

SOUTHERN CALIFORNIA EDISON COMPANY

Transmission/Distribution ISO Facilities Study

12-31-2018 Facilities

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Transmission

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
Land (Substation and Line)				
350	\$343,230,095	\$343,230,095	\$252,614,637	73.60%
Substation				
352	983,751,073	983,751,073	643,675,310	65.43%
353	6,072,137,167	6,072,137,167	3,459,763,553	56.98%
Total Substation	7,055,888,240	7,055,888,240	4,103,438,863	58.16%
Lines				
354	2,355,779,001	2,355,779,001	2,284,709,795	96.98%
355	1,500,195,881	1,500,195,881	386,542,291	25.77%
356	1,653,093,431	1,653,093,431	1,311,509,387	79.34%
357	271,487,039	271,487,039	190,891,202	70.31%
358	399,339,545	399,339,545	83,989,219	21.03%
359	195,497,058	195,497,058	173,783,603	88.89%
Total Lines	6,375,391,955	6,375,391,955	4,431,425,498	69.51%
Total Transmission	\$13,774,510,290	\$13,774,510,290	\$8,787,478,997	63.80%

Distribution

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
Land:				
360	\$126,028,197	\$126,028,197	-	0.00%
Structures:				
361	696,502,262	696,502,262	-	0.00%
362	2,727,819,402	2,727,819,402	-	0.00%
Total Structures	3,424,321,664	3,424,321,664	-	0.00%
Total Distribution	\$3,550,349,861	\$3,550,349,861	-	0.00%
Total Transmission & Distribution	\$17,324,860,151	\$17,324,860,152	\$8,787,478,997	50.72%

Southern California Edison Company

Summary of ISO Facility Gross Plant
High/Low Voltage Split
12-31-2018 Facilities
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TO2020 Draft Annual Update
Attachment 4
WP-Schedule 7
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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 Distributi	Total ISO Gross Plant	Land	Structures	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV
Transmission Lines:								
1000 kV T Lines	81,074,967	-	81,074,967	-	-	81,074,967	-	-
500 kV T Lines	2,572,155,033	124,558,705	2,447,596,328	124,558,705	-	2,447,596,328	-	-
230 kV T Lines	1,882,010,491	82,584,027	1,799,426,463	82,584,027	-	1,799,426,463	-	-
161 kV T Lines	3,139,418	33,310	3,106,108	-	33,310	-	3,106,108	-
115 kV T Lines	85,387,046	5,163,950	80,223,096	-	5,163,950	-	80,223,096	-
66 kV T Lines	9,009,256	226,190	8,783,066	-	226,190	-	8,783,066	-
55 kV T Lines	11,353,950	138,481	11,215,469	-	138,481	-	11,215,469	-
Total Transmission Lines	4,644,130,161	212,704,663	4,431,425,498	207,142,732	5,561,931	4,328,097,758	103,327,739	-
Substations:								
High Voltage Substations (750 kV, 500kV, 220kV)	3,635,804,186	39,571,602	3,596,232,583	39,571,602	-	3,596,232,583	-	-
Straddle Substations:								
Antelope	212,520,725	21,982	212,498,743	19,448	2,534	179,074,677	23,334,902	10,089,165
Bailey	41,401,971	111,063	41,290,908	54,160	56,903	17,430,916	18,313,612	5,546,380
Eagle Mountain	9,660,431	-	9,660,431	-	-	1,599,356	185,251	7,875,824
Kramer	43,842,096	38,992	43,803,104	26,657	12,335	20,843,449	9,644,832	13,314,823
Ivanpah	46,168,310	-	46,168,310	-	-	18,804,131	21,777,563	5,586,615
Victor	110,510,537	19,578	110,490,959	7,344	12,234	34,117,321	56,834,757	19,538,881
Total Straddle Substations	464,104,071	191,615	463,912,456	107,609	84,006	271,869,850	130,090,918	61,951,688
Low Voltage Substations (Less Than 220kV)	43,440,580	146,757	43,293,822.92	-	146,757	-	43,293,823	-
Total Substations	4,143,348,837	39,909,974	4,103,438,863	39,679,211	230,763	3,868,102,434	173,384,741	61,951,688
Total Lines and Substations	8,787,478,997	252,614,637	8,534,864,360	246,821,944	5,792,694	8,196,200,192	276,712,480	61,951,688
Plant Total by Account	8,787,478,997	252,614,637	8,534,864,360					

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	246,821,944	5,792,694	252,614,637
Structures	8,196,200,192	276,712,480	8,472,912,672
Total Determined HV/LV	8,443,022,135	282,505,174	8,725,527,309
Percentage:	96.76%	3.24%	100.00%
Transformers	59,945,887	2,005,801	61,951,688
Total HV & LV Gross Plant	8,502,968,022	284,510,975	8,787,478,997

Southern California Edison Company

Summary of ISO Facility Gross Plant

High/Low Voltage Mix Summary

12-31-2018 Facilities

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Facility:	Location #	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV	Total
220 kV Substations							
Antelope	5052	19,448	2,534	179,074,677	23,334,902	10,089,165	212,520,725
Bailey	5059	54,160	56,903	17,430,916	18,313,612	5,546,380	41,401,971
Eagle Mountain	5040	-	-	1,599,356	185,251	7,875,824	9,660,431
Ivanpah	8363	-	-	18,804,131	21,777,563	5,586,615	46,168,310
Kramer	5042 & 8046	26,657	12,335	20,843,449	9,644,832	13,314,823	43,842,096
Victor	8049	7,344	12,234	34,117,321	56,834,757	19,538,881	110,510,537
Total Straddle Stations		107,609	84,006	271,869,850	130,090,918	61,951,688	464,104,071

SOUTHERN CALIFORNIA EDISON COMPANY

Transmission/Distribution ISO Facilities Study 12-31-2018 Facilities

2018 Year-End				2017 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
Land (Substation and Line)									
350	343,230,095	252,614,637	73.6%	343,195,020	252,777,321	73.7%	35,075	(162,684)	-0.1%
Substation									
352	983,751,073	643,675,310	65.4%	879,621,910	569,698,023	64.8%	104,129,163	73,977,287	0.7%
353	6,072,137,167	3,459,763,553	57.0%	5,902,949,228	3,409,447,774	57.8%	169,187,939	50,315,779	-0.8%
Total Substation	7,055,888,240	4,103,438,863	58.2%	6,782,571,138	3,979,145,796	58.7%	273,317,102	124,293,066	-0.5%
Lines									
354	\$2,355,779,001	2,284,709,795	97.0%	2,343,145,352	2,283,380,922	97.4%	12,633,649	1,328,873	-0.5%
355	1,500,195,881	386,542,291	25.8%	1,292,702,467	364,424,080	28.2%	207,493,414	22,118,211	-2.4%
356	1,653,093,431	1,311,509,387	79.3%	1,524,531,167	1,245,933,686	81.7%	128,562,264	65,575,701	-2.4%
357	271,487,039	190,891,202	70.3%	256,348,021	190,222,489	74.2%	15,139,018	668,714	-3.9%
358	399,339,545	83,989,219	21.0%	376,710,004	84,920,374	22.5%	22,629,542	(931,155)	-1.5%
359	195,497,058	173,783,603	88.9%	193,773,411	172,640,885	89.1%	1,723,646	1,142,718	-0.2%
Total Lines	\$6,375,391,955	\$4,431,425,498	69.5%	5,987,210,422	4,341,522,436	72.5%	388,181,534	89,903,062	-3.0%
Total Transmission	13,774,510,290	8,787,478,997	63.8%	13,112,976,580	8,573,445,553	65.4%	661,533,710	214,033,444	-1.6%
Distribution	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total
Land:									
360	126,028,197	-	0.0%	125,242,449	-	0.0%	785,749	-	0.0%
Structures:									
361	696,502,262	-	0.0%	644,469,720	-	0.0%	52,032,542	-	0.0%
362	2,727,819,402	-	0.0%	2,539,477,720	-	0.0%	188,341,682	-	0.0%
Total Structures	3,424,321,664	-	0.0%	3,183,947,440	-	0.0%	240,374,224	-	0.0%
Total Distribution	3,550,349,861	-	0.0%	3,309,189,889	-	0.0%	241,159,972	-	0.0%
Total Transmission & Distribution	17,324,860,152	8,787,478,997	50.7%	16,422,166,469	8,573,445,553	52.2%	902,693,683	214,033,444	-1.5%

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

ISO Study Assumptions

The following assumptions have been made in completing this analysis.

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

12-31-2018 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	-	43,064	4,684,168	4,727,232	-	43,064	4,684,168	-	-	-
INYO	2570	220kV	-	287,755	4,197,276	4,485,032	-	287,755	4,197,276	-	-	-
METRO GOM MAINT	5001	500kV	-	-	31,531,834	31,531,834	-	-	31,531,834	-	-	-
HARBORGEN SUB	5019	220kV	-	18,729	3,991,930	4,010,659	-	18,729	3,991,930	-	-	-
EL SEGUNDO SWITCHCRACK SUB	5026	220kV	12,470	102,005	2,244,645	2,359,120	12,470	102,005	2,244,645	-	-	-
MIDWAY SUB	5032	500kV	-	396,679	190,211	586,890	-	396,679	190,211	-	-	-
PASTORIA SUB	5036	220kV	21,435	1,279,909	12,338,955	13,640,300	21,435	1,279,909	12,338,955	-	-	-
CLWTR SWITCHCRACKS 1,2	5044	115kV	-	-	1,476,690	1,476,690	-	-	1,476,690	-	-	-
MOHAVE SWITCHCRACK	5045	500kV	-	3,417,990	8,435,508	11,853,498	-	3,417,990	8,435,508	-	-	-
RANCHO VISTA SUB	5047	500kV	1,844,367	22,798,974	154,023,684	178,667,025	1,844,367	22,798,974	154,023,684	-	-	-
SYLMAR SUB	5058	220kV	-	19,757	1,948,141	1,967,898	-	19,757	1,948,141	-	-	-
LUGO SUB	5061	500kV	90,981	23,677,879	150,236,369	174,005,229	90,981	23,677,879	150,236,369	-	-	-
PISGAH SUB	5065	220kV	-	556,209	4,722,905	5,279,114	-	556,209	4,722,905	-	-	-
GENE SUB	5066	220kV	-	30,050	2,168,142	2,198,192	-	-	-	-	30,050	2,168,142
WINDHUB SUB	5079	500kV	1,231,926	31,901,425	211,759,754	244,893,104	1,095,247	28,362,052	188,265,609	136,679	3,539,373	23,494,145
SERRANO SUB	5080	500kV	1,226,475	28,476,678	193,625,629	223,328,782	1,226,475	28,476,678	193,625,629	-	-	-
LEWIS SUB	5089	220kV	1,444	192,580	5,383,835	5,577,859	1,444	192,580	5,383,835	-	-	-
EL DORADO SUB(NEVADA)	5090	500kV	13,183	35,514,014	196,185,875	231,713,072	13,183	35,514,014	196,185,875	-	-	-
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	-	1,782,300	45,897,215	47,679,515	-	1,782,300	45,897,215	-	-	-
EAST SERIES CAPACITORS 1	5094	500kV	-	857,212	8,323,790	9,181,002	-	857,212	8,323,790	-	-	-
PALO VERDE SWITCHCRACK SUB	5097	500kV	-	486,323	7,815,158	8,301,481	-	486,323	7,815,158	-	-	-
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	220kV	51,663	7,758,498	120,773,733	128,583,895	51,663	7,758,498	120,773,733	-	-	-
RP&AS,LND&ESMNT REQUIS	9219	220kV	8,633,706	45,883	-	8,679,589	8,633,706	45,883	-	-	-	-
EDISON ITAC	1451	Misc	-	-	35,855	35,855	-	-	-	-	-	35,855
SAN ONOFRE-COMMON 1,2,3	1808	220kV	-	-	-	-	-	-	-	-	-	-
SAN ONOFRE-COMMON 2,3	1809	220kV	-	-	-	-	-	-	-	-	-	-
SAN ONOFRE-UNIT 1	1810	220kV	-	-	-	-	-	-	-	-	-	-
SAN ONOFRE-UNIT 2	1812	220kV	-	-	-	-	-	-	-	-	-	-
SAN ONOFRE-UNIT 3	1818	220kV	-	-	-	-	-	-	-	-	-	-
SONGS 2,3 SPARE PARTS	1824	220kV	-	-	-	-	-	-	-	-	-	-
SONGS COMMON 2 & 3- (INC)	1839	220kV	-	-	-	-	-	-	-	-	-	-
PALOVERDE NUCL GEN PLT-U1	1860	500kV	-	-	2,597,299	2,597,299	-	-	-	-	-	2,597,299
PALO VERDE-UNIT 2	1864	500kV	-	-	2,488,614	2,488,614	-	-	-	-	-	2,488,614
PALO VERDE-UNIT 3	1866	500kV	-	-	5,007,636	5,007,636	-	-	-	-	-	5,007,636
PALOVERDE-COMMON 1,2,3	1867	500kV	7,766	-	2,722,616	2,730,382	-	-	-	7,766	-	2,722,616
MAMMOTH POOL LAKE-FP 2085	2150	220kV	-	-	24,016	24,016	-	-	-	-	-	24,016
BIG CREEK CANYON	2202	220kV	-	-	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	33kV & Below	-	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
KERN RIVER NO.1	2313	66kV	-	4,184	589,036	593,220	-	-	-	-	4,184	589,036
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	-	-	460,723	460,723	-	-	-	-	-	460,723
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	33kV & Below	-	-	705,804	705,804	-	-	-	-	-	705,804
MONO BASIN	2503	115kV	-	-	196,344	196,344	-	-	-	-	-	196,344
Lundy	2560 & 2510	55kV	-	317,627	5,816,830	6,134,457	-	-	-	-	317,627	5,816,830
POOLE	2512	33kV & Below	-	-	120,052	120,052	-	-	-	-	-	120,052
RUSH CREEK	2514	115kV	-	-	175,912	175,912	-	-	-	-	-	175,912
BISHOP CREEK NO.2	2522	55kV	-	-	80,487	80,487	-	-	-	-	-	80,487

SOUTHERN CALIFORNIA EDISON COMPANY

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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
BISHOP CREEK NO.3	2523	33kV & Below	-	-	1,841,377	1,841,377	-	-	-	-	-	1,841,377
BISHOP CREEK NO.4	2524	33kV & Below	-	-	86,641	86,641	-	-	-	-	-	86,641
BISHOP CREEK NO.5	2525	33kV & Below	-	-	43,037	43,037	-	-	-	-	-	43,037
BISHOP CREEK NO.6	2526	33kV & Below	-	-	39,098	39,098	-	-	-	-	-	39,098
FISH LAKE VALLEY METERING	2553	55kV	-	1,343	12,150	13,493	-	-	-	-	1,343	12,150
CASA DIABLO	2557	115kV	2,119	290,687	4,738,172	5,030,977	-	-	-	2,119	290,687	4,738,172
LEE VINING	2561	115kV	344	261,722	2,099,225	2,361,291	-	-	-	344	261,722	2,099,225
SHERWIN	2571	115kV	-	100,772	1,207,512	1,308,284	-	-	-	-	100,772	1,207,512
ZACK	2582	55kV	400,881	-	655,406	1,056,287	-	-	-	400,881	-	655,406
SKILAND (MAMMOTH LAKE) SUBSTATION	2587	33kV & Below	-	129,612	-	129,612	-	-	-	-	129,612	-
MT. TOM	2598	55kV	-	-	(230)	(230)	-	-	-	-	-	(230)
MINARET	2612	33kV & Below	-	-	-	-	-	-	-	-	-	-
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 SWITCHRACK 3,4 SUB	5046	220kV	48,136	156,227	3,179,929	3,384,292	-	-	-	48,136	156,227	3,179,929
ORMOND BCH SWITCHRACK SUB	5049	220kV	158,170	34,483	5,924,405	6,117,058	-	-	-	158,170	34,483	5,924,405
SAUGUS SUB	5051	66kV	13,373	5,436,194	76,074,367	81,523,934	-	-	-	13,373	5,436,194	76,074,367
CAMINO SUB	5068	220kV	-	12,697	4,246,840	4,259,537	-	-	-	-	12,697	4,246,840
VELASCO SUB	5072	220kV	-	-	155,442	155,442	-	-	-	-	-	155,442
HUNTINGTON BCH SWITCHRCK	5078	220kV	21,660	146,324	4,891,312	5,059,296	-	-	-	21,660	146,324	4,891,312
TRITON SUB	5095	115kV	2,415,092	2,377,770	26,471,314	31,264,177	-	-	-	2,415,092	2,377,770	26,471,314
ALHAMBRA SUB	5101	66kV	-	83,447	2,771,763	2,855,210	-	-	-	-	83,447	2,771,763
BANDINI SUB	5107	66kV	4,583	16,136	-	20,718	-	-	-	4,583	16,136	-
BICKNELL SUB	5109	33kV & Below	-	-	2,451	2,451	-	-	-	-	-	2,451
WABASH (NEW) SUB	5110	66kV	-	24,360	-	24,360	-	-	-	-	24,360	-
THUMSGEN SUBSTATION	5112	66kV	-	-	2,049	2,049	-	-	-	-	-	2,049
RUSH SUB	5116	66kV	-	-	-	-	-	-	-	-	-	-
FEDERALGEN SUB	5120	66kV	-	6,944	-	6,944	-	-	-	-	6,944	-
MONROVIA SUB	5134	33kV & Below	-	-	-	-	-	-	-	-	-	-
GENAMIC SUB	5139	66kV	-	5,739	-	5,739	-	-	-	-	5,739	-
ROSEMEAD SUB	5141	66kV	-	38,757	22	38,779	-	-	-	-	38,757	22
DUARTE SUB	5150	33kV & Below	-	-	-	-	-	-	-	-	-	-
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
REPETTO SUB	5164	66kV	-	17,757	-	17,757	-	-	-	-	17,757	-
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
VAIL SUB	5175	66kV	-	15,470	-	15,470	-	-	-	-	15,470	-
KIMBALL SUBSTATION	5176	66kV	-	-	-	-	-	-	-	-	-	-
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	-	16,955	31,589	48,544	-	-	-	-	16,955	31,589
DALTON SUB	5188	66kV	-	82,794	-	82,794	-	-	-	-	82,794	-
RAILROAD SUB	5196	66kV	-	57,470	-	57,470	-	-	-	-	57,470	-
ALHAMBRA DIST SUB TRG FAC	5198	66kV	-	25,705	2,046,562	2,072,267	-	-	-	-	25,705	2,046,562
BEVERLY HILLS SUB	5201	66kV	-	-	-	-	-	-	-	-	-	-
CULVER CITY SUB	5204	66kV	-	61,262	-	61,262	-	-	-	-	61,262	-
SEPULVEDA SUB	5207	66kV	-	41,604	-	41,604	-	-	-	-	41,604	-
HOWARD SUB	5210	66kV	-	-	17,431	17,431	-	-	-	-	-	17,431
INGLEWOOD SUB	5211	66kV	-	29,751	-	29,751	-	-	-	-	29,751	-
LENNOX SUB	5213	66kV	-	25,054	17,794	42,848	-	-	-	-	25,054	17,794
MADRID SUB	5215	33kV & Below	-	575	-	575	-	-	-	-	575	-
MANHATTAN SUB	5216	33kV & Below	-	10,762	-	10,762	-	-	-	-	10,762	-
MONETA SUB	5218	33kV & Below	-	16,856	-	16,856	-	-	-	-	16,856	-
OCEAN PARK SUB	5221	33kV & Below	-	4,164	-	4,164	-	-	-	-	4,164	-
PEARL SUB	5224	33kV & Below	-	14,955	-	14,955	-	-	-	-	14,955	-
BRIGHTON SUB	5226	66kV	-	3,804	-	3,804	-	-	-	-	3,804	-
REDONDO SUB	5227	33kV & Below	-	33,678	-	33,678	-	-	-	-	33,678	-
ROSECRANS SUB	5228	66kV	-	70,272	-	70,272	-	-	-	-	70,272	-
MOBILOIL SUB	5229	66kV	-	3,652	-	3,652	-	-	-	-	3,652	-
SANTA MONICA SUB	5231	66kV	-	19,278	-	19,278	-	-	-	-	19,278	-
WINDSOR HILLS SUB	5235	66kV	-	58,264	17,508	75,772	-	-	-	-	58,264	17,508
VALDEZ SUB	5236	66kV	-	-	24,710	24,710	-	-	-	-	-	24,710
LAWNDALE SUB	5238	33kV & Below	-	44,342	-	44,342	-	-	-	-	44,342	-

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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
CRATER SUB	5239	66kV	-	-	9,057	9,057	-	-	-	-	-	9,057
YUKON SUB	5241	66kV	4,415	-	-	4,415	-	-	-	4,415	-	-
COLORADO SUB	5242	66kV	-	40,180	-	40,180	-	-	-	-	40,180	-
TOPANGA SUB	5243	33kV & Below	-	-	-	-	-	-	-	-	-	-
DITMAR SUB	5246	66kV	-	8,978	-	8,978	-	-	-	-	8,978	-
SAWTELLE SUB	5250	66kV	-	70,183	-	70,183	-	-	-	-	70,183	-
ROLLING HILLS SUB	5252	66kV	-	27,085	-	27,085	-	-	-	-	27,085	-
HAVEDA SUB	5254	33kV & Below	-	30,118	-	30,118	-	-	-	-	30,118	-
LUNADA SUB	5255	33kV & Below	-	8,090	-	8,090	-	-	-	-	8,090	-
BRIDGE SUB	5257	66kV	-	14,957	-	14,957	-	-	-	-	14,957	-
STIRRUP SUB	5259	33kV & Below	-	14,955	-	14,955	-	-	-	-	14,955	-
COLOSSUS SUB	5260	66kV	-	-	7,141	7,141	-	-	-	-	-	7,141
SPACE SUB	5267	66kV	-	21,279	-	21,279	-	-	-	-	21,279	-
TOPAZ SUB	5268	66kV	-	29,219	-	29,219	-	-	-	-	29,219	-
TAHITI SUB	5271	66kV	-	23,749	-	23,749	-	-	-	-	23,749	-
LATIGO SUB	5272	66kV	-	-	-	-	-	-	-	-	-	-
STANHILL SUB	5273	66kV	-	-	0	0	-	-	-	-	-	0
GALAXY SUB	5274	66kV	-	8,898	-	8,898	-	-	-	-	8,898	-
MARYMOUNT SUB	5275	66kV	-	4,862	-	4,862	-	-	-	-	4,862	-
PALOGEN SUB	5282	66kV	-	42,738	-	42,738	-	-	-	-	42,738	-
BIG CREEK 2	5302	33kV & Below	-	-	1,018,533	1,018,533	-	-	-	-	-	1,018,533
DELANO SUB	5305	66kV	-	60,018	-	60,018	-	-	-	-	60,018	-
EARLIMART	5306	66kV	-	-	-	-	-	-	-	-	-	-
HAVILAH SUB	5311	66kV	-	-	-	-	-	-	-	-	-	-
LIBERTY SUB	5312	66kV	-	301,990	-	301,990	-	-	-	-	301,990	-
LAUREL SUB	5315	66kV	-	-	-	-	-	-	-	-	-	-
OCTOL SUB	5320	66kV	-	13,523	-	13,523	-	-	-	-	13,523	-
PIXLEY SUB	5321	66kV	-	18,619	-	18,619	-	-	-	-	18,619	-
POPLAR SUB	5322	66kV	-	-	-	-	-	-	-	-	-	-
STRATHMORE SUB	5325	66kV	-	-	14,882	14,882	-	-	-	-	-	14,882
VISALIA SUB	5331	66kV	-	35,561	-	35,561	-	-	-	-	35,561	-
WOODVILLE SUB	5333	66kV	-	15,418	74,641	90,058	-	-	-	-	15,418	74,641
GREENHORN SUB	5339	66kV	-	-	-	-	-	-	-	-	-	-
BOXWOOD SUB	5351	66kV	-	-	-	-	-	-	-	-	-	-
LINE CREEK SUB	5352	33kV & Below	-	-	31,030	31,030	-	-	-	-	-	31,030
KERNVILLE SUB	5356	66kV	-	-	-	-	-	-	-	-	-	-
RIVERWAY SUB	5374	66kV	801,825	-	-	801,825	-	-	-	801,825	-	-
MASCOT SUBSTATION	5375	66kV	573,588	-	-	573,588	-	-	-	573,588	-	-
CANWIND SUB	5405	66kV	-	-	9,895	9,895	-	-	-	-	-	9,895
ENWIND SUB	5406	66kV	-	11,023	29,527	40,550	-	-	-	-	11,023	29,527
MORWIND SUB	5409	66kV	-	-	6,367	6,367	-	-	-	-	-	6,367
FLOWIND SUB	5410	66kV	-	-	11,009	11,009	-	-	-	-	-	11,009
ARBWIND SUB	5411	66kV	-	-	6,186	6,186	-	-	-	-	-	6,186
SILVER PEAK SUB	5412	55kV	-	-	84,025	84,025	-	-	-	-	-	84,025
DUTCHWIND SUB	5414	66kV	-	11,023	7,801	18,824	-	-	-	-	11,023	7,801
OAKWIND SUB	5415	66kV	-	-	23,342	23,342	-	-	-	-	-	23,342
MIDWIND SUB	5424	66kV	-	-	23,000	23,000	-	-	-	-	-	23,000
CASITAS SUB	5504	66kV	-	-	(251)	(251)	-	-	-	-	-	(251)
CHANNEL ISLANDS SUB	5506	66kV	-	116,483	-	116,483	-	-	-	-	116,483	-
ORTEGA SUB	5507	66kV	-	-	30,102	30,102	-	-	-	-	-	30,102
FILLMORE SUB	5510	66kV	-	5,566	-	5,566	-	-	-	-	5,566	-
MODOC SUB	5520	33kV & Below	-	-	-	-	-	-	-	-	-	-
OJAI SUB	5526	66kV	-	13,050	-	13,050	-	-	-	-	13,050	-
SANTA BARBARA SUB	5531	66kV	-	40,153	-	40,153	-	-	-	-	40,153	-
CHARMIN SUB	5535	66kV	-	-	27,327	27,327	-	-	-	-	-	27,327
VENTURA SUB	5538	33kV & Below	-	52,076	-	52,076	-	-	-	-	52,076	-
ELIZABETH LAKE SUB	5546	66kV	-	-	3,072	3,072	-	-	-	-	-	3,072
CORUM SUB	5547	66kV	-	-	-	-	-	-	-	-	-	-
NEWBURY SUB	5557	66kV	-	-	692,110	692,110	-	-	-	-	-	692,110
GRISWOLD SUB	5562	33kV & Below	-	-	-	-	-	-	-	-	-	-
PLAYA SUB	5565	33kV & Below	-	-	-	-	-	-	-	-	-	-
VEGAS SUB	5570	66kV	5,801	-	-	5,801	-	-	-	5,801	-	-
GAVIOTA SUB	5572	66kV	-	-	118,097	118,097	-	-	-	-	-	118,097
NEWHALL SUB	5576	66kV	-	-	413,802	413,802	-	-	-	-	-	413,802
POTRERO SUB	5597	66kV	-	-	-	-	-	-	-	-	-	-
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	-

