

# SOUTHERN CALIFORNIA EDISON COMPANY

## Transmission/Distribution ISO Facilities Study

12-31-2019 Facilities

TO2021 Draft Annual Update

Attachment 4

WP-Schedule 7

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### Transmission

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
<b>Land (Substation and Line)</b>				
350	\$345,076,489	\$345,076,489	\$254,455,516	73.74%
<b>Substation</b>				
352	1,143,959,578	1,143,959,577	741,230,571	64.80%
353	6,517,444,414	6,517,444,414	3,714,934,156	57.00%
<b>Total Substation</b>	7,661,403,991	7,661,403,991	4,456,164,727	58.16%
<b>Lines</b>				
354	2,380,316,641	2,380,316,641	2,305,124,778	96.84%
355	1,666,864,455	1,666,864,455	408,001,019	24.48%
356	1,763,812,033	1,763,812,033	1,408,013,216	79.83%
357	296,662,316	296,662,316	215,368,702	72.60%
358	376,202,208	376,202,208	59,251,566	15.75%
359	201,604,232	201,604,232	179,151,598	88.86%
<b>Total Lines</b>	6,685,461,886	6,685,461,886	4,574,910,878	68.43%
<b>Total Transmission</b>	<b>\$14,691,942,366</b>	<b>\$14,691,942,366</b>	<b>\$9,285,531,121</b>	<b>63.20%</b>

### Distribution

	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total
<b>Land:</b>				
360	\$129,043,959	\$129,043,959	-	0.00%
<b>Structures:</b>				
361	799,384,569	799,384,569	-	0.00%
362	2,967,456,409	2,967,456,409	-	0.00%
<b>Total Structures</b>	3,766,840,978	3,766,840,978	-	0.00%
<b>Total Distribution</b>	<b>\$3,895,884,937</b>	<b>\$3,895,884,937</b>	<b>-</b>	<b>0.00%</b>
<b>Total Transmission &amp; Distribution</b>	<b>\$18,587,827,303</b>	<b>\$18,587,827,303</b>	<b>\$9,285,531,121</b>	<b>49.95%</b>

## Southern California Edison Company

Summary of ISO Facility Gross Plant

High/Low Voltage Split

12-31-2019 Facilities

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Total ISO Plant

				Gross ISO Plant Split into High Voltage, Low Voltage, and Transformers that Straddle HV/LV				
ISO Transmission and Distribut	Total ISO Gross Plant	Land	Structures	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV
<b>Transmission Lines:</b>								
1000 kV T Lines	111,674,520	-	111,674,520	-	-	111,674,520	-	-
500 kV T Lines	2,596,680,573	124,848,786	2,471,831,787	124,848,786	-	2,471,831,787	-	-
230 kV T Lines	1,959,565,270	82,606,347	1,876,958,922	82,606,347	-	1,876,958,922	-	-
161 kV T Lines	3,139,418	33,310	3,106,108	-	33,310	-	3,106,108	-
115 kV T Lines	93,115,386	5,165,058	87,950,329	-	5,165,058	-	87,950,329	-
66 kV T Lines	9,980,144	227,249	9,752,895	-	227,249	-	9,752,895	-
55 kV T Lines	13,774,556	138,238	13,636,318	-	138,238	-	13,636,318	-
<b>Total Transmission Lines</b>	<b>4,787,929,867</b>	<b>213,018,988</b>	<b>4,574,910,878</b>	<b>207,455,133</b>	<b>5,563,855</b>	<b>4,460,465,229</b>	<b>114,445,650</b>	<b>-</b>
<b>Substations:</b>								
High Voltage Substations (750 kV, 500kV, 220kV)	3,979,146,963	41,094,319	3,938,052,644	41,094,319	-	3,938,052,644	-	-
<b>Straddle Substations:</b>								
Antelope	216,114,799	21,982	216,092,817	19,464	2,518	180,961,466	23,409,412	11,721,939
Bailey	42,983,117	111,063	42,872,054	54,212	56,852	18,191,374	19,077,282	5,603,398
Eagle Mountain	9,712,419	-	9,712,419	-	-	9,557,922	140,375	14,121
Kramer	47,395,588	40,776	47,354,812	28,778	11,998	23,846,497	9,941,859	13,566,456
Ivanpah	46,180,612	-	46,180,612	-	-	18,814,514	21,789,561	5,576,537
Victor	111,493,956	19,600	111,474,356	7,544	12,056	35,342,733	56,478,959	19,652,663
<b>Total Straddle Substations</b>	<b>473,880,491</b>	<b>193,421</b>	<b>473,687,070</b>	<b>109,998</b>	<b>83,423</b>	<b>286,714,507</b>	<b>130,837,448</b>	<b>56,135,115</b>
Low Voltage Substations (Less Than 220kV)	44,573,801	148,788	44,425,012.82	-	148,788	-	44,425,013	-
<b>Total Substations</b>	<b>4,497,601,254</b>	<b>41,436,527</b>	<b>4,456,164,727</b>	<b>41,204,316</b>	<b>232,211</b>	<b>4,224,767,151</b>	<b>175,262,461</b>	<b>56,135,115</b>
<b>Total Lines and Substations</b>	<b>9,285,531,121</b>	<b>254,455,516</b>	<b>9,031,075,605</b>	<b>248,659,450</b>	<b>5,796,066</b>	<b>8,685,232,379</b>	<b>289,708,111</b>	<b>56,135,115</b>
Plant Total by Account	9,285,531,121	254,455,516	9,031,075,605					

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	248,659,450	5,796,066	254,455,516
Structures	8,685,232,379	289,708,111	8,974,940,490
Total Determined HV/LV	8,933,891,829	295,504,176	9,229,396,006
Percentage:	96.798%	3.202%	100.000%
Transformers	54,337,797	1,797,318	56,135,115
<b>Total HV &amp; LV Gross Plant</b>	<b>8,988,229,626</b>	<b>297,301,495</b>	<b>9,285,531,121</b>

**Southern California Edison Company**  
Summary of ISO Facility Gross Plant  
High/Low Voltage Mix Summary  
12-31-2019 Facilities  
(\$)

Facility:	Location #	Land HV	Land LV	Structures HV	Structures LV	Transformers HV/LV	Total
<b>500/220/66, 220/66, 220/161, or 220/115 kV Substations</b>							
Antelope	5052	19,464	2,518	180,961,466	23,409,412	11,721,939	216,114,799
Bailey	5059	54,212	56,852	18,191,374	19,077,282	5,603,398	42,983,117
Eagle Mountain	5040	-	-	9,557,922	140,375	14,121	9,712,419
Ivanpah	8363	-	-	18,814,514	21,789,561	5,576,537	46,180,612
Kramer	5042 & 8046	28,778	11,998	23,846,497	9,941,859	13,566,456	47,395,588
Victor	8049	7,544	12,056	35,342,733	56,478,959	19,652,663	111,493,956
<b>Total Straddle Substations</b>		<b>109,998</b>	<b>83,423</b>	<b>286,714,507</b>	<b>130,837,448</b>	<b>56,135,115</b>	<b>473,880,491</b>

## SOUTHERN CALIFORNIA EDISON COMPANY

Transmission/Distribution ISO Facilities Study  
12-31-2019 Facilities

2019 Year-End					2018 Year-End			Delta		
Transmission	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total
<b>Land (Substation and Line)</b>										
350		345,076,489	254,455,516	73.7%	343,230,095	252,614,637	73.6%	1,846,394	1,840,878	0.1%
<b>Substation</b>										
352		1,143,959,577	741,230,571	64.8%	983,751,073	643,675,310	65.4%	160,208,505	97,555,262	-0.6%
353		6,517,444,414	3,714,934,156	57.0%	6,072,137,167	3,459,763,553	57.0%	445,307,246	255,170,603	0.0%
<b>Total Substation</b>	-	7,661,403,991	4,456,164,727	58.2%	7,055,888,240	4,103,438,863	58.2%	605,515,751	352,725,864	0.0%
<b>Lines</b>										
354		\$2,380,316,641	2,305,124,778	96.8%	2,355,779,001	2,284,709,795	97.0%	24,537,640	20,414,983	-0.1%
355		1,666,864,455	408,001,019	24.5%	1,500,195,881	386,542,291	25.8%	166,668,575	21,458,728	-1.3%
356		1,763,812,033	1,408,013,216	79.8%	1,653,093,431	1,311,509,387	79.3%	110,718,602	96,503,828	0.5%
357		296,662,316	215,368,702	72.6%	271,487,039	190,891,202	70.3%	25,175,277	24,477,499	2.3%
358		376,202,208	59,251,566	15.7%	399,339,545	83,989,219	21.0%	(23,137,337)	(24,737,654)	-5.3%
359		201,604,232	179,151,598	88.9%	195,497,058	173,783,603	88.9%	6,107,174	5,367,996	0.0%
<b>Total Lines</b>	-	\$6,685,461,886	\$4,574,910,878	68.4%	6,375,391,955	4,431,425,498	69.5%	310,069,930	143,485,381	-1.1%
<b>Total Transmission</b>	-	<b>14,691,942,366</b>	<b>9,285,531,121</b>	<b>63.2%</b>	<b>13,774,510,290</b>	<b>8,787,478,997</b>	<b>63.8%</b>	<b>917,432,075</b>	<b>498,052,123</b>	<b>-0.6%</b>
<b>Distribution</b>										
	Total Plant FERC Form 1	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total	Total Plant	ISO Plant	ISO % of Total
<b>Land:</b>										
360		129,043,959	-	0.0%	126,028,197	-	0.0%	3,015,762	-	0.0%
<b>Structures:</b>										
361		799,384,569	-	0.0%	696,502,262	-	0.0%	102,882,308	-	0.0%
362		2,967,456,409	-	0.0%	2,727,819,402	-	0.0%	239,637,007	-	0.0%
<b>Total Structures</b>	-	3,766,840,978	-	0.0%	3,424,321,664	-	0.0%	342,519,315	-	0.0%
<b>Total Distribution</b>	-	<b>3,895,884,937</b>	-	<b>0.0%</b>	<b>3,550,349,861</b>	-	<b>0.0%</b>	<b>345,535,076</b>	-	<b>0.0%</b>
<b>Total Transmission &amp; Distribution</b>	-	<b>18,587,827,303</b>	<b>9,285,531,121</b>	<b>50.0%</b>	<b>17,324,860,152</b>	<b>8,787,478,997</b>	<b>50.7%</b>	<b>1,262,967,152</b>	<b>498,052,123</b>	<b>-0.8%</b>

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2019 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	-	41,031	4,684,168	4,725,198	-	41,031	4,684,168	-	-	-
INYO	2570	220kV	-	355,696	4,197,276	4,552,972	-	355,696	4,197,276	-	-	-
METRO GOM MAINT	5001	500kV	-	-	43,887,958	43,887,958	-	-	43,887,958	-	-	-
HARBORGEN SUB	5019	220kV	-	57,517	3,991,930	4,049,448	-	57,517	3,991,930	-	-	-
EL SEGUNDO SWITCHRACK SUB	5026	220kV	12,470	1,607,338	8,793,630	10,413,438	12,470	1,607,338	8,793,630	-	-	-
MIDWAY SUB	5032	500kV	-	436,544	12,623,560	13,060,104	-	436,544	12,623,560	-	-	-
PASTORIA SUB	5036	220kV	21,435	1,649,212	12,338,955	14,009,602	21,435	1,649,212	12,338,955	-	-	-
CLWTR SWITCHRACKS 1,2	5044	115kV	-	-	1,476,690	1,476,690	-	-	1,476,690	-	-	-
MOHAVE SWITCHRACK	5045	500kV	-	3,480,107	8,564,850	12,044,957	-	3,480,107	8,564,850	-	-	-
RANCHO VISTA SUB	5047	500kV	1,844,367	24,632,921	154,029,327	180,506,615	1,844,367	24,632,921	154,029,327	-	-	-
SYLMAR SUB	5058	220kV	-	19,757	1,948,141	1,967,898	-	19,757	1,948,141	-	-	-
LUGO SUB	5061	500kV	90,981	33,795,337	147,003,119	180,889,437	90,981	33,795,337	147,003,119	-	-	-
PISGAH SUB	5065	220kV	-	642,203	5,365,358	5,365,358	-	642,203	5,365,358	-	-	-
GENE SUB	5066	220kV	-	34,539	2,064,623	2,099,163	-	-	-	-	34,539	2,064,623
WINDHUB SUB	5079	500kV	1,231,926	31,896,768	212,267,270	245,395,963	1,096,760	28,397,099	188,977,604	135,165	3,499,668	23,289,666
SERRANO SUB	5080	500kV	1,226,475	28,732,890	219,845,718	249,805,083	1,226,475	28,732,890	219,845,718	-	-	-
LEWIS SUB	5089	220kV	1,444	304,525	5,304,867	5,610,837	-	304,525	5,304,867	-	-	-
EL DORADO SUB(NEVADA)	5090	500kV	13,183	38,963,605	192,388,361	231,365,149	13,183	38,963,605	192,388,361	-	-	-
MEAD SUB	5091	500kV	-	-	12,306	12,306	-	-	12,306	-	-	-
MOENKOPF SUB	5092	500kV	-	-	1,516,885	1,516,885	-	-	1,516,885	-	-	-
WEST SERIES CAPACITORS	5093	500kV	-	1,797,455	45,885,867	47,683,322	-	1,797,455	45,885,867	-	-	-
EAST SERIES CAPACITORS 1	5094	500kV	-	870,601	8,323,790	9,194,391	-	870,601	8,323,790	-	-	-
PALO VERDE SWITCHRACK 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	120,849,951	128,660,113	51,663	7,758,498	120,849,951	-	-	-
RP&AS,LND&ESMNT REQUIS	9219	220kV	9,939,315	45,883	-	9,985,198	9,939,315	45,883	-	-	-	-
EDISON ITAC	1451	Misc	-	-	35,855	35,855	-	-	-	-	-	35,855
EL SEGUNDO GEN. STATION	1510	220kV	-	-	2,450	2,450	-	-	-	-	-	2,450
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	-	-	-	-	-	-	-	-	-	-
PALO VERDE 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	-	-	5,007,603	5,007,603	-	-	-	-	-	5,007,603
PALO VERDE-COMMON 1,2,3	1867	500kV	7,766	-	2,721,697	2,729,463	-	-	-	7,766	-	2,721,697
COOLWATER COMMON	1936	220kV	-	108,439	-	108,439	-	-	-	-	108,439	-
SAN BERNARDINO COMMON	1996	220kV	-	27,803	-	27,803	-	-	-	-	27,803	-
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	-	-	4,111,894	4,111,894	-	-	-	-	-	4,111,894
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
BISHOP CREEK NO.3	2523	33kV & Below	-	-	1,847,927	1,847,927	-	-	-	-	-	1,847,927
BISHOP CREEK NO.4	2524	33kV & Below	-	-	86,641	86,641	-	-	-	-	-	86,641

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2019 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
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	381,195	8,337,395	8,720,708	-	-	-	2,119	381,195	8,337,395
LEE VINING	2561	115kV	344	262,259	2,302,338	2,564,940	-	-	-	344	262,259	2,302,338
SHERWIN	2571	115kV	-	100,772	1,194,781	1,295,552	-	-	-	-	100,772	1,194,781
ZACK	2582	55kV	400,881	-	655,406	1,056,287	-	-	-	400,881	-	655,406
SKILAND (MAMMOTH LAKE) SUBSTATION	2587	33kV & Below	-	129,731	-	129,731	-	-	-	-	129,731	-
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	220kV	13,373	5,495,854	77,677,134	83,186,361	-	-	-	13,373	5,495,854	77,677,134
CAMINO SUB	5068	220kV	-	12,697	4,256,457	4,269,154	-	-	-	-	12,697	4,256,457
VELASCO SUB	5072	220kV	-	-	155,442	155,442	-	-	-	-	-	155,442
HUNTINGTON BCH SWITCHRCK	5078	220kV	21,660	262,196	4,891,312	5,175,167	-	-	-	21,660	262,196	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	-	154,829	-	154,829	-	-	-	-	154,829	-
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	-	61,263	-	61,263	-	-	-	-	61,263	-
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	-	14,957	17,794	32,750	-	-	-	-	14,957	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	-	70,273	-	70,273	-	-	-	-	70,273	-
MOBILLOIL SUB	5229	66kV	-	3,652	-	3,652	-	-	-	-	3,652	-
SANTA MONICA SUB	5231	66kV	-	19,277	-	19,277	-	-	-	-	19,277	-
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	-
CRATER SUB	5239	66kV	-	-	9,057	9,057	-	-	-	-	-	9,057
YUKON SUB	5241	66kV	4,415	-	-	4,415	-	-	-	4,415	-	-
COLORADO SUB	5242	66kV	-	40,181	-	40,181	-	-	-	-	40,181	-
TOPANGA SUB	5243	33kV & Below	-	-	-	-	-	-	-	-	-	-
DITMAR SUB	5246	66kV	-	8,977	-	8,977	-	-	-	-	8,977	-
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	-

**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
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	-	21,278	-	21,278	-	-	-	-	21,278	-
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	-	-	595,356	595,356	-	-	-	-	-	595,356
DELANO SUB	5305	66kV	-	60,018	-	60,018	-	-	-	-	60,018	-
EARLMART	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	-	-	-	-	-	-	-	-	-	-
ISABELLA SUB	5347	66kV	73,306	-	-	73,306	-	-	-	73,306	-	-
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	-	-	-	-	-	-	-	-	-	-
ARBWIND SUB	5411	66kV	-	-	6,186	6,186	-	-	-	-	-	6,186
SILVER PEAK SUB	5412	55kV	-	-	84,959	84,959	-	-	-	-	-	84,959
DUTCHWIND SUB	5414	66kV	-	12,069	7,801	19,870	-	-	-	-	12,069	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	-	-	-	-	-	-	-	-	-	-
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	-	52,161	-	52,161	-	-	-	-	52,161	-
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	-	-	-	-	-	-	-	-	-	-
POTRERO SUB	5597	66kV	-	-	-	-	-	-	-	-	-	-
RANDALL SUB	5601	66kV	-	20,403	56,150	76,552	-	-	-	-	20,403	56,150
TIMOTOE SUB	5604	66kV	-	1,760	-	1,760	-	-	-	-	1,760	-
ORANGE PRODUCTS SUB	5606	66kV	-	13,596	-	13,596	-	-	-	-	13,596	-
CARDIFF SUB	5608	66kV	-	117,952	-	117,952	-	-	-	-	117,952	-
INLAND CONTAINER SUB	5612	66kV	-	20,750	-	20,750	-	-	-	-	20,750	-
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
GRAPELAND PEAKER SUB	5630	66kV	-	92,067	-	92,067	-	-	-	-	92,067	-
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	-

**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
YUCAIPA SUB	5636	66kV	-	31,005	-	31,005	-	-	-	-	31,005	-
TIPPECANOE SUB	5637	66kV	-	21,769	-	21,769	-	-	-	-	21,769	-
FRANCIS SUB	5639	66kV	-	59,194	-	59,194	-	-	-	-	59,194	-
LAYFAIR SUB	5645	66kV	-	189,720	-	189,720	-	-	-	-	189,720	-
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	-	-	-	-	-	-	-	-	-	-
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	-
PICO SUBSTATION	5722	66kV	-	96,546	-	96,546	-	-	-	-	96,546	-
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
THUMS "B" SUBSTATION	5742	66kV	-	23,963	-	23,963	-	-	-	-	23,963	-
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	-	-	-	-	-	-	-	-	-	-
SEABRIGHT SUBSTATION	5790	66kV	-	29,034	-	29,034	-	-	-	-	29,034	-
MOVIE SUBSTATION	5798	66kV	-	1,963	17,658	19,621	-	-	-	-	1,963	17,658
VERA SUBSTATION	5801	66kV	-	-	-	-	-	-	-	-	-	-
BRYAN SUBSTATION	5808	66kV	-	62,236	-	62,236	-	-	-	-	62,236	-
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	-
FAIRVIEW SUBSTATION	5821	66kV	-	37,527	-	37,527	-	-	-	-	37,527	-
WAVE SUBSTATION	5828	66kV	-	-	-	-	-	-	-	-	-	-
LA HABRA SUBSTATION	5832	66kV	-	-	17,125	17,125	-	-	-	-	-	17,125
MORRO SUBSTATION	5836	66kV	-	47,115	-	47,115	-	-	-	-	47,115	-
NARROWS SUB	5838	66kV	-	16,683	-	16,683	-	-	-	-	16,683	-
OCEANVIEW SUBSTATION	5842	66kV	-	-	58,101	58,101	-	-	-	-	-	58,101
ORANGE SUBSTATION	5843	66kV	-	32,493	-	32,493	-	-	-	-	32,493	-
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	-	-
CHESTNUT SUBSTATION	5861	66kV	-	15,616	-	15,616	-	-	-	-	15,616	-
SULLIVAN SUBSTATION	5862	66kV	-	-	230,879	230,879	-	-	-	-	-	230,879
BARTOLO SUB	5863	66kV	-	4,087	-	4,087	-	-	-	-	4,087	-
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	-
CENTRAL ORANGE COUNTY DIS	6029	33kV & Below	-	-	-	-	-	-	-	-	-	-
IMPERIAL COUNTY	7013	115kV	-	-	1,702	1,702	-	-	-	-	-	1,702
ROADWAY(CEP)	8000	115kV	110,643	836,044	13,779,094	14,725,781	20,128	147,318	2,652,765	90,515	688,726	11,126,329
PAUBA(CEP) SUB	8003	115kV	106,825	826,875	8,439,721	9,373,421	-	-	-	106,825	826,875	8,439,721
THORNHILL(CEP) SUB	8004	115kV	25,609	996,193	9,072,007	10,093,809	-	-	-	25,609	996,193	9,072,007
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	-	6,877	641,248	648,125	-	-	-	-	6,877	641,248



