	66KV	25,409	-	-	25,409	-	-	-	25,409	-	-
ELDORADO-BORDER 500 KV LN	4143	500KV	6,167	-	-	6,167	6,167	-	-	-	-	-
ELDORADO-MEAD LNS 1&2	4144	220KV	9,994	-	-	9,994	9,994	-	-	-	-	-
VINCENT-PARDEE LN 2	4147	220KV	3,884,037	-	1,880	3,885,917	3,884,037	-	1,880	-	-	-
MIRA LOMA-SERRANO LN	4148	500KV	1,695,891	-	-	1,695,891	1,695,891	-	-	-	-	-
SANTA ANA LNS 1,2,3	4149	33kv & Below	232	-	-	232	-	-	-	232	-	-
VINCENT-PEARLOSSOM LN	4153	220KV	309,032	-	-	309,032	-	-	-	309,032	-	-
LUGO-VICTORVLL EDSON-DWP	4154	500KV	748,912	-	-	748,912	748,912	51,478	-	-	(51,478)	-
MIDWAY-VINCENT LN 3	4155	500KV	5,828,378	-	-	5,828,378	5,828,378	-	-	-	-	-
ELLIS-SANTIAGO LNS 1,2	4156	220KV	12,019,808	-	-	12,019,808	12,019,808	-	-	-	-	-
RIO HONDO-VINCENT LN 2	4157	220KV	1,139,771	18,610	-	1,158,382	105,605	18,610	-	1,034,166	-	-
LUCERNE-LUGO/MIRA LOMA LN	4158	500KV	498,252	-	-	498,252	-	-	-	498,252	-	-
BIG CRK 2-BIG CRK 8	4166	220KV	(63,110)	-	-	(63,110)	(63,110)	-	-	-	-	-
BIG CRK 3-MAMMOTH POOL	4168	220KV	4,331	-	-	4,331	-	-	-	4,331	-	-
BIG CRK 1-RECTOR, OTHER	4169	220KV	11,790,589	-	2,701	11,793,290	11,492,263	-	(2,944)	298,326	-	5,646
DEVERS-PALO VERDE	4185	500KV	14,776,950	-	-	14,776,950	14,776,950	-	-	-	-	-
DEVERS-PALO VERDE	4186	500KV	1,193,710	-	-	1,193,710	1,193,710	-	-	-	-	-
DEVERS-VALLEY LNS 1,2	4187	500KV	10,444,073	-	-	10,444,073	10,444,073	32,102	-	-	(32,102)	-
SERRANO-VALLEY LN	4188	500KV	2,855,109	8,043	-	2,863,153	2,855,109	229,571	-	-	(221,528)	-
VALLEY-SERRANO 500 KV LN	4988	500KV	-	221,528	-	221,528	-	-	-	-	221,528	-
SERRANO-VILLA PK LN 1,2,3	4189	220KV	78,248	-	-	78,248	78,248	37,274	-	-	(37,274)	-
VARIOUS 66KV LINES	4200	66KV	-	465,310	-	465,310	-	-	-	-	465,310	-
SSAN JOAQUIN REGION 66KV	4205	66KV	-	-	25,221	25,221	-	-	-	-	-	25,221
E.MAGUNDEN-ANTELOPE 220KV	4207	220KV	-	25,798	-	25,798	-	-	-	-	25,798	-
RECTOR-VESTAL #2 220KV	4269	220KV	-	-	(5,722)	(5,722)	-	-	-	-	-	(5,722)
ALL 66KV T/L-COASTAL REGN	4405	66KV	-	49,883	-	49,883	-	-	-	-	49,883	-
EAGLE ROCK-MESA 220 KV LN	4301	220KV	-	288	-	288	-	-	-	-	288	-
ALL 66KV T/L-METRO REGION	4305	66KV	-	94,184	5,264	99,448	-	-	-	-	94,184	5,264
ANTELOPE-MESA 220 KV LN	4307	220KV	-	-	3,419	3,419	-	-	-	-	-	3,419
CENTER-MESA 220KV LN	4319	220KV	-	37,768	5,923	43,691	-	-	-	-	37,768	5,923
MIRA LOMA - VINCENT 500 KV LINE	4360	500KV	14,520,595	-	-	14,520,595	15,554,761	-	-	(1,034,166)	-	-
MESA-REDONDO 220KV LN	4414	220KV	-	171,773	-	171,773	-	-	-	-	171,773	-
CENTER MESA&OLINDA 220KV	4419	220KV	-	82,383	-	82,383	-	-	-	-	82,383	-