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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
DECLIZ SUB	5615	66kV	-	-	23,032	23,032	-	-	-	-	-	23,032
FLANCO SUB	5616	33kV & Below	-	22,342	-	22,342	-	-	-	-	22,342	-
FIREHOUSE SUB	5618	66kV	-	6,520	-	6,520	-	-	-	-	6,520	-
HUSTON SUB	5621	33kV & Below	-	45,573	-	45,573	-	-	-	-	45,573	-
NORCO SUB	5624	33kV & Below	-	66,934	-	66,934	-	-	-	-	66,934	-
PEDLEY SUB	5626	66kV	-	22,868	-	22,868	-	-	-	-	22,868	-
TENNESSEE SUB	5628	66kV	-	44,558	-	44,558	-	-	-	-	44,558	-
REDLANDS SUB	5629	66kV	-	29,558	21,359	50,917	-	-	-	-	29,558	21,359
SAN ANTONIO SUB	5631	66kV	-	-	7,606	7,606	-	-	-	-	-	7,606
SAN DIMAS SUB	5633	66kV	-	19,651	-	19,651	-	-	-	-	19,651	-
UPLAND SUB	5635	66kV	-	21,532	-	21,532	-	-	-	-	21,532	-
YUCAIPA SUB	5636	66kV	-	31,005	-	31,005	-	-	-	-	31,005	-
FRANCIS SUB	5639	66kV	-	59,194	-	59,194	-	-	-	-	59,194	-
LAYFAIR SUB	5645	66kV	-	2,166	-	2,166	-	-	-	-	2,166	-
COLTON CEMENT SUB	5646	66kV	-	43,167	-	43,167	-	-	-	-	43,167	-
LINDE AIR SUB	5650	66kV	-	15,935	-	15,935	-	-	-	-	15,935	-
AMERON SUB	5652	66kV	-	-	531,131	531,131	-	-	-	-	-	531,131
REDUCTION SUB	5654	66kV	-	34,835	-	34,835	-	-	-	-	34,835	-
NOGALES SUB	5655	66kV	-	16,835	525,170	542,005	-	-	-	-	16,835	525,170
BAIN SUB	5656	66kV	-	704	-	704	-	-	-	-	704	-
PIPE SUB	5658	66kV	-	32,989	-	32,989	-	-	-	-	32,989	-
ARCHIBALD SUB	5659	66kV	-	-	206,393	206,393	-	-	-	-	-	206,393
RUNNING SPRINGS SUB	5661	33kV & Below	-	31,398	-	31,398	-	-	-	-	31,398	-
WIMBLEDON SUB	5664	66kV	-	1,282	17,343	18,626	-	-	-	-	1,282	17,343
ARCHLINE SUB	5667	66kV	-	12,856	-	12,856	-	-	-	-	12,856	-
CRESTMORE SUB	5668	66kV	-	14,975	-	14,975	-	-	-	-	14,975	-
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	-
DIAMOND BAR SUB	5680	66kV	-	-	49,398	49,398	-	-	-	-	-	49,398
CUDAHY SUB	5714	66kV	-	32,033	-	32,033	-	-	-	-	32,033	-
FRUITLAND SUB	5718	66kV	-	12,712	-	12,712	-	-	-	-	12,712	-
FREEMONT SUB	5720	66kV	-	6,957	-	6,957	-	-	-	-	6,957	-
HATHAWAY SUB	5726	66kV	-	21,380	-	21,380	-	-	-	-	21,380	-
ATHENS SUBSTATION	5727	33kV & Below	-	-	-	-	-	-	-	-	-	-
NAPLES SUBSTATION	5740	33kV & Below	-	-	114,340	114,340	-	-	-	-	-	114,340
SOMERSET SUBSTATION	5754	66kV	-	33,691	-	33,691	-	-	-	-	33,691	-
WATSON SUBSTATION	5758	66kV	-	-	3,790	3,790	-	-	-	-	-	3,790
DAISY SUBSTATION	5766	33kV & Below	-	12,646	-	12,646	-	-	-	-	12,646	-
DAVIDSON CITY	5779	33kV & Below	-	6,957	-	6,957	-	-	-	-	6,957	-
HEDDA SUB	5784	33kV & Below	-	-	-	-	-	-	-	-	-	-
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	-	1,963	17,658	19,621	-	-	-	-	1,963	17,658
VERA SUBSTATION	5801	66kV	-	-	-	-	-	-	-	-	-	-
CHIUQUITA SUBSTATION	5811	66kV	-	-	58,207	58,207	-	-	-	-	-	58,207
MURPHY SUB	5812	66kV	-	20,469	-	20,469	-	-	-	-	20,469	-
CARMENITA SUBSTATION	5814	66kV	-	14,314	146,427	160,741	-	-	-	-	14,314	146,427
PARKWOOD SUBSTATION	5816	66kV	-	93,280	-	93,280	-	-	-	-	93,280	-
WAVE SUBSTATION	5828	66kV	-	-	-	-	-	-	-	-	-	-
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	-	423,768	1,592,773	2,016,541	-	-	-	-	423,768	1,592,773
SANTA ANA SUBSTATION	5849	33kV & Below	-	6,882	-	6,882	-	-	-	-	6,882	-
TALBERT SUB	5853	66kV	-	-	24,273	24,273	-	-	-	-	-	24,273
ALTON SUBSTATION	5860	66kV	241,262	-	-	241,262	-	-	-	241,262	-	-
SULLIVAN SUBSTATION	5862	66kV	-	-	230,879	230,879	-	-	-	-	-	230,879
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	-	-	-	-	-	-	-	-	-	-
TUSTIN SUBSTATION	5878	66kV	11,308	-	-	11,308	-	-	-	11,308	-	-
PIONEER SUB	5886	66kV	-	6,944	-	6,944	-	-	-	-	6,944	-
BORREGO SUBSTATION	5887	66kV	-	-	-	-	-	-	-	-	-	-
TELEGRAPH SUB	5892	66kV	-	12,346	96,987	109,334	-	-	-	-	12,346	96,987
PASSONS SUB	5893	66kV	-	3,215	-	3,215	-	-	-	-	3,215	-
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	-	-	-	-	-	-	-	-	-	-
RIALTO COMB FAC. BLDG B&C	6011	Div Offices & Misc	-	2,770	-	2,770	-	-	-	-	2,770	-

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353 TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350	A/C 352	A/C 353		A/C 350	A/C 352	A/C 353	A/C 350	A/C 352	A/C 353
			Land & Land Rights	Structures & Improvements	Station Equipment		Land & Land Rights	Structures & Improvements	Station Equipment	Land & Land Rights	Structures & Improvements	Station Equipment
CENTRAL ORANGE COUNTY DIS	6029	33kV & Below	-	-	-	-	-	-	-	-	-	-
IMPERIAL COUNTY	7013	115kV	-	-	1,702	1,702	-	-	-	-	-	1,702
ROADWAY(CEP)	8000	115kV	110,643	741,715	12,982,651	13,835,009	18,353	118,739	2,157,862	92,289	622,976	10,824,789
PAUBA(CEP) SUB	8003	115kV	106,825	764,114	8,411,110	9,282,048	-	-	-	106,825	764,114	8,411,110
THORNHILL(CEP) SUB	8004	115kV	25,609	996,193	9,379,205	10,401,007	-	-	-	25,609	996,193	9,379,205
STADLER(CEP) SUB	8005	115kV	139,611	786,164	11,193,383	12,119,158	-	-	-	139,611	786,164	11,193,383
PAN AERO (CEP) SUB	8009	115kV	-	-	641,248	641,248	-	-	-	-	-	641,248
PHELAN(CEP) SUB	8010	115kV	154,446	751,072	7,063,296	7,968,813	-	-	-	154,446	751,072	7,063,296
BANWIND SUBSTATION	8011	115kV	-	-	32,028	32,028	-	-	-	-	-	32,028
APPLE VALLEY(CEP) SUB	8013	115kV	-	1,389,452	10,366,982	11,756,434	-	-	-	-	1,389,452	10,366,982
BUNKER(CEP) SUB	8014	115kV	969,397	1,477,013	15,118,416	17,564,826	-	-	-	969,397	1,477,013	15,118,416
FARREL(CEP) SUB	8016	115kV	-	663,093	12,051,464	12,714,556	-	-	-	-	663,093	12,051,464
CONCHO(CEP) SUB	8017	115kV	285,201	672,863	9,265,159	10,223,223	-	-	-	285,201	672,863	9,265,159
AULD(CEP) SUB	8018	115kV	83,538	1,177,450	18,314,311	19,575,299	-	-	-	83,538	1,177,450	18,314,311
MAXWELL(CEP) SUB	8019	115kV	33,940	479,789	8,777,447	9,291,177	-	-	-	33,940	479,789	8,777,447
SAVAGE(CEP) SUB	8020	115kV	29,280	1,477,177	15,652,689	17,159,146	-	-	-	29,280	1,477,177	15,652,689
PEPPER(CEP) SUB	8021	115kV	17,579	483,962	10,204,080	10,705,621	-	-	-	17,579	483,962	10,204,080
YUCCA(CEP) SUB	8022	115kV	19,474	645,122	11,737,770	12,402,367	-	-	-	19,474	645,122	11,737,770
BLACK MOUNTAIN(CEP) SUB	8023	115kV	-	12,014	912,016	924,029	-	-	-	-	12,014	912,016
ALESSANDRO(CEP) SUB	8024	115kV	45,514	2,703,528	23,621,759	26,370,801	-	-	-	45,514	2,703,528	23,621,759
BAKER(CEP) SUB	8025	115kV	-	211,976	2,793,347	3,005,323	-	-	-	-	211,976	2,793,347
BANNING(CEP) SUB	8026	115kV	20,210	1,557,931	16,216,180	17,794,321	-	-	-	20,210	1,557,931	16,216,180
COTTONWOOD(CEP) SUB	8027	115kV	22,426	1,796,115	11,231,874	13,050,416	-	-	-	22,426	1,796,115	11,231,874
EDWARDS(CEP) SUB	8028	115kV	-	37,679	2,862,027	2,899,706	-	-	-	-	37,679	2,862,027
HI DESERT(CEP) SUB	8029	115kV	1,154,541	1,724,370	19,974,853	22,853,764	-	-	-	1,154,541	1,724,370	19,974,853
MOUNTAIN PASS(CEP) SUB	8030	115kV	70,286	26,523	4,666,603	4,763,412	-	-	-	70,286	26,523	4,666,603
RANDBURG(CEP) SUB	8031	115kV	116	337,116	6,015,296	6,352,528	-	-	-	116	337,116	6,015,296
ROCKET TEST(CEP) SUB	8032	115kV	-	18,045	283,935	301,980	-	-	-	-	18,045	283,935
SEARLES(CEP) SUB	8033	115kV	-	361,473	6,359,540	6,721,013	-	-	-	-	361,473	6,359,540
ZANJA(CEP) SUB	8035	115kV	152,559	1,663,455	10,118,084	11,934,099	-	-	-	152,559	1,663,455	10,118,084
SANTA ROSA(CEP) SUB	8036	115kV	44,689	464,965	21,490,547	22,000,201	-	-	-	44,689	464,965	21,490,547
NELSON(CEP) SUB	8038	115kV	22,819	712,388	14,308,425	15,043,633	-	-	-	22,819	712,388	14,308,425
HOMART(CEP) SUB	8039	115kV	174,875	425,577	5,358,686	5,959,138	-	-	-	174,875	425,577	5,358,686
HOLGATE(CEP) SUB	8041	115kV	27,167	347,967	3,252,416	3,627,549	-	-	-	27,167	347,967	3,252,416
CALECTRIC SUB (CEP)	8042	115kV	27,870	2,639,595	22,394,503	25,061,968	-	-	-	27,870	2,639,595	22,394,503
GARNET SUB	8044	115kV	38,081	1,730,514	13,014,415	14,783,010	-	-	-	38,081	1,730,514	13,014,415
IID TIE SUB	8045	115kV	39,144	-	23,873	63,017	-	-	-	39,144	-	23,873
TIEFORT SUB	8047	115kV	-	218,704	1,530,163	1,748,867	-	-	-	-	218,704	1,530,163
USNR BLYTHE SUB	8048	161kV	-	64,707	7,818,707	7,883,414	-	-	-	-	64,707	7,818,707
SN ONOFRE SWTHRK-100%SC	8055	220kV	-	1,629,530	10,597,913	12,227,444	-	-	-	-	1,629,530	10,597,913
PUREWATER SUB	8059	115kV	-	175,506	1,357,312	1,532,818	-	-	-	-	175,506	1,357,312
WHIRLWIND SUB	8060	500kV	-	36,283,394	188,631,986	224,915,381	-	36,283,394	188,631,986	-	-	-
SEAWIND T/S	8061	115kV	2,976	463	312,727	316,166	-	-	-	2,976	463	312,727
TIFFANYWIND SUB	8064	115kV	-	-	11,459	11,459	-	-	-	-	-	11,459
NUSED GALE	8067	115kV	-	-	-	-	-	-	-	-	-	-
CARODEAN	8072	115kV	-	562,701	10,062,252	10,624,953	-	-	-	-	562,701	10,062,252
IVYGLEN SUB	8073	115kV	166,697	1,117,641	9,458,907	10,743,246	-	-	-	166,697	1,117,641	9,458,907
COOL WATER SWITCHCRACK 1,2	8074	220kV	-	61,762	1,927,048	1,988,809	-	-	-	-	61,762	1,927,048
HIGHGROVE SWITCHCRCK	8075	115kV	7,139	178,624	2,016,862	2,202,624	-	-	-	7,139	178,624	2,016,862
SUN CITY(NEW)	8078	115kV	119,513	1,887,934	7,918,228	9,925,674	-	-	-	119,513	1,887,934	7,918,228
AQUEDUCT SUB	8079	115kV	2,880	925,853	10,582,220	11,510,953	-	-	-	2,880	925,853	10,582,220
MENTONE SUB	8082	115kV	161,883	788,697	7,266,910	8,217,490	-	-	-	161,883	788,697	7,266,910
HIGHWIND SUB	8084	220kV	-	5,712,271	4,035,892	9,748,163	-	5,712,271	4,035,892	-	-	-
CAJALCO SUB	8086	115kV	25,836	950,321	11,577,227	12,553,385	-	-	-	25,836	950,321	11,577,227
HESPERIA SUB	8087	115kV	22,150	397,908	7,916,357	8,336,415	-	-	-	22,150	397,908	7,916,357
SKYLARK SUB	8088	115kV	81,206	403,653	9,802,640	10,287,498	-	-	-	81,206	403,653	9,802,640
MAYBERRY SUB	8089	115kV	23,090	444,857	13,745,284	14,213,231	-	-	-	23,090	444,857	13,745,284
PERMANENTE SUB	8090	115kV	-	-	87,113	87,113	-	-	-	-	-	87,113
ELCENTRO TELEMETERING	8091	161kV	-	-	15,844	15,844	-	-	-	-	-	15,844
NILAND TELEMETERING	8092	161kV	-	-	6,807	6,807	-	-	-	-	-	6,807
SHANDIN SUB	8093	115kV	42,272	750,747	11,189,236	11,982,255	-	-	-	42,272	750,747	11,189,236
ARROWHEAD SUB	8094	115kV	-	442,875	5,489,263	5,932,138	-	-	-	-	442,875	5,489,263
STETSON SUB	8095	115kV	23,493	718,412	7,918,884	8,660,789	-	-	-	23,493	718,412	7,918,884
MARSCHINO SUB	8096	115kV	27,809	1,611,970	9,532,365	11,172,145	-	-	-	27,809	1,611,970	9,532,365
DUNN SIDING SUB	8097	115kV	4,913	99,723	722,246	826,882	-	-	-	4,913	99,723	722,246
EISENHOWER SUB	8098	115kV	189,886	812,071	12,175,309	13,177,266	-	-	-	189,886	812,071	12,175,309
TAMARISK SUB	8099	115kV	125,967	379,583	12,561,144	13,066,694	-	-	-	125,967	379,583	12,561,144
AMARGO SUB	8102	33kV & Below	-	-	-	-	-	-	-	-	-	-
FARRELL SUB	8104	115kV	-	-	-	-	-	-	-	-	-	-

SOUTHERN CALIFORNIA EDISON COMPANY

12-31-2018 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
BARSTOW SUB	8110	33kV & Below	-	6,894	59,447	66,341	-	-	-	-	6,894	59,447
BLYTHE SUB	8113	33kV & Below	-	22,511	440,016	462,527	-	-	-	-	22,511	440,016
BRYMAN SUB	8117	33kV & Below	-	-	7,083	7,083	-	-	-	-	-	7,083
CADY SUB	8119	33kV & Below	-	13,561	-	13,561	-	-	-	-	13,561	-
MILITARY SUB	8120	33kV & Below	-	15,598	-	15,598	-	-	-	-	15,598	-
CANTIL SUB	8121	33kV & Below	-	-	7,293	7,293	-	-	-	-	-	7,293
CATHEDRAL CITY SUB	8123	33kV & Below	-	9,939	-	9,939	-	-	-	-	9,939	-
CAL CITY SUB	8132	33kV & Below	-	6,894	-	6,894	-	-	-	-	6,894	-
DESERT OUTPOST SUB	8136	33kV & Below	-	13,544	-	13,544	-	-	-	-	13,544	-
DOWNES SUB	8137	115kV	82,401	5,781,510	17,032,878	22,896,788	-	-	-	82,401	5,781,510	17,032,878
EAST BARSTOW SUB	8140	33kV & Below	-	12,855	-	12,855	-	-	-	-	12,855	-
FOREST HOME SUB	8148	33kV & Below	-	15,135	-	15,135	-	-	-	-	15,135	-
GLEN IVY SUB	8152	33kV & Below	-	15,642	27,225	42,866	-	-	-	-	15,642	27,225
EL SOBRANTE SUB	8159	33kV & Below	-	4,126	-	4,126	-	-	-	-	4,126	-
HARVARD SUB	8161	33kV & Below	-	-	8,458	8,458	-	-	-	-	-	8,458
HELENDAL SUB	8163	33kV & Below	-	15,110	81,054	96,165	-	-	-	-	15,110	81,054
INYO KERN TOWN SUB	8170	33kV & Below	-	-	7,735	7,735	-	-	-	-	-	7,735
JOSHUA TREE SUB	8172	33kV & Below	-	9,177	-	9,177	-	-	-	-	9,177	-
Lakeview	8179	115kV	1,488,305	-	-	1,488,305	-	-	-	1,488,305	-	-
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	115kV	104,923	760,685	5,212,267	6,077,876	-	-	-	104,923	760,685	5,212,267
MURRIETA 2 SUB	8195	33kV & Below	-	-	21,911	21,911	-	-	-	-	-	21,911
MURRIETA SUB	8196	66kV	-	-	-	-	-	-	-	-	-	-
SOUTHCAP SUB.	8197	115kV	-	-	942,250	942,250	-	-	-	-	-	942,250
MUSCOY SUB	8198	33kV & Below	-	-	132,416	132,416	-	-	-	-	-	132,416
BELDING SUB	8204	33kV & Below	-	42,109	-	42,109	-	-	-	-	42,109	-
NORTH MUROC SUB	8206	33kV & Below	-	-	-	-	-	-	-	-	-	-
HOLIDAY SUB	8207	33kV & Below	-	19,356	-	19,356	-	-	-	-	19,356	-
OLIVE LAKE SUB	8210	33kV & Below	-	558	-	558	-	-	-	-	558	-
ORDWAY SUB	8211	33kV & Below	-	15,610	-	15,610	-	-	-	-	15,610	-
ORO GRANDE SUB	8212	33kV & Below	-	-	7,994	7,994	-	-	-	-	-	7,994
PALM CANYON SUB	8214	33kV & Below	-	30,644	-	30,644	-	-	-	-	30,644	-
PEERLESS SUB	8216	33kV & Below	-	-	7,635	7,635	-	-	-	-	-	7,635
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
RUBIDOUX SUB	8231	33kV & Below	-	6,317	-	6,317	-	-	-	-	6,317	-
SAN JACINTO SUB	8234	33kV & Below	-	-	-	-	-	-	-	-	-	-
SILVER SPUR SUB	8238	33kV & Below	-	8,994	-	8,994	-	-	-	-	8,994	-
SUNNY DUNES SUB	8244	33kV & Below	-	13,259	-	13,259	-	-	-	-	13,259	-
TEMESCAL SUB	8250	33kV & Below	-	-	4,236	4,236	-	-	-	-	-	4,236
THUNDERBIRD SUB	8251	33kV & Below	-	-	-	-	-	-	-	-	-	-
TRONA SUB	8252	33kV & Below	-	6,499	7,864	14,362	-	-	-	-	6,499	7,864
TWENTYNINE PALMS SUB	8255	33kV & Below	-	11,480	-	11,480	-	-	-	-	11,480	-
VICTORVILLE SUB	8260	33kV & Below	-	18,135	22,159	40,294	-	-	-	-	18,135	22,159
PEREZ SUB	8263	33kV & Below	-	29,219	-	29,219	-	-	-	-	29,219	-
WILDE SUB	8267	33kV & Below	-	-	-	-	-	-	-	-	-	-
YERMO SUB	8268	33kV & Below	-	23,195	-	23,195	-	-	-	-	23,195	-
TENAJA SUBSTATION	8270	115kV	-	-	21,919	21,919	-	-	-	-	-	21,919
IRON MT SCE	8273	33kV & Below	-	8,651	-	8,651	-	-	-	-	8,651	-
CORONA SUB	8279	66kV	-	5,855	-	5,855	-	-	-	-	5,855	-
GALE SUB	8283	115kV	-	9,848	5,876,497	5,886,345	-	-	-	-	9,848	5,876,497
GOLD HILL SUB	8294	33kV & Below	-	6,894	-	6,894	-	-	-	-	6,894	-
TORTILLA SUB	8295	115kV	-	48,114	-	48,114	-	-	-	-	48,114	-
BUCKWIND	8301	115kV	-	25,208	751,981	777,189	-	-	-	-	25,208	751,981
CAPWIND	8302	115kV	-	29,827	78,542	108,369	-	-	-	-	29,827	78,542
RENWIND	8303	115kV	-	15,102	827,522	842,625	-	-	-	-	15,102	827,522
SANWIND	8304	115kV	-	-	371,041	371,041	-	-	-	-	-	371,041
TRANSWIND	8305	115kV	-	25,366	1,061,136	1,086,501	-	-	-	-	25,366	1,061,136
VENWIND	8306	115kV	-	21,039	2,287,437	2,308,477	-	-	-	-	21,039	2,287,437
ALTWIND	8308	115kV	-	1,022	25,028	26,050	-	-	-	-	1,022	25,028
TERAWIND	8310	115kV	-	5,398	226,460	231,859	-	-	-	-	5,398	226,460
INDIGO SUBSTATION	8311	115kV	-	4,899	229,185	234,084	-	-	-	-	4,899	229,185
CALGEN	8312	115kV	532	1,600	12,970	15,102	-	-	-	532	1,600	12,970
MCGEN	8314	115kV	-	112,388	2,464,391	2,576,779	-	-	-	-	112,388	2,464,391
SEGS II	8320	115kV	-	-	45,594	45,594	-	-	-	-	-	45,594
SEGS III	8321	115kV	-	-	11,755	11,755	-	-	-	-	-	11,755

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
SEGS IV	8322	115kV	-	-	41,025	41,025	-	-	-	-	-	41,025
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	1,223,085	10,876,324	12,150,580	-	-	-	51,172	1,223,085	10,876,324
ELSI NORE	8343	115kV	20,961	1,295,575	16,173,022	17,489,557	-	-	-	20,961	1,295,575	16,173,022
SOUTH BASE SUB	8344	115kV	12,179	143,764	2,017,154	2,173,097	-	-	-	12,179	143,764	2,017,154
INDIAN WELLS SUB	8345	115kV	222,600	930,666	12,795,164	13,948,430	-	-	-	222,600	930,666	12,795,164
PECHANGA SUB	8347	115kV	560,579	844,656	11,267,214	12,672,449	-	-	-	560,579	844,656	11,267,214
MORAGA	8348	115kV	40,720	307,859	17,249,030	17,597,609	-	-	-	40,720	307,859	17,249,030
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	1,098,304	1,103,474	-	-	-	-	5,170	1,098,304
MOUNTWIND SUBSTATION	8359	115kV	-	-	53,698	53,698	-	-	-	-	-	53,698
COSO SUB	8361	115kV	91,119	1,641,131	4,788,019	6,520,269	-	-	-	91,119	1,641,131	4,788,019
MOVAL SUBSTATION	8362	115kV	-	128,640	491,674	620,314	-	-	-	-	128,640	491,674
SANDLOT SUB	8370	220kV	-	790,436	4,014,371	4,804,806	-	-	-	-	790,436	4,014,371
PRIMM SUBSTATION	8372	220kV	-	11,876,358	19,288,758	31,165,116	-	11,876,358	19,288,758	-	-	-
BLAST SUBSTATION	8373	115kV	-	471,546	69,402	540,949	-	-	-	-	471,546	69,402
PHARMACY SUBSTATION	8509	66kV	-	-	43,289	43,289	-	-	-	-	-	43,289
GLOW SUBSTATION	8511	66kV	-	-	128,972	128,972	-	-	-	-	-	128,972
PLASTER SUBSTATION	8558	66kV	4,671	-	-	4,671	-	-	-	4,671	-	-
ONEIL SUBSTATION	8810	66kV	1,188,142	-	-	1,188,142	-	-	-	1,188,142	-	-
EAST TRANSITION	8860	500kV	-	8,110,556	7,540,227	15,650,783	-	8,110,556	7,540,227	-	-	-
MWD EASTSIDE RES	8956	115kV	-	-	-	-	-	-	-	-	-	-
WEST TRANSITION	8960	500kV	-	9,080,689	5,795,943	14,876,632	-	9,080,689	5,795,943	-	-	-
CONSTR FIELD FORCES	9009	Div Offices & Misc	-	-	527,316	527,316	-	-	-	-	-	527,316
TRANS/SUB SUPPORT SERV	9047	Div Offices & Misc	-	-	74,775,490	74,775,490	-	-	-	-	-	74,775,490
INFO TECH-GO2	9077	Div Offices & Misc	-	-	-	-	-	-	-	-	-	-
GENERAL OFFICE #5 - GO5	9201	Div Offices & Misc	-	-	-	-	-	-	-	-	-	-
PROP SVCS-SN GBRL VAL REG	9285	Div Offices & Misc	-	-	-	-	-	-	-	-	-	-
REAL PROP-LAND SVCS-STHRN	9287	Misc	-	12,869	-	12,869	-	-	-	-	12,869	-
ALHAMBRA COMM SITE	9300	Misc	-	-	9,775	9,775	-	-	-	-	-	9,775
TELCOMM-ALHAMBRA	9310	Misc	327,844	-	-	327,844	-	-	-	327,844	-	-
WESTMINSTER FENWICK BLDG	9440	Div Offices & Misc	-	8,929	-	8,929	-	-	-	-	8,929	-
TELECOMM BUSINESS VENTURE	9597	Div Offices & Misc	-	-	-	-	-	-	-	-	-	-
PLANT ACCTG-MISC. LEDGER	9900	Div Offices & Misc	631	-	-	631	-	-	-	631	-	-
CUMMINGS SUB	5357	66kV	-	-	111,576	111,576	-	-	-	-	-	111,576
MONOLITH SUB	5358	66kV	-	234	1,261,397	1,261,631	-	-	-	-	234	1,261,397
ACTON SUB	5365	66kV	24,167	-	15,396,76	39,564	-	-	-	24,167	-	15,397
DEL SUR SUB	5508	66kV	-	-	424,747	424,747	-	-	-	-	-	424,747
GOLDTOWN SUB	5511	66kV	-	-	526,259	526,259	-	-	-	-	-	526,259
LANCASTER SUB	5514	66kV	-	-	1,071,949	1,071,949	-	-	-	-	-	1,071,949
LITTLE ROCK SUB	5518	66kV	-	-	1,690,353	1,690,353	-	-	-	-	-	1,690,353
SHUTTLE SUB	5522	66kV	-	-	911,750	911,750	-	-	-	-	-	911,750
REDMAN WUB	5530	66kV	-	-	299,056	299,056	-	-	-	-	-	299,056
ANAVERDE SUB	5539	66kV	-	-	76,359	76,359	-	-	-	-	-	76,359
ROSAMOND SUB	5541	66kV	-	-	658,870	658,870	-	-	-	-	-	658,870
PIUTE SUB	5545	66kV	-	11,023	149,257	160,280	-	-	-	-	11,023	149,257
OASIS SUB	5548	66kV	-	-	397,008	397,008	-	-	-	-	-	397,008
CAL CEMENT SUB	5553	66kV	-	15,551	367,757	383,308	-	-	-	-	15,551	367,757
PALMDALE SUB	5564	66kV	-	-	603,424	603,424	-	-	-	-	-	603,424
QUARTZ HILL SUB	5566	66kV	-	11,023	220,467	231,490	-	-	-	-	11,023	220,467
HELLJET 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	9,196,246	9,460,657	-	113,335	3,930,439	-	151,077	5,265,807
BIG CREEK NO.8	2229	220kV	-	282,649	3,159,148	3,441,797	-	271,730	3,037,106	-	10,919	122,042
BIG CREEK NO.3	2230	220kV	-	2,536,133	18,221,270	20,757,403	-	2,159,010	15,511,762	-	377,124	2,709,508
CONTROL STATION	2556	115kV	-	1,598,259	15,357,249	16,955,508	-	1,338,100	13,225,143	-	260,159	2,132,106
T.M. GOODRICH SUB-PASADEN	5010	220kV	-	643,112	35,398	678,511	-	643,112	35,398	-	-	-
EAGLE ROCK SUB	5011	220kV	19,613	4,889,184	34,587,216	39,496,013	3,697	920,843	6,520,499	15,916	3,968,342	28,066,717
MESA SUB	5012	220kV	2,031,347	10,373,614	56,262,058	68,667,019	795,139	4,088,318	21,995,178	1,236,208	6,285,297	34,266,880
RIO HONDO SUB	5013	220kV	457,530	8,478,042	79,711,008	88,646,579	112,803	2,090,253	19,652,667	344,726	6,387,789	60,058,340
WALNUT SUB	5014	220kV	97,955	5,107,760	34,639,105	39,844,820	6,386	332,970	2,258,087	91,569	4,774,791	32,381,018
GOULD SUB	5015	220kV	29,300	1,468,803	32,613,875	34,111,978	10,549	528,817	11,742,067	18,751	939,985	20,871,807