**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2019 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
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	10,378,032	11,767,485	-	-	-	-	1,389,452	10,378,032
BUNKER(CEP) SUB	8014	115kV	969,397	1,536,772	15,123,607	17,629,776	-	-	-	969,397	1,536,772	15,123,607
FARREL(CEP) SUB	8016	115kV	-	700,622	13,410,336	14,110,958	-	-	-	-	700,622	13,410,336
CONCHO(CEP) SUB	8017	115kV	285,201	672,863	9,621,617	10,579,681	-	-	-	285,201	672,863	9,621,617
AULD(CEP) SUB	8018	115kV	83,538	1,206,444	19,303,972	20,593,954	-	-	-	83,538	1,206,444	19,303,972
MAXWELL(CEP) SUB	8019	115kV	33,940	519,357	11,126,654	11,679,952	-	-	-	33,940	519,357	11,126,654
SAVAGE(CEP) SUB	8020	115kV	29,280	1,477,177	15,638,494	17,144,951	-	-	-	29,280	1,477,177	15,638,494
PEPPER(CEP) SUB	8021	115kV	17,579	509,658	10,204,080	10,731,317	-	-	-	17,579	509,658	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	-	41,871	912,016	953,886	-	-	-	-	41,871	912,016
ALESSANDRO(CEP) SUB	8024	115kV	45,514	2,735,102	24,654,378	27,434,993	-	-	-	45,514	2,735,102	24,654,378
BAKER(CEP) SUB	8025	115kV	-	211,976	2,735,419	2,947,395	-	-	-	-	211,976	2,735,419
BANNING(CEP) SUB	8026	115kV	20,210	1,583,910	16,216,180	17,820,299	-	-	-	20,210	1,583,910	16,216,180
COTTONWOOD(CEP) SUB	8027	115kV	22,426	1,796,115	11,561,373	13,379,914	-	-	-	22,426	1,796,115	11,561,373
EDWARDS(CEP) SUB	8028	115kV	-	53,166	2,862,027	2,915,192	-	-	-	-	53,166	2,862,027
HI DESERT(CEP) SUB	8029	115kV	1,154,541	1,722,650	19,852,862	22,730,054	-	-	-	1,154,541	1,722,650	19,852,862
MOUNTAIN PASS(CEP) SUB	8030	115kV	70,286	26,524	4,428,355	4,525,165	-	-	-	70,286	26,524	4,428,355
RANDSBURG(CEP) SUB	8031	115kV	116	366,345	6,016,279	6,382,740	-	-	-	116	366,345	6,016,279
ROCKET TEST(CEP) SUB	8032	115kV	-	18,045	283,935	301,980	-	-	-	-	18,045	283,935
SEARLES(CEP) SUB	8033	115kV	-	382,872	6,189,822	6,572,694	-	-	-	-	382,872	6,189,822
ZANJA(CEP) SUB	8035	115kV	152,559	1,694,672	9,593,911	11,441,141	-	-	-	152,559	1,694,672	9,593,911
SANTA ROSA(CEP) SUB	8036	115kV	44,689	464,929	21,047,985	21,557,603	-	-	-	44,689	464,929	21,047,985
NELSON(CEP) SUB	8038	115kV	22,819	959,669	14,313,822	15,296,311	-	-	-	22,819	959,669	14,313,822
HOMART(CEP) SUB	8039	115kV	174,875	425,577	5,350,954	5,951,406	-	-	-	174,875	425,577	5,350,954
HOLGATE(CEP) SUB	8041	115kV	27,167	405,785	3,246,975	3,679,926	-	-	-	27,167	405,785	3,246,975
CALECTRIC SUB (CEP)	8042	115kV	27,870	2,639,595	23,030,050	25,697,514	-	-	-	27,870	2,639,595	23,030,050
GARNET SUB	8044	115kV	37,635	1,730,514	13,195,525	14,963,674	-	-	-	37,635	1,730,514	13,195,525
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
USBR BLYTHE SUB	8048	161kV	-	64,707	7,784,555	7,849,262	-	-	-	-	64,707	7,784,555
SN ONOFRE SWTHRK-100%SC	8055	220kV	-	1,714,048	10,597,926	12,311,974	-	-	-	-	1,714,048	10,597,926
PUREWATER SUB	8059	115kV	-	175,506	1,357,312	1,532,818	-	-	-	-	175,506	1,357,312
WHIRLWIND SUB	8060	500kV	-	36,321,463	193,792,725	230,114,188	-	36,321,463	193,792,725	-	-	-
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	1,135,771	10,012,208	11,314,676	-	-	-	166,697	1,135,771	10,012,208
COOL WATER SWITCHRACK 1,2	8074	220kV	-	61,762	1,925,128	1,986,890	-	50,924	1,395,458	-	10,838	529,670
HIGHGROVE SWITCHCRCK	8075	115kV	7,139	178,624	1,813,749	1,999,511	-	-	-	7,139	178,624	1,813,749
SUN CITY(NEW)	8078	115kV	119,513	1,886,034	8,376,608	10,382,155	-	-	-	119,513	1,886,034	8,376,608
AQUEDUCT SUB	8079	115kV	2,880	925,853	10,588,899	11,517,631	-	-	-	2,880	925,853	10,588,899
MENTONE SUB	8082	115kV	161,883	788,697	7,475,340	8,425,920	-	-	-	161,883	788,697	7,475,340
HIGHWIND SUB	8084	220kV	-	6,954,761	4,051,390	11,006,152	-	6,954,761	4,051,390	-	-	-
CAJALCO SUB	8086	115kV	25,836	949,561	11,430,266	12,405,663	-	-	-	25,836	949,561	11,430,266
HESPERIA SUB	8087	115kV	22,150	398,233	7,936,920	8,357,304	-	-	-	22,150	398,233	7,936,920
SKYLARK SUB	8088	115kV	81,206	2,808,006	10,694,985	13,584,197	-	-	-	81,206	2,808,006	10,694,985
MAYBERRY SUB	8089	115kV	23,090	469,331	16,900,702	17,393,123	-	-	-	23,090	469,331	16,900,702
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	742,146	11,371,613	12,156,032	-	-	-	42,272	742,146	11,371,613
ARROWHEAD SUB	8094	115kV	-	509,864	5,994,472	6,504,336	-	-	-	-	509,864	5,994,472
STETSON SUB	8095	115kV	23,493	738,257	9,463,176	10,224,926	-	-	-	23,493	738,257	9,463,176
MARSHINO SUB	8096	115kV	27,809	1,611,970	9,317,291	10,957,071	-	-	-	27,809	1,611,970	9,317,291
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	12,227,184	13,229,141	-	-	-	189,886	812,071	12,227,184
TAMARISK SUB	8099	115kV	125,967	379,583	13,059,461	13,565,012	-	-	-	125,967	379,583	13,059,461
AMARGO SUB	8102	33kV & Below	-	-	-	-	-	-	-	-	-	-
FARRELL SUB	8104	115kV	-	-	-	-	-	-	-	-	-	-
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	-	13,562	-	13,562	-	-	-	-	13,562	-
MILITARY SUB	8120	33kV & Below	-	15,598	-	15,598	-	-	-	-	15,598	-
CANTIL SUB	8121	33kV & Below	-	57,897	7,293	65,190	-	-	-	-	57,897	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	-
DOWNNS SUB	8137	115kV	82,401	5,774,614	17,032,877	22,889,892	-	-	-	82,401	5,774,614	17,032,877
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

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2019 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
EL SOBRANTE SUB	8159	33kV & Below	-	24,846	-	24,846	-	-	-	-	24,846	-
HARVARD SUB	8161	33kV & Below	-	-	8,458	8,458	-	-	-	-	-	8,458
HELEDALE SUB	8163	33kV & Below	-	15,110	81,054	96,165	-	-	-	-	15,110	81,054
INYOKERN 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	1,488,635	-	-	1,488,635	-	-	-	1,488,635	-	-
BOTTLE SUB	8182	115kV	-	173,227	1,283,195	1,456,423	-	-	-	-	173,227	1,283,195
MINNEOLA SUB	8190	33kV & Below	-	-	5,725	5,725	-	-	-	-	-	5,725
MORENO SUB	8193	115kV	104,923	786,407	4,860,139	5,751,469	-	-	-	104,923	786,407	4,860,139
MURRIETA 2 SUB	8195	33kV & Below	-	20,720	21,911	42,631	-	-	-	-	20,720	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	-	48,986	-	48,986	-	-	-	-	48,986	-
NORTH INTAKE SUB	8205	33kV & Below	-	13,741	-	13,741	-	-	-	-	13,741	-
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	-	15,611	-	15,611	-	-	-	-	15,611	-
ORO GRANDE SUB	8212	33kV & Below	-	-	7,994	7,994	-	-	-	-	-	7,994
PALM CANYON SUB	8214	33kV & Below	-	60,590	-	60,590	-	-	-	-	60,590	-
PALM VILLAGE SUB	8215	33kV & Below	-	46,196	-	46,196	-	-	-	-	46,196	-
PEERLESS SUB	8216	33kV & Below	-	-	7,635	7,635	-	-	-	-	-	7,635
GAVILAN SUB	8219	33kV & Below	-	20,693	-	20,693	-	-	-	-	20,693	-
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	-
SIXTEENTH STREET SUB	8239	33kV & Below	-	34,308	-	34,308	-	-	-	-	34,308	-
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	-	533,657	5,301,395	5,835,052	-	-	-	-	533,657	5,301,395
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	-	31,879	751,981	783,860	-	-	-	-	31,879	751,981
CAPWIND	8302	115kV	-	29,827	389,546	419,373	-	-	-	-	29,827	389,546
RENWIND	8303	115kV	-	15,102	814,074	829,176	-	-	-	-	15,102	814,074
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
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	11,719,267	12,993,524	-	-	-	51,172	1,223,085	11,719,267
ELSNORE	8343	115kV	20,961	1,458,980	17,580,999	19,060,940	-	-	-	20,961	1,458,980	17,580,999
SOUTH BASE SUB	8344	115kV	12,179	170,995	2,017,154	2,200,328	-	-	-	12,179	170,995	2,017,154
INDIAN WELLS SUB	8345	115kV	222,600	913,774	12,772,817	13,909,192	-	-	-	222,600	913,774	12,772,817
PECHANGA SUB	8347	115kV	560,579	899,617	11,274,369	12,734,565	-	-	-	560,579	899,617	11,274,369
MORAGA	8348	115kV	40,720	377,986	17,695,888	18,114,594	-	-	-	40,720	377,986	17,695,888
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

**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
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	4,788,089	6,520,338	-	-	-	91,119	1,641,131	4,788,089
MOVAL SUBSTATION	8362	115kV	-	128,640	491,674	620,314	-	-	-	-	128,640	491,674
SANDLOT SUB	8370	220kV	-	790,436	4,028,190	4,818,626	-	-	-	-	790,436	4,028,190
KARMA SUB	8371	115kV	-	-	41,212	41,212	-	-	-	-	-	41,212
PRIMM SUBSTATION	8372	220kV	-	11,940,236	19,299,655	31,239,892	-	11,940,236	19,299,655	-	-	-
BLAST SUBSTATION	8373	115kV	-	471,546	69,402	540,949	-	-	-	-	471,546	69,402
CALCITE SUBSTATION 220 kV	8375	220kV	-	-	14,699	14,699	-	-	14,699	-	-	-
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	-	-
SHELL WESTERN(BREA) SUB	8813	66kV	-	9,846	-	9,846	-	-	-	-	9,846	-
EAST TRANSITION	8860	500kV	-	7,413,039	8,688,222	16,101,260	-	7,413,039	8,688,222	-	-	-
MWD EASTSIDE RES	8956	115kV	-	-	-	-	-	-	-	-	-	-
WEST TRANSITION	8960	500kV	-	9,060,132	5,782,833	14,842,966	-	9,060,132	5,782,833	-	-	-
CONSTR FIELD FORCES	9009	Div Offices & Misc	-	-	527,316	527,316	-	-	-	-	-	527,316
TRANS/SUB SUPPORT SERV	9047	Div Offices & Misc	-	-	81,729,302	81,729,302	-	-	-	-	-	81,729,302
INFO TECH-GO2	9077	Div Offices & Misc	-	-	1	1	-	-	-	-	-	1
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
MONOLUTH SUB	5358	66kV	-	234	1,261,397	1,261,631	-	-	-	-	234	1,261,397
ACTON SUB	5365	66kV	24,167	-	15,397	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	-	89,829	275,391	365,220	-	-	-	-	89,829	275,391
ANAVERDE SUB	5539	66kV	-	-	76,359	76,359	-	-	-	-	-	76,359
ROSAMOND SUB	5541	66kV	-	66,626	658,870	725,496	-	-	-	-	66,626	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
HELIJET SUB	5599	66kV	-	-	499,396	499,396	-	-	-	-	-	499,396
RITTER SUB	8504	66kV	942,487	-	-	942,487	-	-	-	942,487	-	-
BIG CREEK NO.1	2211	220kV	-	264,412	13,764,319	14,028,730	-	133,452	6,937,192	-	130,959	6,827,126
BIG CREEK NO.8	2229	220kV	-	282,649	3,159,236	3,441,885	-	271,731	3,037,202	-	10,918	122,033
BIG CREEK NO.3	2230	220kV	-	2,536,133	18,979,949	21,516,082	-	1,918,806	14,359,985	-	617,327	4,619,963
CONTROL STATION	2556	115kV	-	1,661,309	15,817,075	17,478,385	-	1,345,141	13,150,219	-	316,168	2,666,857
T.M. GOODRICH SUB-PASADEN	5010	220kV	-	657,550	35,398	692,948	-	657,550	35,398	-	-	-
EAGLE ROCK SUB	5011	220kV	19,613	4,966,351	34,708,695	39,694,659	3,695	934,743	6,538,880	15,919	4,031,608	28,169,815
MESA SUB	5012	220kV	2,031,347	86,167,567	250,684,536	338,883,450	980,964	43,454,853	119,215,368	1,050,384	42,712,714	131,469,168
RIO HONDO SUB	5013	220kV	457,530	10,621,618	77,785,680	88,864,828	110,223	2,558,844	18,739,277	347,307	8,062,774	59,046,403
WALNUT SUB	5014	220kV	97,955	13,778,471	48,378,978	62,255,403	31,362	7,261,129	12,639,688	66,593	6,517,342	35,739,290
GOULD SUB	5015	220kV	29,300	1,514,916	33,349,017	34,893,234	10,893	563,197	12,398,092	18,407	951,719	20,950,926
DRYCREEKWIND SUB	5018	220kV	-	(0.01)	0.01	-	-	(0.01)	0.01	-	-	-
LA FRESA SUB	5021	220kV	101,370	14,058,895	142,816,999	156,977,264	17,256	2,387,481	24,317,361	84,114	11,671,414	118,499,638
EL NIDO SUB	5023	220kV	285,620	13,718,618	51,717,477	65,721,715	105,866	6,123,690	18,130,353	179,754	7,594,928	33,587,125
LA CIENEGA SUB	5024	220kV	2,100,227	6,044,555	44,720,031	52,864,813	643,281	1,851,395	13,697,356	1,456,946	4,193,160	31,022,674
ALAMITOS SWITCHRACK SUB	5025	220kV	62,281	3,211,371	41,711,812	44,985,464	16,782	233,921	11,870,771	45,499	2,977,450	29,841,041
LG BCH SWITCHRACK SUB	5027	220kV	97,213	1,384,839	8,695,376	10,177,428	32,086	457,083	2,933,165	65,127	927,756	5,762,211
REDONDO SWITCHRACK SUB	5028	220kV	13,018	39,761	5,935,327	5,988,106	9,211	28,133	4,199,492	3,807	11,628	1,735,836
MAGUNDEN SUB	5031	220kV	8,363	3,940,807	19,953,865	23,903,035	7,971	3,756,102	19,018,961	392	184,704	934,904
RECTOR SUB	5033	220kV	394,843	21,458,240	124,928,712	146,781,795	203,433	11,031,534	65,283,604	191,410	10,426,706	59,645,108
SPRINGVILLE SUB	5034	220kV	12,198	3,598,182	46,127,543	49,737,923	4,943	1,390,306	18,761,869	7,254	2,207,876	27,365,674
VESTAL SUB	5035	220kV	7,243	2,101,575	55,679,161	57,787,979	3,333	986,342	25,606,788	3,909	1,115,234	30,072,373
EAGLE MT. SUB	5040	220kV	-	529,160	20,360,738	20,889,897	-	207,429	9,504,990	-	321,731	10,855,747
CIMA SUB	5043	220kV	1,824	162,785	3,284,606	3,449,215	207	18,447	372,210	1,617	144,338	2,912,396
MANDALAY SWITCHRACK SUB	5048	220kV	49,104	67,252	2,575,916	2,692,272	-	-	-	49,104	67,252	2,575,916
PARDEE SUB	5050	220kV	970,263	11,276,885	44,360,991	56,608,139	838,293	9,743,986	38,326,310	131,970	1,532,898	6,034,681
ANTELOPE SUB	5052	500kV	21,983	7,961,641	208,140,455	216,124,078	21,982	7,961,321	208,131,496	1	320	8,959
SANTA CLARA SUB	5053	220kV	140,739	4,316,796	58,622,018	58,622,018	39,402	1,208,540	15,164,018	101,338	3,108,255	39,000,465
GOLETA SUB	5055	220kV	236,194	3,861,971	31,378,724	35,476,888	77,109	1,253,174	11,599,637	159,085	2,608,796	19,779,087

## 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
MOORPARK SUB	5056	220kV	184,091	6,914,667	73,083,964	80,182,722	33,530	1,259,407	13,311,189	150,561	5,655,261	59,772,775
BAILEY SUB	5059	220kV	111,063	8,462,552	34,409,502	42,983,117	111,063	8,462,552	34,409,502	-	-	-
PADUA SUB	5060	220kV	149,547	5,306,259	55,672,572	61,128,377	58,845	2,084,204	22,003,025	90,702	3,222,055	33,669,547
CHINO SUB	5062	220kV	34,465	19,138,169	72,133,618	91,306,252	16,193	11,689,691	31,193,298	18,272	7,448,478	40,940,320
JULIAN HINDS SUB	5063	220kV	-	1,561,070	24,294,785	25,855,856	-	1,547,815	24,088,491	-	13,256	206,295
VISTA SUB	5064	220kV	52,109	25,031,998	76,981,637	102,065,744	11,205	5,385,154	16,550,327	40,904	19,646,844	60,431,310
DEVERS SUB	5067	500kV	1,370,884	54,253,202	221,729,855	277,353,941	1,150,255	45,522,788	186,043,875	220,628	8,730,414	35,685,981
MIRA LOMA SUB	5069	500kV	474,735	51,626,773	229,118,577	281,220,085	408,059	44,248,964	197,065,604	66,677	7,377,809	32,052,974
HINSON SUB	5071	220kV	678,278	4,906,162	38,327,617	43,912,057	146,137	631,078	8,683,748	532,141	4,275,085	29,643,868
LIGHTHIPE SUB	5073	220kV	164,680	14,341,871	40,384,622	54,891,173	58,731	5,114,868	14,402,724	105,948	9,227,003	25,981,898
LAGUNA BELL SUB	5074	220kV	131,263	3,041,141	54,700,402	57,872,806	42,085	1,063,252	17,449,772	89,177	1,977,889	37,250,630
DEL AMO SUB	5075	220kV	164,747	6,442,553	61,913,058	68,520,358	27,658	1,366,458	10,112,917	137,089	5,076,096	51,800,141
BARRE SUB	5081	220kV	86,188	4,996,568	61,140,756	66,223,512	28,142	1,631,450	19,963,320	58,046	3,365,118	41,177,436
VILLA PARK SUB	5082	220kV	270,570	7,001,198	55,891,066	63,162,834	78,105	1,892,104	16,270,911	192,465	5,109,094	39,620,156
VIEJO SUBSTATION	5083	220kV	13,285,971	9,071,791	34,708,627	57,066,389	3,182,453	2,172,928	8,314,006	10,103,519	6,898,863	26,394,621
CENTER SUB	5084	220kV	71,802	5,397,740	52,866,283	58,335,825	5,986	360,469	4,496,936	65,816	5,037,272	48,369,347
JOHANNA SUB	5085 & 5881	220kV	813,416	5,644,787	25,631,453	32,089,656	230,558	1,331,888	8,065,067	582,859	4,312,899	17,566,387
ELLIS SUB	5086	220kV	59,737	5,554,944	80,091,784	85,706,466	14,863	1,381,882	19,927,873	44,874	4,173,063	60,163,911
OLINDA SUB	5087	220kV	390,538	2,252,648	33,234,680	35,877,866	59,311	342,107	5,047,313	331,227	1,910,541	28,187,367
SANTIAGO SUB	5088	220kV	557,976	13,737,650	154,150,209	168,445,836	309,068	9,642,603	83,351,824	248,909	4,095,047	70,798,385
ETIWANDA SWITCHRACK SUB	5096	220kV	186,144	4,615,808	58,983,420	63,785,372	34,124	828,192	10,830,868	152,020	3,787,616	48,152,551
EL CASCO SUBSTATION	8006	220kV	-	30,368,531	57,029,944	87,398,475	-	5,073,514	9,527,698	-	25,295,017	47,502,246
MIRAGE(CEP) SUB	8012	220kV	629,541	4,944,517	60,126,399	65,700,456	243,328	1,898,870	23,227,468	386,212	3,045,647	36,898,931
TORTILLA(CEP) SUB	8037	115kV	17,114	1,027,694	11,230,369	12,275,177	6,493	389,377	4,261,306	10,621	638,317	6,969,063
VICTOR SUB	8049	220kV	22,088	12,283,547	113,344,611	125,650,246	19,600	10,907,149	100,567,208	2,489	1,376,399	12,777,403
LAKEVIEW SUB	8056	115kV	-	9,217,549	22,362,501	31,580,050	-	-	-	-	9,217,549	22,362,501
EASTWIND SUB	8058	220kV	-	-	23,430	-	-	-	-	-	-	23,430
CHEVMAIN	8063	220kV	-	405,869	15,667,961	16,073,830	-	94,018	3,629,412	-	311,851	12,038,549
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	684,522	14,831,395	15,523,881	2,190	183,639	4,083,386	5,774	500,883	10,748,009
Kramer & Kramer-Radial Line Agmt	5042 & 8046	220kV	48,811	2,675,257	54,011,256	56,735,325	40,776	2,234,858	45,119,954	8,035	440,399	8,891,302
Vincent	5054 & 8954	500kV	17,324,279	27,937,962	224,229,940	269,492,180	17,324,279	27,937,962	224,229,940	-	-	-
Valley & Valley - CEP	5070 & 8034	500kV	311,358	41,273,069	183,690,040	225,274,467	120,696	13,922,509	73,202,063	190,662	27,350,559	110,487,977
San Onofre Switchrack	8051-8055	220kV	-	-	-	-	-	-	-	-	-	-
San Bernardino-220kv Switchyard & 220kv to 66kv	8076 & 1999	220kV	302,392	5,511,643	51,546,337	57,360,373	76,305	1,376,175	13,021,782	226,087	4,135,468	38,524,556
GREENWALD SUB	8339	115kV	-	10,350	8,152	18,502	-	-	-	-	10,350	8,152
IVANPAH SUB	8363	220kV	-	13,078,567	33,242,573	46,321,141	-	13,038,890	33,141,722	-	39,678	100,851
NEW VICTOR SUB	8364	115kV	-	-	-	-	-	-	-	-	-	-
LEATHERNECK SUB	8366	115kV	-	38,734	21,262	59,996	-	-	-	-	38,734	21,262
RED BLUFF SUB	8369	500kV	-	93,437,173	114,635,014	208,072,187	-	93,437,173	114,635,014	-	-	-
COLORADO RIVER SUB	8367	500kV	-	39,980,529	139,440,169	179,420,698	-	39,980,529	139,440,169	-	-	-
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	2,926,213	8,464	27,105	2,961,782	2,926,213	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	-	-	-	-	-	-
PARDEE-VINCENT LINE CONST	4059	220kV	13,002	-	-	13,002	-	-	-	-	-	-
RIO HONDO-VINCENT LN 2	4070	220kV	61,040	-	-	61,040	-	-	-	-	-	-
MANY TRANSMISSION LINES	4101	220kV	1,539,837	654,539	98,475	2,292,851	1,506,262	640,267	96,328	33,575	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	30,139	1,443,656	1,261,122	77,815	28,548	70,246	4,334	1,590
33 AND 66 KV LINES	4105	66kV	33,538,894	12,838,759	2,014,396	48,392,048	227,249	86,991	13,649	33,311,645	12,751,767	2,000,747
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	4,278,569	1,178,834	-	5,457,403	4,278,569	1,178,834	-	-	-	-
CHINO-SERRANO/SN ONFRE LN	4108	220kV	8,072,178	4,365,055	-	12,437,233	8,071,997	4,364,957	-	181	98	-
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	-	-	-	-	-	-
BIGCRK-SPRGVL, MGDN-SPRGV	4113	220kV	712,190	23,989	-	736,179	-	23,986	-	66	2	-
ALAMITOS-MESA LN, OTHERS	4114	220kV	3,210,534	1,105,820	661,182	4,977,536	3,063,711	1,055,249	630,945	146,824	50,571	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	464,777	2,065	4,061,395	3,594,552	464,777	2,065	-	-	-
HINSON-LA FRESA	4416	220kV	-	-	-	-	-	-	-	-	-	-
ELDRDO-CIMA-PISGAH LN1,2	4117	220kV	1,004,389	67,865	12,857	1,085,110	1,004,389	67,865	12,857	-	-	-
MRA LMA-VLL PK LNS, OTHR	4118	220kV	5,611,464	841,681	2,260	6,455,405	4,640,667	696,068	1,869	970,797	145,613	391
CENTER-MESA LN, OTHERS	4119	220kV	2,101,337	248,675	101	2,350,113	1,671,908	197,856	80	429,429	50,819	21
ALAMITOS-CENTER, OTHERS	4120	220kV	4,271,232	823,645	29,998	5,124,874	3,793,539	731,529	26,643	477,693	92,116	3,355