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2015 Facilities

**TRANSMISSION SUBSTATION FACILITIES**

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353  TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment		A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment	A/C 350  Land & Land Rights	A/C 352  Structures & Improvements	A/C 353  Station Equipment
DEVERS-HINDS 220KV LNS	4504	220KV	-	82,129	-	82,129	-	-	-	-	82,129	-
33 & 66KV LINES IN ESTRN R	4505	66KV	-	87,069	-	87,069	-	-	-	-	87,069	-
ISO 115KV T/L	4513	115KV	16,850	-	-	16,850	-	-	-	16,850	-	-
ETIWANDA-PADUA 220KV LN	4518	220KV	-	273,649	-	273,649	-	-	-	-	273,649	-
MIRA LOMA-WALNUT 220KV LN	4519	220KV	-	12,710	-	12,710	-	-	-	-	12,710	-
LUGO-MIRA LOMA NO. 1&2	4538	500KV	-	711,304	-	711,304	-	-	-	-	711,304	-
DESERT REGION 115KV LINES	4570	115KV	-	55,470	-	55,470	-	-	-	-	55,470	-
DEVERS-VALLEY 500 KV LNS	4587	500KV	-	25,661	-	25,661	-	-	-	-	25,661	-
BAILEY-PARDEE 220 KV LN	4601	220KV	-	138,939	-	138,939	-	-	-	-	138,939	-
33&66KV LNS IN NRTHEN T/S	4605	66KV	-	235,738	-	235,738	-	-	-	-	235,738	-
MOORPARK-PARDEE 200KV LN	4625	220KV	-	7,048	-	7,048	-	-	-	-	7,048	-
ANTELOPE-PARDEE	4644	220KV	3,934,890	-	-	3,934,890	3,934,890	-	-	-	-	-
CORONA-JEFFERSON 66 KV LN	4705	66KV	243,215	3,296	-	246,510	96,896	1,313	-	146,319	1,983	-
ANTELOPE-WINDHUB 500KV LN	4708	500KV	16,945,980	-	-	16,945,980	16,945,980	-	-	-	-	-
WINDHUB-HIGHWIND 230KV LN	4709	220KV	3,268,655	-	-	3,268,655	3,268,655	-	-	-	-	-
WHIRLWIND-WINDHUB 500KV L	4711	500KV	71,262	-	-	71,262	71,262	-	-	-	-	-
ANTELOPE - VINCENT #2 500KV	4712	500KV	11,885,452	-	-	11,885,452	11,885,452	-	-	-	-	-
CIMA-ELDO-PISGH	4717	220KV	-	13,271	-	13,271	-	-	-	-	13,271	-
COLWTR-KRMR;LUGO-VICTR220	4725	220KV	-	98,264	-	98,264	-	-	-	-	98,264	-
LEE VINING-LUNDY 55K 4771	4730	55KV	10,585	-	-	10,585	-	-	-	10,585	-	-
ELDORADO-IVANPAH NO 1&2 - CA	4733	220KV	-	-	23,924	23,924	-	-	23,924	-	-	-
ELDORADO-IVANPAH NO 1&2 - NV	4734	220KV	352,196	-	-	352,196	352,196	-	-	-	-	-
BISHOP CRK5&115KV LINES	4735	115KV	(11)	-	-	(11)	-	-	-	(11)	-	-
115 KV LNS, ESTN T/S REG	4750	115KV	15,109,113	2,902	173,059	15,285,074	4,245,083	68,414	48,569	10,864,029	(65,512)	124,490
LUGO-VICTORVILLE 500KV	4754	500KV	-	51,478	-	51,478	-	-	-	-	51,478	-
DEVERS-SN BRDNO 220 KV LN	4756	220KV	1,079,577	-	-	1,079,577	1,080,551	-	-	(975)	-	-
BLYTHE-EAGLE MT 161 KV LN	4759	161KV	33,310	-	-	33,310	33,310	-	-	-	-	-
HOOVER-CLWTR 115 KV LN	4781	115KV	1,277	-	-	1,277	1,255	-	-	23	-	-
HOOVER-CLWTER 115 KV LN	4782	115KV	165,196	-	-	165,196	165,979	-	-	(783)	-	-
SERRANO-VILLA PARK 220KV	4889	220KV	-	37,274	-	37,274	-	-	-	-	37,274	-
SAN JACINTO REGION 115KV	4950	115KV	-	185,397	-	185,397	-	-	-	-	185,397	-
DEVERS-VALLEY 500KV	4987	500KV	-	6,441	-	6,441	-	-	-	-	6,441	-
BIG CREEK 4-MGNDN 220KV	4221	220KV	-	55,314	-	55,314	-	-	-	-	55,314	-
ANTELOPE-MAGUNDEN 220KV	4707	220KV	-	811,454	-	811,454	-	-	-	-	811,454	-
ANTELOPE-WHIRLWIND 500KV LN	4710	500KV	15,360,900	-	-	15,360,900	15,360,900	-	-	-	-	-
BARRE 1&2-VILLA PARK 220K	4818	220KV	-	937	-	937	-	-	-	-	937	-
ELLIS-HINGTN BCH#1-4 220KV	4820	220KV	-	44,239	26,618	70,857	-	-	-	-	44,239	26,618
<b>TOTAL TRANSMISSION SUBSTATIONS</b>			\$ 328,268,023	\$ 677,234,398	\$ 5,201,979,782	\$ 6,207,482,203	\$ 240,929,719	\$ 463,887,423	\$ 3,003,770,283	\$ 87,338,304	\$ 213,346,974	\$ 2,198,209,498
<b>Recalc based on all other TS locations</b>												
<b>Allocation % to use</b>							<b>73.39%</b>	<b>68.50%</b>	<b>57.74%</b>	<b>26.61%</b>	<b>31.50%</b>	<b>42.26%</b>
DIV MTCE / OVERHAUL MNGT	1000	66KV	-	-	6,285	6,285	-	-	3,629	-	-	2,656
MOUNTAINVIEW POWER-COMMON	1250	220KV	-	-	23,588,992	23,588,992	-	-	13,620,951	-	-	9,968,041
PALOVERDE-SWITCHYARD	1869	500KV	-	2,465,520	7,901,074	10,366,594	-	1,688,815	4,562,304	-	776,705	3,338,771
PV UNIT 1-INCREMENTAL	1870	500KV	-	-	194,959	194,959	-	-	112,575	-	-	82,384
BIG CREEK NO.2	2212	220KV	-	-	1,516,246	1,516,246	-	-	875,523	-	-	640,723
BIG CREEK NO.2A	2234	220KV	-	-	1,031,434	1,031,434	-	-	595,579	-	-	435,855
KERN RIVER NO.1	2313	66KV	-	4,184	354,262	358,446	-	2,866	204,561	-	1,318	149,701
MET T/S REGION	4300	66KV	-	131,348	14,696	146,044	-	89,970	8,486	-	41,378	6,210
COASTAL T/S REGION	4400	66KV	3,127	433,988	12,363	449,478	2,295	297,270	7,139	832	136,718	5,224
EASTERN T/S REGION	4500	66KV	-	78,929	809,824	888,753	-	54,064	467,615	-	24,865	342,209
NRTHN T/S REGION	4600	66KV	-	1,987,424	-	1,987,424	-	1,361,332	-	-	626,092	-
EASTERN T/S REG	4700	66KV	33,305	10,543	534,798	578,646	24,444	7,222	308,807	8,861	3,321	225,990
HUMAN EXTERNAL CARGO TRAINING SITE	4799	66KV	-	321,805	-	321,805	-	220,428	-	-	101,377	-
VAR. TRANS. LINES-S/E DIV	4800	66KV	2,931	48,457	740,608	791,995	2,151	33,192	427,648	780	15,265	312,960
SUBSTN DIV	5000	Misc	-	-	3,270,205	3,270,205	-	-	1,888,309	-	-	1,381,896
NO. T/S REG OFC/VALENCIA	5038	Misc	123,342	3,721,390	-	3,844,732	90,526	2,549,053	-	32,816	1,172,338	-
METRO REGION	5100	33kv & Below	-	-	314,323	314,323	-	-	181,499	-	-	132,824
NEENACH SUB	5556	66KV	-	-	424,900	424,900	-	-	245,349	-	-	179,551
BARSTOW NO RGN-SAN BERDOO	6072	CSTMTR SRVC FAC.	-	7,617	-	7,617	-	5,217	-	-	2,400	-
FRESNO COUNTY	7010	-	-	-	1	1	-	-	1	-	-	0
VENTURA COUNTY	7056	-	-	-	74,798	74,798	-	-	43,190	-	-	31,607
B&A-T/S 3RD FLOOR-GO3	9010	Misc	-	-	823	823	-	-	475	-	-	348
CHINO OFC BLDG (FACILITY)	9024	-	-	373,558	-	373,558	-	255,877	-	-	117,681	-
IRVINE OPER CENTER	9078	Misc	-	8,245	-	8,245	-	5,648	-	-	2,597	-
FUELS	9203	Misc	-	-	341,890	341,890	-	-	197,417	-	-	144,473
INNOVATION VILLAGE 1	9221	-	-	-	1,509,815	1,509,815	-	-	871,810	-	-	638,005
CONTROL SYS SEC-ALHAMBRA	9243	Div Offices & Misc	-	-	2,962,532	2,962,532	-	-	1,710,650	-	-	1,251,882
TELECOMM-ALHAMBRA	9330	-	-	-	107,708	107,708	-	-	62,194	-	-	45,514
CONWAY SUMMIT COMM SITE	9339	-	-	-	14,770	14,770	-	-	8,529	-	-	6,242
CHINO-VILLA PARK 220KV LN	4318-NU	-	-	-	4,718	4,718	-	-	2,724	-	-	1,994