SOUTHERN CALIFORNIA EDISON COMPANY

12-31-2018 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
DRYCREEK WIND SUB	5018	220kV	-	(0)	0	-	-	(0)	0	-	-	-
LA FRESA SUB	5021	220kV	101,370	5,951,629	95,497,329	101,550,327	16,100	939,894	15,172,821	85,270	5,011,734	80,324,508
EL NIDO SUB	5023	220kV	285,620	13,153,933	48,175,257	61,614,809	99,252	5,731,867	15,579,754	186,368	7,422,066	32,595,503
LA CIENEGA SUB	5024	220kV	2,100,227	5,582,007	44,174,047	51,856,281	650,675	1,729,370	13,685,631	1,449,552	3,852,637	30,488,417
ALAMITOS SWITCHRACK SUB	5025	220kV	63,557	3,018,404	37,805,974	40,887,936	31,060	1,475,067	18,475,441	32,497	1,543,337	19,330,533
LG BCH SWITCHRACK SUB	5027	220kV	97,213	1,331,157	8,679,829	10,108,199	32,178	440,613	2,935,007	65,036	890,544	5,744,822
REDONDO SWITCHRACK SUB	5028	220kV	13,018	39,761	5,931,998	5,984,777	8,659	26,446	3,945,500	4,360	13,315	1,986,498
MAGUNDEN SUB	5031	220kV	8,363	3,933,110	17,716,717	21,658,190	7,963	3,745,100	16,765,565	400	188,010	951,152
RECTOR SUB	5033	220kV	394,843	21,185,111	118,941,907	140,521,862	210,939	11,317,836	64,431,952	183,904	9,867,275	54,509,955
SPRINGVILLE SUB	5034	220kV	12,198	2,080,488	33,939,967	36,032,653	3,396	533,457	9,496,511	8,801	1,547,032	24,443,455
VESTAL SUB	5035	220kV	7,243	2,055,230	55,783,186	57,845,659	3,340	966,798	25,701,038	3,902	1,088,432	30,082,148
EAGLE MT. SUB	5040	220kV	-	411,343	18,744,677	19,156,020	-	173,433	9,486,998	-	237,910	9,257,678
CIMA SUB	5043	220kV	1,824	17,123	3,284,606	3,303,553	207	1,940	372,210	1,617	15,183	2,912,396
MANDALAY SWITCHRACK SUB	5048	220kV	49,104	29,546	2,561,161	2,639,812	-	-	-	49,104	29,546	2,561,161
PARDEE SUB	5050	220kV	970,263	10,904,323	44,522,083	56,396,669	844,999	9,497,421	38,773,270	125,264	1,406,902	5,748,814
ANTELOPE SUB	5052	220kV	21,983	7,700,368	204,807,660	212,530,011	21,982	7,700,048	204,798,695	1	320	8,964
SANTA CLARA SUB	5053	220kV	140,739	3,886,681	51,924,120	55,951,540	38,399	1,060,437	14,166,906	102,340	2,826,245	37,757,214
GOLETA SUB	5055	220kV	236,194	3,916,189	28,647,893	32,800,276	82,821	1,365,018	10,053,490	153,373	2,551,171	18,594,403
MOORPARK SUB	5056	220kV	184,091	6,657,112	68,170,662	75,011,866	25,309	915,212	9,372,025	158,782	5,741,900	58,798,637
BAILEY SUB	5059	220kV	111,063	7,296,501	33,994,407	41,401,971	111,063	7,296,501	33,994,407	-	-	-
PADUA SUB	5060	220kV	149,547	5,337,785	54,332,706	59,820,038	60,622	2,159,927	22,006,615	88,925	3,177,858	32,326,091
CHINO SUB	5062	220kV	34,465	3,865,219	38,135,480	42,035,164	7,922	870,463	8,783,607	26,543	2,994,756	29,351,873
JULIAN HINDS SUB	5063	220kV	-	1,464,256	23,926,554	25,390,810	-	1,451,555	23,719,014	-	12,701	207,540
VISTA SUB	5064	220kV	52,109	26,210,254	76,099,574	102,361,937	10,899	5,537,521	15,861,087	41,210	20,672,732	60,238,487
DEVERS SUB	5067	500kV	1,370,884	42,025,572	227,548,514	270,944,970	1,150,861	35,280,799	191,635,448	220,023	6,744,773	35,913,066
MIRA LOMA SUB	5069	500kV	474,735	50,977,536	207,341,363	258,793,634	404,114	43,289,549	176,601,854	70,622	7,687,986	30,739,509
HINSON SUB	5071	220kV	678,278	2,621,102	36,780,116	40,079,495	137,786	236,014	7,768,008	540,491	2,385,087	29,012,108
LIGHTHIPE SUB	5073	220kV	164,680	14,096,269	37,403,798	51,664,746	49,277	4,218,046	11,192,389	115,402	9,878,224	26,211,409
LAGUNA BELL SUB	5074	220kV	131,263	3,046,694	49,685,538	52,863,494	33,912	785,433	12,838,034	97,351	2,261,260	36,847,504
DEL AMO SUB	5075	220kV	164,747	6,720,665	60,588,110	67,473,522	27,115	948,785	10,132,789	137,632	5,771,880	50,455,321
BARRE SUB	5081	220kV	86,188	4,105,722	61,137,041	65,328,951	28,104	1,338,768	19,935,184	58,084	2,766,954	41,201,858
VILLA PARK SUB	5082	220kV	270,570	7,005,025	54,383,358	61,658,953	87,262	2,600,297	17,200,201	183,308	4,404,729	37,183,157
VIEJO SUBSTATION	5083	220kV	13,285,971	8,784,046	34,762,159	56,832,176	3,201,270	2,116,444	8,376,063	10,084,701	6,667,602	26,386,096
CENTER SUB	5084	220kV	71,802	5,224,510	52,694,273	57,990,585	6,484	374,942	4,855,483	65,318	4,849,568	47,838,790
JOHANNA SUB	5085 & 5881	220kV	813,416	5,574,307	25,639,314	32,027,037	230,653	1,312,453	8,070,630	582,763	4,261,854	17,568,684
ELLIS SUB	5086	220kV	59,737	5,351,860	76,011,564	81,423,161	12,727	1,148,921	16,185,525	47,010	4,202,938	59,826,039
OLINDA SUB	5087	220kV	390,538	2,233,806	33,241,683	35,866,026	59,383	339,661	5,054,563	331,155	1,894,145	28,187,120
SANTIAGO SUB	5088	220kV	557,976	13,574,840	153,601,724	167,734,540	305,738	9,485,571	82,117,416	252,238	4,089,268	71,484,307
ETIWANDA SWITCHRACK SUB	5096	220kV	186,144	4,340,556	56,563,185	61,089,885	35,636	830,973	10,828,634	150,508	3,509,583	45,734,551
EL CASCO SUBSTATION	8006	220kV	-	30,221,976	56,892,734	87,114,709	-	4,997,123	9,406,798	-	25,224,852	47,485,936
MIRAGE(CEP) SUB	8012	220kV	629,541	4,895,812	57,424,478	62,949,830	250,019	1,893,043	22,793,709	379,522	3,002,768	34,630,768
TORTILLA(CEP) SUB	8037	115kV	17,114	1,027,694	11,213,201	12,258,009	6,515	390,689	4,269,128	10,599	637,006	6,944,073
VICTOR SUB	8049	220kV	22,088	12,172,330	112,484,145	124,678,563	19,578	10,796,732	99,694,227	2,510	1,375,598	12,789,918
LAKEVIEW SUB	8056	115kV	100	9,442,822	22,745,941	32,188,864	-	-	-	100	9,442,822	22,745,941
EASTWIND SUB	8058	220kV	-	-	23,430	23,430	-	-	-	-	-	23,430
CHEVMAIN	8063	220kV	-	376,650	15,382,416	15,759,067	-	88,913	3,631,217	-	287,737	11,751,199
CLEMENTINE	8071	115kV	-	41,635	69,695	111,329	-	-	-	-	41,635	69,695
BADLANDS SUB	8081	115kV	-	21,176	-	21,176	-	-	-	-	21,176	-
INDIAN WELLS SUB	8175	115kV	-	103,197	-	103,197	-	-	-	-	103,197	-
Inyokern (CEP) & Inyokern	5041 & 8040	115kV	7,964	485,869	14,821,219	15,315,052	2,139	53,562	4,057,898	5,825	432,307	10,763,321
Kramer & Kramer-Radial Line Agmt	5042 & 8046	220kV	48,811	2,548,729	52,285,351	54,882,892	38,992	2,036,001	41,767,103	9,819	512,728	10,518,248
Vincent	5054 & 8954	500kV	17,324,279	27,870,106	226,612,392	271,806,776	17,324,279	27,870,106	226,612,392	-	-	-
Valley & Valley - CEP	5070 & 8034	500kV	311,358	40,962,650	210,071,523	251,345,530	93,653	10,743,019	74,332,638	217,704	30,219,631	135,738,885
San Onofre Switchrack	8051-8055	220kV	-	-	-	-	-	-	-	-	-	-
San Bernardino-220kV Switchyard & 220kV to	8076 & 1999	220kV	302,392	5,311,657	51,822,237	57,436,286	79,045	1,388,161	13,546,565	223,347	3,923,495	38,275,671
GREENWALD SUB	8339	115kV	-	10,350	8,152	18,502	-	-	-	-	10,350	8,152
IVANPAH SUB	8363	220kV	-	13,019,051	33,195,622	46,214,672	-	13,005,990	33,162,320	-	13,061	33,302
NEW VICTOR SUB	8364	115kV	-	-	-	-	-	-	-	-	-	-
LEATHERNECK SUB	8366	115kV	-	38,734	12,644	51,378	-	-	-	-	38,734	12,644
RED BLUFF SUB	8369	500kV	-	93,373,929	111,627,933	205,001,862	-	93,373,929	111,627,933	-	-	-
COLORADO RIVER SUB	8367	500kV	-	39,961,276	135,820,364	175,781,640	-	39,961,276	135,820,364	-	-	-
FOGARTY SUB	8346	115kV	-	4,398,452	16,236,483	20,634,935	-	-	-	-	4,398,452	16,236,483
MIDWAY-VINCENT LINES 1&2	4026	500kV	2,910,822	8,464	27,105	2,946,391	2,910,822	8,464	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	106,089	-	293,302	187,213	106,089	-	-	-	-
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	-	-	-	-	-

DESCRIPTION	LOCATION NUMBER	Voltage	TRANSMISSION ACCOUNTS			A/C 350-353 TOTAL	ISO RELATED			NON-ISO RELATED PLANT		
			A/C 350	A/C 352	A/C 353		A/C 350	A/C 352	A/C 353	A/C 350	A/C 352	A/C 353
			Land & Land Rights	Structures & Improvements	Station Equipment		Land & Land Rights	Structures & Improvements	Station Equipment	Land & Land Rights	Structures & Improvements	Station Equipment
MANY TRANSMISSION LINES	4101	220kV	1,539,568	654,539	98,475	2,292,581	1,505,998	640,267	96,328	33,569	14,272	2,147
COGEN/RENEWABLE ENERGY SO	4102	220kV	1,466,128	-	-	1,466,128	831,624	-	-	634,504	-	-
ISO 66KV LINES	4103	66kV	-	-	-	-	-	-	-	-	-	-
ISO 66KV T/L	4703	66kV	-	-	-	-	-	-	-	-	-	-
DEVERS-HINS LN, OTHERS	4104	220kV	1,331,368	82,149	51,006	1,464,524	1,261,122	77,815	48,315	70,246	4,334	2,691
33 AND 66 KV LINES	4105	66kV	33,389,732	11,336,398	2,506,833	47,232,963	226,190	76,795	16,982	33,163,543	11,259,603	2,489,851
S/E DIV., 66KV LINES	4805	66kV	-	-	-	-	-	-	-	-	-	-
COGEN/RENEW ENGY SOURCES	4106	115kV	563,121	-	-	563,121	-	-	-	563,121	-	-
ANTELOPE/MESA LINE, OTHER	4107	220kV	4,267,463	1,173,407	-	5,440,870	4,267,463	1,173,407	-	-	-	-
CHINO-SERRANO/SN ONFRE LN	4108	220kV	8,072,178	4,334,975	-	12,407,153	8,071,997	4,334,877	-	181	97	-
VARIOUS 220KV LINES	4808	220kV	-	-	-	-	-	-	-	-	-	-
COACHELLA VALLEY-DEVERS (SCE PORTION)	4109	220kV	-	25,255	-	25,255	-	25,255	-	-	-	-
COACHELLA VALLEY - DEVERS 220 kV Line	4509	220kV	-	-	-	-	-	-	-	-	-	-
BIG CRK 3-BIG CRK 4	4111	220kV	1,944	-	-	1,944	1,944	-	-	-	-	-
BIGCRK-SPRGVL, MGDN-SPRGV	4113	220kV	874,872	23,989	-	898,860	874,791	23,986	-	81	2	-
ALAMITOS-MESA LN, OTHERS	4114	220kV	3,210,534	1,087,163	661,182	4,958,879	3,063,711	1,037,445	630,945	146,824	49,718	30,237
HINSON-LIGHTHIPE 1&2	4115	220kV	1,607,024	616,675	2,149	2,225,848	1,607,024	616,675	2,149	-	-	-
HINSON-LIGHTHIPE 1,2	4415	220kV	-	-	-	-	-	-	-	-	-	-
HINSON-LAFRESA, OTHERS	4116	220kV	3,594,552	341,590	2,065	3,938,208	3,594,552	341,590	2,065	-	-	-
HINSON-LA FRESA	4416	220kV	-	-	-	-	-	-	-	-	-	-
ELDRDO-CIMA-PISGAH LN1,2	4117	220kV	1,004,389	56,362	12,857	1,073,608	1,004,389	56,362	12,857	-	-	-
MRA LMA-VLL PK LNS, OTHR	4118	220kV	5,611,464	793,635	2,260	6,407,359	4,640,667	656,334	1,869	970,797	137,301	391
CENTER-MESA LN, OTHERS	4119	220kV	2,101,337	237,691	101	2,339,128	1,671,908	189,116	80	429,429	48,574	21
ALAMITOS-CENTER, OTHERS	4120	220kV	4,271,232	506,235	29,998	4,807,465	3,793,539	449,618	26,643	477,693	56,617	3,355
ALAMITOS-CENTER....	4420	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 4-SPRNGVLL-MGDN	4121	220kV	353,928	55,314	1	409,244	353,928	55,314	1	-	-	-
LUGO-VINCENT LNS 1&2	4123	500kV	1,749,466	-	16,633	1,766,099	1,749,466	-	16,633	-	-	-
BIG CRK 1-CMP TEN-...-PRTL	4124	66kV	485	-	-	485	-	-	-	485	-	-
GOLETA-SNTA CLARA, OTHERS	4125	220kV	11,507,441	1,182,283	1,918	12,691,642	8,561,943	879,660	1,427	2,945,497	302,622	491
NORTH BOULDER-MEAD, OTHER	4127	220kV	19,842	-	-	19,842	12,581	-	-	7,261	-	-
KERN RIVER3-VESTAL 66 KV	4129	66kV	38,460	-	-	38,460	-	-	-	38,460	-	-
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	53,165	-	-	53,165	-	-	-	53,165	-	-
LUGO-VICTOR LNS, OTHER	4135	220kV	2,205,293	137,230	-	2,342,523	1,439,755	89,593	-	765,537	47,638	-
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	9,588,512	3,063,534	567,799	13,219,846	9,588,512	3,063,534	567,799	-	-	-
SPRGVLL-TULE 66KV LN	4139	66kV	517	-	-	517	-	-	-	517	-	-
MOHAVE-LUGO 500 KV LN	4140	500kV	278,112	7,296	-	285,408	278,112	7,296	-	-	-	-
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	1,700,240	-	-	1,700,240	1,700,240	-	-	-	-	-
SANTA ANA LNS 1,2,3	4149	33kV & Below	232	-	-	232	-	-	-	232	-	-
VINCENT-PEARLBLOSSOM LN	4153	220kV	309,032	-	-	309,032	-	-	-	309,032	-	-
LUGO-VICTORVLL EDSON-DWP	4154	500kV	748,912	51,478	-	800,389	748,912	51,478	-	-	-	-
MIDWAY-VINCENT LN 3	4155	500kV	5,825,616	-	-	5,825,616	5,825,616	-	-	-	-	-
ELLIS-SANTIAGO LNS 1,2	4156	220kV	12,019,808	-	-	12,019,808	12,019,808	-	-	-	-	-
RIO HONDO-VINCENT LN 2	4157	220kV	105,605	18,610	-	124,216	105,605	18,610	-	-	-	-
LUCERNE-LUGO/MIRA LOMA LN	4158	500kV	498,252	-	-	498,252	498,252	-	-	-	-	-
BIG CRK 2-BIG CRK 8	4166	220kV	9,034	-	-	9,034	9,034	-	-	-	-	-
BIG CRK 3-MAMMOTH POOL	4168	220kV	4,331	523,515	-	527,846	-	-	-	4,331	523,515	-
BIG CRK 1-RECTOR, OTHER	4169	220kV	11,554,667	692,660	2,701	12,250,028	11,262,310	675,134	2,633	292,357	17,526	68
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	10,441,139	192,106	-	10,633,245	10,441,139	192,106	-	-	-	-
SERRANO-VALLEY LN	4188	500kV	2,855,109	267,678	-	3,122,788	2,855,109	267,678	-	-	-	-
VALLEY-SERRANO 500 KV LN	4988	500kV	-	-	-	-	-	-	-	-	-	-
SERRANO-VILLA PK LN 1,2,3	4189	220kV	78,248	37,274	-	115,521	78,248	37,274	-	-	-	-
VARIOUS 66KV LINES	4200	66kV	-	-	-	-	-	-	-	-	-	-
MAGUNDEN-PASTORIA	4201	220kV	-	-	-	-	-	-	-	-	-	-
SSAN JOAQUIN REGION 66KV	4205	66kV	-	-	-	-	-	-	-	-	-	-
E.MAGUNDEN-ANTELOPE 220KV	4207	220kV	-	25,798	-	25,798	-	-	-	-	25,798	-
BIG CREEK #3/#4 220KV LIN	4211	220kV	-	3,150	-	3,150	-	3,150	-	-	-	-
BIG CREEK 3-SPRNGVL-MGNDN	4213	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 3-MAMMOTH POOL	4268	220kV	-	-	-	-	-	-	-	-	-	-

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
RECTOR-VESTAL #2 220KV	4269	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK4-SPRNGVL-MGNDN	4288	220kV	-	-	-	-	-	-	-	-	-	-
ALL 66KV T/L-COASTAL REGN	4405	66kV	-	-	-	-	-	-	-	-	-	-
EAGLE ROCK-MESA 220 KV LN	4301	220kV	-	-	-	-	-	-	-	-	-	-
ALL 66KV T/L-METRO REGION	4305	66kV	-	-	-	-	-	-	-	-	-	-
ANTELOPE-MESA 220 KV LN	4307	220kV	-	-	-	-	-	-	-	-	-	-
CHINO-VILLA PARK 220KV LN	4318	220kV	-	-	-	-	-	-	-	-	-	-
CENTER-MESA 220KV LN	4319	220kV	-	-	-	-	-	-	-	-	-	-
MESA VINCENT No 2 220 Kv LINE	4325	220kV	-	-	-	-	-	-	-	-	-	-
MIRA LOMA-SERRANO# 1&2 500KV	4348	500kV	-	-	-	-	-	-	-	-	-	-
MIRA LOMA - VINCENT 500 KV LINE	4360	500kV	25,733,774	2,467,564	-	28,201,338	25,733,774	2,467,564	-	-	-	-
MESA-REDONDO 220KV LN	4414	220kV	-	-	-	-	-	-	-	-	-	-
CENTER MESA&OLUNDA 220KV	4419	220kV	-	-	-	-	-	-	-	-	-	-
DEVERS-HINDS 220KV LNS	4504	220kV	-	-	-	-	-	-	-	-	-	-
33 & 66KV LINES IN ESTRN R	4505	66kV	-	-	-	-	-	-	-	-	-	-
COGEN/RENEW ENGY RESOURCE	4506	115kV	-	-	-	-	-	-	-	-	-	-
ISO 115KV T/L	4513	115kV	-	-	-	-	-	-	-	-	-	-
ETIWANDA-PADUA 220KV LN	4518	220kV	-	-	-	-	-	-	-	-	-	-
MIRA LOMA-WALNUT 220KV LN	4519	220kV	-	-	-	-	-	-	-	-	-	-
LUGO-MIRA LOMA NO. 1&2	4538	500kV	-	-	-	-	-	-	-	-	-	-
DESERT REGION 115KV LINES	4570	115kV	-	-	-	-	-	-	-	-	-	-
DEVERS-VALLEY 500 KV LNS	4587	500kV	-	-	-	-	-	-	-	-	-	-
BAILEY-PARDEE 220 KV LN	4601	220kV	-	-	-	-	-	-	-	-	-	-
ISO 66KV T/L-NORTHERN REG	4603	66kV	-	-	-	-	-	-	-	-	-	-
33&66KV LNS IN NRTHEN T/S	4605	66kV	-	-	-	-	-	-	-	-	-	-
ANTELOPE-MAGUNDEN 220 KV	4607	220kV	-	-	-	-	-	-	-	-	-	-
MOORPARK-PARDEE 200KV LN	4625	220kV	-	-	-	-	-	-	-	-	-	-
ANTELOPE-PARDEE	4644	220kV	3,934,890	-	-	3,934,890	3,934,890	-	-	-	-	-
PARDEE-SYLMAR 220 KV LN	4645	220kV	-	-	-	-	-	-	-	-	-	-
CORONA-JEFFERSON 66 KV LN	4705	66kV	243,215	2,111,150	-	2,354,365	138,481	1,202,044	-	104,734	909,107	-
ANTELOPE-WINDHUB 500KV LN	4708	500kV	16,796,780	-	-	16,796,780	16,796,780	-	-	-	-	-
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	-	-	-	-	-
LAGUNA-BELL 220KV	4714	220kV	-	-	-	-	-	-	-	-	-	-
CIMA-ELDO-PISGH	4717	220kV	-	-	-	-	-	-	-	-	-	-
COLWTR-KRMR;LUGO-VICTR220	4725	220kV	-	-	-	-	-	-	-	-	-	-
LEE VINING-LUNDY 55K 4771	4730	55kV	10,585	-	-	10,585	-	-	-	10,585	-	-
ELDORADO-IVANPAH NO 1&2 - CA	4733	220kV	-	-	-	-	-	-	-	-	-	-
ELDORADO-IVANPAH NO 1&2 - NV	4734	220kV	352,196	-	-	352,196	352,196	-	-	-	-	-
BISHOP CRK55&115KV LINES	4735	115kV	(11)	505,731	-	505,720	-	-	-	(11)	505,731	-
LUGO-MOHAVE 500KV	4740	500kV	-	-	-	-	-	-	-	-	-	-
115 KV LNS, ESTN T/S REG	4750	115kV	16,325,861	285,897	4,024,004	20,635,762	4,570,663	80,041	1,126,578	11,755,198	205,856	2,897,425
LUGO-VICTORVILLE 500KV	4754	500kV	-	-	-	-	-	-	-	-	-	-
DEVERS-SN BRDNO 220 KV LN	4756	220kV	1,079,238	16,401	-	1,095,639	1,079,238	16,401	-	-	-	-
BLYTHE-EAGLE MT 161 KV LN	4759	161kV	33,310	-	-	33,310	33,310	-	-	-	-	-
CONTROL-MORGAN 55 KV LN	4770	55kV	-	-	-	-	-	-	-	-	-	-
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	165,196	-	-	-	-	-
SERRANO-VILLA PARK 220KV	4889	220kV	-	-	-	-	-	-	-	-	-	-
LUGO-VICTOR 220KV LN	4935	220kV	-	-	-	-	-	-	-	-	-	-
SAN JACINTO REGION 115KV	4950	115kV	-	-	-	-	-	-	-	-	-	-
DEVERS-VALLEY 500KV	4987	500kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 4-MGNDN 220KV	4221	220kV	-	-	-	-	-	-	-	-	-	-
ANTELOPE-MAGUNDEN 220KV	4707	220kV	-	-	-	-	-	-	-	-	-	-
ANTELOPE-WHIRLWIND 500KV LN	4710	500kV	15,917,279	-	-	15,917,279	15,917,279	-	-	-	-	-
BARRE 1&2-VILLA PARK 220K	4818	220kV	-	-	-	-	-	-	-	-	-	-
ELLIS-HNGTN BCH#1-4 220KV	4820	220kV	-	-	-	-	-	-	-	-	-	-
TOTAL TRANSMISSION SUBSTATIONS			\$ 343,067,391	\$ 970,216,162	\$ 6,022,933,669	\$ 7,336,217,221	\$ 252,494,888	\$ 634,819,321	\$ 3,431,728,536	\$ 90,572,503	\$ 335,396,840	\$ 2,591,205,133
Recalc based on all other TS locations												
Allocation % to use							73.60%	65.43%	56.98%	26.40%	34.57%	43.02%
DIV MTCE / OVERHAUL MNGT	1000	66kV	-	-	6,285	6,285	-	-	3,581	-	-	2,704
MOUNTAINVIEW POWER-COMMON	1250	220kV	-	-	27,266,420	27,266,420	-	-	15,535,777	-	-	11,730,644
PALOVERDE-SWITCHYARD	1869	500kV	-	2,465,520	-	10,366,594	-	1,613,207	4,501,850	-	852,313	3,399,225
PV UNIT 1-INCREMENTAL	1870	500kV	-	-	194,959	194,959	-	-	111,083	-	-	83,876
BIG CREEK NO. 2	2212	220kV	-	-	1,516,246	1,516,246	-	-	863,922	-	-	652,324
BIG CREEK NO.2A	2234	220kV	-	-	1,031,434	1,031,434	-	-	587,687	-	-	443,747

SOUTHERN CALIFORNIA EDISON COMPANY

12-31-2018 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
MET T/S REGION	4300	220kV	-	131,348	14,696	146,044	-	85,942	8,373	-	45,406	6,322
COASTAL T/S REGION	4400	66kV	3,127	433,988	92,729	529,844	2,302	283,961	52,835	826	150,026	39,894
EASTERN T/S REGION	4500	66kV	-	1,650,041	916,891	2,566,931	-	1,079,633	522,423	-	570,407	394,468
NRTHN T/S REGION	4600	66kV	-	1,987,424	-	1,987,424	-	1,300,385	-	-	687,038	-
EASTERN T/S REG	4700	220kV	33,305	522,260	591,382	1,146,948	24,512	341,719	336,956	8,793	180,542	254,426
HUMAN EXTERNAL CARGO TRAINING SITE	4799	66kV	-	321,805	-	321,805	-	210,559	-	-	111,246	-
VAR. TRANS. LINES-S/E DIV	4800	115kV	2,931	1,534,075	711,670	2,248,676	2,157	1,003,756	405,493	774	530,319	306,177
NORTHEASTERN T/S DIV.	4900	66kV	-	71	-	71	-	46	-	-	24	-
SUBSTN DIV	5000	Misc	-	-	3,270,205	3,270,205	-	-	1,863,287	-	-	1,406,918
NO. T/S REG OFC/VALENCIA	5038	Misc	123,342	3,723,403	-	3,846,745	90,779	2,436,249	-	32,563	1,287,154	-
METRO REGION	5100	33kV & Below	-	-	265,939	265,939	-	-	151,526	-	-	114,413
NEENACH SUB	5556	66kV	-	-	408,193	408,193	-	-	232,579	-	-	175,614
BARSTOW NO RGN-SAN BERDOO	6072	CSTM SRVC FAC.	-	7,617	-	7,617	-	4,984	-	-	2,633	-
FRESNO COUNTY	7010	33kV & Below	-	-	-	-	-	-	-	-	-	-
VENTURA COUNTY	7056	33kV & Below	-	-	74,798	74,798	-	-	42,618	-	-	32,180
B&A-T/S 3RD FLOOR-GO3	9010	220kV	-	-	823	823	-	-	469	-	-	354
CHINO OFC BLDG (FACILITY)	9024	Misc	-	373,558	-	373,558	-	244,421	-	-	129,136	-
IRVINE OPER CENTER	9078	Misc	-	8,245	-	8,245	-	5,395	-	-	2,850	-
FUELS	9203	Misc	-	-	341,890	341,890	-	-	194,801	-	-	147,089
INNOVATION VILLAGE 1	9221	Div Offices & Misc	-	-	1,509,815	1,509,815	-	-	860,258	-	-	649,557
CONTROL SYS SEC-ALHAMBRA	9243	Div Offices & Misc	-	375,558	2,962,532	3,338,089	-	245,730	1,687,982	-	129,828	1,274,549
TELECOMM-ALHAMBRA	9330	Misc	-	-	108,737	108,737	-	-	61,956	-	-	46,781
CONWAY SUMMIT COMM SITE	9339	Misc	-	-	14,913	14,913	-	-	8,497	-	-	6,416
INTERNAL ORDER	INTERNALORDEI	Misc	-	-	1,868	1,868	-	-	1,064	-	-	804
CHINO-VILLA PARK 220KV LN	4318-NU	220kV	-	-	-	-	-	-	-	-	-	-
Total Locations Reclac'd			\$ 162,705	\$ 13,534,911	\$ 49,203,498	\$ 62,901,114	\$ 119,749	\$ 8,855,988	\$ 28,035,017	\$ 42,955	\$ 4,678,923	\$ 21,168,481