## TRANSMISSION SUBSTATION FACILITIES

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
ALAMITOS-CENTER....	4420	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 4-SPRNGVLL-MGDN	4121	220kV	209,639	55,314	-	264,953	209,639	55,314	-	-	-	-
LUGO-VINCENT LNES 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	1,206,209	500,270	13,213,920	8,561,943	897,462	372,218	2,945,497	308,747	128,051
NORTH BOULDER-MEAD, OTHER	4127	220kV	19,842	-	-	19,842	12,581	-	-	7,261	-	-
KERN RIVER3-VESTAL 66 KV	4129	66kV	31,413	-	-	31,413	-	-	-	31,413	-	-
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	46,874	-	-	46,874	-	-	-	46,874	-	-
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	36,143	-	1,366,516	1,330,373	36,143	-	-	-	-
LUGO-ELDORADO LN	4137	500kV	16,589	-	-	16,589	16,589	-	-	-	-	-
LUGO-MIRA LOMA 2&3	4138	500kV	9,587,137	3,085,745	145,824	12,818,706	9,587,137	3,085,745	145,824	-	-	-
SPRGVLL-TULE 66KV LN	4139	66kV	517	-	-	517	-	-	-	517	-	-
MOHAVE-LUGO 500 KV LN	4140	500kV	278,112	7,308	-	285,419	278,112	7,307.60	-	-	-	-
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	1,733,248	-	-	1,733,248	1,733,248	-	-	-	-	-
SANTA ANA LNS 1,2,3	4149	33kV & Below	232	-	-	232	-	-	-	232	-	-
VINCENT-PEARBLOSSOM LN	4153	220kV	309,032	-	-	309,032	-	-	-	309,032	-	-
LUGO-VICTORVLL EDSON-DWP	4154	500kV	748,544	51,478	-	800,021	748,544	51,478	-	-	-	-
MIDWAY-VINCENT LN 3	4155	500kV	5,825,616	-	-	5,825,616	5,825,616	-	-	-	-	-
ELLIS-SANTIAGO LNS 1,2	4156	220kV	12,018,447	-	-	12,018,447	12,018,447	-	-	-	-	-
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	-	-	-	-	-	-
BIG CRK 3-MAMMOTH POOL	4168	220kV	4,331	523,515	-	527,846	-	-	-	4,331	523,515	-
BIG CRK 1-RECTOR, OTHER	4169	220kV	11,882,221	692,660	2,701	12,577,582	11,581,577	675,134	2,633	300,645	17,526	68
DEVERS-PALO VERDE	4185	500kV	14,776,950	36,143	-	14,813,092	14,776,950	36,143	-	-	-	-
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-INLAND 500KV TL	4191	500kV	-	36,143	-	36,143	-	-	-	-	36,143	-
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 LN	4211	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 3-SPRNGVL-MGNDN	4213	220kV	-	-	-	-	-	-	-	-	-	-
BIG CREEK 3-MAMMOTH POOL	4268	220kV	-	-	-	-	-	-	-	-	-	-
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	25,977,199	2,872,305	-	28,849,503	25,977,199	2,872,305	-	-	-	-
MESA-REDONDO 220KV LN	4414	220kV	-	-	-	-	-	-	-	-	-	-
CENTER MESA&OLINDA 220KV	4419	220kV	-	-	-	-	-	-	-	-	-	-
DEVERS-HINDS 220KV LNS	4504	220kV	-	-	-	-	-	-	-	-	-	-
33 & 66KV LNES 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	-	-	-	-	-	-	-	-	-	-

**SOUTHERN CALIFORNIA EDISON COMPANY**

12-31-2019 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
PARDEE-VINCENT 220KV LN 2	4647	220kV	-	7,378	-	7,378	-	-	-	-	7,378	-
CORONA-JEFFERSON 66 KV LN	4705	66kV	243,215	2,111,150	-	2,354,365	138,238	1,199,934	-	104,977	911,217	-
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	16,338,328	285,897	5,964,831	22,589,056	4,571,770	79,999	1,669,071	11,766,557	205,898	4,295,759
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	-	-	-	-
BLTYHE-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-CLWTR 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	-	-	-	-	-	-	-	-	-	-
<b>TOTAL TRANSMISSION SUBSTATIONS</b>			<b>\$ 344,913,785</b>	<b>\$ 1,130,347,806</b>	<b>\$ 6,467,425,997</b>	<b>\$ 7,942,687,587</b>	<b>\$ 254,335,539</b>	<b>\$ 732,410,800</b>	<b>\$ 3,686,423,728</b>	<b>\$ 90,578,246</b>	<b>\$ 397,937,005</b>	<b>\$ 2,781,002,268</b>
<b>Recalc based on all other TS locations</b>												
<b>Allocation % to use</b>												
DIV MTCE / OVERHAUL MNGT	1000	66kV	-	-	6,285	6,285	-	-	3,583	-	-	2,703
MOUNTAINVIEW POWER-COMMON	1250	220kV	-	-	27,323,050	27,323,050	-	-	15,574,100	-	-	11,748,950
PALOVERDE-SWITCHYARD	1869	500kV	-	2,465,520	7,901,074	10,366,594	-	1,597,538	4,503,601	-	867,982	3,397,473
PV UNIT 1-INCREMENTAL	1870	500kV	-	-	194,959	194,959	-	-	111,126	-	-	83,832
BIG CREEK NO.2	2212	220kV	-	-	2,274,534	2,274,534	-	-	1,296,481	-	-	978,053
BIG CREEK NO.2A	2234	220kV	-	-	1,031,434	1,031,434	-	-	587,916	-	-	443,518
MET T/S REGION	4300	66kV	-	131,348	14,696	146,044	-	85,107	8,376	-	46,241	6,319
COASTAL T/S REGION	4400	66kV	3,127	433,988	92,729	529,844	2,306	281,203	52,855	821	152,785	39,874
EASTERN T/S REGION	4500	66kV	-	1,650,139	916,891	2,567,030	-	1,069,210	522,626	-	580,929	394,264
NRTHN T/S REGION	4600	66kV	-	2,007,612	-	2,007,612	-	1,300,835	-	-	706,776	-
EASTERN T/S REG	4700	66kV	33,305	522,260	591,382	1,146,948	24,559	338,400	337,087	8,746	183,861	254,295
HUMAN EXTERNAL CARGO TRAINING SITE	4799	66kV	-	321,805	-	321,805	-	208,514	-	-	113,291	-
VAR. TRANS. LINES-S/E DIV	4800	66kV	2,931	1,543,933	711,670	2,258,534	2,161	1,000,394	405,651	770	543,539	306,019
NORTHEASTERN T/S DIV.	4900	66kV	-	-	-	-	-	-	-	-	-	-
SUBSTN DIV	5000	Misc	-	-	3,270,205	3,270,205	-	-	1,864,012	-	-	1,406,193
NO. T/S REG OFC/VALENCIA	5038	Misc	123,342	3,723,403	-	3,846,745	90,951	2,412,585	-	32,391	1,310,817	-
METRO REGION	5100	33kV & Below	-	-	265,939	265,939	-	-	151,585	-	-	114,354
NEENACH SUB	5556	66kV	-	46,787	408,193	454,981	-	30,316	232,670	-	16,471	175,524
BARSTOW NO RGN-SAN BERDOO	6072	CSTM SRVC FAC.	-	7,617	-	7,617	-	4,935	-	-	2,682	-
FRESNO COUNTY	7010	33kV & Below	-	-	-	-	-	-	-	-	-	-
VENTURA COUNTY	7056	33kV & Below	-	-	74,798	74,798	-	-	42,635	-	-	32,163
B&A-T/S 3RD FLOOR-GO3	9010	220kV	-	-	823	823	-	-	469	-	-	354
CHINO OFC BLDG (FACILITY)	9024	Misc	-	373,558	-	373,558	-	242,047	-	-	131,510	-
IRVINE OPER CENTER	9078	Misc	-	8,245	-	8,245	-	5,342	-	-	2,903	-
FUELS	9203	Misc	-	-	341,890	341,890	-	-	194,877	-	-	147,013
INNOVATION VILLAGE 1	9221	Div Offices & Misc	-	-	1,509,815	1,509,815	-	-	860,592	-	-	649,222
CONTROL SYS SEC-ALHAMBRA	9243	Div Offices & Misc	-	375,558	2,962,532	3,338,089	-	243,343	1,688,639	-	132,214	1,273,893
TELECOMM-ALHAMBRA	9330	Misc	-	-	108,737	108,737	-	-	61,980	-	-	46,757
CONWAY SUMMIT COMM SITE	9339	Misc	-	-	14,913	14,913	-	-	8,500	-	-	6,412
INTERNAL ORDER	INTERNAL ORDER	Misc	-	-	1,868	1,868	-	-	1,065	-	-	803
CHINO-VILLA PARK 220KV LN	4318-NU	220kV	-	-	-	-	-	-	-	-	-	-
<b>Total Locations Reclac'd</b>			<b>\$ 162,705</b>	<b>\$ 13,611,772</b>	<b>\$ 50,018,417</b>	<b>\$ 63,792,893</b>	<b>\$ 119,976</b>	<b>\$ 8,819,771</b>	<b>\$ 28,510,427</b>	<b>\$ 42,728</b>	<b>\$ 4,792,001</b>	<b>\$ 21,507,990</b>

**SOUTHERN CALIFORNIA EDISON COMPANY**  
Transmission Line Study Results  
As of December 2019

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	357	358	359
4026	MIDWAY-VINCENT LINES 1&2	500	Lines	-	-	225,495	225,495	225,495	225,495	2,926,213	8,464	27,105	22,393,506	741,658	22,941,425	-	-	795,535
4031	DWP-EDSN CELLO-SYLMR CA	1000	Lines	8,594	8,594	327,584	327,584	336,178	336,178	-	95,841	-	30,557,330	-	64,186,911	-	-	136,841
4034	DWP-EDSN CELLO-SYLMR NV	1000	Lines	-	-	289,725	289,725	289,725	289,725	-	541	-	8,630,439	-	7,494,128	-	-	668,871
4045	PARDEE-SYLMAR LNS 1&2	220	Lines	-	-	12,996	12,996	12,996	12,996	187,213	106,089	-	701,607	-	453,192	-	-	38,006
4046	EAGLE ROCK-SYLMAR LNE	220	Lines	-	-	1,790	1,790	1,790	1,790	186,657	-	-	214,409	-	62,108	-	-	-
4051	PARDEE-VINCENT LN 1	220	Lines	-	-	32,325	32,325	32,325	32,325	-	-	-	316,356	-	204,878	-	-	145,317
4059	PARDEE-VINCENT LINE CONST	220	Lines	-	-	2,739	2,739	2,739	2,739	13,002	-	-	966,737	-	202,343	-	-	20,953
4070	RIO HONDO-VINCENT LN 2	220	Lines	-	-	4,424	4,424	4,424	4,424	61,040	-	-	436,317	-	1,532,264	-	-	11,892
4101	MANY TRANSMISSION LINES	220	Lines	-	-	352,201	344,521	352,201	344,521	1,539,837	654,539	98,475	30,520,195	2,072,856	41,525,928	-	-	1,151,849
4102	COGEN/RENEWABLE ENERGY SO	220	Lines	-	-	8,427	4,780	8,427	4,780	1,466,128	-	-	2,605,642	-	386,363	-	-	824,324
4104	DEVERS-HINS LN, OTHERS	220	Lines	0.042	0.042	158,667	150,293	158,709	150,335	1,331,368	82,149	30,139	17,329,259	15,795,585	31,472,994	1,480	260,160	2,609,301
4105	33 AND 66 KV LINES	66	Lines	343,517	-	4,636,766	33,745	4,980,283	33,745	33,538,894	12,838,759	2,014,396	19,698,843	1,030,713,139	272,408,745	70,022,521	288,263,355	18,573,435
4107	ANTELOPE/MESA LINE, OTHER	220	Lines	-	-	185,660	185,660	185,660	185,660	4,278,569	1,178,834	-	129,224,027	14,659,895	60,538,970	-	-	88,484,912
4108	CHINO-SERRANO/SN ONFRE LN	220	Lines	-	-	169,562	169,568	169,562	169,558	8,072,178	4,365,055	-	15,613,693	1,472,898	14,150,858	-	-	1,551,552
4109	COACHELLA VALLEY-DEVERS (SCE PO	220	Lines	-	-	0,383	0,383	0,383	0,383	-	25,255	-	-	-	467,285	-	-	-
4111	BIG CRK 3-BIG CRK 4	220	Lines	-	-	5,791	5,791	5,791	5,791	1,944	-	-	133,734	-	530,440	-	-	29,429
4113	BIGCRK-SPRGVL, MGDN-SPRGV	220	Lines	-	-	99,298	99,288	99,298	99,288	712,190	23,989	-	20,158,137	77,656,081	16,572,889	-	-	631,018
4114	ALAMITOS-MESA LN, OTHERS	220	Lines	-	-	129,553	123,628	129,553	123,628	3,210,534	1,105,820	661,182	15,657,217	3,872,232	11,660,123	-	-	304,171
4115	HINSON-LIGHTHIPE 1&2	220	Lines	-	-	27,067	27,067	27,067	27,067	1,607,024	616,675	2,149	4,183,107	498,077	2,127,313	-	-	27,417
4116	HINSON-LAFRESA, OTHERS	220	Lines	0.953	0.953	90,453	90,453	91,405	91,405	3,594,552	464,777	2,065	3,155,564	11,433,159	9,582,263	180,589	456,828	13,558
4117	ELDRDO-CIMA-PISGAH LN1,2	220	Lines	-	-	334,265	334,265	334,265	334,265	1,004,389	67,865	12,857	25,552,509	4,938,337	12,076,607	-	-	151,162
4119	CENTER-MESA LN, OTHERS	220	Lines	-	-	131,296	104,465	131,296	104,465	2,101,337	248,675	101	31,694,028	85,176	26,402,613	-	-	2,830,220
4120	ALAMITOS-CENTER, OTHERS	220	Lines	-	-	150,093	133,306	150,093	133,306	4,271,232	823,645	29,998	8,621,812	880,665	7,044,159	256	-	33,420
4121	BIG CREEK 4-SPRNGVLL-MGDN	220	Lines	-	-	135,414	135,414	135,414	135,414	209,639	55,314	-	17,148,729	3,491,606	9,840,706	-	-	250,994
4123	LUGO-VINCENT LNS 1&2	500	Lines	-	-	94,387	94,387	94,387	94,387	1,749,466	-	16,633	13,081,444	103,494	8,112,443	-	-	1,891
4124	BIG CRK 1-CMP TEN--PRTL	66	Lines	-	-	-	-	-	-	485	-	-	48,890	-	312,251	202,022	1,343	68,591
4125	GOLETA-SNTA CLARA, OTHERS	220	Lines	-	-	414,747	308,587	414,747	308,587	11,507,441	1,206,209	500,270	33,244,048	3,133,390	17,424,998	-	-	1,781,163
4127	NORTH BOULDER-MEAD, OTHER	220	Lines	-	-	85,089	53,952	85,089	53,952	19,842	-	-	700,024	8,020	549,803	-	-	5,205
4128	LYTLE CREEK-POLE 534694E	66	Lines	-	-	-	-	-	-	-	-	-	-	1,240	1,277	-	-	-
4129	KERN RIVER3-VESTAL 66 KV	66	Lines	-	-	88,602	-	88,602	-	31,413	-	-	345,087	1,667,668	931,818	-	-	-
4130	MOHAVE-LUGO 500KV	500	Lines	-	-	9,853	9,853	9,853	9,853	157,990	-	-	1,471,682	-	517,455	-	-	19,051
4132	CUMMINGS-KERBN RIV1, OTH	66	Lines	-	-	3,798	-	3,798	-	3,146	-	-	60,500	175,424	177,342	-	-	40,795
4133	BOREL--WALKER 66KV LN	66	Lines	-	-	38,551	-	38,551	-	46,874	-	-	7,516	12,361,921	706,473	-	-	11,455
4136	LUGO-ELDORADO LN	500	Lines	-	-	150,669	150,669	150,669	150,669	1,330,373	36,143	-	17,938,062	2,050,363	10,656,252	-	-	117,747
4137	LUGO-ELDORADO LN	500	Lines	-	-	26,509	26,509	26,509	26,509	16,589	-	-	3,643,443	-	4,529,049	-	-	20,088
4138	LUGO-MIRA LOMA 2&3	500	Lines	-	-	97,511	97,511	97,511	97,511	9,587,137	3,088,745	145,824	32,838,726	118,240	24,904,638	-	-	591,464
4139	SPRGVLL-TULE 66KV LN	66	Lines	-	-	2,388	-	2,388	-	517	-	-	-	1,023,925	161,619	-	-	-
4140	MOHAVE-LUGO 500 KV LN	500	Lines	-	-	165,957	165,957	165,957	165,957	278,112	7,308	-	25,306,365	1,513,721	10,310,625	-	-	329,333
4141	MOHAVE-ELDORADO LN	500	Lines	-	-	59,395	59,395	59,395	59,395	76,199	-	-	4,434,062	-	1,251,359	-	-	55,916
4142	BOREL-WELDON 66KV LN	66	Lines	-	-	31,508	-	31,508	-	25,409	-	-	-	5,819,445	1,313,563	-	-	-
4143	ELDORADO-BORDER 500 KV LN	500	Lines	-	-	29,646	29,646	29,646	29,646	6,167	-	-	4,052,185	-	1,880,705	-	-	145,064
4144	ELDORADO-MEAD LNS 1&2	220	Lines	-	-	30,636	30,636	30,636	30,636	9,994	-	-	473,674	(2,826)	429,215	-	-	1,023
4147	VINCENT-PARDEE LN 2	220	Lines	-	-	29,694	29,694	29,694	29,694	3,884,037	-	1,880	2,765,700	-	11,278,478	-	-	145,187
4148	MIRA LOMA-SERRANO LN	500	Lines	-	-	39,460	39,460	39,460	39,460	1,733,248	-	-	26,646,806	-	7,820,573	-	-	761,201
4149	SANTA ANA LNS 1,2,3	66	Lines	-	-	3,992	-	3,992	-	232	-	-	-	60,363	26,752	-	-	1,093
4153	VINCENT-PEARLBLOSSOM LN	220	Lines	-	-	13,127	-	13,127	-	309,032	-	-	60,375	1,200,430	308,138	-	-	23,687
4154	LUGO-VICTORVLL EDSON-DWP	500	Lines	-	-	7,574	7,574	7,574	7,574	748,544	51,478	-	2,724,622	-	762,540	-	-	-
4155	MIDWAY-VINCENT LN 3	500	Lines	-	-	60,245	60,245	60,245	60,245	5,825,616	-	-	20,858,769	1,757,686	7,511,408	-	-	187,772
4156	ELLIS-SANTIAGO LNS 1,2	220	Lines	-	-	29,493	29,493	29,493	29,493	12,018,447	-	-	2,262,700	6,476,819	2,971,326	-	-	38,262
4157	RIO HONDO-VINCENT NO. 2 220/500	220	Lines	-	-	48,182	48,182	48,182	48,182	105,605	18,610	-	272,702,442	22,286,539	73,746,389	-	-	634,573
4158	LUCERNE-LUGO/MIRA LOMA LN	500	Lines	-	-	1,000	1,000	1,000	1,000	498,252	-	-	-	-	-	-	-	-
4166	BIG CRK 2-BIG CRK 8	220	Lines	-	-	9,027	9,027	9,027	9,027	9,034	-	-	164,051	-	136,431	-	-	-
4168	BIG CRK 3-MAMMOTH POOL	220	Lines	-	-	6,504	-	6,504	-	4,331	523,515	-	262,365	-	526,631	-	-	37,890
4169	BIG CRK 1-RECTOR, OTHER	220	Lines	-	-	372,223	362,805	372,223	362,805	11,882,221	692,660	2,701	18,747,660	20,167,272	91,454,655	-	-	2,843,293
4185	DEVERS-PALO VERDE	500	Lines	-	-	243,100	243,100	243,100	243,100	14,776,950	36,143	-	294,481,783	2,866,726	138,418,320	-	1,151,660	467,228
4186	DEVERS-PALO VERDE	500	Lines	-	-	112,046	112,046	112,046	112,046	1,193,710	-	-	22,930,180	-	24,561,685	-	-	147,245