<b>Total Locations Reclac'd</b>			\$ 162,705	\$ 9,593,006	\$ 45,732,022	\$ 55,487,733	\$ 119,416	\$ 6,570,952	\$ 26,406,963	\$ 43,289	\$ 3,022,054	\$ 19,325,059

**ISO TRANSMISSION LINES BY  
OPERATING VOLTAGE / CIRCUIT NAME  
AS OF DECEMBER 31, 2015**

CIRCUIT NAME	OPERATING VOLTAGE	LOCATION		CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL
		NO.	Combined			Ident	350	352	353	354	355	356	357	358	359	
1000kV TRANSMISSION LINES																
CELIJO-SYLMAR HV DC - CALIF.		4031	4031	336.1775	336.18	-	95,841	-	29,639,623	-	14,259,563	-	-	136,841	44,131,868	
CELIJO-SYLMAR HV DC - NEVADA		4034	4034	289.7250	289.73	-	541	-	7,698,607	-	5,631,427	-	-	668,871	13,999,446	
TOTAL CELIJO-SYLMAR				625.9025	625.90	-	96,382	-	37,338,231	-	19,890,990	-	-	805,712	58,131,314	
TOTAL 1000kV T/Ls				625.9025	625.90	-	96,382	-	37,338,231	-	19,890,990	-	-	805,712	58,131,314	
500kV TRANSMISSION LINES																
ANTELOPE-VINCENT No.1 & 2		4712	4712	34.8200	34.82	11,885,452	-	-	167,517,976	6,869,130	49,882,110	-	-	-	236,154,668	
ANTELOPE-WHIRLWIND		4710	4710	14.4900	14.49	15,360,900	-	-	40,424,916	-	37,438,436	-	-	2,140,712	95,364,965	
ANTELOPE-WINDHUB		4708	4708	25.4500	25.45	16,945,980	-	-	17,224,539	30,806,236	20,217,815	-	-	-	85,194,571	
COLORADO RIVER-PALO VERDE - CALIF.		4185	4185	16.3000	243.10											
COLORADO RIVER-PALO VERDE - ARIZONA		4186	4186	112.3000	112.30											
TOTAL COLORADO RIVER-PALO VERDE				128.6000	355.40											
COLORADO RIVER-RED BLUFF No. 1 & 2		4185	4185	64.2000	243.10											
DEVERS-RED BLUFF No. 1 & 2		4185	4185	162.6000	243.10											
DEVERS-PALO VERDE - CALIF.		4185	4185	243.1000	243.10	14,776,950	-	-	288,154,481	802,753	133,766,941	-	1,151,660	466,757	439,119,543	
DEVERS-PALO VERDE - ARIZONA		4186	4186	112.3000	112.30	1,193,710	-	-	21,308,265	-	24,561,685	-	-	147,245	47,210,905	
TOTAL DEVERS-PALO VERDE				355.4000	355.40	15,970,660	-	-	309,462,746	802,753	158,328,626	-	1,151,660	614,002	486,330,448	
DEVERS-VALLEY No. 1 & 2		4187	4187	83.2024	83.20	10,444,073	32,102	-	202,661,342	(6)	66,055,901	-	-	15,965,352	295,158,765	
ELDORADO-LUGO - CALIF.		4136	4136	150.6686	150.67	1,330,373	-	-	15,096,201	2,050,363	10,632,416	-	-	117,747	29,227,100	
ELDORADO-LUGO - NEVADA		4137	4137	26.5090	26.51	16,589	-	-	2,027,936	-	4,414,477	-	-	20,088	6,479,090	
TOTAL ELDORADO-LUGO				177.1776	177.18	1,346,962	-	-	17,124,137	2,050,363	15,046,893	-	-	137,835	35,706,190	
ELDORADO-MCCULLOUGH (SCE PORTION)		N/A	N/A	0.6000											N/A	
ELDORADO-MOENKOPI (SCE PORTION)		4143	4143	29.6458	29.65	6,167	-	-	2,813,145	-	1,880,705	-	-	145,064	4,845,082	
ELDORADO-MOHAVE		4141	4141	59.3947	59.39	76,199	-	-	2,858,237	-	1,251,359	-	-	55,916	4,241,712	
LAUGHLIN-MOHAVE (SCE PORTION)		N/A	N/A	0.2200											N/A	
LUGO-MOHAVE - NEVADA		4130	4130	9.8530	9.85	157,990	-	-	1,471,682	-	517,455	-	-	19,051	2,166,177	
LUGO-MOHAVE - CALIF.		4140	4140	165.9571	165.96	278,112	-	-	14,209,001	1,513,721	10,310,625	-	-	329,333	26,640,792	
TOTAL LUGO-MOHAVE				175.8101	175.81	436,101	-	-	15,680,683	1,513,721	10,828,080	-	-	348,384	28,806,969	
LUGO-MIRA LOMA No.2		4138	4138	30.5887	97.51	3,008,979	333,259	31	8,370,575	37,091	5,788,218	-	-	185,539	17,723,692	
LUGO-MIRA LOMA No. 3		4138	4138	31.4223	97.51	3,090,979	342,341	32	8,598,689	38,102	5,945,957	-	-	190,595	18,206,696	
LUGO-RANCHO VISTA		4138	4138	27.7600	97.51	2,730,726	302,442	28	7,596,514	33,661	5,252,957	-	-	168,382	16,084,710	
MIRA LOMA-RANCHO VISTA		4138	4138	7.7400	97.51	761,372	84,326	8	2,118,035	9,385	1,464,612	-	-	46,948	4,484,686	
TOTAL LUGO-MIRA LOMA				97.5110	97.51	9,592,056	1,062,368	98	26,683,813	118,240	18,451,745	-	-	591,464	56,499,783	
LUGO-VICTORVILLE (SCE PORTION)		4154	4154	7.5735	7.57	748,912	51,478	-	1,532,506	-	759,625	-	-	-	3,092,521	
LUGO-VINCENT No. 1		4123	4123	47.1644	94.39	874,196	-	8,311	4,118,670	51,715	3,595,719	-	-	945	8,649,557	
LUGO-VINCENT No. 2		4123	4123	47.2224	94.39	875,271	-	8,322	4,123,735	51,779	3,600,141	-	-	946	8,660,193	
MIDWAY-VINCENT No. 1		4026	4026	112.6978	225.49	1,454,773	-	13,546	10,419,085	42,661	11,465,681	-	-	397,593	23,793,340	
MIDWAY-VINCENT No. 2		4026	4026	112.7967	225.49	1,456,049	-	13,558	10,428,229	42,698	11,475,743	-	-	397,942	23,814,220	
VINCENT-WHIRLWIND		4155	4155	36.4549												
MIDWAY-WHIRLWIND (SCE PORTION)		4155	4155	23.7900												
MIDWAY-VINCENT No. 3		4155	4155	60.2449	60.24	5,828,378	-	-	20,870,411	267,696	7,077,351	-	-	187,772	34,231,607	
MIRA LOMA-SERRANO No. 1 & 2		4148	4148	39.4600	39.46	1,695,891	-	-	21,454,534	-	7,820,475	-	-	252,983	31,223,883	
MIRA LOMA-VINCENT		4360	4360	48.6100	48.61	15,554,761	-	-	360,842,342	73,636,859	153,102,771	-	-	34,562,139	637,698,872	
SERRANO-VALLEY		4188	4188	40.8000	40.80	2,855,109	229,571	-	23,350,490	515,653	14,833,343	-	-	2,640,525	44,424,691	
WHIRLWIND-WINDHUB		4711	4711	16.1300	16.13	71,262	-	-	58,252,715	(10,509)	18,533,911	-	-	-	76,847,379	
MIRA LOMA SUBSTATION		5069	5069			Refer Substation Study	Refer Substation Study	Refer Substation Study	-	98,999	-	-	-	-	98,999	
VALLEY SUB		5070	5070			Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	-	-	-	-	
SERRANO SUB		5080	5080			Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	-	-	2,236,590	2,236,590	
EL DORADO SUB		5090	5090			Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	-	-	92,479	92,479	
SYLMAR-PAC INTERTIE		8958	8958			Refer Substation Study	Refer Substation Study	Refer Substation Study	2,505,376	-	359,913	-	-	-	2,865,290	
TOTAL 500kV T/Ls				1,586,4213	2,331.44	113,479,151	1,375,519	43,836	1,317,844,253	116,758,988	611,646,433	-	1,151,660	58,439,576	2,220,739,415 (5,838,411)	
220kV TRANSMISSION LINES																
ANTELOPE-PARDEE Built as 500kV energized as 220		4644	4644	26.3900	26.39	3,934,890	0	0	85,882,547	7,668,801	39,491,922	0	0	3,093,212	140,071,372	
ALAMITOS-BARRE NO. 1		4120	4120	15.3496	150.09	436,677	44,572	3,068	881,731	90,063	720,389	26	-	3,418	2,179,944	