SOUTHERN CALIFORNIA EDISON COMPANY

Transmission Study Results
As of December 2018

Location	Description	Voltage	Study	Circuit Miles						Balance by FERC Account (Total Transmission) Current Study					
				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
4026	MIDWAY-VINCENT LINES 1&2	500	Lines	-	-	225.49	225.49	225.49	225.49	2,910,822	8,464	27,105	22,393,506	741,658	22,941,425
4031	DWP-EDSN CELILO-SYLMR CA	1000	Lines	8.59	8.59	327.58	327.58	336.18	336.18	-	95,841	-	30,893,739	-	34,499,118
4034	DWP-EDSN CELILO-SYLMR NV	1000	Lines	-	-	289.73	289.73	289.73	289.73	-	541	-	9,244,971	-	5,631,427
4045	PARDEE-SYLMAR LINES 1&2	220	Lines	-	-	13.00	13.00	13.00	13.00	187,213	106,089	-	701,607	-	453,192
4046	EAGLE ROCK-SYLMAR LNE	220	Lines	-	-	1.79	1.79	1.79	1.79	186,657	-	-	214,409	-	62,108
4051	PARDEE-VINCENT LN 1	220	Lines	-	-	32.33	32.33	32.33	32.33	-	-	-	316,356	-	204,878
4059	PARDEE-VINCENT LINE CONST	220	Lines	-	-	2.74	2.74	2.74	2.74	13,002	-	-	966,737	-	202,343
4070	RIO HONDO-VINCENT LN 2	220	Lines	-	-	4.42	4.42	4.42	4.42	61,040	-	-	436,317	-	1,468,658
4101	MANY TRANSMISSION LINES	220	Lines	-	-	352.20	344.52	352.20	344.52	1,539,568	654,539	98,475	25,388,542	2,072,856	31,413,942
4102	COGEN/RENEWABLE ENERGY SO	220	Lines	-	-	8.43	4.78	8.43	4.78	1,466,128	-	-	2,912,573	342,739	4,426,542
4104	DEVERS-HINS LN, OTHERS	220	Lines	0.04	0.04	158.67	150.29	158.71	150.33	1,331,368	82,149	51,006	16,666,213	16,304,327	31,428,655
4105	33 AND 66 KV LINES	66	Lines	338.81	-	4,642.55	33.74	4,981.36	33.74	33,389,732	11,336,398	2,506,833	19,151,291	912,480,785	260,066,772
4107	ANTELOPE/MESA LINE, OTHER	220	Lines	-	-	185.66	185.66	185.66	185.66	4,267,463	1,173,407	-	142,961,324	12,130,547	61,857,731
4108	CHINO-SERRANO/SN ONFRE LN	220	Lines	-	-	169.56	169.56	169.56	169.56	8,072,178	4,334,975	-	15,266,828	1,552,075	14,496,785
4109	COACHELLA VALLEY-DEVERS (SCE PC	220	Lines	-	-	0.38	0.38	0.38	0.38	-	25,255	-	-	-	467,285
4111	BIG CRK 3-BIG CRK 4	220	Lines	-	-	5.79	5.79	5.79	5.79	1,944	-	-	133,734	-	284,487
4113	BIGCRK-SPRGVL, MGDN-SPRGV	220	Lines	-	-	99.30	99.29	99.30	99.29	874,872	23,989	-	20,160,070	77,664,280	16,574,377
4114	ALAMITOS-MESA LN, OTHERS	220	Lines	-	-	129.55	123.63	129.55	123.63	3,210,534	1,087,163	661,182	14,597,492	2,750,256	11,695,112
4115	HINSON-LIGHTHIPE 1&2	220	Lines	-	-	27.07	27.07	27.07	27.07	1,607,024	616,675	2,149	4,183,107	498,077	2,127,313
4116	HINSON-LAFRESA, OTHERS	220	Lines	0.95	0.95	90.45	90.45	91.41	91.41	3,594,552	341,590	2,065	3,216,620	11,407,260	7,799,425
4117	ELDRDO-CIMA-PISGAH LN1,2	220	Lines	-	-	334.26	334.26	334.26	334.26	1,004,389	56,362	12,857	25,552,509	4,938,337	12,076,607
4119	CENTER-MESA LN, OTHERS	220	Lines	-	-	131.30	104.46	131.30	104.46	2,101,337	237,691	101	31,662,990	85,176	25,907,671
4120	ALAMITOS-CENTER, OTHERS	220	Lines	-	-	150.09	133.31	150.09	133.31	4,271,232	506,235	29,998	8,621,812	880,665	7,044,159
4121	BIG CREEK 4-SPRNGVLL-MGDN	220	Lines	-	-	135.41	135.41	135.41	135.41	353,928	55,314	1	17,120,950	3,369,977	9,010,570
4123	LUGO-VINCENT LINES 1&2	500	Lines	-	-	94.39	94.39	94.39	94.39	1,749,466	-	16,633	13,081,444	103,494	8,112,443
4124	BIG CRK 1-CMP TEN--PRTL	66	Lines	-	-	-	-	-	-	485	-	-	48,890	312,251	202,022
4125	GOLETA-SNTA CLARA, OTHERS	220	Lines	-	-	414.75	308.59	414.75	308.59	11,507,441	1,182,283	1,918	32,302,381	3,123,663	18,242,305
4127	NORTH BOULDER-MEAD, OTHER	220	Lines	-	-	85.09	53.95	85.09	53.95	19,842	-	-	647,655	462,057	549,803
4128	LYTLE CREEK-POLE 534694E	66	Lines	-	-	-	-	-	-	-	-	-	-	1,240	1,277
4129	KERN RIVER3-VESTAL 66 KV	66	Lines	-	-	88.60	-	88.60	-	38,460	-	-	345,087	1,489,401	931,818
4130	MOHAVE-LUGO 500KV	500	Lines	-	-	9.85	9.85	9.85	9.85	157,990	-	-	1,471,682	-	517,455
4132	CUMMINGS-KERBN RIV1, OTH	66	Lines	-	-	3.80	-	3.80	-	3,146	-	-	60,500	175,424	100,414
4133	BOREL---WALKER 66KV LN	66	Lines	-	-	38.48	-	38.48	-	53,165	-	-	7,516	11,731,668	661,129
4136	LUGO-ELDORADO LN	500	Lines	-	-	150.67	150.67	150.67	150.67	1,330,373	-	-	17,938,062	2,050,363	10,609,936
4137	LUGO-ELDORADO LN	500	Lines	-	-	26.51	26.51	26.51	26.51	16,589	-	-	3,643,443	-	4,529,049
4138	LUGO-MIRA LOMA 2&3	500	Lines	-	-	97.51	97.51	97.51	97.51	9,588,512	3,063,534	567,799	29,110,209	118,240	18,451,745
4139	SPRGVLL-TULE 66KV LN	66	Lines	-	-	2.39	-	2.39	-	517	-	-	-	984,560	157,660
4140	MOHAVE-LUGO 500 KV LN	500	Lines	-	-	165.96	165.96	165.96	165.96	278,112	7,296	-	17,293,734	1,513,721	10,310,625
4141	MOHAVE-ELDORADO LN	500	Lines	-	-	59.39	59.39	59.39	59.39	76,199	-	-	4,434,062	-	1,251,359
4142	BOREL-WELDON 66KV LN	66	Lines	-	-	31.50	-	31.50	-	25,409	-	-	-	5,013,516	1,239,280
4143	ELDORADO-BORDER 500 KV LN	500	Lines	-	-	29.65	29.65	29.65	29.65	6,167	-	-	4,052,185	-	1,880,705
4144	ELDORADO-MEAD LNS 1&2	220	Lines	-	-	30.64	30.64	30.64	30.64	9,994	-	-	473,674	358,194	429,215
4147	VINCENT-PARDEE LN 2	220	Lines	-	-	29.69	29.69	29.69	29.69	3,884,037	-	1,880	2,765,700	-	12,521,227
4148	MIRA LOMA-SERRANO LN	500	Lines	-	-	39.46	39.46	39.46	39.46	1,700,240	-	-	22,356,623	-	7,820,620
4149	SANTA ANA LNS 1,2,3	66	Lines	-	-	3.99	-	3.99	-	232	-	-	-	60,363	26,752
4153	VINCENT-PEARLBLOSSOM LN	220	Lines	-	-	13.13	-	13.13	-	309,032	-	-	60,375	1,200,430	308,138
4154	LUGO-VICTORVLL EDSON-DWP	500	Lines	-	-	7.57	7.57	7.57	7.57	748,912	51,478	-	1,527,713	-	759,625
4155	MIDWAY-VINCENT LN 3	500	Lines	-	-	60.24	60.24	60.24	60.24	5,825,616	-	-	20,953,606	1,757,686	7,511,408
4156	ELLIS-SANTIAGO LNS 1,2	220	Lines	-	-	29.49	29.49	29.49	29.49	12,019,808	-	-	2,262,700	6,476,819	2,971,326
4157	RIO HONDO-VINCENT NO. 2 220/50K	220	Lines	-	-	48.18	48.18	48.18	48.18	105,605	18,610	-	266,387,838	17,174,186	65,308,264
4158	LUCERNE-LUGO/MIRA LOMA LN	500	Lines	-	-	1.00	1.00	1.00	1.00	498,252	-	-	-	-	-
4166	BIG CRK 2-BIG CRK 8	220	Lines	-	-	9.03	9.03	9.03	9.03	9,034	-	-	164,051	-	136,431
4168	BIG CRK 3-MAMMOTH POOL	220	Lines	-	-	6.50	-	6.50	-	4,331	523,515	-	262,365	-	526,631
4169	BIG CRK 1-RECTOR, OTHER	220	Lines	-	-	372.22	362.80	372.22	362.80	11,554,667	692,660	2,701	14,673,088	17,894,740	49,964,737
4185	DEVERS-PALO VERDE	500	Lines	-	-	243.10	243.10	243.10	243.10	14,776,950	-	-	294,481,783	2,866,726	138,418,320
4186	DEVERS-PALO VERDE	500	Lines	-	-	112.05	112.05	112.05	112.05	1,193,710	-	-	22,930,180	-	24,561,685
4187	DEVERS-VALLEY LNS 1,2	500	Lines	-	-	83.20	83.20	83.20	83.20	10,441,139	192,106	-	222,122,578	306,070	48,902,440
4188	SERRANO-VALLEY LN	500	Lines	-	-	40.80	40.80	40.80	40.80	2,855,109	267,678	-	25,551,539	514,984	14,833,343
4189	SERRANO-VILLA PK LN 1,2,3	220	Lines	-	-	6.50	6.50	6.50	6.50	78,248	37,274	-	1,521,458	-	1,397,144
4191	VALLEY-INLAND 500KV TL	500	Lines	-	-	-	-	-	-	-	-	-	3,058	12,338	4,980

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				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356	
4193	BIG CRK 1-EASTWOOD	220	Lines	-	-	4.66	-	4.66	-	-	-	-	4,152,836	64,888	2,461,080	
4207	E.MAGUNDEN-ANTELOPE 220KV	220	Lines	-	-	-	-	-	-	-	25,798	-	11,981,276	382,193	-	
4211	BIG CREEK #3/#4 220KV LIN	220	Lines	-	-	5.79	5.79	5.79	5.79	-	3,150	-	-	-	-	
4300	MET T/S REGION	66	Lines	-	-	-	-	-	-	-	131,348	14,696	-	212,589	-	
4360	MIRA LOMA - VINCENT 500 KV LINE	500	Lines	3.50	3.50	93.93	93.93	97.43	97.43	25,733,774	2,467,564	-	381,010,049	75,786,919	164,694,097	
4400	COASTAL T/S REGION	66	Lines	-	-	-	-	-	-	3,127	433,988	92,729	-	15,952,358	96,096	
4500	EASTERN T/S REGION	66	Lines	-	-	-	-	-	-	-	1,650,041	916,891	521,867	596,899	1,526,137	
4600	NRTHN T/S REGION	66	Lines	-	-	-	-	-	-	-	1,987,424	-	-	600,851	129	
4644	ANTELOPE-PARDEE	220	Lines	-	-	26.39	26.39	26.39	26.39	3,934,890	-	-	86,011,136	7,668,801	39,491,898	
4700	EASTERN T/S REG	66	Lines	-	-	-	-	-	-	33,305	522,260	591,382	48	331,045	48	
4705	CORONA-JEFFERSON 66 KV LN	55	Lines	0.22	-	105.29	60.08	105.51	60.08	243,215	2,111,150	-	-	16,724,757	2,896,288	
4708	ANTELOPE-WINDHUB 500KV LN	500	Lines	-	-	25.45	25.45	25.45	25.45	16,796,780	-	-	14,032,500	30,806,236	20,048,113	
4709	WINDHUB-HIGHWIND 230KV LN	220	Lines	-	-	9.60	9.60	9.60	9.60	3,268,655	-	-	33,222,665	-	12,112,068	
4710	ANTELOPE-WHIRLWIND 500KV LN	500	Lines	-	-	14.49	14.49	14.49	14.49	15,917,279	-	-	41,810,447	-	38,660,689	
4711	WHIRLWIND-WINDHUB 500KV L	500	Lines	-	-	16.13	16.13	16.13	16.13	71,262	-	-	56,720,609	(10,509)	20,121,886	
4712	ANTELOPE - VINCENT #2 500KV	500	Lines	-	-	34.82	34.82	34.82	34.82	11,885,452	-	-	167,665,138	6,874,070	50,353,456	
4716	ANTELOPE-VINCENT #1 500 kv	500	Lines	-	-	-	-	-	-	-	-	-	237,004	-	-	
4730	LEE VINING-LUNDY 55K 4771	55	Lines	-	-	7.22	-	7.22	-	10,585	-	-	159,885	461,329	298,967	
4731	POOLE-LEE VINING 115KV LI	115	Lines	-	-	6.34	-	6.34	-	-	-	-	-	206,907	40,739	
4732	RUSH CRK-LEE VINING 115KV	115	Lines	-	-	15.25	-	15.25	-	-	-	-	-	481,187	217,972	
4733	ELDORADO-IVANPAH NO 1&2 - CA	220	Lines	-	-	10.32	10.32	10.32	10.32	-	-	-	25,282,715	1,219,314	20,581,574	
4734	ELDORADO-IVANPAH NO 1&2 - NV	220	Lines	-	-	58.48	58.48	58.48	58.48	352,196	-	-	49,174,369	666,768	164,308,741	
4755	WHIRLWIND--VINCENT&MIDWAY 5C	500	Lines	-	-	-	-	-	-	-	-	-	(94,837)	-	-	
4756	DEVERS-SN BRDNO 220 KV LN	220	Lines	-	-	120.31	120.31	120.31	120.31	1,079,238	16,401	-	6,958,865	568,180	4,604,528	
4759	BLYTHE-EAGLE MT 161 KV LN	161	Lines	-	-	52.88	52.88	52.88	52.88	33,310	-	-	-	2,770,000	331,263	
4781	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	21.00	20.62	21.00	20.62	1,277	-	-	98,307	43,204	94,968	
4782	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	72.74	72.74	72.74	72.74	165,196	-	-	327,795	1,746,964	811,371	
4792	COGEN/RENEW ENERGY 220KV & ABC	220	Lines	-	-	-	-	-	-	-	-	-	-	-	106,127	
4799	HUMAN EXTERNAL CARGO TRAINING	66	Lines	-	-	-	-	-	-	-	321,805	-	2,640,369	-	548,749	
4800	VAR. TRANS. LINES S/E DIV	66	Lines	-	-	-	-	-	-	2,931	1,534,075	711,670	559,885	1,166,678	1,226,842	
4900	NORTHEASTERN T/S DIV.	66	Lines	-	-	-	-	-	-	-	71	-	-	1,551,239	205,618	
4106	COGEN/RENEW ENGY SOURCES	115	Lines	-	-	20.50	-	20.50	-	195,038	-	-	-	5,598,769	1,751,494	
4106	COGEN/RENEW ENGY SOURCES	66	Lines	5.71	-	32.98	-	38.69	-	368,083	-	-	-	10,566,186	3,305,479	
4118	MRA LMA-VLL PK LNS, OTHR	220	Lines	-	-	155.75	132.05	155.75	132.05	5,473,685	774,149	2,204	18,840,608	506,655	14,461,765	
4118	MRA LMA-VLL PK LNS, OTHR	66	Lines	-	-	3.92	-	3.92	-	137,779	19,486	55	474,240	12,753	364,020	
4135	LUGO-VICTOR LNS, OTHR	220	Lines	-	-	206.15	117.41	206.15	117.41	1,778,456	110,669	-	7,988,304	1,225,345	9,219,141	
4135	LUGO-VICTOR LNS, OTHER	115	Lines	-	-	49.48	49.48	49.48	49.48	426,836	26,561	-	1,917,224	294,087	2,212,630	
4735	BISHOP CRKS5&115KV LINES	115	Lines	-	-	4.46	-	4.46	-	(4)	173,599	-	4,008	306,862	63,132	
4735	BISHOP CRKS5&115KV LINES	55	Lines	-	-	8.53	-	8.53	-	(7)	332,133	-	7,669	587,095	120,785	
4750	115 KV LNS, ESTN T/S REG	115	Lines	13.89	0.22	1,630.55	464.57	1,644.44	464.79	16,171,294	283,190	3,985,906	4,307,107	189,324,162	58,241,559	
4750	115 KV LNS, ESTN T/S REG	66/55/33	Lines	-	-	15.72	-	15.72	-	154,567	2,707	38,098	41,168	1,809,578	556,678	
2236	BIG CREEK NO.4	220	100% Subs	Allocated according to substation percentage						-	-	43,064	4,684,168	-	-	-
2570	INVO	220	100% Subs	Allocated according to substation percentage						-	-	287,755	4,197,276	-	-	-
5001	METRO GOM MAINT	500	100% Subs	Allocated according to substation percentage						-	-	-	31,531,834	-	-	-
5019	HARBORGEN SUB	220	100% Subs	Allocated according to substation percentage						-	-	18,729	3,991,930	-	-	-
5026	EL SEGUNDO SWITCHRACK SUB	220	100% Subs	Allocated according to substation percentage						12,470	102,005	-	2,244,645	-	-	-
5032	MIDWAY SUB	500	100% Subs	Allocated according to substation percentage						-	-	396,679	190,211	-	-	-
5036	PASTORIA SUB	220	100% Subs	Allocated according to substation percentage						21,435	1,279,909	-	12,338,955	-	-	-
5044	CLWTR SWITCHRACKS 1,2	115	100% Subs	Allocated according to substation percentage						-	-	-	1,476,690	-	-	-
5045	MOHAVE SWITCHRACK	500	100% Subs	Allocated according to substation percentage						-	-	3,417,990	8,435,508	-	-	-
5047	RANCHO VISTA SUB	500	100% Subs	Allocated according to substation percentage						1,844,367	22,798,974	-	154,023,684	-	-	-
5054 & 895	Vincent	500	100% Subs	Allocated according to substation percentage						17,324,279	27,870,106	-	226,612,392	-	-	-
5058	SYLMAR SUB	220	100% Subs	Allocated according to substation percentage						-	-	19,757	1,948,141	-	-	-
5061	LUGO SUB	500	100% Subs	Allocated according to substation percentage						90,981	23,677,879	-	150,236,369	-	-	-
5065	PISGAH SUB	220	100% Subs	Allocated according to substation percentage						-	-	556,209	4,722,905	-	-	-
5089	LEWIS SUB	220	100% Subs	Allocated according to substation percentage						1,444	192,580	-	5,383,835	-	-	-
5091	MEAD SUB	500	100% Subs	Allocated according to substation percentage						-	-	-	12,306	-	-	-
5092	MOENKOPI SUB	500	100% Subs	Allocated according to substation percentage						-	-	-	1,516,885	-	-	-
5094	EAST SERIES CAPACITORS 1	500	100% Subs	Allocated according to substation percentage						-	-	857,212	8,323,790	-	-	-

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5097	PALO VERDE SWITCHRACK SUB	500	100% Subs	Allocated according to substation percentage						-	486,323	7,815,158	-	-	-
8060	WHIRLWIND SUB	500	100% Subs	Allocated according to substation percentage						-	36,283,394	188,631,986	-	-	-
8084	HIGHWIND SUB	220	100% Subs	Allocated according to substation percentage						-	5,712,271	4,035,892	-	-	-
8367	COLORADO RIVER SUB	500	100% Subs	Allocated according to substation percentage						-	39,961,276	135,820,364	-	-	-
8372	PRIMM SUBSTATION	220	100% Subs	Allocated according to substation percentage						-	11,876,358	19,288,758	-	-	-
8960	WEST TRANSITION	500	100% Subs	Allocated according to substation percentage						-	17,191,245	13,336,171	-	-	-
8932	MIDWAY-PAC INTERTIE	500	100% Subs	Allocated according to substation percentage						-	162,585	13,930,693	-	-	-
8950	PARDEE-PAC INTERTIE	220	100% Subs	Allocated according to substation percentage						-	55,269	942,130	-	-	-
9219	RP&AS,LND&ESMNT REQUIS	220	100% Subs	Allocated according to substation percentage						8,633,706	45,883	-	-	-	-
5090	EL DORADO SUB(NEVADA)	500	100% Subs	Allocated according to substation percentage						13,183	35,514,014	196,185,878	-	-	-
5080	SERRANO SUB	500	100% Subs	Allocated according to substation percentage						1,226,475	28,476,678	193,625,629	-	-	-
5093	WEST SERIES CAPACITORS	500	100% Subs	Allocated according to substation percentage						-	1,782,300	45,897,215	-	-	-
8958	SYLMAR-PAC INTERTIE	220	100% Subs	Allocated according to substation percentage						51,663	7,758,498	120,773,733	2,505,376	-	359,913
5010	T.M. GOODRICH SUB-PASADEN	220	100% Subs	Allocated according to substation percentage						-	643,112	35,398	-	-	-
5018	DRYCREEKWIND SUB	220	100% Subs	Allocated according to substation percentage						-	(0)	0	-	-	-
8363	IVANPAH SUB	220	100% Subs	Allocated according to substation percentage						-	13,019,051	33,195,631	-	-	-
8369	RED BLUFF SUB	500	100% Subs	Allocated according to substation percentage						-	93,373,929	111,627,933	-	-	-
INTERNAL ORDER															
1451	EDISON ITAC	Misc	0% Subs	Allocated according to substation percentage						-	-	1,868	-	-	-
2150	MAMMOTH POOL LAKE-FP 2085	220	0% Subs	Allocated according to substation percentage						-	-	35,855	-	-	-
2202	BIG CREEK CANYON	220	0% Subs	Allocated according to substation percentage						-	-	24,016	-	-	-
2237	PORTAL POWER PLANT	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	1,641,022	-	-	-
2238	MAMMOTH POOL	220	0% Subs	Allocated according to substation percentage						-	-	68,246	-	-	-
2239	EASTWOOD POWER STATION	3kV & Belo	0% Subs	Allocated according to substation percentage						-	627,754	2,840,762	-	-	-
2300	HYDRO PRODUCTION	Misc	0% Subs	Allocated according to substation percentage						-	-	4,940,311	-	-	-
2301	SNTA ANA RV&MILL CRK CNYN	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	10,367	-	-	-
2303	LYTLE CRK&SN ANTONIO CNYN	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	421,924	-	-	-
2305	KERN RIVER CANYON	66kV	0% Subs	Allocated according to substation percentage						-	-	140,226	-	-	-
2307	KAWEAH RIVER CANYON	66kV	0% Subs	Allocated according to substation percentage						-	-	692,140	-	-	-
2309	SAN GORGONIO CANYON	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	572,929	-	-	-
2313	KERN RIVER NO.1	66kV	0% Subs	Allocated according to substation percentage						-	4,184	193,975	-	-	-
2314	BOREL	66kV	0% Subs	Allocated according to substation percentage						-	1,383	589,036	-	-	-
2315	SANTA ANA NO.1	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	259,591	-	-	-
2317	SANTA ANA NO.3	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	36,406	-	-	-
2318	MILL CREEK NO.1	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	14,930	-	-	-
2319	MILL CREEK NO.2&3	3kV & Belo	0% Subs	Allocated according to substation percentage						1,464	-	7,316	-	-	-
2324	KAWEAH NO.1	66kV	0% Subs	Allocated according to substation percentage						-	-	52,080	-	-	-
2325	KAWEAH NO.2	66kV	0% Subs	Allocated according to substation percentage						-	-	48,507	-	-	-
2326	KAWEAH NO.3	66kV	0% Subs	Allocated according to substation percentage						-	2,694	49,126	-	-	-
2327	LOWER TULE RIVER	66kV	0% Subs	Allocated according to substation percentage						-	-	57,269	-	-	-
2328	KERN RIVER NO.3	66kV	0% Subs	Allocated according to substation percentage						-	-	50,834	-	-	-
2331	ONTARIO NO.1	66kV	0% Subs	Allocated according to substation percentage						-	-	460,723	-	-	-
2500	EASTERN HYDRO REGION	55kV	0% Subs	Allocated according to substation percentage						-	-	205,914	-	-	-
2501	BISHOP CREEK CANYON	3kV & Belo	0% Subs	Allocated according to substation percentage						-	7,254	-	-	-	-
2503	MONO BASIN	115	0% Subs	Allocated according to substation percentage						-	-	705,804	-	-	-
2560 & 2511	Lundy	55kV	0% Subs	Allocated according to substation percentage						-	-	196,344	-	-	-
2512	POOLE	3kV & Belo	0% Subs	Allocated according to substation percentage						-	317,627	5,816,830	-	-	-
2514	RUSH CREEK	115	0% Subs	Allocated according to substation percentage						-	-	120,052	-	-	-
2522	BISHOP CREEK NO.2	55kV	0% Subs	Allocated according to substation percentage						-	-	175,912	-	-	-
2523	BISHOP CREEK NO.3	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	80,487	-	-	-
2524	BISHOP CREEK NO.4	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	1,841,377	-	-	-
2525	BISHOP CREEK NO.5	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	86,641	-	-	-
2526	BISHOP CREEK NO.6	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	43,037	-	-	-
2553	FISH LAKE VALLEY METERING	55kV	0% Subs	Allocated according to substation percentage						-	-	39,098	-	-	-
2557	CASA DIABLO	115	0% Subs	Allocated according to substation percentage						-	1,343	12,150	-	-	-
2561	LEE VINING	115	0% Subs	Allocated according to substation percentage						2,119	290,687	4,738,172	-	-	-
2571	SHERWIN	115	0% Subs	Allocated according to substation percentage						-	261,722	2,099,225	-	-	-
2582	ZACK	55kV	0% Subs	Allocated according to substation percentage						344	100,772	1,207,512	-	-	-
2598	MT. TOM	55kV	0% Subs	Allocated according to substation percentage						400,881	-	655,406	-	-	-
										-	-	(230)	-	-	-

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Location	Description	Voltage	Study	Circuit Miles				
				UG Total	UG ISO	OH Total	OH ISO	Total Miles
3717	DAF INDAL 500KW WND TURBN	3kV & Belo	0% Subs	Allocated according to substation percentage				
5016	LEBEC SUBSTATION	220	0% Subs	Allocated according to substation percentage				
5022	ARCOGEN SUB	220	0% Subs	Allocated according to substation percentage				
5046	CLWTR SWITCHRACK 3,4 SUB	220	0% Subs	Allocated according to substation percentage				
5048	MANDALAY SWITCHRACK SUB	220	0% Subs	Allocated according to substation percentage				
5049	ORMOND BCH SWITCHRACK SUB	220	0% Subs	Allocated according to substation percentage				
5051	SAUGUS SUB	66kV	0% Subs	Allocated according to substation percentage				
5066	GENE SUB	220	0% Subs	Allocated according to substation percentage				
5068	CAMINO SUB	220	0% Subs	Allocated according to substation percentage				
5072	VELASCO SUB	220	0% Subs	Allocated according to substation percentage				
5078	HUNTINGTON BCH SWITCHRCK	220	0% Subs	Allocated according to substation percentage				
5095	TRITON SUB	115	0% Subs	Allocated according to substation percentage				
5101	ALHAMBRA SUB	66kV	0% Subs	Allocated according to substation percentage				
5107	BANDINI SUB	66kV	0% Subs	Allocated according to substation percentage				
5109	BICKNELL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5112	THUMSGEN SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				
5116	RUSH SUB	66kV	0% Subs	Allocated according to substation percentage				
5141	ROSEMEAD SUB	66kV	0% Subs	Allocated according to substation percentage				
5158	ARROYO SUB	66kV	0% Subs	Allocated according to substation percentage				
5161	AMADOR SUB	66kV	0% Subs	Allocated according to substation percentage				
5162	FAIR OAKS SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5165	JPL SUB	66kV	0% Subs	Allocated according to substation percentage				
5167	MAYFLOWER SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5170	TEMPLE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5178	KIRK WALL SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				
5179	RAVENDALE SUB	66kV	0% Subs	Allocated according to substation percentage				
5185	CITRUS SUB	66kV	0% Subs	Allocated according to substation percentage				
5186	CORTEZ SUB	66kV	0% Subs	Allocated according to substation percentage				
5196	RAILROAD SUB	66kV	0% Subs	Allocated according to substation percentage				
5198	ALHAMBRA DIST SUB TRG FAC	66kV	0% Subs	Allocated according to substation percentage				
5204	CULVER CITY SUB	66kV	0% Subs	Allocated according to substation percentage				
5207	SEPULVEDA SUB	66kV	0% Subs	Allocated according to substation percentage				
5211	INGLEWOOD SUB	66kV	0% Subs	Allocated according to substation percentage				
5213	LENNOX SUB	66kV	0% Subs	Allocated according to substation percentage				
5224	PEARL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5235	WINDSOR HILLS SUB	66kV	0% Subs	Allocated according to substation percentage				
5236	VALDEZ SUB	66kV	0% Subs	Allocated according to substation percentage				
5238	LAWNDALE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5241	YUKON SUB	66kV	0% Subs	Allocated according to substation percentage				
5250	SAWTELLE SUB	66kV	0% Subs	Allocated according to substation percentage				
5257	BRIDGE SUB	66kV	0% Subs	Allocated according to substation percentage				
5259	STIRRUP SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5273	STANHILL SUB	66kV	0% Subs	Allocated according to substation percentage				
5315	LAUREL SUB	66kV	0% Subs	Allocated according to substation percentage				
5325	STRATHMORE SUB	66kV	0% Subs	Allocated according to substation percentage				
5333	WOODVILLE SUB	66kV	0% Subs	Allocated according to substation percentage				
5352	LINE CREEK SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
5357	CUMMINGS SUB	66kV	0% Subs	Allocated according to substation percentage				
5358	MONOLITH SUB	66kV	0% Subs	Allocated according to substation percentage				
5365	ACTON SUB	66kV	0% Subs	Allocated according to substation percentage				
5374	RIVERWAY SUB	66kV	0% Subs	Allocated according to substation percentage				
5375	MASCOT SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				
5504	CASITAS SUB	66kV	0% Subs	Allocated according to substation percentage				
5506	CHANNEL ISLANDS SUB	66kV	0% Subs	Allocated according to substation percentage				
5507	ORTEGA SUB	66kV	0% Subs	Allocated according to substation percentage				
5508	DEL SUR SUB	66kV	0% Subs	Allocated according to substation percentage				
5510	FILLMORE SUB	66kV	0% Subs	Allocated according to substation percentage				
5511	GOLDTOWN SUB	66kV	0% Subs	Allocated according to substation percentage				
5514	LANCASTER SUB	66kV	0% Subs	Allocated according to substation percentage				
5518	LITTLE ROCK SUB	66kV	0% Subs	Allocated according to substation percentage				