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Transmission Line Study Results  
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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	357	358	359
4759	BLYTHE-EAGLE MT 161 KV LN	161	Lines	-	-	52.892	52.892	52.892	52.892	33,310	-	-	-	2,770,000	331,263	-	-	4,845
4781	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	20.998	20.623	20.998	20.623	1,277	-	-	98,307	43,204	94,968	-	-	1,376
4782	HOOVER-CLWTR 115 KV LN	115	Lines	-	-	72.737	72.737	72.737	72.737	165,196	-	-	327,795	1,784,467	811,371	-	-	21,669
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	1,543,933	711,670	559,885	1,832,205	1,226,842	3,783,979	6,890,890	-
4647	PARDEE-VINCENT 220KV LN 2	220	Lines	-	-	-	-	-	-	-	7,378	-	-	-	-	-	-	-
4900	NORTHEASTERN T/S DIV.	66	Lines	-	-	-	-	-	-	-	-	-	-	1,551,239	205,618	-	-	-
4106	COGEN/RENEW ENGY SOURCES	115	Lines	-	-	20.502	-	20.502	-	195,086	-	-	92	6,652,230	2,064,459	336,169	1,311,526	242,635
4106	COGEN/RENEW ENGY SOURCES	66	Lines	5,692	-	32.985	-	38.677	-	368,035	-	-	174	12,549,640	3,894,666	634,194	2,474,235	457,738
4118	MRA LMA-VLL PK LNS, OTHR	220	Lines	-	-	155.754	132.050	155.754	132.050	5,473,685	821,015	2,204	20,466,947	506,655	14,547,774	-	-	175,735
4118	MRA LMA-VLL PK LNS, OTHR	66	Lines	-	-	3.921	-	3.921	-	137,779	20,666	55	515,177	12,753	366,185	-	-	4,423
4135	LUGO-VICTOR LNS, OTHER	220	Lines	-	-	206.145	117.410	206.145	117.410	1,778,456	110,669	-	9,776,277	1,297,014	7,144,267	-	-	102,879
4135	LUGO-VICTOR LNS, OTHER	115	Lines	-	-	49.476	49.476	49.476	49.476	426,836	26,561	-	2,346,345	311,288	1,714,652	-	-	24,691
4735	BISHOP CRK55&115KV LINES	115	Lines	-	-	4.459	-	4.459	-	(4)	173,673	-	4,010	306,994	63,159	-	-	4,905
4735	BISHOP CRK55&115KV LINES	55	Lines	-	-	8.525	-	8.525	-	(7)	332,058	-	7,667	586,963	120,758	-	-	9,379
4750	115 KV LNS, ESTN T/S REG	115	Lines	13.887	0.220	1,631.417	464.565	1,645.304	464.785	16,183,724	283,192	5,908,387	6,022,690	214,594,834	58,583,609	4,457,784	14,201,251	1,827,056
4750	115 KV LNS, ESTN T/S REG	66/55/33	Lines	-	-	15.718	-	15.718	-	154,604	2,705	56,443	57,535	2,050,039	559,653	42,586	135,666	17,454
4705	CORONA-JEFFERSON 66 KV LN	55	Lines	-	-	83.572	60.076	83.572	60.076	192,304	1,669,233	-	-	16,863,820	2,077,374	-	-	28,345
4705	CORONA-JEFFERSON 66 KV LN	66	Lines	0.219	-	21.906	-	22.125	-	50,911	441,917	-	-	4,464,574	549,970	-	-	7,504
2236	BIG CREEK NO.4	220	100% Subs	Allocated according to substation percentage						-	-	41,031	4,684,168	-	-	-	-	-
2570	INVO	220	100% Subs	Allocated according to substation percentage						-	-	355,696	4,197,276	-	-	-	-	-
5001	METRO GOM MAINT	500	100% Subs	Allocated according to substation percentage						-	-	-	43,887,958	-	-	-	-	-
5019	HARBORGEN SUB	220	100% Subs	Allocated according to substation percentage						-	-	57,517	3,991,930	-	-	-	-	-
5026	EL SEGUNDO SWITCHRACK SUB	220	100% Subs	Allocated according to substation percentage						12,470	1,607,338	8,793,630	-	-	-	-	-	-
5032	MIDWAY SUB	500	100% Subs	Allocated according to substation percentage						-	-	436,544	12,623,560	-	-	-	-	-
5036	PASTORIA SUB	220	100% Subs	Allocated according to substation percentage						21,435	1,649,212	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						-	-	3,480,107	8,564,850	-	-	-	-	-
5047	RANCHO VISTA SUB	500	100% Subs	Allocated according to substation percentage						1,844,367	24,632,921	154,029,327	-	-	-	-	-	-
054 & 895-Vincent		500	100% Subs	Allocated according to substation percentage						17,324,279	27,937,962	224,229,940	-	-	-	-	-	-
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	33,795,337	147,003,119	-	-	-	-	-	-
5065	PISGAH SUB	220	100% Subs	Allocated according to substation percentage						-	-	642,203	4,723,155	-	-	-	-	-
5089	LEWIS SUB	220	100% Subs	Allocated according to substation percentage						1,444	304,525	5,304,867	-	-	-	-	-	-
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						-	-	870,601	8,323,790	-	-	-	-	-
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						-	-	36,321,463	193,792,725	-	-	-	-	-
8084	HIGHWIND SUB	220	100% Subs	Allocated according to substation percentage						-	-	6,954,761	4,051,390	-	-	-	-	-
8367	COLORADO RIVER SUB	500	100% Subs	Allocated according to substation percentage						-	-	39,980,529	139,440,169	-	-	-	-	-
8372	PRIMM SUBSTATION	220	100% Subs	Allocated according to substation percentage						-	-	11,940,236	19,299,655	-	-	-	-	-
8960	WEST TRANSITION	500	100% Subs	Allocated according to substation percentage						-	-	16,473,171	14,471,055	-	-	-	-	-
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						9,939,315	45,883	-	-	-	-	-	-	-
5090	EL DORADO SUB(NEVADA)	500	100% Subs	Allocated according to substation percentage						13,183	38,963,605	192,388,361	-	-	-	-	-	94,492
5080	SERRANO SUB	500	100% Subs	Allocated according to substation percentage						1,226,475	28,732,890	219,845,718	-	-	-	-	-	2,236,590
5093	WEST SERIES CAPACITORS	500	100% Subs	Allocated according to substation percentage						-	-	1,797,455	45,885,867	-	-	-	-	-
8958	SYLMAR-PAC INTERTIE	220	100% Subs	Allocated according to substation percentage						51,663	7,758,498	120,849,951	2,505,376	-	359,913	-	-	-
5010	T.M. GOODRICH SUB-PASADEN	220	100% Subs	Allocated according to substation percentage						-	-	657,550	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						-	-	13,078,567	33,242,573	-	-	-	-	-
8369	RED BLUFF SUB	500	100% Subs	Allocated according to substation percentage						-	-	93,437,173	114,635,014	-	-	-	-	-
8375	CALCITE SUBSTATION 220 kv	220	100% Subs	Allocated according to substation percentage						-	-	-	14,699	-	-	-	-	-
TERNALOR	INTERNAL ORDER	Mis	0% Subs	Allocated according to substation percentage						-	-	-	1,868	-	-	-	-	-
1451	EDISON ITAC	Mis	0% Subs	Allocated according to substation percentage						-	-	-	35,855	-	-	-	-	-
2150	MAMMOTH POOL LAKE-FP 2085	220	0% Subs	Allocated according to substation percentage						-	-	-	24,016	-	-	-	-	-
2202	BIG CREEK CANYON	220	0% Subs	Allocated according to substation percentage						-	-	-	1,641,022	-	-	-	-	-
2237	PORTAL POWER PLANT	33	0% Subs	Allocated according to substation percentage						-	-	-	68,246	-	-	-	-	-
2238	MAMMOTH POOL	220	0% Subs	Allocated according to substation percentage						-	-	-	4,111,894	-	-	-	-	-
2239	EASTWOOD POWER STATION	33	0% Subs	Allocated according to substation percentage						-	-	627,754	4,940,311	-	-	-	-	-
2300	HYDRO PRODUCTION	Mis	0% Subs	Allocated according to substation percentage						-	-	-	10,367	-	-	-	-	-
2301	SNTA ANA RV&MILL CRK CNYN	33	0% Subs	Allocated according to substation percentage						-	-	-	421,924	-	-	-	-	-
2303	LYTLE CRK&SN ANTONIO CNYN	33	0% Subs	Allocated according to substation percentage						-	-	-	140,226	-	-	-	-	-
2305	KERN RIVER CANYON	66	0% Subs	Allocated according to substation percentage						-	-	-	692,140	-	-	-	-	-
2307	KAWEAH RIVER CANYON	66	0% Subs	Allocated according to substation percentage						-	-	-	572,929	-	-	-	-	-
2309	SAN GORGONIO CANYON	33	0% Subs	Allocated according to substation percentage						-	-	-	193,975	-	-	-	-	-
2313	KERN RIVER NO.1	66	0% Subs	Allocated according to substation percentage						-	-	4,184	589,036	-	-	-	-	-
2314	BOREL	66	0% Subs	Allocated according to substation percentage						-	-	1,383	259,591	-	-	-	-	-
2315	SANTA ANA NO.1	33	0% Subs	Allocated according to substation percentage						-	-	-	36,406	-	-	-	-	-
2317	SANTA ANA NO.3	33	0% Subs	Allocated according to substation percentage						-	-	-	14,930	-	-	-	-	-
2318	MILL CREEK NO.1	33	0% Subs	Allocated according to substation percentage						-	-	-	7,316	-	-	-	-	-
2319	MILL CREEK NO.2&3	33	0% Subs	Allocated according to substation percentage						1,464	-	-	52,080	-	-	-	-	-
2324	KAWEAH NO.1	66	0% Subs	Allocated according to substation percentage						-	-	-	48,507	-	-	-	-	-
2325	KAWEAH NO.2	66	0% Subs	Allocated according to substation percentage						-	-	2,694	49,126	-	-	-	-	-
2326	KAWEAH NO.3	66	0% Subs	Allocated according to substation percentage						-	-	-	57,269	-	-	-	-	-
2327	LOWER TULE RIVER	66	0% Subs	Allocated according to substation percentage						-	-	-	50,834	-	-	-	-	-
2328	KERN RIVER NO.3	66	0% Subs	Allocated according to substation percentage						-	-	-	460,723	-	-	-	-	-
2331	ONTARIO NO.1	66	0% Subs	Allocated according to substation percentage						-	-	-	205,914	-	-	-	-	-



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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	357	358	359
2500	EASTERN HYDRO REGION	55	0% Subs	Allocated according to substation percentage						-	7,254	-	-	-	-	-	-	-
2501	BISHOP CREEK CANYON	33	0% Subs	Allocated according to substation percentage						-	-	705,804	-	-	-	-	-	-
2503	MONO BASIN	115	0% Subs	Allocated according to substation percentage						-	-	196,344	-	-	-	-	-	-
560 & 251	Lundy	55	0% Subs	Allocated according to substation percentage						-	317,627	5,816,830	-	-	-	-	-	-
	2512 POOLE	33	0% Subs	Allocated according to substation percentage						-	-	120,052	-	-	-	-	-	-
	2514 RUSH CREEK	115	0% Subs	Allocated according to substation percentage						-	-	175,912	-	-	-	-	-	-
	2522 BISHOP CREEK NO.2	55	0% Subs	Allocated according to substation percentage						-	-	80,487	-	-	-	-	-	-
2523	BISHOP CREEK NO.3	33	0% Subs	Allocated according to substation percentage						-	-	1,847,927	-	-	-	-	-	-
2524	BISHOP CREEK NO.4	33	0% Subs	Allocated according to substation percentage						-	-	86,641	-	-	-	-	-	-
2525	BISHOP CREEK NO.5	33	0% Subs	Allocated according to substation percentage						-	-	43,037	-	-	-	-	-	-
2526	BISHOP CREEK NO.6	33	0% Subs	Allocated according to substation percentage						-	-	39,098	-	-	-	-	-	-
2553	FISH LAKE VALLEY METERING	55	0% Subs	Allocated according to substation percentage						-	1,343	12,150	-	-	-	-	-	-
2557	CASA DIABLO	115	0% Subs	Allocated according to substation percentage						2,119	381,195	8,337,395	-	-	-	-	-	-
2561	LEE VINING	115	0% Subs	Allocated according to substation percentage						344	262,259	2,302,338	-	-	-	-	-	-
2571	SHERWIN	115	0% Subs	Allocated according to substation percentage						-	100,772	1,194,781	-	-	-	-	-	-
2582	ZACK	55	0% Subs	Allocated according to substation percentage						400,881	-	655,406	-	-	-	-	-	-
2598	MT. TOM	55	0% Subs	Allocated according to substation percentage						-	-	(230)	-	-	-	-	-	-
3717	DAF INDAL 500KW WND TURBN	33	0% Subs	Allocated according to substation percentage						714	-	-	-	-	-	-	-	-
5016	LEBEC SUBSTATION	220	0% Subs	Allocated according to substation percentage						-	-	15,138	-	-	-	-	-	-
5022	ARCOGEN SUB	220	0% Subs	Allocated according to substation percentage						-	-	963,824	-	-	-	-	-	-
5046	CLWTR SWITCHCRACK 3,4 SUB	220	0% Subs	Allocated according to substation percentage						48,136	156,227	3,179,929	-	-	-	-	-	-
5048	MANDALAY SWITCHCRACK SUB	220	0% Subs	Allocated according to substation percentage						49,104	67,252	2,575,916	-	-	-	-	-	-
5049	ORMOND BCH SWITCHCRACK SUB	220	0% Subs	Allocated according to substation percentage						158,170	34,483	5,924,405	-	-	-	-	-	-
5051	SAUGUS SUB	220	0% Subs	Allocated according to substation percentage						13,373	5,495,854	77,677,134	-	-	-	-	-	-
5066	GENE SUB	220	0% Subs	Allocated according to substation percentage						-	34,539	2,064,623	-	-	-	-	-	-
5068	CAMINO SUB	220	0% Subs	Allocated according to substation percentage						-	12,697	4,256,457	-	-	-	-	-	-
5072	VELASCO SUB	220	0% Subs	Allocated according to substation percentage						-	-	155,442	-	-	-	-	-	-
5078	HUNTINGTON BCH SWITCHCRCK	220	0% Subs	Allocated according to substation percentage						21,660	262,196	4,891,312	-	-	-	-	-	-
5095	TRITON SUB	115	0% Subs	Allocated according to substation percentage						2,415,092	2,377,770	26,471,314	-	-	-	-	-	-
5101	ALHAMBRA SUB	66	0% Subs	Allocated according to substation percentage						-	83,447	2,771,763	-	-	-	-	-	-
5107	BANDINI SUB	66	0% Subs	Allocated according to substation percentage						4,583	16,136	-	-	-	-	-	-	-
5109	BICKNELL SUB	33	0% Subs	Allocated according to substation percentage						-	-	2,451	-	-	-	-	-	-
5112	THUMSGEN SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	2,049	-	-	-	-	-	-
5116	RUSH SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5141	ROSEMEAD SUB	66	0% Subs	Allocated according to substation percentage						-	38,757	22	-	-	-	-	-	-
5158	ARROYO SUB	66	0% Subs	Allocated according to substation percentage						-	-	123	-	-	-	-	-	-
5161	AMADOR SUB	66	0% Subs	Allocated according to substation percentage						-	-	(47,687)	-	-	-	-	-	-
5162	FAIR OAKS SUB	33	0% Subs	Allocated according to substation percentage						-	-	17,195	-	-	-	-	-	-
5165	JPL SUB	66	0% Subs	Allocated according to substation percentage						-	-	3,666	-	-	-	-	-	-
5167	MAYFLOWER SUB	33	0% Subs	Allocated according to substation percentage						-	-	91,972	-	-	-	-	-	-
5170	TEMPLE SUB	33	0% Subs	Allocated according to substation percentage						-	-	17,367	-	-	-	-	-	-
5178	KIRK WALL SUBSTATION	66	0% Subs	Allocated according to substation percentage						3,995	-	-	-	-	-	-	-	-
5179	RAVENDALE SUB	66	0% Subs	Allocated according to substation percentage						-	154,829	-	-	-	-	-	-	-
5185	CITRUS SUB	66	0% Subs	Allocated according to substation percentage						-	-	37,984	-	-	-	-	-	-
5186	CORTEZ SUB	66	0% Subs	Allocated according to substation percentage						-	16,955	31,589	-	-	-	-	-	-
5196	RAILROAD SUB	66	0% Subs	Allocated according to substation percentage						-	57,470	-	-	-	-	-	-	-
5198	ALHAMBRA DIST SUB TRG FAC	66	0% Subs	Allocated according to substation percentage						-	25,705	2,046,562	-	-	-	-	-	-
5204	CULVER CITY SUB	66	0% Subs	Allocated according to substation percentage						-	61,263	-	-	-	-	-	-	-
5207	SEPULVEDA SUB	66	0% Subs	Allocated according to substation percentage						-	41,604	-	-	-	-	-	-	-
5211	INGLEWOOD SUB	66	0% Subs	Allocated according to substation percentage						-	29,751	-	-	-	-	-	-	-
5213	LENNOX SUB	66	0% Subs	Allocated according to substation percentage						-	14,957	17,794	-	-	-	-	-	-
5224	PEARL SUB	33	0% Subs	Allocated according to substation percentage						-	14,955	-	-	-	-	-	-	-
5235	WINDSOR HILLS SUB	66	0% Subs	Allocated according to substation percentage						-	58,264	17,508	-	-	-	-	-	-
5236	VALDEZ SUB	66	0% Subs	Allocated according to substation percentage						-	-	24,710	-	-	-	-	-	-
5238	LAWNDALE SUB	33	0% Subs	Allocated according to substation percentage						-	44,342	-	-	-	-	-	-	-
5241	YUKON SUB	66	0% Subs	Allocated according to substation percentage						4,415	-	-	-	-	-	-	-	-
5250	SAWTELLE SUB	66	0% Subs	Allocated according to substation percentage						-	70,183	-	-	-	-	-	-	-
5257	BRIDGE SUB	66	0% Subs	Allocated according to substation percentage						-	14,957	-	-	-	-	-	-	-
5259	STIRRUP SUB	33	0% Subs	Allocated according to substation percentage						-	14,955	-	-	-	-	-	-	-
5273	STANHILL SUB	66	0% Subs	Allocated according to substation percentage						-	-	0	-	-	-	-	-	-
5315	LAUREL SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5325	STRATHMORE SUB	66	0% Subs	Allocated according to substation percentage						-	-	14,882	-	-	-	-	-	-
5333	WOODVILLE SUB	66	0% Subs	Allocated according to substation percentage						-	15,418	74,641	-	-	-	-	-	-
5352	LINE CREEK SUB	33	0% Subs	Allocated according to substation percentage						-	-	31,030	-	-	-	-	-	-
5357	CUMMINGS SUB	66	0% Subs	Allocated according to substation percentage						-	-	111,576	-	-	-	-	-	-
5358	MONOLITH SUB	66	0% Subs	Allocated according to substation percentage						-	234	1,261,397	-	-	-	-	-	-
5365	ACTON SUB	66	0% Subs	Allocated according to substation percentage						24,167	-	15,397	-	-	-	-	-	-
5374	RIVERWAY SUB	66	0% Subs	Allocated according to substation percentage						801,825	-	-	-	-	-	-	-	-
5375	MASCOT SUBSTATION	66	0% Subs	Allocated according to substation percentage						573,588	-	-	-	-	-	-	-	-
5504	CASITAS SUB	66	0% Subs	Allocated according to substation percentage						-	-	(251)	-	-	-	-	-	-
5506	CHANNEL ISLANDS SUB	66	0% Subs	Allocated according to substation percentage						-	116,483	-	-	-	-	-	-	-
5507	ORTEGA SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5508	DEL SUR SUB	66	0% Subs	Allocated according to substation percentage						-	-	424,747	-	-	-	-	-	-
5510	FILLMORE SUB	66	0% Subs	Allocated according to substation percentage						-	5,566	-	-	-	-	-	-	-
5511	GOLDTOWN SUB	66	0% Subs	Allocated according to substation percentage						-	-	526,259	-	-	-	-	-	-
5514	LANCASTER SUB	66	0% Subs	Allocated according to substation percentage						-	-	1,071,949	-	-	-	-	-	-
5518	LITTLE ROCK SUB	66	0% Subs	Allocated according to substation percentage						-	-	1,690,353	-	-	-	-	-	-
5522	SHUTTLE SUB	66	0% Subs	Allocated according to substation percentage						-	-	911,750	-	-	-	-	-	-
5526	OJAI SUB	66	0% Subs	Allocated according to substation percentage						-	13,050	-	-	-	-	-	-	-
5530	REDMAN WUB	66	0% Subs	Allocated according to substation percentage						-	89,829	275,391	-	-	-	-	-	-
5531	SANTA BARBARA SUB	66	0% Subs	Allocated according to substation percentage						-	40,153	-	-	-	-	-	-	-
5538	VENTURA SUB	33	0% Subs	Allocated according to substation percentage						-	52,161	-	-	-	-	-	-	-
5539	ANAVERDE SUB	66	0% Subs	Allocated according to substation percentage						-	-	76,359	-	-	-	-	-	-