**ISO TRANSMISSION LINES BY  
OPERATING VOLTAGE / CIRCUIT NAME  
AS OF DECEMBER 31, 2015**

CIRCUIT NAME	OPERATING VOLTAGE	LOCATION			CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL
		NO.	Combined	Ident			350	352	353	354	355	356	357	358	359		
ALAMITOS-BARRE No. 2		4120	4120		15.3995	150.09	438,097	44,717	3,078	884,598	90,356	722,731	26	-	3,429	2,187,031	
ALAMITOS-CENTER		4120	4120		11.4696	150.09	326,296	33,305	2,292	658,852	67,298	538,292	20	-	2,554	1,628,908	
ALAMITOS-LIGHTHIPE		4120	4120		11.8379	150.09	336,774	34,374	2,366	680,008	69,459	555,577	20	-	2,636	1,681,214	
ANTELOPE-MAGUNDEN No. 1		4107	4107		59.2509	185.66	1,359,947	357,983	1,091	39,203,096	2,245,410	18,228,866	-	-	25,045,827	86,442,220	
ANTELOPE-MAGUNDEN No. 2		4107	4107		59.2683	185.66	1,360,347	358,088	1,091	39,214,609	2,246,069	18,234,219	-	-	25,053,182	86,467,605	
BAILEY-PARDEE		4101	4101		26.9003	354.28	110,086	31,694	7,477	1,691,041	114,471	2,358,470	-	-	87,459	4,400,697	
BAILEY-PASTORIA		4101	4101		12.3979	354.28	50,737	14,607	3,446	779,373	52,758	1,086,979	-	-	40,308	2,028,208	
BARRE-DEL AMO		4120	4120		9.7000	150.09	275,953	28,167	1,939	557,200	56,915	455,241	17	-	2,160	1,377,590	
BARRE-ELLIS No. 1		4120	4120		12.7415	150.09	362,479	36,998	2,547	731,912	74,760	597,984	22	-	2,837	1,809,540	
BARRE-ELLIS No. 2		4120	4120		12.7415	150.09	362,479	36,998	2,547	731,912	74,760	597,984	22	-	2,837	1,809,540	
BARRE-ELLIS No. 3		4120	4120		12.7320	150.09	362,210	36,971	2,545	731,368	74,705	597,540	22	-	2,835	1,808,195	
BARRE-ELLIS No. 4		4120	4120		12.7225	150.09	361,941	36,943	2,543	730,824	74,649	597,095	22	-	2,833	1,806,850	
BARRE-LEWIS		4118	4118		5.0154	154.94	177,178	11,398	71	581,015	16,398	461,388	-	-	5,688	1,253,136	
BARRE-VILLA PARK		4118	4118		8.9922	154.94	317,666	20,436	128	1,041,712	29,400	827,230	-	-	10,198	2,246,771	
BIG CREEK 1-BIG CREEK 2		4169	4169		4.4926	372.22	142,308	-	(36)	171,632	200,483	178,144	-	-	1,281	693,812	
BIG CREEK 1-RECTOR		4169	4169		74.3496	372.22	2,355,110	-	(603)	2,840,400	3,317,859	2,948,175	-	-	21,203	11,482,143	
BIG CREEK 2-BIG CREEK 3		4169	4169		7.4074	372.22	234,638	-	(60)	282,987	330,556	293,725	-	-	2,112	1,143,958	
BIG CREEK 2-BIG CREEK 8		4166	4166		1.7038	9.03	(11,911)	-	-	30,963	-	25,750	-	-	-	44,802	
BIG CREEK 3-BIG CREEK 4		4111	4111		5.7906	5.79	1,944	-	-	133,734	-	284,487	-	-	29,429	449,593	
BIG CREEK 3-BIG CREEK 8		4166	4166		7.3234	9.03	(51,199)	-	-	133,088	-	110,681	-	-	-	192,569	
BIG CREEK 3-RECTOR No. 1		4169	4169		64.3300												
BIG CREEK 3-RECTOR No. 2		4169	4169		74.5900												
BIG CREEK 3-RECTOR		4169	4169		138.9200	372.22	4,400,452	-	(1,127)	5,307,202	6,199,320	5,508,576	-	-	39,618	21,454,040	
RECTOR-SPRINGVILLE		4113	4113		47.6700	99.30	380,952	-	-	10,716,359	21,816,536	13,475,199	-	-	9,218,872	55,607,918	
BIG CREEK 4-SPRINGVILLE		4121	4121		83.5204	135.41	173,799	34,116	-	1,234,281	127,380	1,265,884	-	-	88,630	2,924,090	
CENTER-DEL AMO		4120	4120		6.1864	150.09	175,995	17,964	1,236	355,367	36,299	290,341	11	-	1,377	878,590	
CENTER-MESA		4119	4119		12.4612	131.30	199,797	17,585	572	2,994,651	8,084	2,544,104	-	-	268,613	6,033,406	
CENTER-OLINDA		4119	4119		18.7746	131.30	301,023	26,494	861	4,511,874	12,180	3,833,061	-	-	404,705	9,090,198	
CHEVMAIN-EL NIDO		4116	4116 OH	OH	1.2466	90.45	49,023	3,991	28	44,331	150,875	94,171	-	-	185	342,604	
CHEVMAIN-EL NIDO		4116	4116 UG	UG	0.4763	0.95	18,731	1,525	11	-	-	-	90,294	228,414	71	339,046	
TOTAL CHEVMAIN-EL NIDO					1.7229	91.41	67,754	5,516	39	44,331	150,875	94,171	90,294	228,414	256	681,650	
CHEVMAIN-EL SEGUNDO		4116	4116 OH		1.7776	90.45	69,905	5,692	40	63,214	215,141	134,285	-	-	264	488,540	
CHINO-MIRA LOMA No.1		4117	4117		9.2967	334.26	27,958	566	358	669,489	137,347	335,879	-	-	4,204	1,175,801	
CHINO-MIRA LOMA No. 2		4118	4118		6.6849	154.94	236,157	15,193	95	774,420	21,856	614,972	-	-	7,581	1,670,274	
CHINO-MIRA LOMA No. 3		4118	4118		6.7911	154.94	239,908	15,434	97	786,723	22,204	624,742	-	-	7,701	1,696,809	
CHINO-SERRANO		4108	4108		24.8393	169.56	1,181,888	444,865	-	2,067,731	227,365	2,072,962	-	-	66,526	6,061,337	
CHINO-VIEJO		4108	4108		25.6000	169.56	1,218,083	458,489	-	2,131,055	234,328	2,136,446	-	-	68,563	6,246,964	
CIMA-ELDORADO-PISGAH No. 1 - CALIF.		4117	4117		82.4176	334.26	247,855	5,019	3,170	5,935,193	1,217,615	2,977,653	-	-	37,271	10,423,776	
CIMA-ELDORADO-PISGAH No. 1 - NEVADA		4127	4127		26.9238	85.09	6,279	-	-	204,931	146,204	173,969	-	-	1,647	533,029	
TOTAL CIMA-ELDORADO-PISGAH No.1					109.3414	419.35	254,134	5,019	3,170	6,140,124	1,363,819	3,151,622	-	-	38,918	10,956,806	
CIMA-ELDORADO-PISGAH No. 2 - CALIF.		4117	4117		82.6810	334.26	248,647	5,035	3,180	5,954,162	1,221,506	2,987,169	-	-	37,390	10,457,090	
CIMA-ELDORADO-PISGAH No. 2 - NEVADA		4127	4127		27.0283	85.09	6,303	-	-	205,726	146,771	174,644	-	-	1,653	535,098	
TOTAL CIMA-ELDORADO-PISGAH No.2					109.7093	419.35	254,950	5,035	3,180	6,159,888	1,368,278	3,161,813	-	-	39,044	10,992,188	
COACHELLA VALLEY-DEVERS (SCE PORTION)		4109	4109		0.3826	0.38	-	25,255	-	-	-	426,132	-	-	-	451,387	
DEL AMO-HINSON		4115	4115		6.0440	27.07	358,848	122,761	480	803,685	111,220	475,028	-	-	6,122	1,878,143	
DEL AMO-HINSON		4120	4120		6.2167	150.09	176,857	18,052	1,242	357,108	36,476	291,763	11	-	1,384	882,893	
TOTAL DEL AMO-HINSON					12.2607	177.16	535,705	140,813	1,722	1,160,792	147,697	766,790	11	-	7,506	2,761,036	
DEL AMO-LAGUNA BELL		4114	4114		6.9956	129.55	173,362	38,068	35,702	730,732	7,987	522,813	-	-	16,425	1,525,089	
DEL AMO-LAGUNA BELL		4120	4120		6.2091	150.09	176,641	18,030	1,241	356,671	36,432	291,406	11	-	1,383	881,814	
TOTAL DEL AMO-LAGUNA BELL					13.2047	279.65	350,003	56,097	36,943	1,087,403	44,419	814,219	11	-	17,807	2,406,903	
DEVERS-MIRAGE No. 1		4104	4104 OH		15.1600	158.71	127,137	7,843	-	1,854,670	1,456,774	3,234,296	-	-	258,177	6,938,898	