Balance by FERC Account (Total Transmission) Current Study					
350	352	353	354	355	356
714	-	-	-	-	-
-	-	15,138	-	-	-
-	-	963,824	-	-	-
48,136	156,227	3,179,929	-	-	-
49,104	29,546	2,561,161	-	-	-
158,170	34,483	5,924,405	-	-	-
13,373	5,436,194	76,074,367	-	-	-
-	30,050	2,168,142	-	-	-
-	12,697	4,246,840	-	-	-
-	-	155,442	-	-	-
21,660	146,324	4,891,312	-	-	-
2,415,092	2,377,770	26,471,314	-	-	-
-	83,447	2,771,763	-	-	-
4,583	16,136	-	-	-	-
-	-	2,451	-	-	-
-	-	2,049	-	-	-
-	-	-	-	-	-
-	38,757	10	-	-	-
-	-	123	-	-	-
-	-	(47,687)	-	-	-
-	-	17,195	-	-	-
-	-	3,666	-	-	-
-	-	91,972	-	-	-
-	-	17,367	-	-	-
3,995	-	-	-	-	-
-	11,112	-	-	-	-
-	-	37,984	-	-	-
-	16,955	31,589	-	-	-
-	57,470	-	-	-	-
-	25,705	2,046,562	-	-	-
-	61,262	-	-	-	-
-	41,604	-	-	-	-
-	29,751	-	-	-	-
-	25,054	17,794	-	-	-
-	14,955	-	-	-	-
-	58,264	17,508	-	-	-
-	-	24,710	-	-	-
-	44,342	-	-	-	-
4,415	-	-	-	-	-
-	70,183	-	-	-	-
-	14,957	-	-	-	-
-	14,955	-	-	-	-
-	-	0	-	-	-
-	-	-	-	-	-
-	-	14,882	-	-	-
-	15,418	74,641	-	-	-
-	-	31,030	-	-	-
-	-	111,576	-	-	-
-	234	1,261,397	-	-	-
24,167	-	15,397	-	-	-
801,825	-	-	-	-	-
573,588	-	-	-	-	-
-	-	(251)	-	-	-
-	116,483	-	-	-	-
-	-	30,102	-	-	-
-	-	424,747	-	-	-
-	5,566	-	-	-	-
-	-	526,259	-	-	-
-	-	1,071,949	-	-	-
-	-	1,690,353	-	-	-

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Location	Description	Voltage	Study	Circuit Miles						Balance by FERC Account (Total Transmission) Current Study					
				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
5522	SHUTTLE SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	911,750	-	-	-
5526	OJAI SUB	66kV	0% Subs	Allocated according to substation percentage						-	13,050	-	-	-	-
5530	REDMAN WUB	66kV	0% Subs	Allocated according to substation percentage						-	-	299,056	-	-	-
5531	SANTA BARBARA SUB	66kV	0% Subs	Allocated according to substation percentage						-	40,153	-	-	-	-
5538	VENTURA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	52,076	-	-	-	-
5539	ANAVEDE SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	76,359	-	-	-
5541	ROSAMOND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	658,870	-	-	-
5545	PIUTE SUB	66kV	0% Subs	Allocated according to substation percentage						-	11,023	149,257	-	-	-
5546	ELIZABETH LAKE SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	3,072	-	-	-
5547	CORUM SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5548	OASIS SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	397,008	-	-	-
5553	CAL CEMENT SUB	66kV	0% Subs	Allocated according to substation percentage						-	15,551	367,757	-	-	-
5557	NEWBURY SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	692,110	-	-	-
5562	GRISWOLD SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5564	PALMDALE SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	603,424	-	-	-
5566	QUARTZ HILL SUB	66kV	0% Subs	Allocated according to substation percentage						-	11,023	220,467	-	-	-
5599	HELJET SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	499,396	-	-	-
5601	RANDALL SUB	66kV	0% Subs	Allocated according to substation percentage						-	20,403	56,150	-	-	-
5606	ORANGE PRODUCTS SUB	66kV	0% Subs	Allocated according to substation percentage						-	13,596	-	-	-	-
5612	INLAND CONTAINER SUB	66kV	0% Subs	Allocated according to substation percentage						-	20,750	-	-	-	-
5615	DECLIZ SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	23,032	-	-	-
5631	SAN ANTONIO SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	7,606	-	-	-
5646	COLTON CEMENT SUB	66kV	0% Subs	Allocated according to substation percentage						-	43,167	-	-	-	-
5652	AMERON SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	531,131	-	-	-
5655	NOGALES SUB	66kV	0% Subs	Allocated according to substation percentage						-	16,835	525,170	-	-	-
5659	ARCHIBALD SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	206,393	-	-	-
5664	WIMBLEDON SUB	66kV	0% Subs	Allocated according to substation percentage						-	1,282	17,343	-	-	-
5670	DEL ROSA SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	17,327	-	-	-
5674	WHIPPLE SUB	66kV	0% Subs	Allocated according to substation percentage						-	8,714	-	-	-	-
5678	LANDING SUB	66kV	0% Subs	Allocated according to substation percentage						-	14,661	-	-	-	-
5740	NAPLES SUBSTATION	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	114,340	-	-	-
5758	WATSON SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	3,790	-	-	-
5787	SOUTH GATE SUBSTATION	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	17,255	-	-	-
5788	BOVINE SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	17,101	-	-	-
5798	MOVIE SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	1,963	17,658	-	-	-
5811	CHIQUITA SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	58,207	-	-	-
5814	CARMENITA SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	14,314	146,427	-	-	-
5816	PARKWOOD SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	93,280	-	-	-	-
5828	WAVE SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5842	OCEANVIEW SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	58,101	-	-	-
5843	ORANGE SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	423,768	1,592,773	-	-	-
5849	SANTA ANA SUBSTATION	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,882	-	-	-	-
5853	TALBERT SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	24,273	-	-	-
5860	ALTON SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						241,262	-	-	-	-	-
5862	SULLIVAN SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	230,879	-	-	-
5865	ESTRELLA SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	41,148	-	-	-
5869	SHAWNEE SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	17,289	-	-	-
5878	TUSTIN SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						11,308	-	-	-	-	-
5892	TELEGRAPH SUB	66kV	0% Subs	Allocated according to substation percentage						-	12,346	96,987	-	-	-
5896	NIGUEL SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	21,384	-	-	-
5902	LAS LOMAS SUB	66kV	0% Subs	Allocated according to substation percentage						4,664,177	-	-	-	-	-
7013	IMPERIAL COUNTY	115	0% Subs	Allocated according to substation percentage						-	-	1,702	-	-	-
8003	PAUBA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						106,825	764,114	8,411,110	-	-	-
8004	THORNHILL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						25,609	996,193	9,379,205	-	-	-
8005	STADLER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						139,611	786,164	11,193,383	-	-	-
8009	PAN AERO (CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	-	641,248	-	-	-
8010	PHELAN(CEP) SUB	115	0% Subs	Allocated according to substation percentage						154,446	751,072	7,063,296	-	-	-
8011	BANWIND SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	-	32,028	-	-	-
8013	APPLE VALLEY(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	1,389,452	10,366,982	-	-	-
8014	BUNKER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						969,397	1,477,013	15,118,416	-	-	-

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Location	Description	Voltage	Study	Circuit Miles						Balance by FERC Account (Total Transmission) Current Study					
				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
8016	FARREL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	663,093	12,051,464	-	-	-
8017	CONCHO(CEP) SUB	115	0% Subs	Allocated according to substation percentage						285,201	672,863	9,265,159	-	-	-
8018	AULD(CEP) SUB	115	0% Subs	Allocated according to substation percentage						83,538	1,177,450	18,314,311	-	-	-
8019	MAXWELL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						33,940	479,789	8,777,447	-	-	-
8020	SAVAGE(CEP) SUB	115	0% Subs	Allocated according to substation percentage						29,280	1,477,177	15,652,689	-	-	-
8021	PEPPER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						17,579	483,962	10,204,080	-	-	-
8022	YUCCA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						19,474	645,122	11,737,770	-	-	-
8023	BLACK MOUNTAIN(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	12,014	912,016	-	-	-
8024	ALESSANDRO(CEP) SUB	115	0% Subs	Allocated according to substation percentage						45,514	2,703,528	23,621,759	-	-	-
8025	BAKER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	211,976	2,793,347	-	-	-
8026	BANNING(CEP) SUB	115	0% Subs	Allocated according to substation percentage						20,210	1,557,931	16,216,180	-	-	-
8027	COTTONWOOD(CEP) SUB	115	0% Subs	Allocated according to substation percentage						22,426	1,796,115	11,231,874	-	-	-
8028	EDWARDS(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	37,679	2,862,027	-	-	-
8029	HI DESERT(CEP) SUB	115	0% Subs	Allocated according to substation percentage						1,154,541	1,724,370	19,974,853	-	-	-
8030	MOUNTAIN PASS(CEP) SUB	115	0% Subs	Allocated according to substation percentage						70,286	26,523	4,666,603	-	-	-
8031	RANDESBURG(CEP) SUB	115	0% Subs	Allocated according to substation percentage						116	337,116	6,015,296	-	-	-
8032	ROCKET TEST(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	18,045	283,935	-	-	-
8033	SEARLES(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	361,473	6,359,540	-	-	-
8035	ZANJA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						152,559	1,663,455	10,118,084	-	-	-
8036	SANTA ROSA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						44,689	464,965	21,490,547	-	-	-
8038	NELSON(CEP) SUB	115	0% Subs	Allocated according to substation percentage						22,819	712,388	14,308,425	-	-	-
8039	HOMART(CEP) SUB	115	0% Subs	Allocated according to substation percentage						174,875	425,577	5,358,686	-	-	-
8041	HOLGATE(CEP) SUB	115	0% Subs	Allocated according to substation percentage						27,167	347,967	3,252,416	-	-	-
8042	CALECTRIC SUB (CEP)	115	0% Subs	Allocated according to substation percentage						27,870	2,639,595	22,394,503	-	-	-
8044	GARNET SUB	115	0% Subs	Allocated according to substation percentage						38,081	1,730,514	13,014,415	-	-	-
8045	IID TIE SUB	115	0% Subs	Allocated according to substation percentage						39,144	-	23,873	-	-	-
8047	TIEFORT SUB	115	0% Subs	Allocated according to substation percentage						-	218,704	1,530,163	-	-	-
8048	USBR BLYTHE SUB	161	0% Subs	Allocated according to substation percentage						-	64,707	7,818,707	-	-	-
8055	SN ONOFRE SWTHRK-100%SCE	220	0% Subs	Allocated according to substation percentage						-	1,629,530	10,597,913	-	-	-
8059	PUREWATER SUB	115	0% Subs	Allocated according to substation percentage						-	175,506	1,357,312	-	-	-
8061	SEAWIND T/S	115	0% Subs	Allocated according to substation percentage						2,976	463	312,727	-	-	-
8064	TIFFANYWIND SUB	115	0% Subs	Allocated according to substation percentage						-	-	11,459	-	-	-
8072	CARODEAN	115	0% Subs	Allocated according to substation percentage						-	562,701	10,062,252	-	-	-
8073	IVYGLEN SUB	115	0% Subs	Allocated according to substation percentage						166,697	1,117,641	9,458,907	-	-	-
8074	COOL WATER SWITCHCRACK 1,2	220	0% Subs	Allocated according to substation percentage						-	61,762	1,927,048	-	-	-
8075	HIGHGROVE SWITCHCRCK	115	0% Subs	Allocated according to substation percentage						7,139	178,624	2,016,862	-	-	-
8079	AQUEDUCT SUB	115	0% Subs	Allocated according to substation percentage						2,880	925,853	10,582,220	-	-	-
8082	MENTONE SUB	115	0% Subs	Allocated according to substation percentage						161,883	788,697	7,266,910	-	-	-
8086	CAJALCO SUB	115	0% Subs	Allocated according to substation percentage						25,836	950,321	11,577,227	-	-	-
8087	HESPERIA SUB	115	0% Subs	Allocated according to substation percentage						22,150	397,908	7,916,357	-	-	-
8088	SKYLARK SUB	115	0% Subs	Allocated according to substation percentage						81,206	403,653	9,802,640	-	-	-
8089	MAYBERRY SUB	115	0% Subs	Allocated according to substation percentage						23,090	444,857	13,745,284	-	-	-
8090	PERMANENTE SUB	115	0% Subs	Allocated according to substation percentage						-	-	87,113	-	-	-
8091	ELCENTRO TELEMETERING	161	0% Subs	Allocated according to substation percentage						-	-	15,844	-	-	-
8092	NILAND TELEMETERING	161	0% Subs	Allocated according to substation percentage						-	-	6,807	-	-	-
8093	SHANDIN SUB	115	0% Subs	Allocated according to substation percentage						42,272	750,747	11,189,236	-	-	-
8094	ARROWHEAD SUB	115	0% Subs	Allocated according to substation percentage						-	442,875	5,489,263	-	-	-
8095	STETSON SUB	115	0% Subs	Allocated according to substation percentage						23,493	718,412	7,918,884	-	-	-
8097	DUNN SIDING SUB	115	0% Subs	Allocated according to substation percentage						4,913	99,723	722,246	-	-	-
8099	TAMARISK SUB	115	0% Subs	Allocated according to substation percentage						125,967	379,583	12,561,144	-	-	-
8102	AMARGO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
8104	FARRELL SUB	115	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
8110	BARSTOW SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,894	59,447	-	-	-
8113	BLYTHE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	22,511	440,016	-	-	-
8117	BRYMAN SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	7,083	-	-	-
8120	MILITARY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	15,598	-	-	-	-
8132	CAL CITY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,894	-	-	-	-
8137	DOWNS SUB	115	0% Subs	Allocated according to substation percentage						82,401	5,781,510	17,032,878	-	-	-
8152	GLEN IVY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	15,642	27,225	-	-	-
8163	HELENDAL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	15,110	81,054	-	-	-

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Location	Description	Voltage	Study	Circuit Miles				
				UG Total	UG ISO	OH Total	OH ISO	Total Miles
8179	Lakeview	115	0% Subs	Allocated according to substation percentage				
8182	BOTTLE SUB	115	0% Subs	Allocated according to substation percentage				
8190	MINNEOLA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8193	MORENO SUB	115	0% Subs	Allocated according to substation percentage				
8195	MURRIETA 2 SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8197	SOUTHCAP SUB.	115	0% Subs	Allocated according to substation percentage				
8198	MUSCOY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8204	BELDING SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8212	ORO GRANDE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8214	PALM CANYON SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8220	LUCERNE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8222	RANCHO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8225	RIALTO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8226	RIDGECREST SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8234	SAN JACINTO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8250	TEMESCAL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8260	VICTORVILLE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8267	WILDE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8268	YERMO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8270	TENAIA SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8273	IRON MT SCE	3kV & Belo	0% Subs	Allocated according to substation percentage				
8283	GALE SUB	115	0% Subs	Allocated according to substation percentage				
8294	GOLD HILL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage				
8301	BUCKWIND	115	0% Subs	Allocated according to substation percentage				
8302	CAPWIND	115	0% Subs	Allocated according to substation percentage				
8303	RENWIND	115	0% Subs	Allocated according to substation percentage				
8304	SANWIND	115	0% Subs	Allocated according to substation percentage				
8305	TRANSWIND	115	0% Subs	Allocated according to substation percentage				
8306	VENWIND	115	0% Subs	Allocated according to substation percentage				
8308	ALTWIND	115	0% Subs	Allocated according to substation percentage				
8310	TERAWIND	115	0% Subs	Allocated according to substation percentage				
8311	INDIGO SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8312	CALGEN	115	0% Subs	Allocated according to substation percentage				
8314	MCGEN	115	0% Subs	Allocated according to substation percentage				
8320	SEGS II	115	0% Subs	Allocated according to substation percentage				
8321	SEGS III	115	0% Subs	Allocated according to substation percentage				
8322	SEGS IV	115	0% Subs	Allocated according to substation percentage				
8323	SEGS V	115	0% Subs	Allocated according to substation percentage				
8324	SEGS VI	115	0% Subs	Allocated according to substation percentage				
8325	SEGS VII	115	0% Subs	Allocated according to substation percentage				
8326	SEGS VIII	220	0% Subs	Allocated according to substation percentage				
8327	SEGS IX	220	0% Subs	Allocated according to substation percentage				
8340	SOPORT	115	0% Subs	Allocated according to substation percentage				
8342	NEWCUMB	115	0% Subs	Allocated according to substation percentage				
8343	ELSIOR	115	0% Subs	Allocated according to substation percentage				
8344	SOUTH BASE SUB	115	0% Subs	Allocated according to substation percentage				
8345	INDIAN WELLS SUB	115	0% Subs	Allocated according to substation percentage				
8346	FOGARTY SUB	115	0% Subs	Allocated according to substation percentage				
8347	PECHANGA SUB	115	0% Subs	Allocated according to substation percentage				
8351	TANKER SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8353	PLUETT SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8354	AFG SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8357	RECTIFIER SUB	115	0% Subs	Allocated according to substation percentage				
8359	MOUNTWIND SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8361	COSO SUB	115	0% Subs	Allocated according to substation percentage				
8362	MOVAL SUBSTATION	115	0% Subs	Allocated according to substation percentage				
8504	RITTER SUB	66kV	0% Subs	Allocated according to substation percentage				
8509	PHARMACY SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				
8511	GLOW SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				
8558	PLASTER SUBSTATION	66kV	0% Subs	Allocated according to substation percentage				

Balance by FERC Account (Total Transmission) Current Study					
350	352	353	354	355	356
1,488,305	-	-	-	-	-
-	158,075	1,283,195	-	-	-
-	-	5,725	-	-	-
104,923	760,685	5,212,267	-	-	-
-	-	21,911	-	-	-
-	-	942,250	-	-	-
-	-	132,416	-	-	-
-	42,109	-	-	-	-
-	-	7,994	-	-	-
-	30,644	-	-	-	-
-	13,167	-	-	-	-
-	6,894	2,107	-	-	-
-	17,716	30,776	-	-	-
-	-	17,438	-	-	-
-	-	-	-	-	-
-	-	4,236	-	-	-
-	18,135	22,159	-	-	-
-	-	-	-	-	-
-	23,195	-	-	-	-
-	-	21,919	-	-	-
-	8,651	-	-	-	-
-	9,848	5,876,497	-	-	-
-	6,894	-	-	-	-
-	25,208	751,981	-	-	-
-	29,827	78,542	-	-	-
-	15,102	827,522	-	-	-
-	-	371,041	-	-	-
-	25,366	1,061,136	-	-	-
-	21,039	2,287,437	-	-	-
-	1,022	25,028	-	-	-
-	5,398	226,460	-	-	-
-	4,899	229,185	-	-	-
532	1,600	12,970	-	-	-
-	112,388	2,464,391	-	-	-
-	-	45,594	-	-	-
-	-	11,755	-	-	-
-	-	41,025	-	-	-
-	-	8,814	-	-	-
-	-	39,130	-	-	-
-	-	119,704	-	-	-
-	-	83,150	-	-	-
-	-	74,085	-	-	-
-	42,538	654,012	-	-	-
51,172	1,223,085	10,876,324	-	-	-
20,961	1,295,575	16,173,022	-	-	-
12,179	143,764	2,017,154	-	-	-
222,600	930,666	12,795,164	-	-	-
-	4,398,452	16,236,483	-	-	-
560,579	844,656	11,267,214	-	-	-
120	4,440	696,181	-	-	-
-	-	151,193	-	-	-
-	78,655	1,082,686	-	-	-
-	5,170	1,098,304	-	-	-
-	-	53,698	-	-	-
91,119	1,641,131	4,788,019	-	-	-
-	128,640	491,674	-	-	-
942,487	-	-	-	-	-
-	-	43,289	-	-	-
-	-	128,972	-	-	-
4,671	-	-	-	-	-

SOUTHERN CALIFORNIA EDISON COMPANY

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Location	Description	Voltage	Study	Circuit Miles						Balance by FERC Account (Total Transmission) Current Study					
				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
8810	ONEIL SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						1,188,142	-	-	-	-	-
8956	MWD EASTSIDE RES	115	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
9009	CONSTR FIELD FORCES	Offices & h	0% Subs	Allocated according to substation percentage						-	-	527,316	-	-	-
9047	TRANS/SUB SUPPORT SERV	Offices & h	0% Subs	Allocated according to substation percentage						-	-	74,775,490	-	-	-
9287	REAL PROP-LAND SVCS-STHRN	Misc	0% Subs	Allocated according to substation percentage						-	12,869	-	-	-	-
9440	WESTMINSTER FENWICK BLDG	Offices & h	0% Subs	Allocated according to substation percentage						-	8,929	-	-	-	-
9900	PLANT ACCTG-MISC. LEDGER	Offices & h	0% Subs	Allocated according to substation percentage						631	-	-	-	-	-
5110	WABASH (NEW) SUB	66kV	0% Subs	Allocated according to substation percentage						-	24,360	-	-	-	-
5139	GENAMIC SUB	66kV	0% Subs	Allocated according to substation percentage						-	5,739	-	-	-	-
5164	REPETTO SUB	66kV	0% Subs	Allocated according to substation percentage						-	17,757	-	-	-	-
5215	MADRID SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	575	-	-	-	-
5221	OCEAN PARK SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	4,164	-	-	-	-
5226	BRIGHTON SUB	66kV	0% Subs	Allocated according to substation percentage						-	3,804	-	-	-	-
5229	MOBILLOIL SUB	66kV	0% Subs	Allocated according to substation percentage						-	3,652	-	-	-	-
5239	CRATER SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	9,057	-	-	-
5242	COLORADO SUB	66kV	0% Subs	Allocated according to substation percentage						-	40,180	-	-	-	-
5252	ROLLING HILLS SUB	66kV	0% Subs	Allocated according to substation percentage						-	27,085	-	-	-	-
5260	COLOSSUS SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	7,141	-	-	-
5268	TOPAZ SUB	66kV	0% Subs	Allocated according to substation percentage						-	29,219	-	-	-	-
5271	TAHITI SUB	66kV	0% Subs	Allocated according to substation percentage						-	23,749	-	-	-	-
5275	MARYMOUNT SUB	66kV	0% Subs	Allocated according to substation percentage						-	4,862	-	-	-	-
5282	PALOGEN SUB	66kV	0% Subs	Allocated according to substation percentage						-	42,738	-	-	-	-
5302	BIG CREEK 2	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	1,018,533	-	-	-
5320	OCTOL SUB	66kV	0% Subs	Allocated according to substation percentage						-	13,523	-	-	-	-
5339	GREENHORN SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5410	FLOWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	11,009	-	-	-
5412	SILVER PEAK SUB	55kV	0% Subs	Allocated according to substation percentage						-	-	84,025	-	-	-
5520	MODOC SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5576	NEWHALL SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	413,802	-	-	-
5616	FLANCO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	22,342	-	-	-	-
5618	FIREHOUSE SUB	66kV	0% Subs	Allocated according to substation percentage						-	6,520	-	-	-	-
5621	HUSTON SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	45,573	-	-	-	-
5626	PEDLEY SUB	66kV	0% Subs	Allocated according to substation percentage						-	22,868	-	-	-	-
5633	SAN DIMAS SUB	66kV	0% Subs	Allocated according to substation percentage						-	19,651	-	-	-	-
5645	LAYFAIR SUB	66kV	0% Subs	Allocated according to substation percentage						-	2,166	-	-	-	-
5650	LINDE AIR SUB	66kV	0% Subs	Allocated according to substation percentage						-	15,935	-	-	-	-
5654	REDUCTION SUB	66kV	0% Subs	Allocated according to substation percentage						-	34,835	-	-	-	-
5656	BAIN SUB	66kV	0% Subs	Allocated according to substation percentage						-	704	-	-	-	-
5658	PIPE SUB	66kV	0% Subs	Allocated according to substation percentage						-	32,989	-	-	-	-
5714	CUDAHY SUB	66kV	0% Subs	Allocated according to substation percentage						-	32,033	-	-	-	-
5754	SOMERSET SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	33,691	-	-	-	-
5766	DAISY SUBSTATION	3kV & Belo	0% Subs	Allocated according to substation percentage						-	12,646	-	-	-	-
5893	PASSONS SUB	66kV	0% Subs	Allocated according to substation percentage						-	3,215	-	-	-	-
1860	PALOVERDE NUCLE GEN PLT-U1	500	0% Subs	Allocated according to substation percentage						-	-	2,597,299	232,241	-	84,727
1864	PALO VERDE-UNIT 2	500	0% Subs	Allocated according to substation percentage						-	-	2,488,614	181,545	-	96,210
1866	PALO VERDE-UNIT 3	500	0% Subs	Allocated according to substation percentage						-	-	5,007,636	253,332	-	92,249
1867	PALOVERDE-COMMON 1,2,3	500	0% Subs	Allocated according to substation percentage						7,766	-	2,722,616	854,373	-	-
5832	LA HABRA SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	-	17,125	-	-	-
8078	SUN CITY(NEW)	115	0% Subs	Allocated according to substation percentage						119,513	1,887,934	7,918,228	-	-	-
8096	MARSCHINO SUB	115	0% Subs	Allocated according to substation percentage						27,809	1,611,970	9,532,365	-	-	-
8098	EISENHOWER SUB	115	0% Subs	Allocated according to substation percentage						189,886	812,071	12,175,309	-	-	-
8348	MORAGA	115	0% Subs	Allocated according to substation percentage						40,720	307,859	17,249,030	-	-	-
9310	TELCOMM-ALHAMBRA	Misc	0% Subs	Allocated according to substation percentage						327,844	-	-	-	(2,151)	-
6011	RIALTO COMB FAC. BLDG B&C	Offices & h	0% Subs	Allocated according to substation percentage						-	2,770	-	-	-	-
8121	CANTIL SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	7,293	-	-	-
8123	CATHEDRAL CITY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	9,939	-	-	-	-
8136	DESERT OUTPOST SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	13,544	-	-	-	-
8159	EL SOBRANTE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	4,126	-	-	-	-
8161	HARVARD SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	8,458	-	-	-
8170	INYOKERN TOWN SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	7,735	-	-	-