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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	357	358	359
5541	ROSAMOND SUB	66	0% Subs	Allocated according to substation percentage						-	66,626	658,870	-	-	-	-	-	-
5545	PIUTE SUB	66	0% Subs	Allocated according to substation percentage						-	11,023	149,257	-	-	-	-	-	-
5546	ELIZABETH LAKE SUB	66	0% Subs	Allocated according to substation percentage						-	-	3,072	-	-	-	-	-	-
5547	CORUM SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5548	OASIS SUB	66	0% Subs	Allocated according to substation percentage						-	-	397,008	-	-	-	-	-	-
5553	CAL CEMENT SUB	66	0% Subs	Allocated according to substation percentage						-	15,551	367,757	-	-	-	-	-	-
5557	NEWBURY SUB	66	0% Subs	Allocated according to substation percentage						-	-	692,110	-	-	-	-	-	-
5562	GRISWOLD SUB	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5564	PALMDALE SUB	66	0% Subs	Allocated according to substation percentage						-	-	603,424	-	-	-	-	-	-
5566	QUARTZ HILL SUB	66	0% Subs	Allocated according to substation percentage						-	11,023	220,467	-	-	-	-	-	-
5599	HELIJET SUB	66	0% Subs	Allocated according to substation percentage						-	-	499,396	-	-	-	-	-	-
5601	RANDALL SUB	66	0% Subs	Allocated according to substation percentage						-	20,403	56,150	-	-	-	-	-	-
5606	ORANGE PRODUCTS SUB	66	0% Subs	Allocated according to substation percentage						-	13,596	-	-	-	-	-	-	-
5612	INLAND CONTAINER SUB	66	0% Subs	Allocated according to substation percentage						-	20,750	-	-	-	-	-	-	-
5615	DECLZ SUB	66	0% Subs	Allocated according to substation percentage						-	-	23,032	-	-	-	-	-	-
5631	SAN ANTONIO SUB	66	0% Subs	Allocated according to substation percentage						-	-	7,606	-	-	-	-	-	-
5646	COLTON CEMENT SUB	66	0% Subs	Allocated according to substation percentage						-	43,167	-	-	-	-	-	-	-
5652	AMERON SUB	66	0% Subs	Allocated according to substation percentage						-	-	531,131	-	-	-	-	-	-
5655	NOGALES SUB	66	0% Subs	Allocated according to substation percentage						-	16,835	525,170	-	-	-	-	-	-
5659	ARCHIBALD SUB	66	0% Subs	Allocated according to substation percentage						-	-	206,393	-	-	-	-	-	-
5664	WIMBLEDON SUB	66	0% Subs	Allocated according to substation percentage						-	1,282	17,343	-	-	-	-	-	-
5670	DEL ROSA SUB	66	0% Subs	Allocated according to substation percentage						-	-	17,327	-	-	-	-	-	-
5674	WHIPPLE SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5678	LANDING SUB	66	0% Subs	Allocated according to substation percentage						-	14,661	-	-	-	-	-	-	-
5740	NAPLES SUBSTATION	33	0% Subs	Allocated according to substation percentage						-	-	114,340	-	-	-	-	-	-
5758	WATSON SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	3,790	-	-	-	-	-	-
5787	SOUTH GATE SUBSTATION	33	0% Subs	Allocated according to substation percentage						-	-	17,255	-	-	-	-	-	-
5788	BOVINE SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5798	MOVIE SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	1,963	17,658	-	-	-	-	-	-
5811	CHIUITA SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	58,207	-	-	-	-	-	-
5814	CARMENITA SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	14,314	146,427	-	-	-	-	-	-
5816	PARKWOOD SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	93,280	-	-	-	-	-	-	-
5828	WAVE SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5842	OCEANVIEW SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	58,101	-	-	-	-	-	-
5843	ORANGE SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	32,493	-	-	-	-	-	-	-
5849	SANTA ANA SUBSTATION	33	0% Subs	Allocated according to substation percentage						-	6,882	-	-	-	-	-	-	-
5853	TALBERT SUB	66	0% Subs	Allocated according to substation percentage						-	-	24,273	-	-	-	-	-	-
5860	ALTON SUBSTATION	66	0% Subs	Allocated according to substation percentage						241,262	-	-	-	-	-	-	-	-
5862	SULLIVAN SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	230,879	-	-	-	-	-	-
5865	ESTRELLA SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	41,148	-	-	-	-	-	-
5869	SHAWNEE SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	17,289	-	-	-	-	-	-
5878	TUSTIN SUBSTATION	66	0% Subs	Allocated according to substation percentage						11,308	-	-	-	-	-	-	-	-
5892	TELEGRAPH SUB	66	0% Subs	Allocated according to substation percentage						-	12,346	96,987	-	-	-	-	-	-
5896	NIGUEL SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	21,384	-	-	-	-	-	-
5902	LAS LOMAS SUB	66	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	826,875	8,439,721	-	-	-	-	-	-
8004	THORNHILL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						25,609	996,193	9,072,007	-	-	-	-	-	-
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						-	6,877	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	10,378,032	-	-	-	-	-	-
8014	BUNKER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						969,397	1,536,772	15,123,607	-	-	-	-	-	-
8016	FARREL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	700,622	13,410,336	-	-	-	-	-	-
8017	CONCHO(CEP) SUB	115	0% Subs	Allocated according to substation percentage						285,201	672,863	9,621,617	-	-	-	-	-	-
8018	AULD(CEP) SUB	115	0% Subs	Allocated according to substation percentage						83,538	1,206,444	19,303,972	-	-	-	-	-	-
8019	MAXWELL(CEP) SUB	115	0% Subs	Allocated according to substation percentage						33,940	519,357	11,126,654	-	-	-	-	-	-
8020	SAVAGE(CEP) SUB	115	0% Subs	Allocated according to substation percentage						29,280	1,477,177	15,638,494	-	-	-	-	-	-
8021	PEPPER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						17,579	509,658	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						-	41,871	912,016	-	-	-	-	-	-
8024	ALESSANDRO(CEP) SUB	115	0% Subs	Allocated according to substation percentage						45,514	2,735,102	24,654,378	-	-	-	-	-	-
8025	BAKER(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	211,976	2,735,419	-	-	-	-	-	-
8026	BANNING(CEP) SUB	115	0% Subs	Allocated according to substation percentage						20,210	1,583,910	16,216,180	-	-	-	-	-	-
8027	COTTONWOOD(CEP) SUB	115	0% Subs	Allocated according to substation percentage						22,426	1,796,115	11,561,373	-	-	-	-	-	-
8028	EDWARDS(CEP) SUB	115	0% Subs	Allocated according to substation percentage						-	53,166	2,862,027	-	-	-	-	-	-
8029	HI DESERT(CEP) SUB	115	0% Subs	Allocated according to substation percentage						1,154,541	1,722,650	19,852,862	-	-	-	-	-	-
8030	MOUNTAIN PASS(CEP) SUB	115	0% Subs	Allocated according to substation percentage						70,286	26,524	4,428,355	-	-	-	-	-	-
8031	RANDBURG(CEP) SUB	115	0% Subs	Allocated according to substation percentage						116	366,345	6,016,279	-	-	-	-	-	-
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						-	382,872	6,189,822	-	-	-	-	-	-
8035	ZANJA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						152,559	1,694,672	9,593,911	-	-	-	-	-	-
8036	SANTA ROSA(CEP) SUB	115	0% Subs	Allocated according to substation percentage						44,689	464,929	21,047,985	-	-	-	-	-	-
8038	NELSON(CEP) SUB	115	0% Subs	Allocated according to substation percentage						22,819	959,669	14,313,822	-	-	-	-	-	-
8039	HOMART(CEP) SUB	115	0% Subs	Allocated according to substation percentage						174,875	425,577	5,350,954	-	-	-	-	-	-
8041	HOLGATE(CEP) SUB	115	0% Subs	Allocated according to substation percentage						27,167	405,785	3,246,975	-	-	-	-	-	-
8042	CALECTRIC SUB (CEP)	115	0% Subs	Allocated according to substation percentage						27,870	2,639,595	23,030,050	-	-	-	-	-	-
8044	GARNET SUB	115	0% Subs	Allocated according to substation percentage						37,635	1,730,514	13,195,525	-	-	-	-	-	-
8045	ID 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	7,784,555	-	-	-	-	-	-
8055	SN ONOFRE SWTHRK-100%SC	220	0% Subs	Allocated according to substation percentage						-	1,714,048	10,597,926	-	-	-	-	-	-

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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	357	358	359
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	1,135,771	10,012,208	-	-	-	-	-	-
8074	COOL WATER SWITCHRACK 1,2	220	0% Subs	Allocated according to substation percentage						-	61,762	1,925,128	-	-	-	-	-	-
8075	HIGHGROVE SWITCHRCK	115	0% Subs	Allocated according to substation percentage						7,139	178,624	1,813,749	-	-	-	-	-	-
8079	AQUEDUCT SUB	115	0% Subs	Allocated according to substation percentage						2,880	925,853	10,588,899	-	-	-	-	-	-
8082	MENTONE SUB	115	0% Subs	Allocated according to substation percentage						161,883	788,697	7,475,340	-	-	-	-	-	-
8086	CAJALCO SUB	115	0% Subs	Allocated according to substation percentage						25,836	949,561	11,430,266	-	-	-	-	-	-
8087	HESPERIA SUB	115	0% Subs	Allocated according to substation percentage						22,150	398,233	7,936,920	-	-	-	-	-	-
8088	SKYLARK SUB	115	0% Subs	Allocated according to substation percentage						81,206	2,808,006	10,694,985	-	-	-	-	-	-
8089	MAYBERRY SUB	115	0% Subs	Allocated according to substation percentage						23,090	469,331	16,900,702	-	-	-	-	-	-
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	742,146	11,371,613	-	-	-	-	-	-
8094	ARROWHEAD SUB	115	0% Subs	Allocated according to substation percentage						-	509,864	5,994,472	-	-	-	-	-	-
8095	STETSON SUB	115	0% Subs	Allocated according to substation percentage						23,493	738,257	9,463,176	-	-	-	-	-	-
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	13,059,461	-	-	-	-	-	-
8102	AMARGO SUB	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
8104	FARRELL SUB	115	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
8110	BARSTOW SUB	33	0% Subs	Allocated according to substation percentage						-	6,894	59,447	-	-	-	-	-	-
8113	BLTYHE SUB	33	0% Subs	Allocated according to substation percentage						-	22,511	440,016	-	-	-	-	-	-
8117	BRYMAN SUB	33	0% Subs	Allocated according to substation percentage						-	-	7,083	-	-	-	-	-	-
8120	MILITARY SUB	33	0% Subs	Allocated according to substation percentage						-	15,598	-	-	-	-	-	-	-
8132	CAL CITY SUB	33	0% Subs	Allocated according to substation percentage						-	6,894	-	-	-	-	-	-	-
8137	DOWNS SUB	115	0% Subs	Allocated according to substation percentage						82,401	5,774,614	17,032,877	-	-	-	-	-	-
8152	GLEN IVY SUB	33	0% Subs	Allocated according to substation percentage						-	15,642	27,225	-	-	-	-	-	-
8163	HELENDAL SUB	33	0% Subs	Allocated according to substation percentage						-	15,110	81,054	-	-	-	-	-	-
8179	Lakeview	115	0% Subs	Allocated according to substation percentage						1,488,635	-	-	-	-	-	-	-	-
8182	BOTTLE SUB	115	0% Subs	Allocated according to substation percentage						-	173,227	1,283,195	-	-	-	-	-	-
8190	MINNEOLA SUB	33	0% Subs	Allocated according to substation percentage						-	-	5,725	-	-	-	-	-	-
8193	MORENO SUB	115	0% Subs	Allocated according to substation percentage						104,923	786,407	4,860,139	-	-	-	-	-	-
8195	MURRIETA 2 SUB	33	0% Subs	Allocated according to substation percentage						-	20,720	21,911	-	-	-	-	-	-
8197	SOUTHCAP SUB.	115	0% Subs	Allocated according to substation percentage						-	-	942,250	-	-	-	-	-	-
8198	MUSCOY SUB	33	0% Subs	Allocated according to substation percentage						-	-	132,416	-	-	-	-	-	-
8204	BELDING SUB	33	0% Subs	Allocated according to substation percentage						-	48,986	-	-	-	-	-	-	-
8212	ORO GRANDE SUB	33	0% Subs	Allocated according to substation percentage						-	-	7,994	-	-	-	-	-	-
8214	PALM CANYON SUB	33	0% Subs	Allocated according to substation percentage						-	60,590	-	-	-	-	-	-	-
8220	LUCERNE SUB	33	0% Subs	Allocated according to substation percentage						-	13,167	-	-	-	-	-	-	-
8222	RANCHO SUB	33	0% Subs	Allocated according to substation percentage						-	6,894	2,107	-	-	-	-	-	-
8225	RIALTO SUB	33	0% Subs	Allocated according to substation percentage						-	17,716	30,776	-	-	-	-	-	-
8226	RIDGECREST SUB	33	0% Subs	Allocated according to substation percentage						-	-	17,438	-	-	-	-	-	-
8234	SAN JACINTO SUB	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
8250	TEMESCAL SUB	33	0% Subs	Allocated according to substation percentage						-	-	4,236	-	-	-	-	-	-
8260	VICTORVILLE SUB	33	0% Subs	Allocated according to substation percentage						-	18,135	22,159	-	-	-	-	-	-
8267	WILDE SUB	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
8268	YERMO SUB	33	0% Subs	Allocated according to substation percentage						-	23,195	-	-	-	-	-	-	-
8270	TENAJA SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	-	21,919	-	-	-	-	-	-
8273	IRON MT SCE	33	0% Subs	Allocated according to substation percentage						-	8,651	-	-	-	-	-	-	-
8283	GALE SUB	115	0% Subs	Allocated according to substation percentage						-	533,657	5,301,395	-	-	-	-	-	-
8294	GOLD HILL SUB	33	0% Subs	Allocated according to substation percentage						-	6,894	-	-	-	-	-	-	-
8301	BUCKWIND	115	0% Subs	Allocated according to substation percentage						-	31,879	751,981	-	-	-	-	-	-
8302	CAPWIIND	115	0% Subs	Allocated according to substation percentage						-	29,827	389,546	-	-	-	-	-	-
8303	RENWIND	115	0% Subs	Allocated according to substation percentage						-	15,102	814,074	-	-	-	-	-	-
8304	SANWIND	115	0% Subs	Allocated according to substation percentage						-	-	371,041	-	-	-	-	-	-
8305	TRANSWIND	115	0% Subs	Allocated according to substation percentage						-	25,366	1,061,136	-	-	-	-	-	-
8306	VENWIND	115	0% Subs	Allocated according to substation percentage						-	21,039	2,287,437	-	-	-	-	-	-
8308	ALTWIND	115	0% Subs	Allocated according to substation percentage						-	1,022	25,028	-	-	-	-	-	-
8310	TERAWIND	115	0% Subs	Allocated according to substation percentage						-	5,398	226,460	-	-	-	-	-	-
8311	INDIGO SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	4,899	229,185	-	-	-	-	-	-
8312	CALGEN	115	0% Subs	Allocated according to substation percentage						532	1,600	12,970	-	-	-	-	-	-
8314	MCGEN	115	0% Subs	Allocated according to substation percentage						-	112,388	2,464,391	-	-	-	-	-	-
8320	SEGS II	115	0% Subs	Allocated according to substation percentage						-	-	45,594	-	-	-	-	-	-
8321	SEGS III	115	0% Subs	Allocated according to substation percentage						-	-	11,755	-	-	-	-	-	-
8322	SEGS IV	115	0% Subs	Allocated according to substation percentage						-	-	41,025	-	-	-	-	-	-
8323	SEGS V	115	0% Subs	Allocated according to substation percentage						-	-	8,814	-	-	-	-	-	-
8324	SEGS VI	115	0% Subs	Allocated according to substation percentage						-	-	39,130	-	-	-	-	-	-
8325	SEGS VII	115	0% Subs	Allocated according to substation percentage						-	-	119,704	-	-	-	-	-	-
8326	SEGS VIII	220	0% Subs	Allocated according to substation percentage						-	-	83,150	-	-	-	-	-	-
8327	SEGS IX	220	0% Subs	Allocated according to substation percentage						-	-	74,085	-	-	-	-	-	-
8340	SOPORT	115	0% Subs	Allocated according to substation percentage						-	42,538	654,012	-	-	-	-	-	-
8342	NEWCUMB	115	0% Subs	Allocated according to substation percentage						51,172	1,223,085	11,719,267	-	-	-	-	-	-
8343	ELSNORE	115	0% Subs	Allocated according to substation percentage						20,961	1,458,980	17,580,999	-	-	-	-	-	-
8344	SOUTH BASE SUB	115	0% Subs	Allocated according to substation percentage						12,179	170,995	2,017,154	-	-	-	-	-	-
8345	INDIAN WELLS SUB	115	0% Subs	Allocated according to substation percentage						222,600	913,774	12,772,817	-	-	-	-	-	-
8346	FOGARTY SUB	115	0% Subs	Allocated according to substation percentage						-	4,398,452	16,236,483	-	-	-	-	-	-
8347	PECHANGA SUB	115	0% Subs	Allocated according to substation percentage						560,579	899,617	11,274,369	-	-	-	-	-	-
8351	TANKER SUBSTATION	115	0% Subs	Allocated according to substation percentage						120	4,440	696,181	-	-	-	-	-	-
8353	PLUESS SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	-	151,193	-	-	-	-	-	-
8354	AFG SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	78,655	1,082,686	-	-	-	-	-	-