**ISO TRANSMISSION LINES BY  
OPERATING VOLTAGE / CIRCUIT NAME  
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CIRCUIT NAME	OPERATING VOLTAGE	LOCATION			CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL
		NO.	Combined	Ident			350	352	353	354	355	356	357	358	359		
DEVERS-MIRAGE No. 2		4104	4104 OH		15.1600	158.71	127,137	7,843	-	1,854,670	1,456,774	3,234,296	-	-	258,177	6,938,898	
DEVERS-SAN BERNARDINO		4104	4104 OH		43.2000	158.71	362,291	22,349	-	5,285,075	4,151,230	9,216,463	-	-	735,703	19,773,113	
DEVERS-EL CASCO		4104	4104 OH		2.3289	158.71	19,531	1,205	-	284,919	223,793	496,861	-	-	39,662	1,065,971	
DEVERS-EL CASCO		4756	4756		27.3011	120.31	244,987	-	-	1,579,167	128,936	1,044,900	-	-	27,068	3,025,059	
TOTAL DEVERS-EL CASCO					29.6300	279.02	264,518	1,205	-	1,864,086	352,730	1,541,761	-	-	66,730	4,091,031	
EL CASCO-SAN BERNARDINO		4104	4104 OH		1.0902	158.71	9,143	564	-	133,373	104,759	232,584	-	-	18,566	498,988	
EL CASCO-SAN BERNARDINO		4756	4756		12.7798	120.31	114,680	-	-	739,219	60,356	489,125	-	-	12,671	1,416,050	
TOTAL EL CASCO-SAN BERNARDINO					13.8700	279.02	123,823	564	-	872,591	165,115	721,709	-	-	31,237	1,915,039	
DEVERS-VISTA No. 1		4104	4104 OH		4.9871	158.71	41,824	2,580	-	610,120	479,227	1,063,968	-	-	84,931	2,282,650	
DEVERS-VISTA No. 1		4756	4756		40.2981	120.31	361,616	-	-	2,330,949	190,318	1,542,338	-	-	39,955	4,465,176	
TOTAL DEVERS-VISTA No. 1					45.2852	279.02	403,440	2,580	-	2,941,070	669,545	2,606,306	-	-	124,886	6,747,826	
DEVERS-VISTA No. 2		4104	4104 OH		4.9856	158.71	41,811	2,579	-	609,937	479,083	1,063,648	-	-	84,906	2,281,964	
DEVERS-VISTA No. 2		4756	4756		40.0364	120.31	359,268	-	-	2,315,812	189,082	1,532,322	-	-	39,695	4,436,179	
TOTAL DEVERS-VISTA No. 2					45.0220	279.02	401,079	2,579	-	2,925,749	668,165	2,595,970	-	-	124,601	6,718,143	
EAGLE ROCK-MESA		4101	4101		2.5350	354.28	10,374	2,987	705	159,358	10,787	222,255	-	-	8,242	414,708	
EAGLE ROCK-MESA		4114	4114		22.0610	129.55	546,707	120,048	112,590	2,304,401	25,189	1,648,718	-	-	51,796	4,809,449	
TOTAL EAGLE ROCK-MESA					24.5960	483.83	557,081	123,035	113,294	2,463,760	35,976	1,870,973	-	-	60,038	5,224,156	
EAGLE ROCK-PARDEE		4101	4101		46.6608	354.28	190,953	54,975	12,970	2,933,251	198,559	4,090,961	-	-	151,705	7,633,374	
EAGLE ROCK-PARDEE		4114	4114		4.6021	129.55	114,047	25,043	23,487	480,716	5,255	343,936	-	-	10,805	1,003,289	
TOTAL EAGLE ROCK-PARDEE					51.2629	483.83	305,000	80,018	36,457	3,413,967	203,814	4,434,897	-	-	162,510	8,636,663	
EAGLE ROCK-SYLMAR		4046	4046		1.7900	1.79	186,657	-	-	214,409	-	62,108	-	-	-	463,174	
EAGLE ROCK-SYLMAR		4101	4101		23.6785	354.28	96,901	27,898	6,582	1,488,508	100,761	2,076,000	-	-	76,984	3,873,634	
TOTAL EAGLE ROCK-SYLMAR					25.4685	356.07	283,558	27,898	6,582	1,702,917	100,761	2,138,108	-	-	76,984	4,336,808	
EL NIDO-EL SEGUNDO		4116	4116 OH	OH	2.9001	90.45	114,048	9,286	66	103,131	350,996	219,081	-	-	430	797,038	
EL NIDO-EL SEGUNDO		4116	4116 UG	UG	0.095	0.95	18,731	1,525	11	-	-	-	90,294	228,414	71	339,046	
TOTAL EL NIDO-EL SEGUNDO					3.3764	91.41	132,778	10,811	76	103,131	350,996	219,081	90,294	228,414	501	1,136,083	
EL NIDO-LA CIENEGA		4116	4116 OH		8.7009	90.45	342,167	27,859	197	309,416	1,053,061	657,289	-	-	1,291	2,391,278	
EL NIDO-LA FRESA No. 3		4116	4116 OH		3.8702	90.45	152,197	12,392	87	137,630	468,406	292,365	-	-	574	1,063,651	
EL NIDO-LA FRESA No. 4		4116	4116 OH		3.9963	90.45	157,156	12,795	90	142,114	483,668	301,891	-	-	593	1,098,307	
EL DORADO-IVANPAH No.1 - CALIF.		4733	4733		5.1600	10.32	-	-	11,962	12,641,358	-	10,290,832	-	-	-	22,944,152	
EL DORADO-IVANPAH No.2 - CALIF.		4733	4733		5.1600	10.32	-	-	11,962	12,641,358	-	10,290,832	-	-	-	22,944,152	
EL DORADO-IVANPAH No.1 - NEVADA		4734	4734		29.2400	58.48	176,098	-	-	24,283,335	-	82,080,762	-	-	1,093,604	107,633,799	
ELDORADO-IVANPAH No.2 - NEVADA		4734	4734		29.2400	58.48	176,098	-	-	24,283,335	-	82,080,762	-	-	1,093,604	107,633,799	
TOTAL EL DORADO-IVANPAH					68.8000	68.80	352,196	-	23,924	73,849,384	-	184,743,188	-	-	2,187,208	261,155,901	
ELDORADO-MEAD No. 1		4144	4144		15.2908	30.64	4,988	-	-	236,417	178,779	214,227	-	-	511	634,923	
ELDORADO-MEAD No. 2		4144	4144		15.3451	30.64	5,006	-	-	237,257	179,414	214,988	-	-	513	637,177	
ELDORADO-MERCHANT No. 1		4102	4102		0.3028	8.43	52,689	-	-	149,730	19,624	114,698	-	-	-	336,742	
ELDORADO-MERCHANT No. 2		4102	4102		0.3098	8.43	53,909	-	-	153,195	20,078	117,352	-	-	-	344,534	
ELLIS-JOHANNA		4156	4156		6.3964	29.49	2,606,839	-	-	490,731	1,404,683	644,417	-	-	8,298	5,154,969	
ELLIS-SANTIAGO		4156	4156		14.7556	29.49	6,013,613	-	-	1,132,048	3,240,408	1,486,580	-	-	19,143	11,891,791	
ETIWANDA-RANCHO VISTA No.1		4119	4119		0.4581												
MIRA LOMA-RANCHO VISTA No.1 & 2		4118	4118		13.7800												
ETIWANDA-MIRA LOMA		4119	4119		14.2381	131.30	228,287	20,092	653	3,421,672	9,237	2,906,880	-	-	306,916	6,893,737	
ETIWANDA-RANCHO VISTA No.2		4118	4118		0.4572												
PADUA-RANCHO VISTA No.1 & 2		4117	4117		29.0800												
ETIWANDA-PADUA		4118	4118		29.5372	154.94	1,043,457	67,129	420	3,421,771	96,572	2,717,252	-	-	33,496	7,380,097	
ETIWANDA-SAN BERNARDINO		4104	4104 OH		8.3015	158.71	69,619	4,295	-	1,015,603	797,718	1,771,076	-	-	141,376	3,799,687	
ETIWANDA-SAN BERNARDINO		4118	4118		25.5295	154.94	901,877	58,020	363	2,957,495	83,469	2,348,566	-	-	28,952	6,378,742	
TOTAL ETIWANDA-SAN BERNARDINO					33.8310	313.65	971,497	62,315	363	3,973,098	881,188	4,119,642	-	-	170,327	10,178,430	
ETIWANDA-VISTA		4118	4118		15.3224	154.94	541,292	34,823	218	1,775,041	50,097	1,409,572	-	-	17,376	3,828,420	
GOLETA-SANTA CLARA No. 1		4125	4125		49.3959	414.75	1,367,049	127,661	228	3,718,094	221,112	1,644,289	-	-	212,134	7,290,569	
GOLETA-SANTA CLARA No. 2		4125	4125		49.3932	414.75	1,366,974	127,654	228	3,717,891	221,100	1,644,200	-	-	212,123	7,290,170	
GOODRICH-GOULD		4114	4114		8.6743	129.55	214,963	47,203	44,270	906,082	9,904	648,269	-	-	20,366	1,891,057	
GOODRICH-LAGUNA BELL		4114	4114		13.9123	129.55	344,769	75,706	71,002	1,453,222	15,885	1,039,729	-	-	32,664	3,032,976	
GOULD-SYLMAR		4101	4101		27.4202	354.28	112,213	32,306	7,622	1,723,724	116,683	2,404,052	-	-	89,149	4,485,749	
HARBORGEN-HINSON		4102	4102		3.0157	8.43	524,683	-	-	1,491,021	195,417	1,142,170	-	-	-	3,353,291	
HARBORGEN-LONG BEACH		4102	4102		1.1515	8.43	200,342	-	-	569,324	74,617	436,121	-	-	-	1,280,404	
HINSON-LA FRESA		4115	4115		5.2326	27.07	310,673	106,280	415	695,791	96,289	411,256	-	-	5,300	1,626,004	
HINSON-LA FRESA		4116	4116 OH		8.8286	90.45	347,188	28,268	199	313,957	1,068,516	666,935	-	-	1,310	2,426,374	
TOTAL HINSON-LA FRESA					14.0612	117.52	657,861	134,548	615	1,009,748	1,164,805	1,078,191	-	-	6,610	4,052,378	
HIGHWIND-WINDHUB		4709	4709		9.6000	9.60	3,268,655	-	-	33,222,617	-	12,147,492	-	11,017,487	-	59,656,256	