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				Circuit Miles						Balance by FERC Account (Total Transmission) Current Study					
Location	Description	Voltage	Study	UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
8172	JOSHUA TREE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	9,177	-	-	-	-
8216	PEERLESS SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	7,635	-	-	-
8238	SILVER SPUR SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	8,994	-	-	-	-
8244	SUNNY DUNES SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	13,259	-	-	-	-
8255	TWENTYNINE PALMS SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	11,480	-	-	-	-
9077	INFO TECH-GO2	Offices & N	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
9235	RP&AS-NRTHSHRE REC AREA	Offices & N	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
2612	MINARET	3kV & Belo	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5120	FEDERALGEN SUB	66kV	0% Subs	Allocated according to substation percentage						-	6,944	-	-	-	-
5152	JOSE SUB	66kV	0% Subs	Allocated according to substation percentage						-	56,769	3,887	-	-	-
5175	VAIL SUB	66kV	0% Subs	Allocated according to substation percentage						-	15,470	-	-	-	-
5188	DALTON SUB	66kV	0% Subs	Allocated according to substation percentage						-	82,794	-	-	-	-
5201	BEVERLY HILLS SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-
5210	HOWARD SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	17,431	-	-	-
5405	CANWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	9,895	-	-	-
5406	ENWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	11,023	29,527	-	-	-
5409	MORWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	6,367	-	-	-
5414	DUTCHWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	11,023	7,801	-	-	-
5415	OAKWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	23,342	-	-	-
5424	MIDWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	23,000	-	-	-
5535	CHARMIN SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	27,327	-	-	-
5572	GAVIOTA SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	118,097	-	-	-
5604	TIMOTEO SUB	66kV	0% Subs	Allocated according to substation percentage						-	1,760	-	-	-	-
5629	REDLANDS SUB	66kV	0% Subs	Allocated according to substation percentage						-	29,558	21,359	-	-	-
5636	YUCAIPA SUB	66kV	0% Subs	Allocated according to substation percentage						-	31,005	-	-	-	-
5661	RUNNING SPRINGS SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	31,398	-	-	-	-
5667	ARCHLINE SUB	66kV	0% Subs	Allocated according to substation percentage						-	12,856	-	-	-	-
5668	CRESTMORE SUB	66kV	0% Subs	Allocated according to substation percentage						-	14,975	-	-	-	-
5680	DIAMOND BAR SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	49,398	-	-	-
5718	FRUITLAND SUB	66kV	0% Subs	Allocated according to substation percentage						-	12,712	-	-	-	-
5720	FREEMONT SUB	66kV	0% Subs	Allocated according to substation percentage						-	6,957	-	-	-	-
5779	DAVIDSON CITY	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,957	-	-	-	-
5812	MURPHY SUB	66kV	0% Subs	Allocated according to substation percentage						-	20,469	-	-	-	-
5886	PIONEER SUB	66kV	0% Subs	Allocated according to substation percentage						-	6,944	-	-	-	-
8207	HOLIDAY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	19,356	-	-	-	-
8210	OLIVE LAKE SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	558	-	-	-	-
8231	RUBIDOUX SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,317	-	-	-	-
8252	TRONA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	6,499	7,864	-	-	-
8056	LAKEVIEW SUB	115	0% Subs	Allocated according to substation percentage						100	9,442,822	22,745,941	-	-	-
8058	EASTWIND SUB	220	0% Subs	Allocated according to substation percentage						-	-	23,430	-	-	-
8081	BADLANDS SUB	115	0% Subs	Allocated according to substation percentage						-	21,176	-	-	-	-
8339	GREENWALD SUB	115	0% Subs	Allocated according to substation percentage						-	10,350	8,152	-	-	-
8373	BLAST SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	471,546	69,402	-	-	-
5305	DELANO SUB	66kV	0% Subs	Allocated according to substation percentage						-	60,018	-	-	-	-
5312	LIBERTY SUB	66	0% Subs	Allocated according to substation percentage						-	301,990	-	-	-	-
5321	PIXLEY SUB	66kV	0% Subs	Allocated according to substation percentage						-	18,619	-	-	-	-
5331	VISALIA SUB	66kV	0% Subs	Allocated according to substation percentage						-	35,561	-	-	-	-
1020	STM GEN	Misc	0% Subs	Allocated according to substation percentage						-	-	-	-	6,749	-
6027	MONROVIA SERVICE CENTER	MR SRVC F	0% Subs	Allocated according to substation percentage						-	-	-	-	1,568	-
8366	LEATHERNECK SUB	115	0% Subs	Allocated according to substation percentage						-	38,734	12,644	-	-	-
8071	CLEMENTINE	115	0% Subs	Allocated according to substation percentage						-	41,635	69,695	-	-	-
5216	MANHATTAN SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	10,762	-	-	-	-
5218	MONETA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	16,856	-	-	-	-
5227	REDONDO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	33,678	-	-	-	-
5228	ROSECRANS SUB	66kV	0% Subs	Allocated according to substation percentage						-	70,272	-	-	-	-
5231	SANTA MONICA SUB	66kV	0% Subs	Allocated according to substation percentage						-	19,278	-	-	-	-
5246	DITMAR SUB	66kV	0% Subs	Allocated according to substation percentage						-	8,978	-	-	-	-
5254	HAVEDA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	30,118	-	-	-	-
5255	LUNADA SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	8,090	-	-	-	-
5267	SPACE SUB	66kV	0% Subs	Allocated according to substation percentage						-	21,279	-	-	-	-

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				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
5274	GALAXY SUB	66kV	0% Subs	Allocated according to substation percentage						-	8,898	-	-	-	-
5411	ARBWIND SUB	66kV	0% Subs	Allocated according to substation percentage						-	-	6,186	-	-	-
5570	VEGAS SUB	66kV	0% Subs	Allocated according to substation percentage						5,801	-	-	-	-	-
5624	NORCO SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	66,934	-	-	-	-
5628	TENNESSEE SUB	66kV	0% Subs	Allocated according to substation percentage						-	44,558	-	-	-	-
5635	UPLAND SUB	66kV	0% Subs	Allocated according to substation percentage						-	21,532	-	-	-	-
5639	FRANCIS SUB	66kV	0% Subs	Allocated according to substation percentage						-	59,194	-	-	-	-
5726	HATHAWAY SUBSTATION	66kV	0% Subs	Allocated according to substation percentage						-	21,380	-	-	-	-
5881	JOHANNA SUBSTATION	220	0% Subs	Allocated according to substation percentage						-	14,630	-	-	-	-
8119	CADY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	13,561	-	-	-	-
8140	EAST BARSTOW SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	12,855	-	-	-	-
8148	FOREST HOME SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	15,135	-	-	-	-
8175	INDIAN WELLS SUB	115	0% Subs	Allocated according to substation percentage						-	103,197	-	-	-	-
8211	ORDWAY SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	15,610	-	-	-	-
8263	PEREZ SUB	3kV & Belo	0% Subs	Allocated according to substation percentage						-	29,219	-	-	-	-
8279	CORONA SUB	66kV	0% Subs	Allocated according to substation percentage						-	5,855	-	-	-	-
8295	TORTILLA SUB	115	0% Subs	Allocated according to substation percentage						-	48,114	-	-	-	-
9300	ALHAMBRA COMM SITE	Misc	0% Subs	Allocated according to substation percentage						-	-	9,775	-	-	-
2587	SKILAND (MAMMOTH LAKE) SUBSTA	3kV & Belo	0% Subs	Allocated according to substation percentage						-	129,612	-	-	-	-
1000	DIV MTCE / OVERHAUL MNGT	66kV	Mix Subs	Allocated according to substation percentage						-	-	6,285	-	-	-
1250	MOUNTAINVIEW POWER-COMMON	220	Mix Subs	Allocated according to substation percentage						-	-	27,266,420	-	-	-
1869	PALOVERDE-SWITCHYARD	500	Mix Subs	Allocated according to substation percentage						-	2,465,520	7,901,074	-	-	-
1870	PV UNIT 1-INCREMENTAL	500	Mix Subs	Allocated according to substation percentage						-	-	194,959	-	-	-
8076 & 1999	San Bernardino-220kv Switchyard &	220	Mix Subs	Allocated according to substation percentage						302,392	5,311,657	51,822,237	-	-	-
2211	BIG CREEK NO.1	220	Mix Subs	Allocated according to substation percentage						-	264,412	9,196,246	-	-	-
2212	BIG CREEK NO.2	220	Mix Subs	Allocated according to substation percentage						-	-	1,516,246	-	-	-
2229	BIG CREEK NO.8	220	Mix Subs	Allocated according to substation percentage						-	282,649	3,159,148	-	-	-
2230	BIG CREEK NO.3	220	Mix Subs	Allocated according to substation percentage						-	2,536,133	18,221,270	-	-	-
2234	BIG CREEK NO.2A	220	Mix Subs	Allocated according to substation percentage						-	-	1,031,434	-	-	-
5000	SUBSTN DIV	Misc	Mix Subs	Allocated according to substation percentage						-	-	3,270,205	-	-	-
5011	EAGLE ROCK SUB	220	Mix Subs	Allocated according to substation percentage						19,613	4,889,184	34,587,216	-	-	-
5012	MESA SUB	220	Mix Subs	Allocated according to substation percentage						2,031,347	10,373,614	56,262,058	-	-	-
5013	RIO HONDO SUB	220	Mix Subs	Allocated according to substation percentage						457,530	8,478,042	79,711,008	-	-	-
5023	EL NIDO SUB	220	Mix Subs	Allocated according to substation percentage						285,620	13,153,933	48,175,257	-	-	-
5024	LA CIENEGA SUB	220	Mix Subs	Allocated according to substation percentage						2,100,227	5,582,007	44,174,047	-	-	-
5025	ALAMITOS SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						63,557	3,018,404	37,805,974	-	-	-
5027	LG BCH SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						97,213	1,331,157	8,679,829	-	-	-
5028	REDONDO SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						13,018	39,761	5,931,998	-	-	-
5031	MAGUNDEN SUB	220	Mix Subs	Allocated according to substation percentage						8,363	3,933,110	17,716,717	-	-	-
5033	RECTOR SUB	220	Mix Subs	Allocated according to substation percentage						394,843	21,185,111	118,941,907	-	-	-
5035	VESTAL SUB	220	Mix Subs	Allocated according to substation percentage						7,243	2,055,230	55,783,186	-	-	-
5038	NO. T/S REG OFC/VALENCIA	Misc	Mix Subs	Allocated according to substation percentage						123,342	3,723,403	-	-	-	-
5040	EAGLE MT. SUB	220	Mix Subs	Allocated according to substation percentage						-	411,343	18,744,677	-	-	-
5041 & 8041	Inyokern (CEP) & Inyokern	115	Mix Subs	Allocated according to substation percentage						7,964	485,869	14,821,219	-	-	-
5042 & 8041	Kramer & Kramer-Radial Line Agmt	220	Mix Subs	Allocated according to substation percentage						48,811	2,548,729	52,285,351	-	-	-
5043	CIMA SUB	220	Mix Subs	Allocated according to substation percentage						1,824	17,123	3,284,606	-	-	-
5050	PARDEE SUB	220	Mix Subs	Allocated according to substation percentage						970,263	10,904,323	44,522,083	-	-	-
5055	GOLETA SUB	220	Mix Subs	Allocated according to substation percentage						236,194	3,916,189	28,647,893	-	-	-
5056	MOORPARK SUB	220	Mix Subs	Allocated according to substation percentage						184,091	6,657,112	68,170,662	-	-	-
5059	BAILEY SUB	220	Mix Subs	Allocated according to substation percentage						111,063	7,296,501	33,994,407	-	-	-
5060	PADUA SUB	220	Mix Subs	Allocated according to substation percentage						149,547	5,337,785	54,332,706	-	-	-
5062	CHINO SUB	220	Mix Subs	Allocated according to substation percentage						34,465	3,865,219	38,135,480	-	-	-
5063	JULIAN HINDS SUB	220	Mix Subs	Allocated according to substation percentage						-	1,464,256	23,926,554	-	-	-
5064	VISTA SUB	220	Mix Subs	Allocated according to substation percentage						52,109	26,210,254	76,099,574	-	-	-
5067	DEVERS SUB	500	Mix Subs	Allocated according to substation percentage						1,370,884	42,025,572	227,548,514	-	-	-
5070 & 803	Valley & Valley - CEP	500	Mix Subs	Allocated according to substation percentage						311,358	40,962,650	210,071,523	-	-	-
5071	HINSON SUB	220	Mix Subs	Allocated according to substation percentage						678,278	2,621,102	36,780,116	-	-	-
5073	LIGHTHIPE SUB	220	Mix Subs	Allocated according to substation percentage						164,680	14,096,269	37,403,798	-	-	-

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				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356
5075	DEL AMO SUB	220	Mix Subs	Allocated according to substation percentage						164,747	6,720,665	60,588,110	-	-	-
5079	WINDHUB SUB	500	Mix Subs	Allocated according to substation percentage						1,231,926	31,901,425	211,759,754	-	-	-
5081	BARRR SUB	220	Mix Subs	Allocated according to substation percentage						86,188	4,105,722	61,137,041	-	-	-
5082	VILLA PARK SUB	220	Mix Subs	Allocated according to substation percentage						270,570	7,005,025	54,383,358	-	-	-
5084	CENTER SUB	220	Mix Subs	Allocated according to substation percentage						71,802	5,224,510	52,694,273	-	-	-
5085 & 588	JOHANNA SUB	220	Mix Subs	Allocated according to substation percentage						813,416	5,559,678	25,639,314	-	-	-
5086	ELLIS SUB	220	Mix Subs	Allocated according to substation percentage						59,737	5,351,860	76,011,564	-	-	-
5087	OLINDA SUB	220	Mix Subs	Allocated according to substation percentage						390,538	2,233,806	33,241,683	-	-	-
5088	SANTIAGO SUB	220	Mix Subs	Allocated according to substation percentage						557,976	13,574,840	153,601,724	-	-	-
5096	ETIWANDA SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						186,144	4,340,556	56,563,185	-	-	-
5100	METRO REGION	3kV & Belo	Mix Subs	Allocated according to substation percentage						-	-	265,939	-	-	-
5556	NEENACH SUB	66kV	Mix Subs	Allocated according to substation percentage						-	-	408,193	-	-	-
8065	ALBERHILL SUB	500	Mix Subs	Allocated according to substation percentage						-	-	-	-	-	-
9339	CONWAY SUMMIT COMM SITE	Misc	Mix Subs	Allocated according to substation percentage						-	-	14,913	-	-	-
8370	SANDLOT SUB	220	Mix Subs	Allocated according to substation percentage						-	790,436	4,014,371	-	-	-
8063	CHEVMAIN	220	Mix Subs	Allocated according to substation percentage						-	376,650	15,382,416	-	-	-
6072	BARSTOW NO RGN-SAN BERDOO	MR SRVC F	Mix Subs	Allocated according to substation percentage						-	7,617	-	-	-	-
9010	B&A-T/S 3RD FLOOR-G03	220	Mix Subs	Allocated according to substation percentage						-	-	823	-	-	-
9024	CHINO OFC BLDG (FACILITY)	Misc	Mix Subs	Allocated according to substation percentage						-	373,558	-	-	-	-
7010	FRESNO COUNTY	3kV & Belo	Mix Subs	Allocated according to substation percentage						-	-	-	-	-	-
7056	VENTURA COUNTY	3kV & Belo	Mix Subs	Allocated according to substation percentage						-	-	74,798	-	-	-
8000	ROADWAY(CEP)	115	Mix Subs	Allocated according to substation percentage						110,643	741,715	12,982,651	-	-	-
8006	EL CASCO SUBSTATION	220	Mix Subs	Allocated according to substation percentage						-	30,221,976	56,892,734	-	-	-
8037	TORTILLA(CEP) SUB	115	Mix Subs	Allocated according to substation percentage						17,114	1,027,694	11,213,201	-	-	-
8049	VICTOR SUB	220	Mix Subs	Allocated according to substation percentage						22,088	12,172,330	112,484,145	-	-	-
9203	FUELS	Misc	Mix Subs	Allocated according to substation percentage						-	-	341,890	-	-	-
9221	INNOVATION VILLAGE 1	Offices & N	Mix Subs	Allocated according to substation percentage						-	-	1,509,815	-	-	-
9243	CONTROL SYS SEC-ALHAMBRA	Offices & N	Mix Subs	Allocated according to substation percentage						-	375,558	2,962,532	-	-	-
9078	IRVINE OPER CENTER	Misc	Mix Subs	Allocated according to substation percentage						-	8,245	-	-	-	-
9330	TELECOMM-ALHAMBRA	Misc	Mix Subs	Allocated according to substation percentage						-	-	108,737	-	-	-
2556	CONTROL STATION	115	Mix Subs	Allocated according to substation percentage						-	1,598,259	15,357,249	-	40,798	25,499
5014	WALNUT SUB	220	Mix Subs	Allocated according to substation percentage						97,955	5,107,760	34,639,105	-	-	-
5015	GOULD SUB	220	Mix Subs	Allocated according to substation percentage						29,300	1,468,803	32,613,875	-	-	-
5021	LA FRESA SUB	220	Mix Subs	Allocated according to substation percentage						101,370	5,951,629	95,497,329	-	-	-
5052	ANTELOPE SUB	500	Mix Subs	Allocated according to substation percentage						21,983	7,700,368	204,807,660	-	-	-
5053	SANTA CLARA SUB	220	Mix Subs	Allocated according to substation percentage						140,739	3,886,681	51,924,120	-	-	-
5069	MIRA LOMA SUB	500	Mix Subs	Allocated according to substation percentage						474,735	50,977,536	207,341,363	-	123,410	-
5074	LAGUNA BELL SUB	220	Mix Subs	Allocated according to substation percentage						131,263	3,046,694	49,685,538	-	-	-
5083	VIEJO SUBSTATION	220	Mix Subs	Allocated according to substation percentage						13,285,971	8,784,046	34,762,159	-	-	-
8012	MIRAGE(CEP) SUB	220	Mix Subs	Allocated according to substation percentage						629,541	4,895,812	57,424,478	1	-	1
5034	SRINGVILLE SUB	220	Mix Subs	Allocated according to substation percentage						12,198	2,080,488	33,939,967	-	-	6,814

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				357	358	359
4026	MIDWAY-VINCENT LINES 1&2	500	Lines	-	-	795,535
4031	DWP-EDSN CELILO-SYLMR CA	1000	Lines	-	-	136,841
4034	DWP-EDSN CELILO-SYLMR NV	1000	Lines	-	-	668,871
4045	PARDEE-SYLMAR LINES 1&2	220	Lines	-	-	38,006
4046	EAGLE ROCK-SYLMAR LNE	220	Lines	-	-	-
4051	PARDEE-VINCENT LN 1	220	Lines	-	-	145,317
4059	PARDEE-VINCENT LINE CONST	220	Lines	-	-	20,953
4070	RIO HONDO-VINCENT LN 2	220	Lines	-	-	11,892
4101	MANY TRANSMISSION LINES	220	Lines	-	-	1,151,849
4102	COGEN/RENEWABLE ENERGY SO	220	Lines	-	-	824,324
4104	DEVERS-HINS LN, OTHERS	220	Lines	1,480	260,160	2,586,970
4105	33 AND 66 KV LINES	66	Lines	69,324,184	286,510,364	17,873,846
4107	ANTELOPE/MESA LINE, OTHER	220	Lines	-	-	88,022,589
4108	CHINO-SERRANO/SN ONFRE LN	220	Lines	-	-	733,300
4109	COACHELLA VALLEY-DEVERS (SCE PC	220	Lines	-	-	-
4111	BIG CRK 3-BIG CRK 4	220	Lines	-	-	29,429
4113	BIGCRK-SPRGVL, MGDN-SPRGV	220	Lines	-	-	631,018
4114	ALAMITOS-MESA LN, OTHERS	220	Lines	-	-	304,171
4115	HINSON-LIGHTHIPE 1&2	220	Lines	-	-	27,417
4116	HINSON-LAFRESA, OTHERS	220	Lines	180,589	456,828	13,558
4117	ELDRDO-CIMA-PISGAH LN1,2	220	Lines	-	-	151,162
4119	CENTER-MESA LN, OTHERS	220	Lines	-	-	2,830,220
4120	ALAMITOS-CENTER, OTHERS	220	Lines	256	-	33,420
4121	BIG CREEK 4-SPRGVLL-MGDN	220	Lines	-	-	251,148
4123	LUGO-VINCENT LINES 1&2	500	Lines	-	-	1,891
4124	BIG CRK 1-CMP TEN--PRTL	66	Lines	1,343	68,591	-
4125	GOLETA-SNTA CLARA, OTHERS	220	Lines	-	-	1,781,163
4127	NORTH BOULDER-MEAD, OTHER	220	Lines	-	-	5,205
4128	LYTLE CREEK-POLE 534694E	66	Lines	-	-	-
4129	KERN RIVER3-VESTAL 66 KV	66	Lines	-	-	-
4130	MOHAVE-LUGO 500KV	500	Lines	-	-	19,051
4132	CUMMINGS-KERBN RIV1, OTHE	66	Lines	-	-	40,795
4133	BOREL---WALKER 66KV LN	66	Lines	-	-	11,455
4136	LUGO-ELDORADO LN	500	Lines	-	-	117,747
4137	LUGO-ELDORADO LN	500	Lines	-	-	20,088
4138	LUGO-MIRA LOMA 2&3	500	Lines	-	-	591,464
4139	SPRGVLL-TULE 66KV LN	66	Lines	-	-	-
4140	MOHAVE-LUGO 500 KV LN	500	Lines	-	-	329,333
4141	MOHAVE-ELDORADO LN	500	Lines	-	-	55,916
4142	BOREL-WELDON 66KV LN	66	Lines	-	-	-
4143	ELDORADO-BORDER 500 KV LN	500	Lines	-	-	145,064
4144	ELDORADO-MEAD LNS 1&2	220	Lines	-	-	1,023
4147	VINCENT-PARDEE LN 2	220	Lines	-	-	145,187
4148	MIRA LOMA-SERRANO LN	500	Lines	-	-	761,201
4149	SANTA ANA LNS 1,2,3	66	Lines	-	-	1,093
4153	VINCENT-PEARBLOSSOM LN	220	Lines	-	-	23,687
4154	LUGO-VICTORVLL EDSON-DWP	500	Lines	-	-	-
4155	MIDWAY-VINCENT LN 3	500	Lines	-	-	187,772
4156	ELLIS-SANTIAGO LNS 1,2	220	Lines	-	-	38,262
4157	RIO HONDO-VINCENT NO. 2 220/50K	220	Lines	-	-	538,932
4158	LUCERNE-LUGO/MIRA LOMA LN	500	Lines	-	-	-
4166	BIG CRK 2-BIG CRK 8	220	Lines	-	-	-
4168	BIG CRK 3-MAMMOTH POOL	220	Lines	-	-	37,890
4169	BIG CRK 1-RECTOR, OTHER	220	Lines	-	-	1,543,646
4185	DEVERS-PALO VERDE	500	Lines	-	1,151,660	467,228
4186	DEVERS-PALO VERDE	500	Lines	-	-	147,245
4187	DEVERS-VALLEY LNS 1,2	500	Lines	-	-	18,238,694
4188	SERRANO-VALLEY LN	500	Lines	-	-	2,640,525
4189	SERRANO-VILLA PK LN 1,2,3	220	Lines	-	-	-
4191	VALLEY-INLAND 500KV TL	500	Lines	-	-	-

Balance by FERC Account (ISO Transmission) Current Study							
350	352	353	354	355	356	357	358
2,910,822	8,464	27,105	22,393,506	741,658	22,941,425	-	-
-	95,841	-	30,893,739	-	34,499,118	-	-
-	541	-	9,244,971	-	5,631,427	-	-
187,213	106,089	-	701,607	-	453,192	-	-
186,657	-	-	214,409	-	62,108	-	-
-	-	-	316,356	-	204,878	-	-
13,002	-	-	966,737	-	202,343	-	-
61,040	-	-	436,317	-	1,468,658	-	-
1,505,998	640,267	96,328	24,834,962	2,027,659	30,728,982	-	-
831,624	-	-	1,652,083	194,410	2,510,844	-	-
1,261,122	77,815	48,315	15,786,632	15,443,845	29,769,966	1,480	260,160
226,190	76,795	16,982	139,203	6,632,460	1,890,322	-	-
4,267,463	1,173,407	-	142,961,324	12,130,547	61,857,731	-	-
8,071,997	4,334,877	-	15,266,486	1,552,040	14,496,460	-	-
-	25,255	-	-	-	467,285	-	-
1,944	-	-	133,734	-	284,487	-	-
874,791	23,986	-	20,158,202	77,657,085	16,572,841	-	-
3,063,711	1,037,445	630,945	13,929,922	2,624,482	11,160,273	-	-
1,607,024	616,675	2,149	4,183,107	498,077	2,127,313	-	-
3,594,552	341,590	2,065	3,216,620	11,407,260	7,799,425	180,589	456,828
1,004,389	56,362	12,857	25,552,509	4,938,337	12,076,607	-	-
1,671,908	189,116	80	25,192,344	67,770	20,613,181	-	-
3,793,539	449,618	26,643	7,657,552	782,172	6,256,343	227	-
353,928	55,314	1	17,120,950	3,369,977	9,010,570	-	-
1,749,466	-	16,633	13,081,444	103,494	8,112,443	-	-
-	-	-	-	-	-	-	-
8,561,943	879,660	1,427	24,034,115	2,324,116	13,572,920	-	-
12,581	-	-	410,658	292,975	348,612	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
157,990	-	-	1,471,682	-	517,455	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1,330,373	-	-	17,938,062	2,050,363	10,609,936	-	-
16,589	-	-	3,643,443	-	4,529,049	-	-
9,588,512	3,063,534	567,799	29,110,209	118,240	18,451,745	-	-
-	-	-	-	-	-	-	-
278,112	7,296	-	17,293,734	1,513,721	10,310,625	-	-
76,199	-	-	4,434,062	-	1,251,359	-	-
-	-	-	-	-	-	-	-
6,167	-	-	4,052,185	-	1,880,705	-	-
9,994	-	-	473,674	358,194	429,215	-	-
3,884,037	-	1,880	2,765,700	-	12,521,227	-	-
1,700,240	-	-	22,356,623	-	7,820,620	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
748,912	51,478	-	1,527,713	-	759,625	-	-
5,825,616	-	-	20,953,606	1,757,686	7,511,408	-	-
12,019,808	-	-	2,262,700	6,476,819	2,971,326	-	-
105,605	18,610	-	266,387,838	17,174,186	65,308,264	-	-
498,252	-	-	-	-	-	-	-
9,034	-	-	164,051	-	136,431	-	-
-	-	-	-	-	-	-	-
11,262,310	675,134	2,633	14,301,829	17,441,967	48,700,526	-	-
14,776,950	-	-	294,481,783	2,866,726	138,418,320	-	1,151,660
1,193,710	-	-	22,930,180	-	24,561,685	-	-
10,441,139	192,106	-	222,122,578	306,070	48,902,440	-	-
2,855,109	267,678	-	25,551,539	514,984	14,833,343	-	-
78,248	37,274	-	1,521,458	-	1,397,144	-	-
-	-	-	-	-	-	-	-

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Location		Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study								
					357	358	359						
4193	BIG CRK 1-EASTWOOD	220	Lines	-	-	-	-	-	-	-	-	-	-
4207	E.MAGUNDEN-ANTELOPE 220KV	220	Lines	-	-	-	-	-	-	-	-	-	-
4211	BIG CREEK #3/#4 220KV LIN	220	Lines	-	-	-	-	-	-	-	-	-	-
4300	MET T/S REGION	66	Lines	103,541	439,317	-	-	3,150	-	-	-	-	-
4360	MIRA LOMA - VINCENT 500 KV LINE	500	Lines	190,597,928	66,846,572	36,489,379	25,733,774	2,467,564	-	381,010,049	75,786,919	164,694,097	190,597,928
4400	COASTAL T/S REGION	66	Lines	1,437,204	2,604,820	-	-	-	-	-	-	-	-
4500	EASTERN T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	-
4600	NRTHN T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	-
4644	ANTELOPE-PARDEE	220	Lines	-	-	3,941,302	3,934,890	-	-	86,011,136	7,668,801	39,491,898	-
4700	EASTERN T/S REG	66	Lines	290,840	784,929	48	-	-	-	-	-	-	-
4705	CORONA-JEFFERSON 66 KV LN	55	Lines	-	-	35,849	138,481	1,202,044	-	-	9,542,540	1,652,517	-
4708	ANTELOPE-WINDHUB 500KV LN	500	Lines	-	-	-	16,796,780	-	-	14,032,500	30,806,236	20,048,113	-
4709	WINDHUB-HIGHWIND 230KV LN	220	Lines	-	15,046,586	-	3,268,655	-	-	33,222,665	-	12,112,068	-
4710	ANTELOPE-WHIRLWIND 500KV LN	500	Lines	-	-	2,227,208	15,917,279	-	-	41,810,447	-	38,660,689	-
4711	WHIRLWIND-WINDHUB 500KV L	500	Lines	-	-	-	71,262	-	-	56,720,609	(10,509)	20,121,886	-
4712	ANTELOPE - VINCENT #2 500KV	500	Lines	-	-	-	11,885,452	-	-	167,665,138	6,874,070	50,353,456	-
4716	ANTELOPE-VINCENT #1 500 kv	500	Lines	-	-	-	-	-	-	-	-	-	-
4730	LEE VINING-LUNDY 55K 4771	55	Lines	-	-	-	-	-	-	-	-	-	-
4731	POOLE-LEE VINING 115KV LI	115	Lines	-	-	-	-	-	-	-	-	-	-
4732	RUSH CRK-LEE VINING 115KV	115	Lines	-	-	(38)	-	-	-	-	-	-	-
4733	ELDORADO-IVANPAH NO 1&2 - CA	220	Lines	-	-	-	-	-	-	25,282,715	1,219,314	20,581,574	-
4734	ELDORADO-IVANPAH NO 1&2 - NV	220	Lines	-	-	2,178,685	352,196	-	-	49,174,369	666,768	164,308,741	-
4755	WHIRLWIND--VINCENT&MIDWAY 500KV	500	Lines	-	-	-	-	-	-	-	-	-	-
4756	DEVERS-SN BRDNO 220 KV LN	220	Lines	-	-	119,281	1,079,238	16,401	-	6,958,865	568,180	4,604,528	-
4759	BLYTHE-EAGLE MT 161 KV LN	161	Lines	-	-	4,845	33,310	-	-	-	2,770,000	331,263	-
4781	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	1,376	1,255	-	-	96,551	42,433	93,272	-
4782	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	21,669	165,196	-	-	327,795	1,746,964	811,371	-
4792	COGEN/RENEW ENERGY 220KV & AB	220	Lines	-	-	-	-	-	-	-	-	-	-
4799	HUMAN EXTERNAL CARGO TRAINING	66	Lines	-	-	-	-	-	-	-	-	-	-
4800	VAR. TRANS. LINES-S/E DIV	66	Lines	3,783,979	6,890,890	-	-	-	-	-	-	-	-
4900	NORTHEASTERN T/S DIV.	66	Lines	-	-	-	-	-	-	-	-	-	-
4106	COGEN/RENEW ENGY SOURCES	115	Lines	336,087	1,311,207	241,765	-	-	-	-	-	-	-
4106	COGEN/RENEW ENGY SOURCES	66	Lines	634,276	2,474,554	456,267	-	-	-	-	-	-	-
4118	MRA LMA-VLL PK LNS, OTHR	220	Lines	-	-	175,735	4,640,667	656,334	1,869	15,973,331	429,549	12,260,887	-
4118	MRA LMA-VLL PK LNS, OTHR	66	Lines	-	-	4,423	-	-	-	-	-	-	-
4135	LUGO-VICTOR LNS, OTHER	220	Lines	-	-	102,879	1,012,919	63,032	-	4,549,734	697,894	5,250,757	-
4135	LUGO-VICTOR LNS, OTHER	115	Lines	-	-	24,691	426,836	26,561	-	1,917,224	294,087	2,212,630	-
4735	BISHOP CRKS5&115KV LINES	115	Lines	-	-	4,903	-	-	-	-	-	-	-
4735	BISHOP CRKS5&115KV LINES	55	Lines	-	-	9,381	-	-	-	-	-	-	-
4750	115 KV LNS, ESTN T/S REG	115	Lines	4,457,762	14,354,819	1,827,047	4,570,663	80,041	1,126,578	1,227,150	53,940,865	16,593,762	70,621
4750	115 KV LNS, ESTN T/S REG	66/55/33	Lines	42,608	137,205	17,463	-	-	-	-	-	-	-
2236	BIG CREEK NO.4	220	100% Subs	-	-	-	-	43,064	4,684,168	-	-	-	-
2570	INO	220	100% Subs	-	-	-	-	287,755	4,197,276	-	-	-	-
5001	METRO GOM MAINT	500	100% Subs	-	-	-	-	-	31,531,834	-	-	-	-
5019	HARBORGEN SUB	220	100% Subs	-	-	-	-	18,729	3,991,930	-	-	-	-
5026	EL SEGUNDO SWITCHRACK SUB	220	100% Subs	-	-	-	12,470	102,005	2,244,645	-	-	-	-
5032	MIDWAY SUB	500	100% Subs	-	-	-	-	396,679	190,211	-	-	-	-
5036	PASTORIA SUB	220	100% Subs	-	-	-	21,435	1,279,909	12,338,955	-	-	-	-
5044	CLWTR SWITCHRACKS 1,2	115	100% Subs	-	-	-	-	-	1,476,690	-	-	-	-
5045	MOHAVE SWITCHRACK	500	100% Subs	-	-	-	-	3,417,990	8,435,508	-	-	-	-
5047	RANCHO VISTA SUB	500	100% Subs	-	-	-	1,844,367	22,798,974	154,023,684	-	-	-	-
5054 & 895	Vincent	500	100% Subs	-	-	-	17,324,279	27,870,106	226,612,392	-	-	-	-
5058	SYLMAR SUB	220	100% Subs	-	-	-	-	19,757	1,948,141	-	-	-	-
5061	LUGO SUB	500	100% Subs	-	-	-	90,981	23,677,879	150,236,369	-	-	-	-
5065	PISGAH SUB	220	100% Subs	-	-	-	-	556,209	4,722,905	-	-	-	-
5089	LEWIS SUB	220	100% Subs	-	-	-	1,444	192,580	5,383,835	-	-	-	-
5091	MEAD SUB	500	100% Subs	-	-	-	-	-	12,306	-	-	-	-
5092	MOENKOPI SUB	500	100% Subs	-	-	-	-	-	1,516,885	-	-	-	-
5094	EAST SERIES CAPACITORS 1	500	100% Subs	-	-	-	-	857,212	8,323,790	-	-	-	-