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				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356	357	358	359
8357	RECTIFIER SUB	115	0% Subs	Allocated according to substation percentage						-	5,170	1,098,304	-	-	-	-	-	-
8359	MOUNTWIND SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	-	53,698	-	-	-	-	-	-
8361	COSO SUB	115	0% Subs	Allocated according to substation percentage						91,119	1,641,131	4,788,089	-	-	-	-	-	-
8362	MOVAL SUBSTATION	115	0% Subs	Allocated according to substation percentage						-	128,640	491,674	-	-	-	-	-	-
8504	RITTER SUB	66	0% Subs	Allocated according to substation percentage						942,487	-	-	-	-	-	-	-	-
8509	PHARMACY SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	43,289	-	-	-	-	-	-
8511	GLOW SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	128,972	-	-	-	-	-	-
8558	PLASTER SUBSTATION	66	0% Subs	Allocated according to substation percentage						4,671	-	-	-	-	-	-	-	-
8810	ONEIL SUBSTATION	66	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	Div	0% Subs	Allocated according to substation percentage						-	-	527,316	-	-	-	-	-	-
9047	TRANS/SUB SUPPORT SERV	Div	0% Subs	Allocated according to substation percentage						-	-	81,729,302	-	-	-	-	-	-
9287	REAL PROP-LAND SVCS-STHRN	Mis	0% Subs	Allocated according to substation percentage						-	12,869	-	-	-	-	-	-	-
9440	WESTMINSTER FENWICK BLDG	Div	0% Subs	Allocated according to substation percentage						-	8,929	-	-	-	-	-	-	-
9900	PLANT ACCTG-MISC. LEDGER	Div	0% Subs	Allocated according to substation percentage						631	-	-	-	-	-	-	-	-
5110	WABASH (NEW) SUB	66	0% Subs	Allocated according to substation percentage						-	24,360	-	-	-	-	-	-	-
5139	GENAMIC SUB	66	0% Subs	Allocated according to substation percentage						-	5,739	-	-	-	-	-	-	-
5164	REPETTO SUB	66	0% Subs	Allocated according to substation percentage						-	17,757	-	-	-	-	-	-	-
5215	MADRID SUB	33	0% Subs	Allocated according to substation percentage						-	575	-	-	-	-	-	-	-
5221	OCEAN PARK SUB	33	0% Subs	Allocated according to substation percentage						-	4,164	-	-	-	-	-	-	-
5226	BRIGHTON SUB	66	0% Subs	Allocated according to substation percentage						-	3,804	-	-	-	-	-	-	-
5229	MOBILOIL SUB	66	0% Subs	Allocated according to substation percentage						-	3,652	-	-	-	-	-	-	-
5239	CRATER SUB	66	0% Subs	Allocated according to substation percentage						-	-	9,057	-	-	-	-	-	-
5242	COLORADO SUB	66	0% Subs	Allocated according to substation percentage						-	40,181	-	-	-	-	-	-	-
5252	ROLLING HILLS SUB	66	0% Subs	Allocated according to substation percentage						-	27,085	-	-	-	-	-	-	-
5260	COLOSSUS SUB	66	0% Subs	Allocated according to substation percentage						-	-	7,141	-	-	-	-	-	-
5268	TOPAZ SUB	66	0% Subs	Allocated according to substation percentage						-	29,219	-	-	-	-	-	-	-
5271	TAHITI SUB	66	0% Subs	Allocated according to substation percentage						-	23,749	-	-	-	-	-	-	-
5275	MARYMOUNT SUB	66	0% Subs	Allocated according to substation percentage						-	4,862	-	-	-	-	-	-	-
5282	PALOGEN SUB	66	0% Subs	Allocated according to substation percentage						-	42,738	-	-	-	-	-	-	-
5302	BIG CREEK 2	33	0% Subs	Allocated according to substation percentage						-	-	595,356	-	-	-	-	-	-
5320	OCTOL SUB	66	0% Subs	Allocated according to substation percentage						-	13,523	-	-	-	-	-	-	-
5339	GREENHORN SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5410	FLOWIND SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5412	SILVER PEAK SUB	55	0% Subs	Allocated according to substation percentage						-	-	84,959	-	-	-	-	-	-
5520	MODOC SUB	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5576	NEWHALL SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5616	FLANCO SUB	33	0% Subs	Allocated according to substation percentage						-	22,342	-	-	-	-	-	-	-
5618	FIREHOUSE SUB	66	0% Subs	Allocated according to substation percentage						-	6,520	-	-	-	-	-	-	-
5621	HUSTON SUB	33	0% Subs	Allocated according to substation percentage						-	45,573	-	-	-	-	-	-	-
5626	PEDLEY SUB	66	0% Subs	Allocated according to substation percentage						-	22,868	-	-	-	-	-	-	-
5633	SAN DIMAS SUB	66	0% Subs	Allocated according to substation percentage						-	19,651	-	-	-	-	-	-	-
5645	LAYFAIR SUB	66	0% Subs	Allocated according to substation percentage						-	189,720	-	-	-	-	-	-	-
5650	LINDE AIR SUB	66	0% Subs	Allocated according to substation percentage						-	15,935	-	-	-	-	-	-	-
5654	REDUCTION SUB	66	0% Subs	Allocated according to substation percentage						-	34,835	-	-	-	-	-	-	-
5656	BAIN SUB	66	0% Subs	Allocated according to substation percentage						-	704	-	-	-	-	-	-	-
5658	PIPE SUB	66	0% Subs	Allocated according to substation percentage						-	32,989	-	-	-	-	-	-	-
5714	CUDAHY SUB	66	0% Subs	Allocated according to substation percentage						-	32,033	-	-	-	-	-	-	-
5754	SOMERSET SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	33,691	-	-	-	-	-	-	-
5766	DAISY SUBSTATION	33	0% Subs	Allocated according to substation percentage						-	12,646	-	-	-	-	-	-	-
5893	PASSONS SUB	66	0% Subs	Allocated according to substation percentage						-	3,215	-	-	-	-	-	-	-
1860	PALOVERDE NUCL 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						-	-	5,007,603	253,332	-	92,249	-	-	-
1867	PALOVERDE-COMMON 1,2,3	500	0% Subs	Allocated according to substation percentage						7,766	-	2,721,697	854,373	-	-	-	-	-
5832	LA HABRA SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	-	17,125	-	-	-	-	-	3,858
8078	SUN CITY(NEW)	115	0% Subs	Allocated according to substation percentage						119,513	1,886,034	8,376,608	-	-	-	203,176	-	-
8096	MARSCHINO SUB	115	0% Subs	Allocated according to substation percentage						27,809	1,611,970	9,317,291	-	-	-	36,281	-	-
8098	EISENHOWER SUB	115	0% Subs	Allocated according to substation percentage						189,886	812,071	12,227,184	-	-	-	3,254	1,043	-
8348	MORAGA	115	0% Subs	Allocated according to substation percentage						-	40,720	377,986	17,695,888	-	-	816	-	-
9310	TELCOMM-ALHAMBRA	Mis	0% Subs	Allocated according to substation percentage						327,844	-	-	-	(2,151)	-	-	-	-
6011	RIALTO COMB FAC. BLDG B&C	Div	0% Subs	Allocated according to substation percentage						-	2,770	-	-	-	-	-	-	-
8121	CANTIL SUB	33	0% Subs	Allocated according to substation percentage						-	57,897	7,293	-	-	-	-	-	-
8123	CATHEDRAL CITY SUB	33	0% Subs	Allocated according to substation percentage						-	9,939	-	-	-	-	-	-	-
8136	DESERT OUTPOST SUB	33	0% Subs	Allocated according to substation percentage						-	13,544	-	-	-	-	-	-	-
8159	EL SOBRANTE SUB	33	0% Subs	Allocated according to substation percentage						-	24,846	-	-	-	-	-	-	-
8161	HARVARD SUB	33	0% Subs	Allocated according to substation percentage						-	-	8,458	-	-	-	-	-	-
8170	INVOKERN TOWN SUB	33	0% Subs	Allocated according to substation percentage						-	-	7,735	-	-	-	-	-	-
8172	JOSHUA TREE SUB	33	0% Subs	Allocated according to substation percentage						-	9,177	-	-	-	-	-	-	-
8216	PEERLESS SUB	33	0% Subs	Allocated according to substation percentage						-	-	7,635	-	-	-	-	-	-
8238	SILVER SPUR SUB	33	0% Subs	Allocated according to substation percentage						-	8,994	-	-	-	-	-	-	-
8244	SUNNY DUNES SUB	33	0% Subs	Allocated according to substation percentage						-	13,259	-	-	-	-	-	-	-
8255	TWENTYNINE PALMS SUB	33	0% Subs	Allocated according to substation percentage						-	11,480	-	-	-	-	-	-	-
9077	INFO TECH-GO2	Div	0% Subs	Allocated according to substation percentage						-	-	1	-	-	-	-	-	-
9235	RP&AS-NRTHSHIRE REC AREA	#N/A	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	86,918
2612	MINARET	33	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5120	FEDERALGEN SUB	66	0% Subs	Allocated according to substation percentage						-	6,944	-	-	-	-	-	-	-
5152	JOSE SUB	66	0% Subs	Allocated according to substation percentage						-	56,769	3,887	-	-	-	-	-	-
5175	VAIL SUB	66	0% Subs	Allocated according to substation percentage						-	15,470	-	-	-	-	-	-	-
5188	DALTON SUB	66	0% Subs	Allocated according to substation percentage						-	82,794	-	-	-	-	-	-	-
5201	BEVERLY HILLS SUB	66	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
5210	HOWARD SUB	66	0% Subs	Allocated according to substation percentage						-	-	17,431	-	-	-	-	-	-
5405	CANWIND SUB	66	0% Subs	Allocated according to substation percentage						-	-	9,895	-	-	-	-	-	-

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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	357	358
5406	ENWIND SUB	66	0% Subs	Allocated according to substation percentage					-	11,023	29,527	-	-	-	-	-	-
5409	MORWIND SUB	66	0% Subs	Allocated according to substation percentage					-	-	6,367	-	-	-	-	-	-
5414	DUTCHWIND SUB	66	0% Subs	Allocated according to substation percentage					-	12,069	7,801	-	-	-	-	-	-
5415	OAKWIND SUB	66	0% Subs	Allocated according to substation percentage					-	-	23,342	-	-	-	-	-	-
5424	MIDWIND SUB	66	0% Subs	Allocated according to substation percentage					-	-	23,000	-	-	-	-	-	-
5535	CHARMIN SUB	66	0% Subs	Allocated according to substation percentage					-	-	27,327	-	-	-	-	-	-
5572	GAVIOTA SUB	66	0% Subs	Allocated according to substation percentage					-	-	118,097	-	-	-	-	-	-
5604	TIMOTEO SUB	66	0% Subs	Allocated according to substation percentage					-	1,760	-	-	-	-	-	-	-
5629	REDLANDS SUB	66	0% Subs	Allocated according to substation percentage					-	29,558	21,359	-	-	-	-	-	-
5636	YUCAIPA SUB	66	0% Subs	Allocated according to substation percentage					-	31,005	-	-	-	-	-	-	-
5661	RUNNING SPRINGS SUB	33	0% Subs	Allocated according to substation percentage					-	31,398	-	-	-	-	-	-	-
5667	ARCHLINE SUB	66	0% Subs	Allocated according to substation percentage					-	12,856	-	-	-	-	-	-	-
5668	CRESTMORE SUB	66	0% Subs	Allocated according to substation percentage					-	14,975	-	-	-	-	-	-	-
5680	DIAMOND BAR SUB	66	0% Subs	Allocated according to substation percentage					-	-	49,398	-	-	-	-	-	-
5718	FRUITLAND SUB	66	0% Subs	Allocated according to substation percentage					-	12,712	-	-	-	-	-	-	-
5720	FREEMONT SUB	66	0% Subs	Allocated according to substation percentage					-	6,957	-	-	-	-	-	-	-
5779	DAVIDSON CITY	33	0% Subs	Allocated according to substation percentage					-	6,957	-	-	-	-	-	-	-
5812	MURPHY SUB	66	0% Subs	Allocated according to substation percentage					-	20,469	-	-	-	-	-	-	-
5886	PIONEER SUB	66	0% Subs	Allocated according to substation percentage					-	6,944	-	-	-	-	-	-	-
8207	HOLIDAY SUB	33	0% Subs	Allocated according to substation percentage					-	19,356	-	-	-	-	-	-	-
8210	OLIVE LAKE SUB	33	0% Subs	Allocated according to substation percentage					-	558	-	-	-	-	-	-	-
8231	RUBIDOUX SUB	33	0% Subs	Allocated according to substation percentage					-	6,317	-	-	-	-	-	-	-
8252	TRONA SUB	33	0% Subs	Allocated according to substation percentage					-	6,499	7,864	-	-	-	-	-	-
8056	LAKEVIEW SUB	115	0% Subs	Allocated according to substation percentage					-	9,217,537	22,362,495	-	-	-	-	-	-
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	66	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	66	0% Subs	Allocated according to substation percentage					-	18,619	-	-	-	-	-	-	-
5331	VISALIA SUB	66	0% Subs	Allocated according to substation percentage					-	35,561	-	-	-	-	-	-	-
1020	STM GEN	#N/A	0% Subs	Allocated according to substation percentage					-	-	-	6,749	-	-	-	-	-
6027	MONROVIA SERVICE CENTER	#N/A	0% Subs	Allocated according to substation percentage					-	-	-	-	-	-	-	-	-
8366	LEATHERNECK SUB	115	0% Subs	Allocated according to substation percentage					-	38,734	21,262	-	-	-	-	-	-
8071	CLEMENTINE	115	0% Subs	Allocated according to substation percentage					-	41,635	69,695	-	-	-	-	-	-
5216	MANHATTAN SUB	33	0% Subs	Allocated according to substation percentage					-	10,762	-	-	-	-	-	-	-
5218	MONETA SUB	33	0% Subs	Allocated according to substation percentage					-	16,856	-	-	-	-	-	-	-
5227	REDONDO SUB	33	0% Subs	Allocated according to substation percentage					-	33,678	-	-	-	-	-	-	-
5228	ROSECRANS SUB	66	0% Subs	Allocated according to substation percentage					-	70,273	-	-	-	-	-	-	-
5231	SANTA MONICA SUB	66	0% Subs	Allocated according to substation percentage					-	19,277	-	-	-	-	-	-	-
5246	DITMAR SUB	66	0% Subs	Allocated according to substation percentage					-	8,977	-	-	-	-	-	-	-
5254	HAVEDA SUB	33	0% Subs	Allocated according to substation percentage					-	30,118	-	-	-	-	-	-	-
5255	LUNADA SUB	33	0% Subs	Allocated according to substation percentage					-	8,090	-	-	-	-	-	-	-
5267	SPACE SUB	66	0% Subs	Allocated according to substation percentage					-	21,278	-	-	-	-	-	-	-
5274	GALAXY SUB	66	0% Subs	Allocated according to substation percentage					-	8,898	-	-	-	-	-	-	-
5411	ARBWIND SUB	66	0% Subs	Allocated according to substation percentage					-	-	6,186	-	-	-	-	-	-
5570	VEGAS SUB	66	0% Subs	Allocated according to substation percentage					5,801	-	-	-	-	-	-	-	-
5624	NORCO SUB	33	0% Subs	Allocated according to substation percentage					-	66,934	-	-	-	-	-	-	-
5628	TENNESSEE SUB	66	0% Subs	Allocated according to substation percentage					-	44,558	-	-	-	-	-	-	-
5635	UPLAND SUB	66	0% Subs	Allocated according to substation percentage					-	21,532	-	-	-	-	-	-	-
5639	FRANCIS SUB	66	0% Subs	Allocated according to substation percentage					-	59,194	-	-	-	-	-	-	-
5726	HATHAWAY SUBSTATION	66	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	33	0% Subs	Allocated according to substation percentage					-	13,562	-	-	-	-	-	-	-
8140	EAST BARSTOW SUB	33	0% Subs	Allocated according to substation percentage					-	12,855	-	-	-	-	-	-	-
8148	FOREST HOME SUB	33	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	33	0% Subs	Allocated according to substation percentage					-	15,611	-	-	-	-	-	-	-
8263	PEREZ SUB	33	0% Subs	Allocated according to substation percentage					-	29,219	-	-	-	-	-	-	-
8279	CORONA SUB	66	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	Mis	0% Subs	Allocated according to substation percentage					-	-	9,775	-	-	-	-	-	-
2587	SKILAND (MAMMOTH LAKE) SUBSTA	33	0% Subs	Allocated according to substation percentage					-	129,731	-	-	-	-	-	-	-
8371	KARMA SUB	115	0% Subs	Allocated according to substation percentage					-	-	41,212	-	-	-	-	-	-
1510	EL SEGUNDO GEN. STATION	220	0% Subs	Allocated according to substation percentage					-	-	2,450	-	-	-	-	-	-
1936	COOLWATER COMMON	220	0% Subs	Allocated according to substation percentage					-	108,439	-	-	-	-	-	-	-
1996	SAN BERNARDINO COMMON	220	0% Subs	Allocated according to substation percentage					-	27,803	-	-	-	-	-	-	-
5347	ISABELLA SUB	66	0% Subs	Allocated according to substation percentage					73,306	-	-	-	-	-	-	-	-
5608	CARDIFF SUB	66	0% Subs	Allocated according to substation percentage					-	117,952	-	-	-	-	-	-	-
5630	GRAPELAND PEAKER SUB	66	0% Subs	Allocated according to substation percentage					-	92,067	-	-	-	-	-	-	-
5637	TIPPECANOE SUB	66	0% Subs	Allocated according to substation percentage					-	21,769	-	-	-	-	-	-	-
5808	BRYAN SUBSTATION	66	0% Subs	Allocated according to substation percentage					-	62,236	-	-	-	-	-	-	-
5821	FAIRVIEW SUBSTATION	66	0% Subs	Allocated according to substation percentage					-	37,527	-	-	-	-	-	-	-
5836	MORRO SUBSTATION	66	0% Subs	Allocated according to substation percentage					-	47,115	-	-	-	-	-	-	-
5838	NARROWS SUB	66	0% Subs	Allocated according to substation percentage					-	16,683	-	-	-	-	-	-	-
5861	CHESTNUT SUBSTATION	66	0% Subs	Allocated according to substation percentage					-	15,616	-	-	-	-	-	-	-
5863	BARTOLO SUB	66	0% Subs	Allocated according to substation percentage					-	4,087	-	-	-	-	-	-	-
6039	VENTURA S/C	#N/A	0% Subs	Allocated according to substation percentage					-	-	-	-	-	-	-	-	-
6048	NO. ORANGE COUNTY S/C	#N/A	0% Subs	Allocated according to substation percentage					-	-	-	-	-	-	-	-	-
8205	NORTH INTAKE SUB	33	0% Subs	Allocated according to substation percentage					-	13,741	-	-	-	-	-	-	-
8215	PALM VILLAGE SUB	33	0% Subs	Allocated according to substation percentage					-	46,196	-	-	-	-	-	-	-
8219	GAVILAN SUB	33	0% Subs	Allocated according to substation percentage					-	20,693	-	-	-	-	-	-	-

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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	357	358	359
8239	SIXTEENTH STREET SUB	33	0% Subs	Allocated according to substation percentage						-	34,308	-	-	-	-	-	-	-
8813	SHELL WESTERN(BREA) SUB	66	0% Subs	Allocated according to substation percentage						-	9,846	-	-	-	-	-	-	-
9159	GRID CONTROL MGMT T&D	#N/A	0% Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	
5722	PICO SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	96,546	-	-	-	-	-	-	
5742	THUMS "B" SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	23,963	-	-	-	-	-	-	
5790	SEABRIGHT SUBSTATION	66	0% Subs	Allocated according to substation percentage						-	29,034	-	-	-	-	-	-	
1000	DIV MTCE / OVERHAUL MNGT	66	Mix Subs	Allocated according to substation percentage						-	-	6,285	-	-	-	-	-	
1250	MOUNTAINVIEW POWER-COMMON	220	Mix Subs	Allocated according to substation percentage						-	-	27,323,050	-	-	-	-	-	
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	-	-	-	-	-	
1076 & 199	San Bernardino-220kv Switchyard &	220	Mix Subs	Allocated according to substation percentage						302,392	5,511,643	51,546,337	-	-	-	-	-	
	BIG CREEK NO.1	220	Mix Subs	Allocated according to substation percentage							264,412	13,764,319	-	-	-	-	-	
2212	BIG CREEK NO.2	220	Mix Subs	Allocated according to substation percentage						-	-	2,274,534	-	-	-	-	-	
2229	BIG CREEK NO.8	220	Mix Subs	Allocated according to substation percentage						-	282,649	3,159,236	-	-	-	-	-	
2230	BIG CREEK NO.3	220	Mix Subs	Allocated according to substation percentage						-	2,536,133	18,979,949	-	-	-	-	-	
2234	BIG CREEK NO.2A	220	Mix Subs	Allocated according to substation percentage						-	-	1,031,434	-	-	-	-	-	
5000	SUBSTN DIV	Mis	Mix Subs	Allocated according to substation percentage						-	-	3,270,205	-	-	-	-	-	