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CIRCUIT NAME	OPERATING VOLTAGE	LOCATION		CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL		
		NO.	Combined			350	352	353	354	355	356	357	358	359				
HINSON-LIGHTHIPE		4115	4115	6.3531	27.07	377,200	129,039	504	844,786	116,908	499,321	357	-	358	-	359	6,435	1,974,194
HOOVER-MEAD No. 2 (No. Boulder-Mead)		4127	4127	15.7220	85.09	3,666	-	-	119,668	85,375	101,588	-	-	-	-	962	311,259	
HOOVER-MEAD No. 3 (So. Boulder-Mead)		4127	4127	15.4147	85.09	3,595	-	-	117,329	83,706	99,602	-	-	-	-	943	305,176	
JOHANNA-SANTIAGO		4156	4156	8.3410	29.49	3,399,356	-	-	639,921	1,831,728	840,329	-	-	-	-	10,821	6,722,155	
JULIAN HINDS-MIRAGE		4104	4104 OH	46.8175	158.71	392,629	24,221	-	5,727,639	4,498,848	9,988,236	-	-	-	-	797,310	21,428,882	
KRAMER-LUGO No. 1		4135	4135	47.8634	206.15	414,072	18,411	-	1,932,034	273,534	1,415,886	-	-	-	-	22,760	4,076,696	
KRAMER-LUGO No. 2		4135	4135	47.8559	206.15	414,007	18,408	-	1,931,731	273,491	1,415,664	-	-	-	-	22,757	4,076,058	
LA CIENEGA-LA FRESA		4116	4116 OH	11.8874	90.45	467,477	38,061	269	422,732	1,438,720	898,005	-	-	-	-	1,763	3,267,027	
LA FRESA-LAGUNA BELL		4114	4114	7.0995	129.55	175,937	38,633	36,233	741,585	8,106	530,578	-	-	-	-	16,669	1,547,739	
LA FRESA-LAGUNA BELL		4116	4116 OH	9.7578	90.45	383,730	31,243	220	347,001	1,180,976	737,130	-	-	-	-	1,447	2,681,747	
TOTAL LA FRESA-LAGUNA BELL				16.8573	220.01	559,667	69,876	36,453	1,088,585	1,189,082	1,267,707	-	-	-	-	18,116	4,229,486	
LA FRESA-REDONDO No. 1		4116	4116 OH	4.5290	90.45	178,105	14,501	102	161,057	548,140	342,132	-	-	-	-	672	1,244,710	
LA FRESA-REDONDO No. 2		4116	4116 OH	4.5295	90.45	178,125	14,503	102	161,075	548,201	342,170	-	-	-	-	672	1,244,847	
LAGUNA BELL-RIO HONDO		4114	4114	16.0436	129.55	397,586	87,304	81,879	1,675,848	18,318	1,199,010	-	-	-	-	37,668	3,497,614	
LAGUNA BELL-VELASCO		4114	4114	2.4922	129.55	61,761	13,562	12,719	260,325	2,846	186,253	-	-	-	-	5,851	543,317	
LEWIS-SERRANO No.1		4118	4118	7.3176	154.94	258,508	16,631	104	847,716	23,925	673,177	-	-	-	-	8,298	1,828,359	
LEWIS-SERRANO No. 2		4118	4118	7.2975	154.94	257,798	16,585	104	845,387	23,859	671,328	-	-	-	-	8,276	1,823,337	
LEWIS-VILLA PARK		4118	4118	4.0154	154.94	141,851	9,126	57	465,169	13,128	369,394	-	-	-	-	4,554	1,003,279	
LIGHTHIPE-LONG BEACH		4115	4115	9.4371	27.07	560,304	191,679	749	1,254,873	173,659	741,708	-	-	-	-	9,559	2,932,532	
LIGHTHIPE-MESA		4114	4114	12.1787	129.55	301,808	66,272	62,155	1,272,137	13,905	910,169	-	-	-	-	28,594	2,655,040	
LIGHTHIPE-REDONDO		4116	4116 OH	14.2136	90.45	558,956	45,509	321	505,455	1,720,257	1,073,732	-	-	-	-	2,108	3,906,339	
LUGO-PISGAH No. 1		4117	4117	65.6600	334.26	197,460	3,998	2,526	4,728,417	970,043	2,372,220	-	-	-	-	29,693	8,304,357	
LUGO-PISGAH No. 2		4117	4117	65.1296	334.26	195,865	3,966	2,505	4,690,221	962,207	2,353,058	-	-	-	-	29,453	8,237,274	
LUGO-VICTOR No. 1		4135	4135	10.8441	206.15	93,814	4,171	-	437,728	61,973	320,788	-	-	-	-	5,157	923,631	
LUGO-VICTOR No. 2		4135	4135	10.8550	206.15	93,908	4,175	-	438,168	62,035	321,111	-	-	-	-	5,162	924,559	
MAGUNDEN-PASTORIA No. 1		4101	4101	29.8591	354.28	122,194	35,180	8,300	1,877,041	127,062	2,617,881	-	-	-	-	97,079	4,884,736	
MAGUNDEN-PASTORIA No. 2		4101	4101	29.8591	354.28	122,194	35,180	8,300	1,877,041	127,062	2,617,881	-	-	-	-	97,079	4,884,736	
MAGUNDEN-PASTORIA No. 3		4101	4101	29.8727	354.28	122,250	35,196	8,303	1,877,896	127,119	2,619,073	-	-	-	-	97,123	4,886,960	
MAGUNDEN-SPRINGVILLE No. 1		4113	4113	51.6183	99.30	412,505	-	-	11,603,948	23,623,506	14,591,291	-	-	-	-	9,982,431	60,213,681	
MAGUNDEN-SPRINGVILLE No. 2		4121	4121	51.8933	135.41	107,985	21,197	-	766,890	79,144	786,525	-	-	-	-	55,068	1,816,810	
MAGUNDEN-VESTAL No. 1		4169	4169	35.6115	372.22	1,128,036	-	(289)	1,360,477	1,589,167	1,412,098	-	-	-	-	10,156	5,499,644	
MAGUNDEN-VESTAL No. 2		4169	4169	35.6164	372.22	1,128,191	-	(289)	1,360,664	1,589,386	1,412,292	-	-	-	-	10,157	5,500,401	
MESA-REDONDO		4114	4114	12.0899	129.55	299,607	65,789	61,702	1,262,861	13,804	903,533	-	-	-	-	28,385	2,635,681	
MESA-REDONDO		4116	4116 OH	14.2151	90.45	559,015	45,514	321	505,508	1,720,439	1,073,846	-	-	-	-	2,108	3,906,751	
TOTAL MESA-REDONDO				26.3050	220.01	858,622	111,303	62,023	1,768,369	1,734,243	1,977,378	-	-	-	-	30,494	6,542,432	
MESA-RIO HONDO		4107	4107	10.9291	185.66	250,848	66,032	201	7,231,191	414,176	3,362,398	-	-	-	-	4,619,818	15,944,664	
MESA-VINCENT		4107	4107	18.8137	185.66	431,819	113,669	346	12,448,001	712,976	5,788,138	-	-	-	-	7,952,701	27,447,650	
MESA-VINCENT		4114	4114	17.4792	129.55	433,163	95,116	89,206	1,825,805	19,957	1,306,299	-	-	-	-	41,039	3,810,585	
TOTAL MESA-VINCENT				36.2929	315.21	864,981	208,785	89,553	14,273,807	732,933	7,094,438	-	-	-	-	7,993,739	31,258,235	
MESA-WALNUT		4119	4119	13.7337	131.30	220,200	19,380	630	3,300,455	8,910	2,803,901	-	-	-	-	296,043	6,649,519	
MIRA LOMA-OLINDA		4119	4119	24.9716	131.30	400,383	35,239	1,146	6,001,125	16,200	5,098,253	-	-	-	-	538,287	12,090,633	
MIRA LOMA-VISTA No. 1		4118	4118	15.6296	154.94	552,145	35,521	222	1,810,629	51,101	1,437,833	-	-	-	-	17,725	3,905,176	
MIRA LOMA-VISTA No. 2		4118	4118	15.4693	154.94	546,482	35,157	220	1,792,059	50,577	1,423,086	-	-	-	-	17,543	3,865,124	
MIRA LOMA-WALNUT		4119	4119	27.6524	131.30	443,366	39,022	1,269	6,645,369	17,939	5,645,571	-	-	-	-	596,074	13,388,610	
MIRAGE-RAMON (SCE PORTION)		4104	4104 OH	0.0563	158.71	472	29	-	6,882	5,405	12,001	-	-	-	-	958	25,746	
MOORPARK-PARDEE No. 1		4125	4125	25.9572	414.75	718,375	67,085	120	1,953,833	116,193	864,063	-	-	-	-	111,475	3,831,143	
MOORPARK-PARDEE No. 2		4125	4125	25.9909	414.75	719,307	67,172	120	1,956,369	116,344	865,184	-	-	-	-	111,620	3,836,117	
MOORPARK-PARDEE No. 3		4125	4125	25.9958	414.75	719,443	67,185	120	1,956,738	116,366	865,347	-	-	-	-	111,641	3,836,840	
MOORPARK-SANTA CLARA No. 1		4125	4125	25.5692	414.75	707,637	66,082	118	1,924,627	114,456	851,147	-	-	-	-	109,809	3,773,876	