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1000	DIV MTCE / OVERHAUL MNGT	66kV	Mix Subs	-	-	-
1250	MOUNTAINVIEW POWER-COMMON	220	Mix Subs	-	-	-
1869	PALOVERDE-SWITCHYARD	500	Mix Subs	-	-	-
1870	PV UNIT 1-INCREMENTAL	500	Mix Subs	-	-	-
3076 & 199	San Bernardino-220kv Switchyard &	220	Mix Subs	-	-	-
2211	BIG CREEK NO.1	220	Mix Subs	-	-	-
2212	BIG CREEK NO.2	220	Mix Subs	-	-	-
2229	BIG CREEK NO.8	220	Mix Subs	-	-	-
2230	BIG CREEK NO.3	220	Mix Subs	-	-	-
2234	BIG CREEK NO.2A	220	Mix Subs	-	-	-
5000	SUBSTN DIV	Misc	Mix Subs	-	-	-
5011	EAGLE ROCK SUB	220	Mix Subs	-	-	-
5012	MESA SUB	220	Mix Subs	-	-	-
5013	RIO HONDO SUB	220	Mix Subs	-	-	-
5023	EL NIDO SUB	220	Mix Subs	-	-	-
5024	LA CIENEGA SUB	220	Mix Subs	-	-	-
5025	ALAMITOS SWITCHRACK SUB	220	Mix Subs	-	-	-
5027	LG BCH SWITCHRACK SUB	220	Mix Subs	-	-	-
5028	REDONDO SWITCHRACK SUB	220	Mix Subs	-	-	-
5031	MAGUNDEN SUB	220	Mix Subs	-	-	-
5033	RECTOR SUB	220	Mix Subs	-	-	-
5035	VESTAL SUB	220	Mix Subs	-	-	-
5038	NO. T/S REG OFC/VALENCIA	Misc	Mix Subs	-	-	-
5040	EAGLE MT. SUB	220	Mix Subs	-	-	-
5041 & 804	Inyokern (CEP) & Inyokern	115	Mix Subs	-	-	-
5042 & 804	Kramer & Kramer-Radial Line Agmt	220	Mix Subs	-	-	-
5043	CIMA SUB	220	Mix Subs	-	-	-
5050	PARDEE SUB	220	Mix Subs	-	-	-
5055	GOLETA SUB	220	Mix Subs	-	-	-
5056	MOORPARK SUB	220	Mix Subs	-	-	-
5059	BAILEY SUB	220	Mix Subs	-	-	-
5060	PADUA SUB	220	Mix Subs	-	-	-
5062	CHINO SUB	220	Mix Subs	-	-	-
5063	JULIAN HINDS SUB	220	Mix Subs	-	-	-
5064	VISTA SUB	220	Mix Subs	-	-	-
5067	DEVERS SUB	500	Mix Subs	-	-	-
5070 & 803	Valley & Valley - CEP	500	Mix Subs	-	-	-
5071	HINSON SUB	220	Mix Subs	-	-	-
5073	LIGHTHIPE SUB	220	Mix Subs	-	-	-

[illegible]

Lines:

1000 kV T Lines
500 kV T Lines
220 kV T Lines
161 kV T Lines
115 kV T Lines
66 kV T Lines
55 kV T Lines
Total Lines

Balance by FERC Account (ISO Transmission) Current Study							
350	352	353	354	355	356	357	358
30,791	954,397	10,149,392	-	-	-	-	-
1,095,379	27,506,352	188,265,629	-	-	-	-	-
28,618	1,323,442	19,813,149	-	-	-	-	-
84,404	2,377,133	16,143,270	-	-	-	-	-
7,183	413,285	4,896,869	-	-	-	-	-
263,466	1,568,039	9,174,666	-	-	-	-	-
13,938	1,317,885	16,494,932	-	-	-	-	-
60,194	344,299	4,282,558	-	-	-	-	-
436,151	10,610,991	120,065,247	-	-	-	-	-
36,584	780,185	11,556,513	-	-	-	-	-
-	-	181,792	-	-	-	-	-
-	-	240,768	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	8,613	-	-	-	-	-
-	459,748	2,334,912	-	-	-	-	-
-	89,222	3,636,188	-	-	-	-	-
-	4,933	-	-	-	-	-	-
-	-	476	-	-	-	-	-
-	241,939	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	43,202	-	-	-	-	-
24,273	148,555	2,157,862	-	-	-	-	-
-	3,548,261	6,358,643	-	-	-	-	-
5,444	141,283	4,338,455	-	-	-	-	-
19,567	10,235,323	99,508,267	-	-	-	-	-
-	-	197,470	-	-	-	-	-
-	-	872,044	-	-	-	-	-
-	243,235	1,711,110	-	-	-	-	-
-	5,340	-	-	-	-	-	-
-	-	65,594	-	-	-	-	-
-	1,314,464	13,225,143	-	34,985	21,866	-	-
6,594	308,425	2,303,824	-	-	-	-	-
10,901	410,835	11,819,118	-	-	-	-	-
17,896	1,032,768	14,366,110	-	-	-	10	-
21,982	6,776,588	202,897,397	-	-	-	36,695	-
40,344	844,880	15,120,730	-	-	-	-	-
405,602	22,997,887	177,653,059	-	95,877	-	-	-
33,541	703,474	12,878,809	-	-	-	3,650	-
3,199,451	2,115,242	8,375,515	-	-	-	2	-
279,132	2,110,596	23,424,330	0	-	0	-	-
3,379	339,141	9,678,516	-	-	1,895	-	-
-	96,382	-	40,138,710	-	40,130,545	-	-
124,558,705	6,058,121	611,537	1,384,581,092	123,525,533	615,290,426	190,634,623	67,998,233
82,584,027	11,477,412	827,191	856,282,070	188,012,425	632,481,415	185,959	15,763,574
33,310	-	-	-	2,770,000	331,263	-	-
5,163,950	106,602	1,126,578	3,568,720	56,059,333	19,732,899	70,621	227,413
226,190	76,795	16,982	139,203	6,632,460	1,890,322	-	-
138,481	1,202,044	-	-	9,542,540	1,652,517	-	-
212,704,663	19,017,356	2,582,289	2,284,709,795	386,542,291	1,311,509,387	190,891,202	83,989,216

[illegible]

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Location	Description	Voltage	Study	Non ISO Account Balances		
				350	352	353
4193	BIG CRK 1-EASTWOOD	220	Lines	-	-	-
4207	E.MAGUNDEN-ANTELOPE 220KV	220	Lines	-	25,798	-
4211	BIG CREEK #3/#4 220KV LIN	220	Lines	-	-	-
4300	MET T/S REGION	66	Lines	-	131,348	14,696
4360	MIRA LOMA - VINCENT 500 KV LINE	500	Lines	36,489,379	-	-
4400	COASTAL T/S REGION	66	Lines	-	3,127	433,988
4500	EASTERN T/S REGION	66	Lines	-	-	1,650,041
4600	NRTHN T/S REGION	66	Lines	-	-	1,987,424
4644	ANTELOPE-PARDEE	220	Lines	3,941,302	-	-
4700	EASTERN T/S REG	66	Lines	-	33,305	522,260
4705	CORONA-JEFFERSON 66 KV LN	55	Lines	20,412	104,734	909,107
4708	ANTELOPE-WINDHUB 500KV LN	500	Lines	-	-	-
4709	WINDHUB-HIGHWIND 230KV LN	220	Lines	-	-	-
4710	ANTELOPE-WHIRLWIND 500KV LN	500	Lines	2,227,208	-	-
4711	WHIRLWIND-WINDHUB 500KV L	500	Lines	-	-	-
4712	ANTELOPE - VINCENT #2 500KV	500	Lines	-	-	-
4716	ANTELOPE-VINCENT #1 500 kv	500	Lines	-	-	-
4730	LEE VINING-LUNDY 55K 4771	55	Lines	-	10,585	-
4731	POOLE-LEE VINING 115KV LI	115	Lines	-	-	-
4732	RUSH CRK-LEE VINING 115KV	115	Lines	-	-	-
4733	ELDORADO-IVANPAH NO 1&2 - CA	220	Lines	-	-	-
4734	ELDORADO-IVANPAH NO 1&2 - NV	220	Lines	2,178,685	-	-
4755	WHIRLWIND--VINCENT&MIDWAY 500KV LN	500	Lines	-	-	-
4756	DEVERS-SN BRDNO 220 KV LN	220	Lines	119,281	-	-
4759	BLYTHE-EAGLE MT 161 KV LN	161	Lines	-	-	4,845
4781	HOOVER-CLWTR 115 KV LN	115	Lines	1,352	23	-
4782	HOOVER-CLWTR 115 KV LN	115	Lines	21,669	-	-
4792	COGEN/RENEW ENERGY 220KV & AB	220	Lines	-	-	-
4799	HUMAN EXTERNAL CARGO TRAINING	66	Lines	-	321,805	-
4800	VAR. TRANS. LINES-S/E DIV	66	Lines	-	2,931	1,534,075
4900	NORTHEASTERN T/S DIV.	66	Lines	-	-	71
4106	COGEN/RENEW ENGY SOURCES	115	Lines	-	195,038	-
4106	COGEN/RENEW ENGY SOURCES	66	Lines	-	368,083	-
4118	MRA LMA-VLL PK LNS, OTHR	220	Lines	148,991	833,018	117,815
4118	MRA LMA-VLL PK LNS, OTHR	66	Lines	-	137,779	19,486
4135	LUGO-VICTOR LNS, OTHER	220	Lines	58,594	765,537	47,638
4135	LUGO-VICTOR LNS, OTHER	115	Lines	24,691	-	-
4735	BISHOP CRK55&115KV LINES	115	Lines	-	(4)	173,599
4735	BISHOP CRK55&115KV LINES	55	Lines	-	(7)	332,133
4750	115 KV LNS, ESTN T/S REG	115	Lines	516,398	11,600,632	203,149
4750	115 KV LNS, ESTN T/S REG	66/55/33	Lines	-	154,567	2,707
2236	BIG CREEK NO.4	220	100% Subs	-	-	-
2570	INYO	220	100% Subs	-	-	-
5001	METRO GOM MAINT	500	100% Subs	-	-	-
5019	HARBORGEN SUB	220	100% Subs	-	-	-
5026	EL SEGUNDO SWITCHRACK SUB	220	100% Subs	-	-	-
5032	MIDWAY SUB	500	100% Subs	-	-	-
5036	PASTORIA SUB	220	100% Subs	-	-	-
5044	CLWTR SWITCHRACKS 1,2	115	100% Subs	-	-	-
5045	MOHAVE SWITCHRACK	500	100% Subs	-	-	-
5047	RANCHO VISTA SUB	500	100% Subs	-	-	-
5054 & 895	Vincent	500	100% Subs	-	-	-
5058	SYLMAR SUB	220	100% Subs	-	-	-
5061	LUGO SUB	500	100% Subs	-	-	-
5065	PISGAH SUB	220	100% Subs	-	-	-
5089	LEWIS SUB	220	100% Subs	-	-	-
5091	MEAD SUB	500	100% Subs	-	-	-
5092	MOENKOPI SUB	500	100% Subs	-	-	-
5094	EAST SERIES CAPACITORS 1	500	100% Subs	-	-	-

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Location	Description	Voltage	Study	Non ISO Account Balances		
				350	352	353
5097	PALO VERDE SWITCHRACK SUB	500	100% Subs	-	-	-
8060	WHIRLWIND SUB	500	100% Subs	-	-	-
8084	HIGHWIND SUB	220	100% Subs	-	-	-
8367	COLORADO RIVER SUB	500	100% Subs	-	-	-
8372	PRIMM SUBSTATION	220	100% Subs	-	-	-
8960	WEST TRANSITION	500	100% Subs	-	-	-
8932	MIDWAY-PAC INTERTIE	500	100% Subs	-	-	-
8950	PARDEE-PAC INTERTIE	220	100% Subs	-	-	-
9219	RP&AS,LND&ESMNT REQUIS	220	100% Subs	-	-	-
5090	EL DORADO SUB(NEVADA)	500	100% Subs	-	-	-
5080	SERRANO SUB	500	100% Subs	-	-	-
5093	WEST SERIES CAPACITORS	500	100% Subs	-	-	-
8958	SYLMAR-PAC INTERTIE	220	100% Subs	-	-	-
5010	T.M. GOODRICH SUB-PASADEN	220	100% Subs	-	-	-
5018	DRYCREEKWIND SUB	220	100% Subs	-	-	-
8363	IVANPAH SUB	220	100% Subs	-	-	-
8369	RED BLUFF SUB	500	100% Subs	-	-	-
				-	-	-
TERNALORE	INTERNAL ORDER		0% Subs	-	-	781
1451	EDISON ITAC	Misc	0% Subs	-	-	35,855
2150	MAMMOTH POOL LAKE-FP 2085	220	0% Subs	-	-	24,016
2202	BIG CREEK CANYON	220	0% Subs	-	-	1,641,022
2237	PORTAL POWER PLANT	3kV & Belo	0% Subs	-	-	68,246
2238	MAMMOTH POOL	220	0% Subs	-	-	2,840,762
2239	EASTWOOD POWER STATION	3kV & Belo	0% Subs	-	627,754	4,940,311
2300	HYDRO PRODUCTION	Misc	0% Subs	-	-	10,367
2301	SNTA ANA RV&MILL CRK CNYN	3kV & Belo	0% Subs	-	-	421,924
2303	LYTLE CRK&SN ANTONIO CNYN	3kV & Belo	0% Subs	-	-	140,226
2305	KERN RIVER CANYON	66kV	0% Subs	-	-	692,140
2307	KAWEAH RIVER CANYON	66kV	0% Subs	-	-	572,929
2309	SAN GORGONIO CANYON	3kV & Belo	0% Subs	-	-	193,975
2313	KERN RIVER NO.1	66kV	0% Subs	-	4,184	589,036
2314	BOREL	66kV	0% Subs	-	1,383	259,591
2315	SANTA ANA NO.1	3kV & Belo	0% Subs	-	-	36,406
2317	SANTA ANA NO.3	3kV & Belo	0% Subs	-	-	14,930
2318	MILL CREEK NO.1	3kV & Belo	0% Subs	1,464	-	7,316
2319	MILL CREEK NO.2&3	3kV & Belo	0% Subs	-	-	52,080
2324	KAWEAH NO.1	66kV	0% Subs	-	-	48,507
2325	KAWEAH NO.2	66kV	0% Subs	-	2,694	49,126
2326	KAWEAH NO.3	66kV	0% Subs	-	-	57,269
2327	LOWER TULE RIVER	66kV	0% Subs	-	-	50,834
2328	KERN RIVER NO.3	66kV	0% Subs	-	-	460,723
2331	ONTARIO NO.1	66kV	0% Subs	-	-	205,914
2500	EASTERN HYDRO REGION	55kV	0% Subs	-	7,254	-
2501	BISHOP CREEK CANYON	3kV & Belo	0% Subs	-	-	705,804
2503	MONO BASIN	115	0% Subs	-	-	196,344
2560 & 2511	Lundy	55kV	0% Subs	-	317,627	5,816,830
2512	POOLE	3kV & Belo	0% Subs	-	-	120,052
2514	RUSH CREEK	115	0% Subs	-	-	175,912
2522	BISHOP CREEK NO.2	55kV	0% Subs	-	-	80,487
2523	BISHOP CREEK NO.3	3kV & Belo	0% Subs	-	-	1,841,377
2524	BISHOP CREEK NO.4	3kV & Belo	0% Subs	-	-	86,641
2525	BISHOP CREEK NO.5	3kV & Belo	0% Subs	-	-	43,037
2526	BISHOP CREEK NO.6	3kV & Belo	0% Subs	-	-	39,098
2553	FISH LAKE VALLEY METERING	55kV	0% Subs	-	1,343	12,150
2557	CASA DIABLO	115	0% Subs	2,119	290,687	4,738,172
2561	LEE VINING	115	0% Subs	344	261,722	2,099,225
2571	SHERWIN	115	0% Subs	-	100,772	1,207,512
2582	ZACK	55kV	0% Subs	400,881	-	655,406
2598	MT. TOM	55kV	0% Subs	-	-	(230)

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Location	Description	Voltage	Study	359
3717	DAF INDAL 500KW WND TURBN	3kV & Belo	0% Subs	-
5016	LEBEC SUBSTATION	220	0% Subs	-
5022	ARCOGEN SUB	220	0% Subs	-
5046	CLWTR SWITCHRACK 3,4 SUB	220	0% Subs	-
5048	MANDALAY SWITCHRACK SUB	220	0% Subs	-
5049	ORMOND BCH SWITCHRACK SUB	220	0% Subs	-
5051	SAUGUS SUB	66kV	0% Subs	-
5066	GENE SUB	220	0% Subs	-
5068	CAMINO SUB	220	0% Subs	-
5072	VELASCO SUB	220	0% Subs	-
5078	HUNTINGTON BCH SWITCHRCK	220	0% Subs	-
5095	TRITON SUB	115	0% Subs	-
5101	ALHAMBRA SUB	66kV	0% Subs	-
5107	BANDINI SUB	66kV	0% Subs	-
5109	BICKNELL SUB	3kV & Belo	0% Subs	-
5112	THUMSGEN SUBSTATION	66kV	0% Subs	-
5116	RUSH SUB	66kV	0% Subs	-
5141	ROSEMEAD SUB	66kV	0% Subs	-
5158	ARROYO SUB	66kV	0% Subs	-
5161	AMADOR SUB	66kV	0% Subs	-
5162	FAIR OAKS SUB	3kV & Belo	0% Subs	-
5165	JPL SUB	66kV	0% Subs	-
5167	MAYFLOWER SUB	3kV & Belo	0% Subs	-
5170	TEMPLE SUB	3kV & Belo	0% Subs	-
5178	KIRK WALL SUBSTATION	66kV	0% Subs	-
5179	RAVENDALE SUB	66kV	0% Subs	-
5185	CITRUS SUB	66kV	0% Subs	-
5186	CORTEZ SUB	66kV	0% Subs	-
5196	RAILROAD SUB	66kV	0% Subs	-
5198	ALHAMBRA DIST SUB TRG FAC	66kV	0% Subs	-
5204	CULVER CITY SUB	66kV	0% Subs	-
5207	SEPULVEDA SUB	66kV	0% Subs	-
5211	INGLEWOOD SUB	66kV	0% Subs	-
5213	LENNOX SUB	66kV	0% Subs	-
5224	PEARL SUB	3kV & Belo	0% Subs	-
5235	WINDSOR HILLS SUB	66kV	0% Subs	-
5236	VALDEZ SUB	66kV	0% Subs	-
5238	LAWNDALE SUB	3kV & Belo	0% Subs	-
5241	YUKON SUB	66kV	0% Subs	-
5250	SAWTELLE SUB	66kV	0% Subs	-
5257	BRIDGE SUB	66kV	0% Subs	-
5259	STIRRUP SUB	3kV & Belo	0% Subs	-
5273	STANHILL SUB	66kV	0% Subs	-
5315	LAUREL SUB	66kV	0% Subs	-
5325	STRATHMORE SUB	66kV	0% Subs	-
5333	WOODVILLE SUB	66kV	0% Subs	-
5352	LINE CREEK SUB	3kV & Belo	0% Subs	-
5357	CUMMINGS SUB	66kV	0% Subs	-
5358	MONOLITH SUB	66kV	0% Subs	-
5365	ACTON SUB	66kV	0% Subs	-
5374	RIVERWAY SUB	66kV	0% Subs	-
5375	MASCOT SUBSTATION	66kV	0% Subs	-
5504	CASITAS SUB	66kV	0% Subs	-
5506	CHANNEL ISLANDS SUB	66kV	0% Subs	-
5507	ORTEGA SUB	66kV	0% Subs	-
5508	DEL SUR SUB	66kV	0% Subs	-
5510	FILLMORE SUB	66kV	0% Subs	-
5511	GOLDTOWN SUB	66kV	0% Subs	-
5514	LANCASTER SUB	66kV	0% Subs	-
5518	LITTLE ROCK SUB	66kV	0% Subs	-

Non ISO Account Balances		
350	352	353
714	-	-
-	-	15,138
-	-	963,824
48,136	156,227	3,179,929
49,104	29,546	2,561,161
158,170	34,483	5,924,405
13,373	5,436,194	76,074,367
-	30,050	2,168,142
-	12,697	4,246,840
-	-	155,442
21,660	146,324	4,891,312
2,415,092	2,377,770	26,471,314
-	83,447	2,771,763
4,583	16,136	-
-	-	2,451
-	-	2,049
-	-	-
-	38,757	10
-	-	123
-	-	(47,687)
-	-	17,195
-	-	3,666
-	-	91,972
-	-	17,367
3,995	-	-
-	11,112	-
-	-	37,984
-	16,955	31,589
-	57,470	-
-	25,705	2,046,562
-	61,262	-
-	41,604	-
-	29,751	-
-	25,054	17,794
-	14,955	-
-	58,264	17,508
-	-	24,710
-	44,342	-
4,415	-	-
-	70,183	-
-	14,957	-
-	14,955	-
-	-	0
-	-	-
-	-	14,882
-	15,418	74,641
-	-	31,030
-	-	111,576
-	234	1,261,397
24,167	-	15,397
801,825	-	-
573,588	-	-
-	-	(251)
-	116,483	-
-	-	30,102
-	-	424,747
-	5,566	-
-	-	526,259
-	-	1,071,949
-	-	1,690,353

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Location	Description	Voltage	Study	Non ISO Account Balances	
				350	352
					353
5522	SHUTTLE SUB	66kV	0% Subs	-	911,750
5526	OJAI SUB	66kV	0% Subs	-	13,050
5530	REDMAN WUB	66kV	0% Subs	-	299,056
5531	SANTA BARBARA SUB	66kV	0% Subs	-	40,153
5538	VENTURA SUB	3kV & Belo	0% Subs	-	52,076
5539	ANAVERDE SUB	66kV	0% Subs	-	76,359
5541	ROSAMOND SUB	66kV	0% Subs	-	658,870
5545	PIUTE SUB	66kV	0% Subs	-	11,023
5546	ELIZABETH LAKE SUB	66kV	0% Subs	-	3,072
5547	CORUM SUB	66kV	0% Subs	-	-
5548	OASIS SUB	66kV	0% Subs	-	397,008
5553	CAL CEMENT SUB	66kV	0% Subs	-	15,551
5557	NEWBURY SUB	66kV	0% Subs	-	692,110
5562	GRISWOLD SUB	3kV & Belo	0% Subs	-	-
5564	PALMDALE SUB	66kV	0% Subs	-	603,424
5566	QUARTZ HILL SUB	66kV	0% Subs	-	11,023
5599	HELIJET SUB	66kV	0% Subs	-	499,396
5601	RANDALL SUB	66kV	0% Subs	-	20,403
5606	ORANGE PRODUCTS SUB	66kV	0% Subs	-	13,596
5612	INLAND CONTAINER SUB	66kV	0% Subs	-	20,750
5615	DECLIZ SUB	66kV	0% Subs	-	23,032
5631	SAN ANTONIO SUB	66kV	0% Subs	-	7,606
5646	COLTON CEMENT SUB	66kV	0% Subs	-	43,167
5652	AMERON SUB	66kV	0% Subs	-	531,131
5655	NOGALES SUB	66kV	0% Subs	-	16,835
5659	ARCHIBALD SUB	66kV	0% Subs	-	206,393
5664	WIMBLEDON SUB	66kV	0% Subs	-	1,282
5670	DEL ROSA SUB	66kV	0% Subs	-	-
5674	WHIPPLE SUB	66kV	0% Subs	-	8,714
5678	LANDING SUB	66kV	0% Subs	-	14,661
5740	NAPLES SUBSTATION	3kV & Belo	0% Subs	-	114,340
5758	WATSON SUBSTATION	66kV	0% Subs	-	3,790
5787	SOUTH GATE SUBSTATION	3kV & Belo	0% Subs	-	17,255
5788	BOVINE SUBSTATION	66kV	0% Subs	-	17,101
5798	MOVIE SUBSTATION	66kV	0% Subs	-	1,963
5811	CHIQUITA SUBSTATION	66kV	0% Subs	-	-
5814	CARMENITA SUBSTATION	66kV	0% Subs	-	14,314
5816	PARKWOOD SUBSTATION	66kV	0% Subs	-	93,280
5828	WAVE SUBSTATION	66kV	0% Subs	-	-
5842	OCEANVIEW SUBSTATION	66kV	0% Subs	-	58,101
5843	ORANGE SUBSTATION	66kV	0% Subs	-	423,768
5849	SANTA ANA SUBSTATION	3kV & Belo	0% Subs	-	6,882
5853	TALBERT SUB	66kV	0% Subs	-	24,273
5860	ALTON SUBSTATION	66kV	0% Subs	241,262	-
5862	SULLIVAN SUBSTATION	66kV	0% Subs	-	230,879
5865	ESTRELLA SUBSTATION	66kV	0% Subs	-	41,148
5869	SHAWNEE SUBSTATION	66kV	0% Subs	-	17,289
5878	TUSTIN SUBSTATION	66kV	0% Subs	11,308	-
5892	TELEGRAPH SUB	66kV	0% Subs	-	12,346
5896	NIGUEL SUBSTATION	66kV	0% Subs	-	21,384
5902	LAS LOMAS SUB	66kV	0% Subs	4,664,177	-
7013	IMPERIAL COUNTY	115	0% Subs	-	1,702
8003	PAUBA(CEP) SUB	115	0% Subs	106,825	764,114
8004	THORNHILL(CEP) SUB	115	0% Subs	25,609	996,193
8005	STADLER(CEP) SUB	115	0% Subs	139,611	786,164
8009	PAN AERO (CEP) SUB	115	0% Subs	-	-
8010	PHELAN(CEP) SUB	115	0% Subs	154,446	751,072
8011	BANWIND SUBSTATION	115	0% Subs	-	-
8013	APPLE VALLEY(CEP) SUB	115	0% Subs	-	1,389,452
8014	BUNKER(CEP) SUB	115	0% Subs	969,397	1,477,013