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				UG Total	UG ISO	OH Total	OH ISO	Total Miles	Total ISO	350	352	353	354	355	356	357	358	359
5011	EAGLE ROCK SUB	220	Mix Subs	Allocated according to substation percentage						19,613	4,966,351	34,708,695	-	-	-	-	-	-
5012	MESA SUB	220	Mix Subs	Allocated according to substation percentage						2,031,347	86,167,567	250,684,536	-	-	-	-	-	-
5013	RIO HONDO SUB	220	Mix Subs	Allocated according to substation percentage						457,530	10,621,618	77,785,680	-	-	-	-	-	-
5023	EL NIDO SUB	220	Mix Subs	Allocated according to substation percentage						285,620	13,718,618	51,717,477	-	-	-	-	-	-
5024	LA CIENEGA SUB	220	Mix Subs	Allocated according to substation percentage						2,100,227	6,044,555	44,720,031	-	-	-	-	-	-
5025	ALAMITOS SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						62,281	3,211,371	41,711,812	-	-	-	-	-	-
5027	LG BCH SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						97,213	1,384,839	8,695,376	-	-	-	-	-	-
5028	REDONDO SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						13,018	39,761	5,935,327	-	-	-	-	-	-
5031	MAGUNDEN SUB	220	Mix Subs	Allocated according to substation percentage						8,363	3,940,807	19,953,865	-	-	-	-	-	-
5033	RECTOR SUB	220	Mix Subs	Allocated according to substation percentage						394,843	21,458,240	124,928,712	-	-	-	-	-	-
5035	VESTAL SUB	220	Mix Subs	Allocated according to substation percentage						7,243	2,101,575	55,679,161	-	-	-	-	-	-
5038	NO. T/S REG OFC/VALENCIA	Mis	Mix Subs	Allocated according to substation percentage						123,342	3,723,403	-	-	-	-	-	-	-
5040	EAGLE MT. SUB	220	Mix Subs	Allocated according to substation percentage						-	529,160	20,360,738	-	-	-	-	-	-
041 & 804	Inyokern (CEP) & Inyokern	115	Mix Subs	Allocated according to substation percentage						7,964	684,522	14,831,395	-	-	-	-	-	-
042 & 804	Kramer & Kramer-Radial Line Agmt	220	Mix Subs	Allocated according to substation percentage						48,811	2,675,257	54,011,256	-	-	-	-	-	-
5043	CIMA SUB	220	Mix Subs	Allocated according to substation percentage						1,824	162,785	3,284,606	-	-	-	-	-	-
5050	PARDEE SUB	220	Mix Subs	Allocated according to substation percentage						970,263	11,276,885	44,360,991	-	-	-	-	-	-
5055	GOLETA SUB	220	Mix Subs	Allocated according to substation percentage						236,194	3,861,971	31,378,724	-	-	-	-	-	-
5056	MOORPARK SUB	220	Mix Subs	Allocated according to substation percentage						184,091	6,914,667	73,083,964	-	-	-	-	-	-
5059	BAILEY SUB	220	Mix Subs	Allocated according to substation percentage						111,063	8,462,552	34,409,502	-	-	-	-	-	-
5060	PADUA SUB	220	Mix Subs	Allocated according to substation percentage						149,547	5,306,259	55,672,572	-	-	-	-	-	-
5062	CHINO SUB	220	Mix Subs	Allocated according to substation percentage						34,465	19,138,169	72,133,618	-	-	-	-	-	-
5063	JULIAN HINDS SUB	220	Mix Subs	Allocated according to substation percentage						-	1,561,070	24,294,785	-	-	-	-	-	-
5064	VISTA SUB	220	Mix Subs	Allocated according to substation percentage						52,109	25,031,998	76,981,637	-	-	-	-	-	-
5067	DEVERS SUB	500	Mix Subs	Allocated according to substation percentage						1,370,884	54,253,202	221,729,855	-	-	-	-	-	-
070 & 803	Valley & Valley - CEP	500	Mix Subs	Allocated according to substation percentage						311,358	41,273,080	183,690,046	-	-	-	-	-	-
5071	HINSON SUB	220	Mix Subs	Allocated according to substation percentage						678,278	4,906,162	38,327,617	-	-	-	-	-	-
5073	LIGHTHIPE SUB	220	Mix Subs	Allocated according to substation percentage						164,680	14,341,871	40,384,622	-	-	-	-	-	-
5075	DEL AMO SUB	220	Mix Subs	Allocated according to substation percentage						164,747	6,442,553	61,913,058	-	-	-	-	-	-
5079	WINDHUB SUB	500	Mix Subs	Allocated according to substation percentage						1,231,926	31,896,768	212,267,270	-	-	-	-	-	-
5081	BARRE SUB	220	Mix Subs	Allocated according to substation percentage						86,188	4,996,568	61,140,756	-	-	-	-	-	-
5082	VILLA PARK SUB	220	Mix Subs	Allocated according to substation percentage						270,570	7,001,198	55,891,066	-	-	-	-	-	-
5084	CENTER SUB	220	Mix Subs	Allocated according to substation percentage						71,802	5,397,740	52,866,283	-	-	-	-	-	-
085 & 588	JOHANNA SUB	220	Mix Subs	Allocated according to substation percentage						813,416	5,630,158	25,631,453	-	-	-	-	-	-
5086	ELLIS SUB	220	Mix Subs	Allocated according to substation percentage						59,737	5,554,944	80,091,784	-	-	-	-	-	-
5087	QUINDA SUB	220	Mix Subs	Allocated according to substation percentage						390,538	2,252,648	33,234,680	-	-	-	-	-	-
5088	SANTIAGO SUB	220	Mix Subs	Allocated according to substation percentage						557,976	13,737,650	154,150,209	-	-	-	-	-	-
5096	ETIWANDA SWITCHRACK SUB	220	Mix Subs	Allocated according to substation percentage						186,144	4,615,808	58,983,420	-	-	-	-	-	-
5100	METRO REGION	33	Mix Subs	Allocated according to substation percentage						-	-	265,939	-	-	-	-	-	-
5556	NEENACH SUB	66	Mix Subs	Allocated according to substation percentage						-	46,787	408,193	-	-	-	-	-	-
8065	ALBERHILL SUB	500	Mix Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
9339	CONWAY SUMMIT COMM SITE	Mis	Mix Subs	Allocated according to substation percentage						-	-	14,913	-	-	-	-	-	-
8370	SANDLOT SUB	220	Mix Subs	Allocated according to substation percentage						-	790,436	4,028,190	-	-	-	-	-	-
8063	CHEVMAIN	220	Mix Subs	Allocated according to substation percentage						-	405,869	15,667,961	-	-	-	-	-	-
6072	BARSTOW NO RGN-SAN BERDOO	CST	Mix Subs	Allocated according to substation percentage						-	7,617	-	-	-	-	-	-	-
9010	B&A-T/S 3RD FLOOR-GO3	220	Mix Subs	Allocated according to substation percentage						-	-	823	-	-	-	-	-	-
9024	CHINO OFC BLDG (FACILITY)	Mis	Mix Subs	Allocated according to substation percentage						-	373,558	-	-	-	-	-	-	-
7010	FRESNO COUNTY	33	Mix Subs	Allocated according to substation percentage						-	-	-	-	-	-	-	-	-
7056	VENTURA COUNTY	33	Mix Subs	Allocated according to substation percentage						-	-	74,798	-	-	-	-	-	-
8000	ROADWAY(CEP)	115	Mix Subs	Allocated according to substation percentage						110,643	836,044	13,779,094	-	-	-	-	-	-
8006	EL CASCO SUBSTATION	220	Mix Subs	Allocated according to substation percentage						-	30,368,531	57,029,944	-	-	-	-	-	-
8037	TORTILLA(CEP) SUB	115	Mix Subs	Allocated according to substation percentage						17,114	1,027,694	11,230,369	-	-	-	-	-	-
8049	VICTOR SUB	220	Mix Subs	Allocated according to substation percentage						22,088	12,283,547	113,344,611	-	-	-	-	-	-
9203	FUELS	Mis	Mix Subs	Allocated according to substation percentage						-	-	341,890	-	-	-	-	-	-
9221	INNOVATION VILLAGE 1	Div	Mix Subs	Allocated according to substation percentage						-	-	1,509,815	-	-	-	-	-	-
9243	CONTROL SYS SEC-ALHAMBRA	Div	Mix Subs	Allocated according to substation percentage						-	375,558	2,962,532	-	-	-	-	-	-
9078	IRVINE OPER CENTER	Mis	Mix Subs	Allocated according to substation percentage						-	8,245	-	-	-	-	-	-	-
9330	TELECOMM-ALHAMBRA	Mis	Mix Subs	Allocated according to substation percentage						-	-	108,737	-	-	-	-	-	-
2556	CONTROL STATION	115	Mix Subs	Allocated according to substation percentage						-	1,661,309	15,817,075	-	40,798	25,499	-	-	-
5014	WALNUT SUB	220	Mix Subs	Allocated according to substation percentage						97,955	13,778,471	48,378,978	-	-	-	-	-	-
5015	GOULD SUB	220	Mix Subs	Allocated according to substation percentage						29,300	1,514,916	33,349,017	-	-	-	-	-	4,090
5021	LA FRESA SUB	220	Mix Subs	Allocated according to substation percentage						101,370	14,058,895	142,816,999	-	-	-	-	-	-
5052	ANTELOPE SUB	500	Mix Subs	Allocated according to substation percentage						21,983	7,961,641	208,140,455	-	-	-	-	37,191	-
5053	SANTA CLARA SUB	220	Mix Subs	Allocated according to substation percentage						140,739	4,316,796	54,164,483	-	-	-	-	-	13,555
5069	MIRA LOMA SUB	500	Mix Subs	Allocated according to substation percentage						474,735	51,626,773	229,118,577	-	123,410	-	-	-	-
5074	LAGUNA BELL SUB	220	Mix Subs	Allocated according to substation percentage						131,263	3,041,141	54,700,402	-	-	-	-	14,172	-
5083	VIEJO SUBSTATION	220	Mix Subs	Allocated according to substation percentage						13,285,971	9,071,791	34,708,627	-	-	-	-	10	-
8012	MIRAGE(CEP) SUB	220	Mix Subs	Allocated according to substation percentage						629,541	4,944,517	60,126,399	-	-	-	-	-	-
5034	SRINGVILLE SUB	220	Mix Subs	Allocated according to substation percentage						12,198	3,598,182	46,127,543	-	-	6,814	-	-	-

<b>LINES:</b>	
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	
<b>Total Lines</b>	

Non-Lines:

**SOUTHERN CALIFORNIA EDISON COMPANY**  
Transmission Line Study Results  
As of December 2019

Location	Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study							Non ISO Account Balances		
				350	352	353	354	355	356	357	358	359	
4026	MIDWAY-VINCENT LINES 1&2	500	Lines	2,926,213	8,464	27,105	22,393,506	741,658	22,941,425	-	-	795,535	-
4031	DWP-EDSN CELILO-SYLMR CA	1000	Lines	-	95,841	-	30,557,330	-	64,186,911	-	-	136,841	-
4034	DWP-EDSN CELILO-SYLMR NV	1000	Lines	-	541	-	8,630,439	-	7,494,128	-	-	668,871	-
4045	PARDEE-SYLMAR LINES 1&2	220	Lines	187,213	106,089	-	701,607	-	453,192	-	-	38,006	-
4046	EAGLE ROCK-SYLMAR LNE	220	Lines	186,657	-	-	214,409	-	62,108	-	-	-	-
4051	PARDEE-VINCENT LN 1	220	Lines	-	-	-	316,356	-	204,878	-	-	145,317	-
4059	PARDEE-VINCENT LINE CONST	220	Lines	13,002	-	-	966,737	-	202,343	-	-	20,953	-
4070	RIO HONDO-VINCENT LN 2	220	Lines	61,040	-	-	436,317	-	1,532,264	-	-	11,892	-
4101	MANY TRANSMISSION LINES	220	Lines	1,506,262	640,267	96,328	29,854,723	2,027,659	40,620,483	-	-	1,126,734	33,575
4102	COGEN/RENEWABLE ENERGY SO	220	Lines	831,624	-	-	1,477,985	219,154	2,442,528	-	-	467,577	634,504
4104	DEVERS-HINS LN, OTHERS	220	Lines	1,261,122	77,815	28,548	16,414,684	14,961,952	29,811,965	1,480	260,160	2,471,628	70,246
4105	33 AND 66 KV LINES	66	Lines	227,249	86,991	13,649	143,362	7,501,186	1,982,500	-	-	125,848	33,311,645
4107	ANTELOPE/MESA LINE, OTHER	220	Lines	4,278,569	1,178,834	-	129,224,027	14,659,895	60,538,970	-	-	88,484,912	12,751,767
4108	CHINO-SERRANO/SN ONFRE LN	220	Lines	8,071,997	4,364,957	-	15,613,343	1,472,865	14,150,541	-	-	1,551,517	181
4109	COACHELLA VALLEY-DEVERS (SCE PO	220	Lines	-	25,255	-	-	-	467,285	-	-	-	-
4111	BIG CRK 3-BIG CRK 4	220	Lines	1,944	-	-	133,734	-	530,440	-	-	29,429	-
4113	BIGCRK-SPRGVL, MGDN-SPRGV	220	Lines	712,124	23,986	-	20,156,270	77,648,886	16,571,353	-	-	630,959	66
4114	ALAMITOS-MESA LN, OTHERS	220	Lines	3,063,711	1,055,249	630,945	14,941,184	3,695,148	11,126,884	-	-	290,261	146,824
4115	HINSON-LIGHTHIPE 1&2	220	Lines	1,607,024	616,675	2,149	4,183,107	498,077	2,127,313	-	-	27,417	-
4116	HINSON-LAFRESA, OTHERS	220	Lines	3,594,552	464,777	2,065	3,155,564	11,433,159	9,582,263	180,589	456,828	13,558	-
4117	ELDRDO-CIMA-PISGAH LN1,2	220	Lines	1,004,389	67,865	12,857	25,552,509	4,938,337	12,076,607	-	-	151,162	-
4119	CENTER-MESA LN, OTHERS	220	Lines	1,671,908	197,856	80	25,217,039	67,770	21,006,977	-	-	2,251,836	429,429
4120	ALAMITOS-CENTER, OTHERS	220	Lines	3,793,539	731,529	26,643	7,657,552	782,172	6,256,343	227	-	29,682	477,693
4121	BIG CREEK 4-SPRGVLL-MGDN	220	Lines	209,639	55,314	-	17,148,729	3,491,606	9,840,706	-	-	250,994	92,116
4123	LUGO-VINCENT LINES 1&2	500	Lines	1,749,466	-	16,633	13,081,444	103,494	8,112,443	-	-	1,891	-
4124	BIG CRK 1-CMP TEN--PRTL	66	Lines	-	-	-	-	-	-	-	-	-	485
4125	GOLETA-SNTA CLARA, OTHERS	220	Lines	8,561,943	897,462	372,218	24,734,749	2,331,353	12,964,815	-	-	1,325,249	2,945,497
4127	NORTH BOULDER-MEAD, OTHER	220	Lines	12,581	-	-	443,863	5,085	348,612	-	-	3,301	7,261
4128	LYTLE CREEK-POLE S34694E	66	Lines	-	-	-	-	-	-	-	-	-	-
4129	KERN RIVERS-VESTAL 66 KV	66	Lines	-	-	-	-	-	-	-	-	-	31,413
4130	MOHAVE-LUGO 500KV	500	Lines	157,990	-	-	1,471,682	-	517,455	-	-	19,051	-
4132	CUMMINGS-KERBN RIV1, OTHE	66	Lines	-	-	-	-	-	-	-	-	-	3,146
4133	BOREL---WALKER 66KV LN	66	Lines	-	-	-	-	-	-	-	-	-	46,874
4136	LUGO-ELDORADO LN	500	Lines	1,330,373	36,143	-	17,938,062	2,050,363	10,656,252	-	-	117,747	-
4137	LUGO-ELDORADO LN	500	Lines	16,589	-	-	3,643,443	-	4,529,049	-	-	20,088	-
4138	LUGO-MIRA LOMA 2&3	500	Lines	9,587,137	3,085,745	145,824	32,838,726	118,240	24,904,638	-	-	591,464	-
4139	SPRGVLL-TULE 66KV LN	66	Lines	-	-	-	-	-	-	-	-	-	517
4140	MOHAVE-LUGO 500 KV LN	500	Lines	278,112	7,308	-	25,306,365	1,513,721	10,310,625	-	-	329,333	-
4141	MOHAVE-ELDORADO LN	500	Lines	76,199	-	-	4,434,062	-	1,251,359	-	-	55,916	-
4142	BOREL-WELDON 66KV LN	66	Lines	-	-	-	-	-	-	-	-	-	25,409
4143	ELDORADO-BORDER 500 KV LN	500	Lines	6,167	-	-	4,052,185	-	1,880,705	-	-	145,064	-
4144	ELDORADO-MEAD LNS 1&2	220	Lines	9,994	-	-	473,674	(2,826)	429,215	-	-	1,023	-
4147	VINCENT-PARDEE LN 2	220	Lines	3,884,037	-	1,880	2,765,700	-	11,278,478	-	-	145,187	-
4148	MIRA LOMA-SERRANO LN	500	Lines	1,733,248	-	-	26,646,806	-	7,820,573	-	-	761,201	-
4149	SANTA ANA LNS 1,2,3	66	Lines	-	-	-	-	-	-	-	-	-	232
4153	VINCENT-PEARBLOSSOM LN	220	Lines	-	-	-	-	-	-	-	-	-	309,032
4154	LUGO-VICTORVLL EDSON-DWP	500	Lines	748,544	51,478	-	2,724,622	-	762,540	-	-	-	-
4155	MIDWAY-VINCENT LN 3	500	Lines	5,825,616	-	-	20,858,769	1,757,686	7,511,408	-	-	187,772	-
4156	ELLIS-SANTIAGO LNS 1,2	220	Lines	12,018,447	-	-	2,262,700	6,476,819	2,971,326	-	-	38,262	-
4157	RIO HONDO-VINCENT NO. 2 220/500	220	Lines	105,605	18,610	-	272,702,442	22,286,539	73,746,389	-	-	634,573	-
4158	LUCERNE-LUGO/MIRA LOMA LN	500	Lines	498,252	-	-	-	-	-	-	-	-	-
4166	BIG CRK 2-BIG CRK 8	220	Lines	9,034	-	-	164,051	-	136,431	-	-	-	-
4168	BIG CRK 3-MAMMOTH POOL	220	Lines	-	-	-	-	-	-	-	-	-	4,331
4169	BIG CRK 1-RECTOR, OTHER	220	Lines	11,581,577	675,134	2,633	18,273,306	19,656,998	89,140,665	-	-	2,771,352	523,515
4185	DEVERS-PALO VERDE	500	Lines	14,776,950	36,143	-	294,481,783	2,866,726	138,418,320	1,151,660	-	467,228	-
4186	DEVERS-PALO VERDE	500	Lines	1,193,710	-	-	22,930,180	-	24,561,685	-	-	147,245	-
4187	DEVERS-VALLEY LNS 1,2	500	Lines	10,441,139	192,106	-	222,122,578	306,070	49,025,951	-	-	18,238,694	-
4188	SERRANO-VALLEY LN	500	Lines	2,855,109	267,678	-	25,551,539	514,984	14,833,343	-	-	2,640,525	-
4189	SERRANO-VILLA PK LN 1,2,3	220	Lines	78,248	37,274	-	1,521,458	-	1,397,144	-	-	-	-
4191	VALLEY-INLAND 500KV TL	500	Lines	-	-	-	-	-	-	-	-	-	36,143
4193	BIG CRK 1-EASTWOOD	220	Lines	-	-	-	-	-	-	-	-	-	-
4207	E.MAGUNDEN-ANTELOPE 220KV	220	Lines	-	-	-	-	-	-	-	-	-	25,798
4211	BIG CREEK #3/#4 220KV LN	220	Lines	-	-	-	-	-	-	-	-	-	-
4300	MET T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	131,348
4360	MIRA LOMA - VINCENT 500 KV LINE	500	Lines	25,977,199	2,872,305	-	377,376,784	75,913,864	166,194,573	215,074,931	42,111,352	39,189,093	-
4400	COASTAL T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	3,127
4500	EASTERN T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	433,988
4600	NRTHN T/S REGION	66	Lines	-	-	-	-	-	-	-	-	-	1,650,139
4644	ANTELOPE-PARDEE	220	Lines	3,934,890	-	-	86,011,136	7,668,801	39,491,898	-	-	3,941,302	2,007,612
4700	EASTERN T/S REG	66	Lines	-	-	-	-	-	-	-	-	-	33,305
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	3,268,655	-	-	33,222,617	-	12,122,060	15,046,586	-	-	-
4710	ANTELOPE-WHIRLWIND 500KV LN	500	Lines	15,917,279	-	-	42,253,932	-	38,248,271	-	-	2,227,208	-
4711	WHIRLWIND-WINDHUB 500KV L	500	Lines	71,262	-	-	56,720,609	(10,509)	20,121,664	-	-	-	-
4712	ANTELOPE - VINCENT #1 500KV	500	Lines	11,885,452	-	-	167,665,214	6,874,145	50,353,531	-	-	75	-
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	-	-	-	25,282,715	1,941,225	20,581,547	-	-	-	-
4734	ELDORADO-IVANPAH NO 1&2 - NV	220	Lines	352,196	-	-	49,174,369	666,768	164,614,419	-	-	2,178,647	-
4755	WHIRLWIND--VINCENT&MIDWAY 50	500	Lines	-	-	-	-	-	-	-	-	-	-
4756	DEVERS-SN BRDNO 220 KV LN	220	Lines	1,079,238	16,401	-	6,958,865	568,180	4,604,528	-	-	119,281	-