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OPERATING VOLTAGE / CIRCUIT NAME  
AS OF DECEMBER 31, 2015**

CIRCUIT NAME	OPERATING VOLTAGE	LOCATION			CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL
		NO.	Combined	Ident			350	352	353	354	355	356	357	358	359		
MOORPARK-SANTA CLARA No. 2		4125	4125		25.6882	414.75	710,930	66,390	119	1,933,585	114,989	855,108	-	-	110,320	3,791,440	
OLINDA-WALNUT		4119	4119		6.4143	131.30	102,844	9,052	294	1,541,472	4,161	1,309,557	-	-	138,266	3,105,646	
PARDEE-PASTORIA		4101	4101		38.7677	354.28	158,651	45,676	10,776	2,437,065	164,971	3,398,938	-	-	126,043	6,342,119	
PARDEE-PASTORIA-WARNE		4101	4101	*	38.4602	354.28	157,393	45,313	10,690	2,417,734	163,663	3,371,978	-	-	125,043	6,291,814	
PARDEE-SANTA CLARA		4125	4125		40.3103	414.75	1,115,602	104,180	186	3,034,209	180,442	1,341,848	-	-	173,116	5,949,583	
PARDEE-SYLMAR No. 1		4045	4045		6.4972	13.00	93,593	10,430	-	350,752	-	226,563	-	-	19,000	700,338	
PARDEE-SYLMAR No. 1		4101	4101		4.9856	354.28	20,403	5,874	1,386	313,411	21,216	437,110	-	-	16,209	815,609	
TOTAL PARDEE-SYLMAR No. 1					11.4828	367.28	113,996	16,304	1,386	664,163	21,216	663,673	-	-	35,209	1,515,947	
PARDEE-SYLMAR No. 2		4045	4045		6.4991	13.00	93,620	10,434	-	350,855	-	226,629	-	-	19,006	700,543	
PARDEE-SYLMAR No. 2		4101	4101		4.9902	354.28	20,422	5,879	1,387	313,700	21,235	437,513	-	-	16,224	816,361	
TOTAL PARDEE-SYLMAR No. 2					11.4893	367.28	114,042	16,313	1,387	664,555	21,235	664,142	-	-	35,230	1,516,904	
PARDEE-VINCENT		4051	4051		3.9228	7.35	-	-	-	168,754	-	109,288	-	-	77,517	355,559	
PARDEE-VINCENT (IDLE)		4051	4051		3.4311	7.35	-	-	-	147,602	-	95,589	-	-	67,801	310,992	
PARDEE-VINCENT		4101	4101		27.9975	354.28	114,576	32,986	7,782	1,760,015	119,140	2,454,666	-	-	91,026	4,580,191	
PARDEE-VINCENT (IDLE)		4101	4101		0.1364	354.28	558	161	38	8,575	580	11,959	-	-	443	22,314	
TOTAL PARDEE-VINCENT					35.4878	361.63	115,134	33,147	7,820	2,084,945	119,720	2,671,502	-	-	236,787	5,269,056	
RECTOR-VESTAL No. 1		4169	4169		33.2042	372.22	1,051,782	-	(269)	1,268,510	1,481,741	1,316,642	-	-	9,469	5,127,874	
RECTOR-VESTAL No. 2		4169	4169		33.2031	372.22	1,051,747	-	(269)	1,268,468	1,481,692	1,316,598	-	-	9,469	5,127,704	
RIO HONDO-VINCENT No. 1		4107	4107		32.3628	185.66	742,802	195,530	596	21,412,703	1,226,441	9,956,594	-	-	13,680,013	47,214,680	
RIO HONDO-VINCENT No. 2		4070	4070		4.4240	4.42	61,040	-	-	344,764	-	232,146	-	-	11,892	649,842	
RIO HONDO-VINCENT No. 2		4107	4107		5.0348	185.66	115,560	30,419	93	3,331,253	190,802	1,548,984	-	-	2,128,250	7,345,362	
RIO HONDO-VINCENT No. 2		4157	4157		20.5722	20.57	105,605	18,610	-	254,550,242	17,355,701	67,916,266	-	-	14,742,495	354,688,920	
TOTAL RIO HONDO-VINCENT No. 2					30.0310	210.66	282,206	49,030	93	258,226,259	17,546,503	69,697,396	-	-	16,882,637	362,684,124	
SAN BERNARDINO-VISTA		4104	4104 OH	OH	8.2454	158.71	69,149	4,266	-	1,008,740	792,328	1,759,107	-	-	140,421	3,774,010	
SAN BERNARDINO-VISTA (IDLE)		4104	4104 UG	UG	0.0415	0.04	348	21	-	-	-	-	1,480	260,160	707	262,716	
TOTAL SAN BERNARDINO-VISTA					8.2869	158.75	69,497	4,287	-	1,008,740	792,328	1,759,107	1,480	260,160	141,127	4,036,726	
SAN ONOFRE-SANTIAGO No. 1		4108	4108		28.3606	169.56	1,349,436	507,931	-	2,360,859	259,597	2,366,832	-	-	75,957	6,920,612	
SAN ONOFRE-SANTIAGO No. 2		4108	4108		28.3580	169.56	1,349,312	507,884	-	2,360,643	259,573	2,366,615	-	-	75,950	6,919,977	
SAN ONOFRE-SERRANO		4108	4108		40.3503	169.56	1,919,922	722,663	-	3,358,933	369,344	3,367,431	-	-	108,068	9,846,363	
SAN ONOFRE-VIEJO		4108	4108		22.0500	169.56	1,049,169	394,910	-	1,835,537	201,833	1,840,181	-	-	59,056	5,380,686	
SANTA CLARA-VINCENT		4059	4059		2.7390	2.74	13,002	-	-	966,737	-	202,343	-	-	20,953	1,203,034	
SANTA CLARA-VINCENT		4125	4125		40.2859	414.75	1,114,927	104,117	186	3,032,373	180,333	1,341,036	-	-	173,011	5,945,982	
SANTA CLARA-VINCENT		4147	4147		27.4832	27.48	3,884,037	-	1,880	2,763,981	-	5,304,671	-	-	145,187	12,099,756	
TOTAL SANTA CLARA-VINCENT					70.5081	444.97	5,011,966	104,117	2,066	6,763,090	180,333	6,848,050	-	-	339,150	19,248,772	
SERRANO-VILLA PARK No. 1		4189	4189		3.2422	6.50	39,045	18,599	-	759,195	-	697,163	-	-	-	1,514,003	
SERRANO-VILLA PARK No. 2		4189	4189		3.2553	6.50	39,203	18,674	-	762,263	-	699,980	-	-	-	1,520,120	
GOULD SUBSTATION		5015	5015				Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	-	-	1,418	1,418	
SANTA CLARA SUBSTATION		5053	5053				Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	-	-	6,071	6,071	
VIEJO SUBSTATION		5083	5083				Refer Substation Study	Refer Substation Study	Refer Substation Study	-	-	-	2	-	-	2	
TOTAL 220kV T/Ls					3,433,4041	27,040.98	83,181,566	8,065,330	804,531	805,378,759	139,025,874	588,372,347	182,298	11,734,475	127,244,763	1,763,989,942	
<b>161kV TRANSMISSION LINES</b>																	
EAGLE MOUNTAIN-BLYTHE		4759	4759		53.0211	53.02	33,310	0	0	0	2,041,005	331,263	0	0	4,845	2,410,423	
TOTAL 161kV T/Ls					53.0211	53.02	33,310	0	0	0	2,041,005	331,263	0	0	4,845	2,410,423	
<b>115kV TRANSMISSION LINES</b>																	
CONTROL-HAIWEE-INYOKERN		4750	4750 OH	*	125.6203	1,626.24	1,147,592	18,495	13,130	332,671	12,122,146	4,031,418	0	0	139,941	17,805,393	
CONTROL-COSO-HAIWEE-INYOKERN		4750	4750 OH	*	125.6165	1,626.24	1,147,557	18,494	13,129	332,661	12,121,778	4,031,296	-	-	139,937	17,804,852	
CONTROL-INYO (DWP)		4750	4750 OH		2.8670	1,626.24	26,192	422	300	7,593	276,665	92,009	-	-	3,194	406,374	
COOLWATER-SEGS 2-TORTILLA		4750	4750 OH	*	11.2649	1,626.24	102,910	1,658	1,177	29,832	1,087,046	361,515	-	-	12,549	1,596,687	
IVANPAH-BAKER-COOLWATER-DUNN SIDING-MOUNTAIN PASS		4781	4781	*	20.6228	21.00	1,255	-	-	96,551	42,433	93,272	-	-	1,352	234,863	
IVANPAH-BAKER-COOLWATER-DUNN SIDING-MOUNTAIN PASS		4782	4782	*	73.0869	72.74	165,979	-	-	329,348	1,639,120	826,450	-	-	21,772	2,982,668	
TOTAL ELDO-BAK-CLWTR-DUNN-MT.PASS					93.7097	93.74	167,234	-	-	425,899	1,681,553	919,721	-	-	23,124	3,217,530	
KRAMER-COOL WATER		4750	4750 OH		44.3188	1,626.24	404,870	6,525	4,632	117,366	4,276,688	1,422,283	-	-	49,371	6,281,735	
KRAMER-INYOKERN-RANDSBURG No. 1		4750	4750 OH	*	47.8841	1,626.24	437,440	7,050	5,005	126,808	4,620,732	1,536,700	-	-	53,343	6,787,079	
KRAMER-INYOKERN-RANDSBURG No. 3		4135	4135	*	49.4058	206.15	427,416	19,004	-	1,994,294	282,348	1,461,513	-	-	23,494	4,208,069	

CIRCUIT NAME	OPERATING VOLTAGE	LOCATION NO.	Combined	Ident	CIRCUIT MILES	TOTAL ACCT. CIRCUIT MILES	ACCOUNT NO.										TOTAL
							350	352	353	354	355	356	357	358	359		
KRAMER-ROADWAY VICTOR-ROADWAY VICTOR-ROADWAY KRAMER-ROADWAY-VICTOR		4750	4750 OH	OH	29.6200												
		4750	4750 OH	OH	5.0665												
		4750	4750 UG	UG	0.1328												
		4750	4750 OH	*	34.8192	1,626.24	318,087.7059378	5,126	3,639	92,209	3,359,997	1,117,422	0	0	38,789	4,935,270	
KRAMER-TORTILLA		4750	4750 OH		37.6233	1,626.24	343,704	5,539	3,932	99,635	3,630,583	1,207,410	-	-	41,912	5,332,716	
KRAMER-VICTOR		4750	4750 OH	OH	34.5508	1,626.24	315,635	5,087	3,611	91,498	3,334,089	1,108,806	-	-	38,490	4,897,215	
KRAMER-VICTOR		4750	4750 UG	UG	0.1200	13.80	1,096	18	13	-	-	-	39,119	125,793	134	166,172	
TOTAL KRAMER-VICTOR					34.6708	1,640.03	316,731	5,104	3,624	91,498	3,334,089	1,108,806	39,119	125,793	38,623	5,063,387	
TOTAL 115kV TLs						607.8005	14,949.80	4,839,733	87,418	48,569	3,650,467	46,793,624	17,290,095	39,119	125,793	564,277	73,439,093
66kV TRANSMISSION LINES																	
ANTELOPE-NEENACH		4105	4105 OH		17.3617	4,634.25	114,247	8,872	24,286	211,488	2,063,196	645,395	-	-	7,248	3,074,732	
BAILEY-NEENACH-WESTPAC		4105	4105 OH	*	16.3831	4,634.25	107,807	8,372	22,917	199,566	1,946,898	609,015	-	-	6,839	2,901,414	
TOTAL 66kV TLs						33.7448	9,268.51	222,055	17,244	47,204	411,054	4,010,094	1,254,409	-	-	14,087	5,976,146
55kV TRANSMISSION LINES																	