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Location	Description	Voltage	Study	Non ISO Account Balances		
				350	352	353
8016	FARREL(CEP) SUB	115	0% Subs	-	663,093	12,051,464
8017	CONCHO(CEP) SUB	115	0% Subs	285,201	672,863	9,265,159
8018	AULD(CEP) SUB	115	0% Subs	83,538	1,177,450	18,314,311
8019	MAXWELL(CEP) SUB	115	0% Subs	33,940	479,789	8,777,447
8020	SAVAGE(CEP) SUB	115	0% Subs	29,280	1,477,177	15,652,689
8021	PEPPER(CEP) SUB	115	0% Subs	17,579	483,962	10,204,080
8022	YUCCA(CEP) SUB	115	0% Subs	19,474	645,122	11,737,770
8023	BLACK MOUNTAIN(CEP) SUB	115	0% Subs	-	12,014	912,016
8024	ALESSANDRO(CEP) SUB	115	0% Subs	45,514	2,703,528	23,621,759
8025	BAKER(CEP) SUB	115	0% Subs	-	211,976	2,793,347
8026	BANNING(CEP) SUB	115	0% Subs	20,210	1,557,931	16,216,180
8027	COTTONWOOD(CEP) SUB	115	0% Subs	22,426	1,796,115	11,231,874
8028	EDWARDS(CEP) SUB	115	0% Subs	-	37,679	2,862,027
8029	HI DESERT(CEP) SUB	115	0% Subs	1,154,541	1,724,370	19,974,853
8030	MOUNTAIN PASS(CEP) SUB	115	0% Subs	70,286	26,523	4,666,603
8031	RANDSBURG(CEP) SUB	115	0% Subs	116	337,116	6,015,296
8032	ROCKET TEST(CEP) SUB	115	0% Subs	-	18,045	283,935
8033	SEARLES(CEP) SUB	115	0% Subs	-	361,473	6,359,540
8035	ZANJA(CEP) SUB	115	0% Subs	152,559	1,663,455	10,118,084
8036	SANTA ROSA(CEP) SUB	115	0% Subs	44,689	464,965	21,490,547
8038	NELSON(CEP) SUB	115	0% Subs	22,819	712,388	14,308,425
8039	HOMART(CEP) SUB	115	0% Subs	174,875	425,577	5,358,686
8041	HOLGATE(CEP) SUB	115	0% Subs	27,167	347,967	3,252,416
8042	CALECTRIC SUB (CEP)	115	0% Subs	27,870	2,639,595	22,394,503
8044	GARNET SUB	115	0% Subs	38,081	1,730,514	13,014,415
8045	IID TIE SUB	115	0% Subs	39,144	-	23,873
8047	TIEFORT SUB	115	0% Subs	-	218,704	1,530,163
8048	USBR BLYTHE SUB	161	0% Subs	-	64,707	7,818,707
8055	SN ONOFRE SWTHRK-100%SCE	220	0% Subs	-	1,629,530	10,597,913
8059	PUREWATER SUB	115	0% Subs	-	175,506	1,357,312
8061	SEAWIND T/S	115	0% Subs	2,976	463	312,727
8064	TIFFANYWIND SUB	115	0% Subs	-	-	11,459
8072	CARODEAN	115	0% Subs	-	562,701	10,062,252
8073	IVYGLEN SUB	115	0% Subs	166,697	1,117,641	9,458,907
8074	COOL WATER SWITCHCRACK 1,2	220	0% Subs	-	61,762	1,927,048
8075	HIGHGROVE SWITCHCRCK	115	0% Subs	7,139	178,624	2,016,862
8079	AQUEDUCT SUB	115	0% Subs	2,880	925,853	10,582,220
8082	MENTONE SUB	115	0% Subs	161,883	788,697	7,266,910
8086	CAJALCO SUB	115	0% Subs	25,836	950,321	11,577,227
8087	HESPERIA SUB	115	0% Subs	22,150	397,908	7,916,357
8088	SKYLARK SUB	115	0% Subs	81,206	403,653	9,802,640
8089	MAYBERRY SUB	115	0% Subs	23,090	444,857	13,745,284
8090	PERMANENTE SUB	115	0% Subs	-	-	87,113
8091	ELCENTRO TELEMTERING	161	0% Subs	-	-	15,844
8092	NILAND TELEMETERING	161	0% Subs	-	-	6,807
8093	SHANDIN SUB	115	0% Subs	42,272	750,747	11,189,236
8094	ARROWHEAD SUB	115	0% Subs	-	442,875	5,489,263
8095	STETSON SUB	115	0% Subs	23,493	718,412	7,918,884
8097	DUNN SIDING SUB	115	0% Subs	4,913	99,723	722,246
8099	TAMARISK SUB	115	0% Subs	125,967	379,583	12,561,144
8102	AMARGO SUB	3kV & Belo	0% Subs	-	-	-
8104	FARRELL SUB	115	0% Subs	-	-	-
8110	BARSTOW SUB	3kV & Belo	0% Subs	-	6,894	59,447
8113	BLYTHE SUB	3kV & Belo	0% Subs	-	22,511	440,016
8117	BRYMAN SUB	3kV & Belo	0% Subs	-	-	7,083
8120	MILITARY SUB	3kV & Belo	0% Subs	-	15,598	-
8132	CAL CITY SUB	3kV & Belo	0% Subs	-	6,894	-
8137	DOWNNS SUB	115	0% Subs	82,401	5,781,510	17,032,878
8152	GLEN IVY SUB	3kV & Belo	0% Subs	-	15,642	27,225
8163	HELENDAL SUB	3kV & Belo	0% Subs	-	15,110	81,054

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Location	Description	Voltage	Study	359
8179	Lakeview	115	0% Subs	-
8182	BOTTLE SUB	115	0% Subs	-
8190	MINNEOLA SUB	3kV & Belo	0% Subs	-
8193	MORENO SUB	115	0% Subs	-
8195	MURRIETA 2 SUB	3kV & Belo	0% Subs	-
8197	SOUTHCAP SUB.	115	0% Subs	-
8198	MUSCOY SUB	3kV & Belo	0% Subs	-
8204	BELDING SUB	3kV & Belo	0% Subs	-
8212	ORO GRANDE SUB	3kV & Belo	0% Subs	-
8214	PALM CANYON SUB	3kV & Belo	0% Subs	-
8220	LUCERNE SUB	3kV & Belo	0% Subs	-
8222	RANCHO SUB	3kV & Belo	0% Subs	-
8225	RIALTO SUB	3kV & Belo	0% Subs	-
8226	RIDGECREST SUB	3kV & Belo	0% Subs	-
8234	SAN JACINTO SUB	3kV & Belo	0% Subs	-
8250	TEMESCAL SUB	3kV & Belo	0% Subs	-
8260	VICTORVILLE SUB	3kV & Belo	0% Subs	-
8267	WILDE SUB	3kV & Belo	0% Subs	-
8268	YERMO SUB	3kV & Belo	0% Subs	-
8270	TENAJA SUBSTATION	115	0% Subs	-
8273	IRON MT SCE	3kV & Belo	0% Subs	-
8283	GALE SUB	115	0% Subs	-
8294	GOLD HILL SUB	3kV & Belo	0% Subs	-
8301	BUCKWIND	115	0% Subs	-
8302	CAPWIND	115	0% Subs	-
8303	RENWIND	115	0% Subs	-
8304	SANWIND	115	0% Subs	-
8305	TRANSWIND	115	0% Subs	-
8306	VENWIND	115	0% Subs	-
8308	ALTWIND	115	0% Subs	-
8310	TERAWIND	115	0% Subs	-
8311	INDIGO SUBSTATION	115	0% Subs	-
8312	CALGEN	115	0% Subs	-
8314	MCGEN	115	0% Subs	-
8320	SEGS II	115	0% Subs	-
8321	SEGS III	115	0% Subs	-
8322	SEGS IV	115	0% Subs	-
8323	SEGS V	115	0% Subs	-
8324	SEGS VI	115	0% Subs	-
8325	SEGS VII	115	0% Subs	-
8326	SEGS VIII	220	0% Subs	-
8327	SEGS IX	220	0% Subs	-
8340	SOPORT	115	0% Subs	-
8342	NEWCOMB	115	0% Subs	-
8343	ELSINORE	115	0% Subs	-
8344	SOUTH BASE SUB	115	0% Subs	-
8345	INDIAN WELLS SUB	115	0% Subs	-
8346	FOGARTY SUB	115	0% Subs	-
8347	PECHANGA SUB	115	0% Subs	-
8351	TANKER SUBSTATION	115	0% Subs	-
8353	PLUESS SUBSTATION	115	0% Subs	-
8354	AFG SUBSTATION	115	0% Subs	-
8357	RECTIFIER SUB	115	0% Subs	-
8359	MOUNTWIND SUBSTATION	115	0% Subs	-
8361	COSO SUB	115	0% Subs	-
8362	MOVAL SUBSTATION	115	0% Subs	-
8504	RITTER SUB	66kV	0% Subs	-
8509	PHARMACY SUBSTATION	66kV	0% Subs	-
8511	GLOW SUBSTATION	66kV	0% Subs	-
8558	PLASTER SUBSTATION	66kV	0% Subs	-

Non ISO Account Balances		
350	352	353
1,488,305	-	-
-	158,075	1,283,195
-	-	5,725
104,923	760,685	5,212,267
-	-	21,911
-	-	942,250
-	-	132,416
-	42,109	-
-	-	7,994
-	30,644	-
-	13,167	-
-	6,894	2,107
-	17,716	30,776
-	-	17,438
-	-	-
-	-	4,236
-	18,135	22,159
-	-	-
-	23,195	-
-	-	21,919
-	8,651	-
-	9,848	5,876,497
-	6,894	-
-	25,208	751,981
-	29,827	78,542
-	15,102	827,522
-	-	371,041
-	25,366	1,061,136
-	21,039	2,287,437
-	1,022	25,028
-	5,398	226,460
-	4,899	229,185
532	1,600	12,970
-	112,388	2,464,391
-	-	45,594
-	-	11,755
-	-	41,025
-	-	8,814
-	-	39,130
-	-	119,704
-	-	83,150
-	-	74,085
-	42,538	654,012
51,172	1,223,085	10,876,324
20,961	1,295,575	16,173,022
12,179	143,764	2,017,154
222,600	930,666	12,795,164
-	4,398,452	16,236,483
560,579	844,656	11,267,214
120	4,440	696,181
-	-	151,193
-	78,655	1,082,686
-	5,170	1,098,304
-	-	53,698
91,119	1,641,131	4,788,019
-	128,640	491,674
942,487	-	-
-	-	43,289
-	-	128,972
4,671	-	-

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Location	Description	Voltage	Study	Non ISO Account Balances		
				350	352	353
8810	ONEIL SUBSTATION	66kV	0% Subs	-	1,188,142	-
8956	MWD EASTSIDE RES	115	0% Subs	-	-	-
9009	CONSTR FIELD FORCES	Offices & I	0% Subs	-	-	527,316
9047	TRANS/SUB SUPPORT SERV	Offices & I	0% Subs	-	-	74,775,490
9287	REAL PROP-LAND SVCS-STHRN	Misc	0% Subs	-	12,869	-
9440	WESTMINSTER FENWICK BLDG	Offices & I	0% Subs	-	8,929	-
9900	PLANT ACCTG-MISC. LEDGER	Offices & I	0% Subs	-	631	-
5110	WABASH (NEW) SUB	66kV	0% Subs	-	24,360	-
5139	GENAMIC SUB	66kV	0% Subs	-	5,739	-
5164	REPETTO SUB	66kV	0% Subs	-	17,757	-
5215	MADRID SUB	3kV & Belo	0% Subs	-	575	-
5221	OCEAN PARK SUB	3kV & Belo	0% Subs	-	4,164	-
5226	BRIGHTON SUB	66kV	0% Subs	-	3,804	-
5229	MOBILLOIL SUB	66kV	0% Subs	-	3,652	-
5239	CRATER SUB	66kV	0% Subs	-	-	9,057
5242	COLORADO SUB	66kV	0% Subs	-	40,180	-
5252	ROLLING HILLS SUB	66kV	0% Subs	-	27,085	-
5260	COLOSSUS SUB	66kV	0% Subs	-	-	7,141
5268	TOPAZ SUB	66kV	0% Subs	-	29,219	-
5271	TAHITI SUB	66kV	0% Subs	-	23,749	-
5275	MARYMOUNT SUB	66kV	0% Subs	-	4,862	-
5282	PALOGEN SUB	66kV	0% Subs	-	42,738	-
5302	BIG CREEK 2	3kV & Belo	0% Subs	-	-	1,018,533
5320	OCTOL SUB	66kV	0% Subs	-	13,523	-
5339	GREENHORN SUB	66kV	0% Subs	-	-	-
5410	FLOWIND SUB	66kV	0% Subs	-	-	11,009
5412	SILVER PEAK SUB	55kV	0% Subs	-	-	84,025
5520	MODOC SUB	3kV & Belo	0% Subs	-	-	-
5576	NEWHALL SUB	66kV	0% Subs	-	-	413,802
5616	FLANCO SUB	3kV & Belo	0% Subs	-	22,342	-
5618	FIREHOUSE SUB	66kV	0% Subs	-	6,520	-
5621	HUSTON SUB	3kV & Belo	0% Subs	-	45,573	-
5626	PEDLEY SUB	66kV	0% Subs	-	22,868	-
5633	SAN DIMAS SUB	66kV	0% Subs	-	19,651	-
5645	LAYFAIR SUB	66kV	0% Subs	-	2,166	-
5650	LINDE AIR SUB	66kV	0% Subs	-	15,935	-
5654	REDUCTION SUB	66kV	0% Subs	-	34,835	-
5656	BAIN SUB	66kV	0% Subs	-	704	-
5658	PIPE SUB	66kV	0% Subs	-	32,989	-
5714	CUDAHY SUB	66kV	0% Subs	-	32,033	-
5754	SOMERSET SUBSTATION	66kV	0% Subs	-	33,691	-
5766	DAISY SUBSTATION	3kV & Belo	0% Subs	-	12,646	-
5893	PASSONS SUB	66kV	0% Subs	-	3,215	-
1860	PALOVERDE NUCL GEN PLT-U1	500	0% Subs	-	-	2,597,299
1864	PALO VERDE-UNIT 2	500	0% Subs	-	-	2,488,614
1866	PALO VERDE-UNIT 3	500	0% Subs	-	-	5,007,636
1867	PALOVERDE-COMMON 1,2,3	500	0% Subs	-	7,766	2,722,616
5832	LA HABRA SUBSTATION	66kV	0% Subs	-	-	17,125
8078	SUN CITY(NEW)	115	0% Subs	-	119,513	1,887,934
8096	MARSCHINO SUB	115	0% Subs	-	27,809	1,611,970
8098	EISENHOWER SUB	115	0% Subs	-	189,886	812,071
8348	MORAGA	115	0% Subs	-	40,720	307,859
9310	TELCOMM-ALHAMBRA	Misc	0% Subs	-	327,844	-
6011	RIALTO COMB FAC. BLDG B&C	Offices & I	0% Subs	-	-	2,770
8121	CANTIL SUB	3kV & Belo	0% Subs	-	-	7,293
8123	CATHEDRAL CITY SUB	3kV & Belo	0% Subs	-	-	9,939
8136	DESERT OUTPOST SUB	3kV & Belo	0% Subs	-	-	13,544
8159	EL SOBRANTE SUB	3kV & Belo	0% Subs	-	-	4,126
8161	HARVARD SUB	3kV & Belo	0% Subs	-	-	8,458
8170	INYOKERN TOWN SUB	3kV & Belo	0% Subs	-	-	7,735

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Location	Description	Voltage	Study	Non ISO Account Balances	
				350	352
8172	JOSHUA TREE SUB	3kV & Belo	0% Subs	-	9,177
8216	PEERLESS SUB	3kV & Belo	0% Subs	-	-
8238	SILVER SPUR SUB	3kV & Belo	0% Subs	-	8,994
8244	SUNNY DUNES SUB	3kV & Belo	0% Subs	-	13,259
8255	TWENTYNINE PALMS SUB	3kV & Belo	0% Subs	-	11,480
9077	INFO TECH-GO2	Offices & I	0% Subs	-	-
9235	RP&AS-NRTHSHRE REC AREA	Offices & I	0% Subs	-	-
2612	MINARET	3kV & Belo	0% Subs	-	-
5120	FEDERALGEN SUB	66kV	0% Subs	-	6,944
5152	JOSE SUB	66kV	0% Subs	-	56,769
5175	VAIL SUB	66kV	0% Subs	-	15,470
5188	DALTON SUB	66kV	0% Subs	-	82,794
5201	BEVERLY HILLS SUB	66kV	0% Subs	-	-
5210	HOWARD SUB	66kV	0% Subs	-	17,431
5405	CANWIND SUB	66kV	0% Subs	-	9,895
5406	ENWIND SUB	66kV	0% Subs	-	11,023
5409	MORWIND SUB	66kV	0% Subs	-	6,367
5414	DUTCHWIND SUB	66kV	0% Subs	-	11,023
5415	OAKWIND SUB	66kV	0% Subs	-	23,342
5424	MIDWIND SUB	66kV	0% Subs	-	23,000
5535	CHARMIN SUB	66kV	0% Subs	-	27,327
5572	GAVIOTA SUB	66kV	0% Subs	-	118,097
5604	TIMOTEO SUB	66kV	0% Subs	-	1,760
5629	REDLANDS SUB	66kV	0% Subs	-	29,558
5636	YUCAIPA SUB	66kV	0% Subs	-	31,005
5661	RUNNING SPRINGS SUB	3kV & Belo	0% Subs	-	31,398
5667	ARCHLINE SUB	66kV	0% Subs	-	12,856
5668	CRESTMORE SUB	66kV	0% Subs	-	14,975
5680	DIAMOND BAR SUB	66kV	0% Subs	-	-
5718	FRUITLAND SUB	66kV	0% Subs	-	12,712
5720	FREEMONT SUB	66kV	0% Subs	-	6,957
5779	DAVIDSON CITY	3kV & Belo	0% Subs	-	6,957
5812	MURPHY SUB	66kV	0% Subs	-	20,469
5886	PIONEER SUB	66kV	0% Subs	-	6,944
8207	HOLIDAY SUB	3kV & Belo	0% Subs	-	19,356
8210	OLIVE LAKE SUB	3kV & Belo	0% Subs	-	558
8231	RUBIDOUX SUB	3kV & Belo	0% Subs	-	6,317
8252	TRONA SUB	3kV & Belo	0% Subs	-	6,499
8056	LAKEVIEW SUB	115	0% Subs	100	9,442,822
8058	EASTWIND SUB	220	0% Subs	-	-
8081	BADLANDS SUB	115	0% Subs	-	21,176
8339	GREENWALD SUB	115	0% Subs	-	10,350
8373	BLAST SUBSTATION	115	0% Subs	-	471,546
5305	DELANO SUB	66kV	0% Subs	-	60,018
5312	LIBERTY SUB	66	0% Subs	-	301,990
5321	PIXLEY SUB	66kV	0% Subs	-	18,619
5331	VISALIA SUB	66kV	0% Subs	-	35,561
1020	STM GEN	Misc	0% Subs	-	-
6027	MONROVIA SERVICE CENTER	MR SRVC F	0% Subs	-	-
8366	LEATHERNECK SUB	115	0% Subs	-	38,734
8071	CLEMENTINE	115	0% Subs	-	41,635
5216	MANHATTAN SUB	3kV & Belo	0% Subs	-	10,762
5218	MONETA SUB	3kV & Belo	0% Subs	-	16,856
5227	REDONDO SUB	3kV & Belo	0% Subs	-	33,678
5228	ROSECRANS SUB	66kV	0% Subs	-	70,272
5231	SANTA MONICA SUB	66kV	0% Subs	-	19,278
5246	DITMAR SUB	66kV	0% Subs	-	8,978
5254	HAVEDA SUB	3kV & Belo	0% Subs	-	30,118
5255	LUNADA SUB	3kV & Belo	0% Subs	-	8,090
5267	SPACE SUB	66kV	0% Subs	-	21,279

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5274	GALAXY SUB	66kV	0% Subs	-
5411	ARBWIND SUB	66kV	0% Subs	-
5570	VEGAS SUB	66kV	0% Subs	-
5624	NORCO SUB	3kV & Belo	0% Subs	-
5628	TENNESSEE SUB	66kV	0% Subs	-
5635	UPLAND SUB	66kV	0% Subs	-
5639	FRANCIS SUB	66kV	0% Subs	-
5726	HATHAWAY SUBSTATION	66kV	0% Subs	-
5881	JOHANNA SUBSTATION	220	0% Subs	-
8119	CADY SUB	3kV & Belo	0% Subs	-
8140	EAST BARSTOW SUB	3kV & Belo	0% Subs	-
8148	FOREST HOME SUB	3kV & Belo	0% Subs	-
8175	INDIAN WELLS SUB	115	0% Subs	-
8211	ORDWAY SUB	3kV & Belo	0% Subs	-
8263	PEREZ SUB	3kV & Belo	0% Subs	-
8279	CORONA SUB	66kV	0% Subs	-
8295	TORTILLA SUB	115	0% Subs	-
9300	ALHAMBRA COMM SITE	Misc	0% Subs	-
2587	SKILAND (MAMMOTH LAKE) SUBSTA	3kV & Belo	0% Subs	-
1000	DIV MTCE / OVERHAUL MNGT	66kV	Mix Subs	-
1250	MOUNTAINVIEW POWER-COMMON	220	Mix Subs	-
1869	PALOVERDE-SWITCHYARD	500	Mix Subs	-
1870	PV UNIT 1-INCREMENTAL	500	Mix Subs	-
3076 & 199	San Bernardino-220kv Switchyard &	220	Mix Subs	-
2211	BIG CREEK NO.1	220	Mix Subs	-
2212	BIG CREEK NO.2	220	Mix Subs	-
2229	BIG CREEK NO.8	220	Mix Subs	-
2230	BIG CREEK NO.3	220	Mix Subs	-
2234	BIG CREEK NO.2A	220	Mix Subs	-
5000	SUBSTN DIV	Misc	Mix Subs	-
5011	EAGLE ROCK SUB	220	Mix Subs	-
5012	MESA SUB	220	Mix Subs	-
5013	RIO HONDO SUB	220	Mix Subs	-
5023	EL NIDO SUB	220	Mix Subs	-
5024	LA CIENEGA SUB	220	Mix Subs	-
5025	ALAMITOS SWITCHRACK SUB	220	Mix Subs	-
5027	LG BCH SWITCHRACK SUB	220	Mix Subs	-
5028	REDONDO SWITCHRACK SUB	220	Mix Subs	-
5031	MAGUNDEN SUB	220	Mix Subs	-
5033	RECTOR SUB	220	Mix Subs	-
5035	VESTAL SUB	220	Mix Subs	-
5038	NO. T/S REG OFC/VALENCIA	Misc	Mix Subs	-
5040	EAGLE MT. SUB	220	Mix Subs	-
3041 & 804	Inyokern (CEP) & Inyokern	115	Mix Subs	-
3042 & 804	Kramer & Kramer-Radial Line Agmt	220	Mix Subs	-
5043	CIMA SUB	220	Mix Subs	-
5050	PARDEE SUB	220	Mix Subs	-
5055	GOLETA SUB	220	Mix Subs	-
5056	MOORPARK SUB	220	Mix Subs	-
5059	BAILEY SUB	220	Mix Subs	-
5060	PADUA SUB	220	Mix Subs	-
5062	CHINO SUB	220	Mix Subs	-
5063	JULIAN HINDS SUB	220	Mix Subs	-
5064	VISTA SUB	220	Mix Subs	-
5067	DEVERS SUB	500	Mix Subs	-
3070 & 803	Valley & Valley - CEP	500	Mix Subs	-
5071	HINSON SUB	220	Mix Subs	-
5073	LIGHTHIPE SUB	220	Mix Subs	-

Non ISO Account Balances		
350	352	353
-	8,898	-
-	-	6,186
5,801	-	-
-	66,934	-
-	44,558	-
-	21,532	-
-	59,194	-
-	21,380	-
-	14,630	-
-	13,561	-
-	12,855	-
-	15,135	-
-	103,197	-
-	15,610	-
-	29,219	-
-	5,855	-
-	48,114	-
-	-	9,775
-	129,612	-
-	-	-
-	-	-
-	-	2,655
-	-	13,641,801
-	868,695	3,337,542
-	-	82,354
219,900	3,860,491	38,139,942
-	129,467	4,512,604
-	-	640,487
-	10,031	891,844
-	585,230	2,741,690
-	-	435,694
-	-	1,381,388
16,252	4,285,578	28,392,977
1,381,759	7,019,509	41,076,839
300,832	5,224,768	53,771,676
206,258	10,943,137	39,248,112
1,471,309	3,997,887	31,012,464
38,492	1,941,738	24,935,084
64,821	883,538	5,715,050
3,978	12,149	1,968,082
424	824,622	680,850
164,129	10,791,421	52,073,302
3,101	994,133	28,003,209
32,496	1,311,895	-
-	349,983	17,251,575
5,716	429,594	10,708,929
10,519	1,058,454	11,250,785
1,617	15,177	2,912,313
103,993	7,805,324	9,488,115
147,943	1,688,858	18,344,856
160,496	5,816,675	59,764,375
-	76,766	1,505,550
91,322	3,348,462	33,432,894
26,515	3,010,285	29,326,361
-	(49,494)	348,841
42,507	21,522,222	63,161,464
224,702	11,648,012	35,960,266
216,490	32,155,989	141,940,939
512,570	2,475,475	29,258,796
114,947	9,769,489	26,065,681

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Location	Description	Voltage	Study	359
5075	DEL AMO SUB	220	Mix Subs	-
5079	WINDHUB SUB	500	Mix Subs	-
5081	BARRE SUB	220	Mix Subs	-
5082	VILLA PARK SUB	220	Mix Subs	-
5084	CENTER SUB	220	Mix Subs	-
5085 & 588	JOHANNA SUB	220	Mix Subs	-
5086	ELLIS SUB	220	Mix Subs	-
5087	OLINDA SUB	220	Mix Subs	-
5088	SANTIAGO SUB	220	Mix Subs	-
5096	ETIWANDA SWITCHRACK SUB	220	Mix Subs	-
5100	METRO REGION	3kV & Belo	Mix Subs	-
5556	NEENACH SUB	66kV	Mix Subs	-
8065	ALBERHILL SUB	500	Mix Subs	-
9339	CONWAY SUMMIT COMM SITE	Misc	Mix Subs	-
8370	SANDLOT SUB	220	Mix Subs	-
8063	CHEVMAIN	220	Mix Subs	-
6072	BARSTOW NO RGN-SAN BERDOO	220	Mix Subs	-
9010	B&A-T/S 3RD FLOOR-GO3	220	Mix Subs	-
9024	CHINO OFC BLDG (FACILITY)	Misc	Mix Subs	-
7010	FRESNO COUNTY	3kV & Belo	Mix Subs	-
7056	VENTURA COUNTY	3kV & Belo	Mix Subs	-
8000	ROADWAY(CEP)	115	Mix Subs	-
8006	EL CASCO SUBSTATION	220	Mix Subs	-
8037	TORTILLA(CEP) SUB	115	Mix Subs	-
8049	VICTOR SUB	220	Mix Subs	-
9203	FUELS	Misc	Mix Subs	-
9221	INNOVATION VILLAGE 1	Offices & M	Mix Subs	-
9243	CONTROL SYS SEC-ALHAMBRA	Offices & M	Mix Subs	-
9078	IRVINE OPER CENTER	Misc	Mix Subs	-
9330	TELECOMM-ALHAMBRA	Misc	Mix Subs	-
2556	CONTROL STATION	115	Mix Subs	-
5014	WALNUT SUB	220	Mix Subs	-
5015	GOULD SUB	220	Mix Subs	1,468
5021	LA FRESA SUB	220	Mix Subs	-
5052	ANTELOPE SUB	500	Mix Subs	-
5053	SANTA CLARA SUB	220	Mix Subs	3,878
5069	MIRA LOMA SUB	500	Mix Subs	-
5074	LAGUNA BELL SUB	220	Mix Subs	-
5083	VIEJO SUBSTATION	220	Mix Subs	-
8012	MIRAGE(CEP) SUB	220	Mix Subs	0
5034	SRINGVILLE SUB	220	Mix Subs	-

805,712
65,566,422
106,701,021
4,845
564,110
121,081
20,412
173,783,603

Non ISO Account Balances		
350	352	353
133,956	5,766,268	50,438,718
136,546	4,395,073	23,494,124
57,570	2,782,279	41,323,892
186,166	4,627,892	38,240,088
64,619	4,811,226	47,797,404
549,950	3,991,639	16,464,648
45,799	4,033,975	59,516,631
330,344	1,889,507	28,959,125
121,825	2,963,849	33,536,477
149,560	3,560,371	45,006,672
-	-	84,147
-	-	167,426
-	-	-
-	-	6,299
-	330,688	1,679,459
-	287,429	11,746,229
-	2,684	-
-	-	348
-	131,618	-
-	-	-
-	-	31,596
86,369	593,160	10,824,789
-	26,673,714	50,534,091
11,670	886,412	6,874,746
2,521	1,937,007	12,975,878
-	-	144,420
-	-	637,770
-	132,323	1,251,421
-	2,905	-
-	-	43,143
-	283,795	2,132,106
91,361	4,799,335	32,335,281
18,399	1,057,968	20,794,757
83,474	4,918,860	81,131,218
-	1	1,910,263
100,395	3,041,801	36,803,390
69,133	27,979,649	29,688,304
97,721	2,343,220	36,806,729
10,086,520	6,668,804	26,386,644
350,409	2,785,216	34,000,148
8,819	1,741,348	24,261,451