**TRANSMISSION LINE COST BY  
OPERATING VOLTAGE / LOCATION NO.  
AS OF DECEMBER 31, 2015**

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OPERATING VOLTAGE /		ACCOUNT NO.									CIRCUIT	
Location	Line Name	350	352	353	354	355	356	357	358	359	TOTAL	MILES
1000 kV TRANSMISSION LINES												
4031	DWP-EDSN CELILO-SYLMR CA		95,841		29,639,623		14,259,563			136,841	44,131,868	336.18
4034	DWP-EDSN CELILO-SYLMR NV		541		7,698,607		5,631,427			668,871	13,999,446	289.73
TOTAL 1000kV T/L'S		-	96,382	-	37,338,231	-	19,890,990	-	-	805,712	58,131,314	625.90
500 kV TRANSMISSION LINES												
4026	MIDWAY-VINCENT LINES 1&2	2,910,822		27,105	20,847,314	85,359	22,941,425			795,535	47,607,560	225.49
4123	LUGO-VINCENT LINES 1&2	1,749,466		16,633	8,242,406	103,494	7,195,860			1,891	17,309,750	94.39
4130	MOHAVE-LUGO 500KV	157,990			1,471,682		517,455			19,051	2,166,177	9.85
4136	LUGO-ELDORADO LN	1,330,373			15,096,201	2,050,363	10,632,416			117,747	29,227,100	150.67
4137	LUGO-ELDORADO LN	16,589			2,027,936		4,414,477			20,088	6,479,090	26.51
4138	LUGO-MIRA LOMA 2&3	9,592,056	1,062,368	98	26,683,813	118,240	18,451,745			591,464	56,499,783	97.51
4140	MOHAVE-LUGO 500 KV LN	278,112			14,209,001	1,513,721	10,310,625			329,333	26,640,792	165.96
4141	MOHAVE-ELDORADO LN	76,199			2,858,237		1,251,359			55,916	4,241,712	59.39
4143	ELDORADO-BORDER 500 KV LN	6,167			2,813,145		1,880,705			145,064	4,845,082	29.65
4148	MIRA LOMA-SERRANO LN	1,695,891			21,454,534		7,820,475			252,983	31,223,883	39.46
4154	LUGO-VICTORVLL EDSON-DWP	748,912	51,478		1,532,506		759,625				3,092,521	7.57
4155	MIDWAY-VINCENT LN 3	5,828,378			20,870,411	267,696	7,077,351			187,772	34,231,607	60.24
4158	LUCERNE-LUGO/MIRA LOMA LN	498,252									498,252	-
4185	DEVERS-PALO VERDE	14,776,950			288,154,481	802,753	133,766,941		1,151,660	466,757	439,119,543	243.10
4186	DEVERS-PALO VERDE	1,193,710			21,308,265		24,561,685			147,245	47,210,905	112.30
4187	DEVERS-VALLEY LNS 1,2	10,444,073	32,102		202,661,342	(6)	66,055,901			15,965,352	295,158,765	83.20
4188	SERRANO-VALLEY LN	2,855,109	229,571		23,350,490	515,653	14,833,343			2,640,525	44,424,691	40.80
4191	VALLEY-INLAND 500KV TL				3,058	12,338	4,980				20,377	0.92
4360	MIRA LOMA - VINCENT 500 KV LINE	15,554,761			360,842,342	73,636,859	153,102,771			34,562,139	637,698,872	48.61
4708	ANTELOPE-WINDHUB 500KV LN	16,945,980			17,224,539	30,806,236	20,217,815				85,194,571	25.45
4710	ANTELOPE-WHIRLWIND 500KV LN	15,360,900			40,424,916		37,438,436			2,140,712	95,364,965	14.49
4711	WHIRLWIND-WINDHUB 500KV L	71,262			58,252,715	(10,509)	18,533,911				76,847,379	16.13
4712	ANTELOPE - VINCENT #2 500KV	11,885,452			167,428,964	6,869,130	49,882,110				236,065,656	34.82
4716	ANTELOPE-VINCENT #1 500 kV				89,013						89,013	-
5069	MIRA LOMA SUB	Refer Substation Study	Refer Substation Study	Refer Substation Study		123,410					123,410	-
5070	VALLEY-500 KV	Refer Substation Study	Refer Substation Study	Refer Substation Study							-	-
5080	SERRANO SUB	Refer Substation Study	Refer Substation Study	Refer Substation Study						2,236,590	2,236,590	-
5090	EL DORADO SUB(NEVADA)	Refer Substation Study	Refer Substation Study	Refer Substation Study						94,492	94,492	-
8958	SYLMAR-PAC INTERTIE	Refer Substation Study	Refer Substation Study	Refer Substation Study	2,505,376		359,913				2,865,290	-
TOTAL 500kV T/L'S		113,977,403	1,375,519	43,836	1,320,352,687	116,894,736	612,011,327	-	1,151,660	60,770,657	2,226,577,826	1,587.00
220 kV TRANSMISSION LINES												
4045	PARDEE-SYLMAR LINES 1&2	187,213	20,864		701,607		453,192			38,006	1,400,882	13.00
4046	EAGLE ROCK-SYLMAR LNE	186,657			214,409		62,108				463,174	1.79
4051	PARDEE-VINCENT LN 1				316,356		204,878			145,317	666,551	7.35
4059	PARDEE-VINCENT LINE CONST	13,002			966,737		202,343			20,953	1,203,034	2.74
4070	RIO HONDO-VINCENT LN 2	61,040			344,764		232,146			11,892	649,842	4.42
4101	MANY TRANSMISSION LINES	1,449,844	417,408	98,475	22,271,233	1,507,596	31,061,355			1,151,849	57,957,761	354.28
4102	COGEN/RENEWABLE ENERGY SO	1,466,128			4,166,373	546,056	3,191,577				9,370,135	8.43
4104	OH	1,330,987	82,107		19,416,352	15,250,822	33,859,516			2,702,832	72,642,616	158.71
4104	UG	348	21						1,480	260,160	707	0.04
4107	ANTELOPE/MESA LINE, OTHER	4,261,323	1,121,722	3,419	122,840,853	7,035,874	57,119,199			78,479,791	270,862,181	185.66
4108	CHINO-SERRANO/SN ONFRE LN	8,067,991	3,036,811		14,115,074	1,552,075	14,150,785			454,131	41,376,866	169.56
4109			25,255				426,132				451,387	0.38
4111	BIG CRK 3-BIG CRK 4	1,944			133,734		284,487			29,429	449,593	5.79
4113	BIGCRK-SPRGVL, MGDN-SPRGV	793,531			22,322,375	45,444,252	28,069,091			19,203,082	115,832,331	99.30
4114	ALAMITOS-MESA LN, OTHERS	3,210,534	704,983	661,182	13,532,584	147,920	9,682,086			304,171	28,243,460	129.55
4115	HINSON-LIGHTHIPE 1&2	1,607,024	549,758	2,149	3,599,135	498,077	2,127,313			27,417	8,410,874	27.07
4116	OH	3,557,091	289,613	2,043	3,216,620	10,947,397	6,833,032			13,417	24,859,213	90.45
4116	UG	37,461	3,050	22					180,589	456,828	141	0.95
4117	ELDRDO-CIMA-PISGAH LN1,2	1,005,237	20,355	12,857	24,071,640	4,938,337	12,076,607			151,162	42,276,195	334.26
4118	*	5,473,668	352,137	2,204	17,949,610	506,590	14,253,906			175,713	38,713,828	154.94
4119	CENTER-MESA LN, OTHERS	2,105,146	185,279	6,024	31,552,863	85,176	26,805,724			2,830,220	63,570,431	131.30
4120	ALAMITOS-CENTER, OTHERS	4,269,950	435,834	29,998	8,621,812	880,665	7,044,159		256	33,420	21,316,093	150.09
4121	BIG CREEK 4-SPRNGVLL-MGDN	281,784	55,314		2,001,171	206,524	2,052,409			143,697	4,740,899	135.41
4125	GOLETA-SNTA CLARA, OTHERS	11,478,276	1,071,890	1,918	31,218,566	1,856,544	13,806,094			1,781,163	61,214,451	414.75
4127	NORTH BOULDER-MEAD, OTHER	19,842			647,655	462,057	549,803			5,205	1,684,563	85.09
4135	*	1,783,389	79,294		8,321,178	1,178,097	6,098,154			98,027	17,558,138	206.15

\* Cost allocated between operating voltages by pole miles.

**TRANSMISSION LINE COST BY  
OPERATING VOLTAGE / LOCATION NO.  
AS OF DECEMBER 31, 2015**

OPERATING VOLTAGE /

Location	Line Name	350	352	353	354	355	356	357	358	359	TOTAL
EOY 2014		244,043,436	12,025,084	2,107,534	1,876,616,192	834,071,336	1,272,567,744	51,971,671	238,879,703	86,668,318	4,618,951,018
Difference		8,864,366	767,446	5,900,206	378,112,955	169,738,549	206,230,644	3,223,730	19,010,814	107,299,015	899,147,725

EOY 2015  
CIRCUIT  
MILES

**4XXX locns excluded from Study**

4207	E.MAGUNDEN-ANTELOPE 220KV		25,798								25,798
4300	MET T/S REGION		131,348	14,696		258,105		103,541	439,317		947,007
4400	COASTAL T/S REGION	3,127	433,988	12,363		665,151	96,096	1,437,204	2,604,512		5,252,442
4500	EASTERN T/S REGION		78,929	809,824	521,935	305,790	933,117				2,649,594
4600	Northern T/S Region		1,987,424			445,993	129				2,433,546
4700	Eastern T/S Region	33,305	10,543	534,798		257,551		290,840	786,043		1,913,079
4799	HUMAN EXTERNAL CARGO TRAINING SITE		321,805		2,640,369		548,749				3,510,922
4800	VAR. TRANS. LINES-S/E DIV	2,931	48,457	740,608	559,885	1,145,743	1,226,842	3,783,979	6,890,890		14,399,335
4900	NORTHEASTERN T/S DIV.					1,551,239	205,618				1,756,857
		39,363	3,038,290	2,112,289	3,722,189	4,629,571	3,010,551	5,615,564	10,720,762	-	32,888,580

**Non 4xxx locns excluded from Study\***

1000	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1089	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1250	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1451	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1808	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1809	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1810	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1812	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1818	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1824	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1839	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1860	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study	232,241			84,727				316,967
1864	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study	181,545			96,210				277,755
1866	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study	253,332			92,249				345,581
1867	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study	854,373							854,373
1869	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1870	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
1999	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2150	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2202	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2211	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2212	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2229	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2230	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2234	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2236	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2237	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2238	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2239	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2300	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2301	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2303	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2305	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2307	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2309	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2313	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2314	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2315	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2317	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2318	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2319	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2324	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2325	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2326	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2327	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2328	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2331	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2500	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2501	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2503	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2510	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2512	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2514	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2522	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-
2523	Refer to Substation Study	Refer to Substation Study	Refer to Substation Study								-

EOY 2015  
CIRCUIT  
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**TRANSMISSION LINE COST BY**  
**OPERATING VOLTAGE / LOCATION NO.**  
**AS OF DECEMBER 31, 2015**

OPERATING VOLTAGE /		ACCOUNT NO.									
Location	Line Name	350	352	353	354	355	356	357	358	359	TOTAL
8954		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
8956		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9009		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9010		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9024		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9047		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9078		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9158		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9203		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9219		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9221		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9235		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study						46,570	46,570
9243		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9287		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9310		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study		(2,151)					(2,151)
9330		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9440		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9339		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9900		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-
9999		Refer to Substation Study	Refer to Substation Study	Refer to Substation Study							-

EOY 2015  
CIRCUIT  
MILES