Location	Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study									Non ISO Account Balances		
				350	352	353	354	355	356	357	358	359	350	352	353
4759	BLYTHE-EAGLE MT 161 KV LN	161	Lines	33,310	-	-	-	2,770,000	331,263	-	-	4,845	-	-	-
4781	HOOVER-CLWTR 115 KV LN	115	Lines	1,255	-	-	-	96,551	42,433	-	-	1,352	23	-	-
4782	HOOVER-CLWTR 115 KV LN	115	Lines	165,196	-	-	-	327,795	1,784,467	811,371	-	21,669	-	-	-
4792	COGEN/RENEW ENERGY 220KV & ABC	220	Lines	-	-	-	-	-	-	-	-	-	-	-	-
4799	HUMAN EXTERNAL CARGO TRAINING	66	Lines	-	-	-	-	-	-	-	-	-	-	321,805	-
4800	VAR. TRANS. LINES-S/E DIV	66	Lines	-	-	-	-	-	-	-	-	-	-	-	-
4647	PARDEE-VINCENT 220KV/LN 2	220	Lines	-	-	-	-	-	-	-	-	-	2,931	1,543,933	711,670
4900	NORTHEASTERN T/S DIV.	66	Lines	-	-	-	-	-	-	-	-	-	-	7,378	-
4106	COGEN/RENEW ENGY SOURCES	115	Lines	-	-	-	-	-	-	-	-	-	-	-	-
4106	COGEN/RENEW ENGY SOURCES	66	Lines	-	-	-	-	-	-	-	-	-	195,086	-	-
4118	MRA LMA-VLL PK LNS, OTHR	220	Lines	4,640,667	696,068	1,869	17,352,164	429,549	12,333,807	-	-	148,991	368,035	-	-
4118	MRA LMA-VLL PK LNS, OTHR	66	Lines	-	-	-	-	-	-	-	-	-	833,018	124,947	335
4135	LUGO-VICTOR LNS, OTHER	220	Lines	1,012,919	63,032	-	5,568,073	738,714	4,069,013	-	-	-	137,779	20,666	55
4135	LUGO-VICTOR LNS, OTHER	115	Lines	426,836	26,561	-	2,346,345	311,288	1,714,652	-	-	58,594	765,537	47,638	-
4735	BISHOP CRK55&115KV LINES	115	Lines	-	-	-	-	-	-	-	-	24,691	-	-	-
4735	BISHOP CRK55&115KV LINES	55	Lines	-	-	-	-	-	-	-	-	-	(4)	173,673	-
4750	115 KV LNS, ESTN T/S REG	115	Lines	4,571,770	79,999	1,669,071	1,715,031	61,108,376	16,682,364	70,621	224,980	516,129	(7)	332,058	-
4750	115 KV LNS, ESTN T/S REG	66/55/33	Lines	-	-	-	-	-	-	-	-	-	-	203,192	4,239,316
4705	CORONA-JEFFERSON 66 KV LN	55	Lines	138,238	1,199,934	-	-	-	-	-	-	-	154,604	2,705	56,443
4705	CORONA-JEFFERSON 66 KV LN	66	Lines	-	-	-	-	12,122,614	1,493,327	-	-	20,376	54,066	469,299	-
				-	-	-	-	-	-	-	-	-	50,911	441,917	-
2236	BIG CREEK NO.4	220	100% Subs	-	41,031	4,684,168	-	-	-	-	-	-	-	-	-
2570	INYO	220	100% Subs	-	355,696	4,197,276	-	-	-	-	-	-	-	-	-
5001	METRO GOM MAINT	500	100% Subs	-	-	43,887,958	-	-	-	-	-	-	-	-	-
5019	HARBORGEN SUB	220	100% Subs	-	57,517	3,991,930	-	-	-	-	-	-	-	-	-
5026	EL SEGUNDO SWITCHCRACK SUB	220	100% Subs	12,470	1,607,338	8,793,630	-	-	-	-	-	-	-	-	-
5032	MIDWAY SUB	500	100% Subs	-	436,544	12,623,560	-	-	-	-	-	-	-	-	-
5036	PASTORIA SUB	220	100% Subs	21,435	1,649,212	12,338,955	-	-	-	-	-	-	-	-	-
5044	CLWTR SWITCHCRACKS 1,2	115	100% Subs	-	-	1,476,690	-	-	-	-	-	-	-	-	-
5045	MOHAVE SWITCHCRACK	500	100% Subs	-	3,480,107	8,564,850	-	-	-	-	-	-	-	-	-
5047	RANCHO VISTA SUB	500	100% Subs	1,844,367	24,632,921	154,029,327	-	-	-	-	-	-	-	-	-
054 & 895	Vincent	500	100% Subs	17,324,279	27,937,962	224,229,940	-	-	-	-	-	-	-	-	-
5058	SYLMAR SUB	220	100% Subs	-	19,757	1,948,141	-	-	-	-	-	-	-	-	-
5061	LUGO SUB	500	100% Subs	90,981	33,795,337	147,003,119	-	-	-	-	-	-	-	-	-
5065	PISGAH SUB	220	100% Subs	-	642,203	4,723,155	-	-	-	-	-	-	-	-	-
5089	LEWIS SUB	220	100% Subs	1,444	304,525	5,304,867	-	-	-	-	-	-	-	-	-
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	-	870,601	8,323,790	-	-	-	-	-	-	-	-	-
5097	PALO VERDE SWITCHCRACK SUB	500	100% Subs	-	486,323	7,815,158	-	-	-	-	-	-	-	-	-
8060	WHIRLWIND SUB	500	100% Subs	-	36,321,463	193,792,725	-	-	-	-	-	-	-	-	-
8084	HIGHWIND SUB	220	100% Subs	-	6,954,761	4,051,390	-	-	-	-	-	-	-	-	-
8367	COLORADO RIVER SUB	500	100% Subs	-	39,980,529	139,440,169	-	-	-	-	-	-	-	-	-
8372	PRIMM SUBSTATION	220	100% Subs	-	11,940,236	19,299,655	-	-	-	-	-	-	-	-	-
8960	WEST TRANSITION	500	100% Subs	-	16,473,171	14,471,055	-	-	-	-	-	-	-	-	-
8932	MIDWAY-PAC INTERTIE	500	100% Subs	-	162,585	13,930,693	-	-	-	-	-	-	-	-	-
8950	PARDEE-PAC INTERTIE	220	100% Subs	-	55,269	942,130	-	-	-	-	-	-	-	-	-
9219	RP&AS,IND&ESMNT REQUIS	220	100% Subs	9,939,315	45,883	-	-	-	-	-	-	-	-	-	-
5090	EL DORADO SUB(NEVADA)	500	100% Subs	13,183	38,963,605	192,388,361	-	-	-	-	-	94,492	-	-	-
5080	SERRANO SUB	500	100% Subs	1,226,475	28,732,890	219,845,718	-	-	-	-	-	2,236,590	-	-	-
5093	WEST SERIES CAPACITORS	500	100% Subs	-	1,797,455	45,885,867	-	-	-	-	-	-	-	-	-
8958	SYLMAR-PAC INTERTIE	220	100% Subs	51,663	7,758,498	120,849,951	2,505,376	-	359,913	-	-	-	-	-	-
5010	T.M. GOODRICH SUB-PASADEN	220	100% Subs	-	657,550	35,398	-	-	-	-	-	-	-	-	-
5018	DRYCREEKWIND SUB	220	100% Subs	-	(0)	0	-	-	-	-	-	-	-	-	-
8363	IVANPAH SUB	220	100% Subs	-	13,078,567	33,242,573	-	-	-	-	-	-	-	-	-
8369	RED BLUFF SUB	500	100% Subs	-	93,437,173	114,635,014	-	-	-	-	-	-	-	-	-
8375	CALCITE SUBSTATION 220 KV	220	100% Subs	-	-	14,699	-	-	-	-	-	-	-	-	-
TERNALOR	INTERNAL ORDER	Mis	0% Subs	-	-	1,086	-	-	-	-	-	-	-	-	781
1451	EDISON ITAC	Mis	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	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	68,246
2238	MAMMOTH POOL	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	4,111,894
2239	EASTWOOD POWER STATION	33	0% Subs	-	-	-	-	-	-	-	-	-	-	627,754	4,940,311
2300	HYDRO PRODUCTION	Mis	0% Subs	-	-	-	-	-	-	-	-	-	-	-	10,367
2301	SNTA ANA RV&MILL CRK CNYN	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	421,924
2303	LYTLE CRK&SN ANTONIO CNYN	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	140,226
2305	KERN RIVER CANYON	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	692,140
2307	KAWEAH RIVER CANYON	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	572,929
2309	SAN GORGONIO CANYON	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	193,975
2313	KERN RIVER NO.1	66	0% Subs	-	-	-	-	-	-	-	-	-	-	4,184	589,036
2314	BOREL	66	0% Subs	-	-	-	-	-	-	-	-	-	-	1,383	259,591
2315	SANTA ANA NO.1	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	36,406
2317	SANTA ANA NO.3	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	14,930
2318	MILL CREEK NO.1	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	7,316
2319	MILL CREEK NO.2&3	33	0% Subs	-	-	-	-	-	-	-	-	-	1,464	-	52,080
2324	KAWEAH NO.1	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	48,507
2325	KAWEAH NO.2	66	0% Subs	-	-	-	-	-	-	-	-	-	-	2,694	49,126
2326	KAWEAH NO.3	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	57,269
2327	LOWER TULE RIVER	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	50,834
2328	KERN RIVER NO.3	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	460,723
2331	ONTARIO NO.1	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	205,914

Location	Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study									Non ISO Account Balances				
				350	352	353	354	355	356	357	358	359	350	352	353		
2500	EASTERN HYDRO REGION	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	7,254	-	705,804
2501	BISHOP CREEK CANYON	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	196,344
2503	MONO BASIN	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	5,816,830
	'560 & 251(Lundy	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	317,627	-	120,052
2512	POOLE	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	175,912
2514	RUSH CREEK	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	80,487
2522	BISHOP CREEK NO.2	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	1,847,927
2523	BISHOP CREEK NO.3	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	86,641
2524	BISHOP CREEK NO.4	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	43,037
2525	BISHOP CREEK NO.5	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	39,098
2526	BISHOP CREEK NO.6	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	12,150
2553	FISH LAKE VALLEY METERING	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	1,343	8,337,395
2557	CASA DIABLO	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	2,119	381,195	2,302,338
2561	LEE VINING	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	344	262,259	1,194,781
2571	SHERWIN	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	100,772	655,406
2582	ZACK	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	400,881	-	(230)
2598	MT. TOM	55	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	15,138
3717	DAF INDAL 500KW WND TURBN	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	714	-	963,824
5016	LEBEC SUBSTATION	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5022	ARCOGEN SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5046	CLWTR SWITCHCRACK 3,4 SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	48,136	156,227	3,179,929
5048	MANDALAY SWITCHCRACK SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	49,104	67,252	2,575,916
5049	ORMOND BCH SWITCHCRACK SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	158,170	34,483	5,924,405
5051	SAUGUS SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	13,373	5,495,854	77,677,134
5066	GENE SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	34,539	2,064,623
5068	CAMINO SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	12,697	4,256,457
5072	VELASCO SUB	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	155,442
5078	HUNTINGTON BCH SWITCHCRCK	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5095	TRITON SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	21,660	262,196	4,891,312
5101	ALHAMBRA SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	2,415,092	2,377,770	26,471,314
5107	BANDINI SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	83,447	2,771,763
5109	BICKNELL SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	4,583	16,136	-
5112	THUMSGEN SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	2,451
5116	RUSH SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5141	ROSEMEAD SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	2,049
5158	ARROYO SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	38,757	22
5161	AMADOR SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	123
5162	FAIR OAKS SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	(47,687)
5165	JPL SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	17,195
5167	MAYFLOWER SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	3,666
5170	TEMPLE SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	91,972
5178	KIRK WALL SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	17,367
5179	RAVENDALE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	3,995	-	-
5185	CITRUS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	154,829	-
5186	CORTEZ SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	37,984
5196	RAILROAD SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	16,955	31,589
5198	ALHAMBRA DIST SUB TRG FAC	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	57,470	-
5204	CULVER CITY SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	25,705	2,046,562
5207	SEPULVEDA SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	61,263
5211	INGLEWOOD SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	41,604	-
5213	LENNOX SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	29,751	-
5224	PEARL SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	14,957	17,794
5235	WINDSOR HILLS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	14,955	-
5236	VALDEZ SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	58,264	17,508
5238	LAWNDALE SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	24,710
5241	YUKON SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	44,342	-
5250	SAWTELLE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	4,415	-	-
5257	BRIDGE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	70,183	-
5259	STIRRUP SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	14,957	-
5273	STANHILL SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	14,955	-
5315	LAUREL SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	0
5325	STRATHMORE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	14,882
5333	WOODVILLE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	15,418	-
5352	LINE CREEK SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	74,641
5357	CUMMINGS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	31,030
5358	MONOLITH SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	111,576
5365	ACTON SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	234	1,261,397
5374	RIVERWAY SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	24,167	-	15,397
5375	MASCOT SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	801,825	-	-
5504	CASITAS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	573,588	-	-
5506	CHANNEL ISLANDS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	(251,321)
5507	ORTEGA SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	116,483	-
5508	DEL SUR SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5510	FILLMORE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	5,566	-
5511	GOLDTOWN SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	526,259
5514	LANCASTER SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	1,071,949
5518	LITTLE ROCK SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	1,690,353
5522	SHUTTLE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	911,750
5526	OJAI SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	13,050	-
5530	REDMAN WUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	89,829	275,391
5531	SANTA BARBARA SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	40,153	-
5538	VENTURA SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	52,161	-
5539	ANAVERDE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-	-	76,359

**SOUTHERN CALIFORNIA EDISON COMPANY**  
Transmission Line Study Results  
As of December 2019

Location	Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study						Non ISO Account Balances					
				350	352	353	354	355	356	357	358	359	350	352	353
5541	ROSAMOND SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	66,626	658,870
5545	PIUTE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	11,023	149,257
5546	ELIZABETH LAKE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	3,072
5547	CORUM SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5548	OASIS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	397,008
5553	CAL CEMENT SUB	66	0% Subs	-	-	-	-	-	-	15,551	-	-	-	15,551	367,757
5557	NEWBURY SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	692,110
5562	GRISWOLD SUB	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5564	PALMDALE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	603,424
5566	QUARTZ HILL SUB	66	0% Subs	-	-	-	-	-	-	11,023	-	-	-	11,023	220,467
5599	HELIJET SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	499,396
5601	RANDALL SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	20,403	56,150
5606	ORANGE PRODUCTS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5612	INLAND CONTAINER SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	13,596	-
5615	DECLER SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	20,750	-
5631	SAN ANTONIO SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	23,032
5646	COLTON CEMENT SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	7,606
5652	AMERON SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	43,167	-
5655	NOGALES SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	531,131
5659	ARCHIBALD SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	16,835	525,170
5664	WIMBLEDON SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	206,393
5670	DEL ROSA SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	1,282	17,343
5674	WHIPPLE SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	17,327
5678	LANDING SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5740	NAPLES SUBSTATION	33	0% Subs	-	-	-	-	-	-	-	-	-	-	14,661	-
5758	WATSON SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	114,340
5787	SOUTH GATE SUBSTATION	33	0% Subs	-	-	-	-	-	-	-	-	-	-	-	3,790
5788	BOVINE SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	17,255
5798	MOVIE SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5811	CHICUITA SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	1,963	17,658
5814	CARMENITA SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	58,207
5816	PARKWOOD SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	14,314	146,427
5828	WAVE SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	93,280	-
5842	OCEANVIEW SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	-
5843	ORANGE SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	58,101
5849	SANTA ANA SUBSTATION	33	0% Subs	-	-	-	-	-	-	-	-	-	-	32,493	-
5853	TALBERT SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	6,882	-
5860	ALTON SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	24,273
5862	SULLIVAN SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	241,262	-	-
5865	ESTRELLA SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	230,879
5869	SHAWNEE SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	41,148
5878	TUSTIN SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	17,289
5892	TELEGRAPH SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	11,308	-	-
5896	NIGUEL SUBSTATION	66	0% Subs	-	-	-	-	-	-	-	-	-	-	12,346	96,987
5902	LAS LOMAS SUB	66	0% Subs	-	-	-	-	-	-	-	-	-	-	-	21,384
7013	IMPERIAL COUNTY	115	0% Subs	-	-	-	-	-	-	-	-	-	4,664,177	-	-
8003	PAUBA(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	1,702
8004	THORNHILL(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	106,825	826,875
8005	STADLER(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	25,609	996,193
8009	PAN AERO (CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	139,611	786,164
8010	PHELAN(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	11,193,383
8011	BANWIND SUBSTATION	115	0% Subs	-	-	-	-	-	-	-	-	-	-	6,877	641,248
8013	APPLE VALLEY(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	154,446	7,063,296
8014	BUNKER(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	32,028
8016	FARREL(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	1,389,452
8017	CONCHO(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	969,397	10,378,032
8018	AULD(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	1,536,772	15,123,607
8019	MAXWELL(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	700,622	13,410,336
8020	SAVAGE(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	285,201	672,863
8021	PEPPER(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	83,538	9,621,617
8022	YUCCA(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	120,644	19,303,972
8023	BLACK MOUNTAIN(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	33,940	11,126,654
8024	ALESSANDRO(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	29,280	15,638,494
8025	BAKER(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	17,579	509,658
8026	BANNING(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	19,474	10,204,080
8027	COTTONWOOD(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	19,474	11,737,770
8028	EDWARDS(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	41,871
8029	HI DESERT(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	912,016
8030	MOUNTAIN PASS(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	45,514	2,735,102
8031	RANDBURG(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	24,654,378
8032	ROCKET TEST(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	211,976
8033	SEARLES(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	2,735,419
8035	ZANIA(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	21,976
8036	SANTA ROSA(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	20,210	1,583,910
8038	NELSON(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	22,426	16,216,180
8039	HOMART(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	22,426	1,796,115
8041	HOLGATE(CEP) SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	11,561,373
8042	CALECTRIC SUB (CEP)	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	53,166
8044	GARNET SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	-	2,862,027
8045	IID TIE SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	1,154,541	19,852,862
8047	TIEFORT SUB	115	0% Subs	-	-	-	-	-	-	-	-	-	-	70,286	26,524
8048	USBR BLYTHE SUB	161	0% Subs	-	-	-	-	-	-	-	-	-	-	116	4,428,355
8055	SN ONOFRE SWTHRK-100%SCE	220	0% Subs	-	-	-	-	-	-	-	-	-	-	-	6,016,279
														-	283,935
														-	6,189,822
														152,559	1,689,822
														-	9,593,911
														44,689	21,047,985
														22,819	14,313,822
														174,875	5,350,954
														27,167	3,246,975
														27,870	23,030,050
														37,635	13,195,525
														39,144	23,873
														-	1,530,163
														-	7,784,555
														-	10,597,926

## SOUTHERN CALIFORNIA EDISON COMPANY

### Transmission Line Study Results

As of December 2019

[illegible]

[illegible]

[illegible]



**SOUTHERN CALIFORNIA EDISON COMPANY**  
Transmission Line Study Results  
As of December 2019

Location	Description	Voltage	Study	Balance by FERC Account (ISO Transmission) Current Study							Non ISO Account Balances		
				350	352	353	354	355	356	357	358	359	
5011	EAGLE ROCK SUB	220	Mix Subs	3,697	935,376	6,543,401	-	-	-	-	-	-	15,916
5012	MESA SUB	220	Mix Subs	795,139	42,661,481	120,258,446	-	-	-	-	-	-	1,236,208
5013	RIO HONDO SUB	220	Mix Subs	112,803	2,618,749	19,177,980	-	-	-	-	-	-	344,726
5023	EL NIDO SUB	220	Mix Subs	99,252	5,977,930	16,725,299	-	-	-	-	-	-	186,368
5024	LA CIENEGA SUB	220	Mix Subs	650,675	1,872,673	13,854,783	-	-	-	-	-	-	1,449,552
5025	ALAMITOS SWITCHRACK SUB	220	Mix Subs	30,436	1,569,368	20,384,189	-	-	-	-	-	-	31,845
5027	LG BCH SWITCHRACK SUB	220	Mix Subs	32,178	458,382	2,940,264	-	-	-	-	-	-	65,036
5028	REDONDO SWITCHRACK SUB	220	Mix Subs	8,659	26,446	3,947,714	-	-	-	-	-	-	4,360
5031	MAGUNDEN SUB	220	Mix Subs	7,963	3,752,428	18,882,608	-	-	-	-	-	-	400
5033	RECTOR SUB	220	Mix Subs	210,939	11,463,751	67,675,061	-	-	-	-	-	-	183,904
5035	VESTAL SUB	220	Mix Subs	3,340	988,599	25,653,110	-	-	-	-	-	-	3,902
5038	NO. T/S REG OFC/VALENCIA	Mis	Mix Subs	90,779	2,436,249	-	-	-	-	-	-	-	32,563
5040	EAGLE MT. SUB	220	Mix Subs	-	223,107	10,304,914	-	-	-	-	-	-	-
041 & 804	Inyokern (CEP) & Inyokern	115	Mix Subs	2,139	75,461	4,060,684	-	-	-	-	-	-	5,825
042 & 804	Kramer & Kramer-Radial Line Agmt	220	Mix Subs	38,992	2,137,076	43,145,808	-	-	-	-	-	-	9,819
5043	CIMA SUB	220	Mix Subs	207	18,447	372,210	-	-	-	-	-	-	1,617
5050	PARDEE SUB	220	Mix Subs	844,999	9,821,914	38,632,978	-	-	-	-	-	-	125,264
5055	GOLETA SUB	220	Mix Subs	82,821	1,346,119	11,011,829	-	-	-	-	-	-	153,373
5056	MOORPARK SUB	220	Mix Subs	25,309	950,621	10,047,500	-	-	-	-	-	-	158,782
5059	BAILEY SUB	220	Mix Subs	111,063	8,462,552	34,409,502	-	-	-	-	-	-	-
5060	PADUA SUB	220	Mix Subs	60,622	2,147,170	22,549,307	-	-	-	-	-	-	88,925
5062	CHINO SUB	220	Mix Subs	7,922	10,771,688	30,757,125	-	-	-	-	-	-	26,543
5063	JULIAN HINDS SUB	220	Mix Subs	-	1,547,530	24,084,052	-	-	-	-	-	-	-
5064	VISTA SUB	220	Mix Subs	10,899	5,288,587	16,044,931	-	-	-	-	-	-	41,210
5067	DEVERS SUB	500	Mix Subs	1,150,861	45,545,990	186,735,125	-	-	-	-	-	-	220,023
070 & 803	Valley & Valley - CEP	500	Mix Subs	93,653	10,824,434	64,997,699	-	-	-	-	-	-	217,704
5071	HINSON SUB	220	Mix Subs	137,786	441,770	8,094,842	-	-	-	-	-	-	540,491
5073	LIGHTHIPE SUB	220	Mix Subs	49,277	4,291,537	12,084,345	-	-	-	-	-	-	115,402
5075	DEL AMO SUB	220	Mix Subs	27,115	909,523	10,354,374	-	-	-	-	-	-	137,632
5079	WINDHUB SUB	500	Mix Subs	1,095,247	28,357,912	188,716,817	-	-	-	-	-	-	136,679
5081	BARRE SUB	220	Mix Subs	28,104	1,629,250	19,936,395	-	-	-	-	-	-	58,084
5082	VILLA PARK SUB	220	Mix Subs	87,262	2,598,876	17,677,054	-	-	-	-	-	-	183,308
5084	CENTER SUB	220	Mix Subs	6,484	387,374	4,871,332	-	-	-	-	-	-	65,318
085 & 588	JOHANNA SUB	220	Mix Subs	230,653	1,325,603	8,068,156	-	-	-	-	-	-	582,763
5086	ELLIS SUB	220	Mix Subs	12,727	1,192,519	17,054,346	-	-	-	-	-	-	47,010
5087	OLINDA SUB	220	Mix Subs	59,383	342,526	5,053,498	-	-	-	-	-	-	331,155
5088	SANTIAGO SUB	220	Mix Subs	305,738	9,599,337	82,410,644	-	-	-	-	-	-	252,238
5096	ETIWANDA SWITCHRACK SUB	220	Mix Subs	35,636	883,668	11,291,971	-	-	-	-	-	-	150,508
5100	METRO REGION	33	Mix Subs	-	-	151,526	-	-	-	-	-	-	-
5556	NEENACH SUB	66	Mix Subs	-	26,658	232,579	-	-	-	-	-	-	-
8065	ALBERHILL SUB	500	Mix Subs	-	-	-	-	-	-	-	-	-	-
9339	CONWAY SUMMIT COMM SITE	Mis	Mix Subs	-	-	8,497	-	-	-	-	-	-	-
8370	SANDLOT SUB	220	Mix Subs	-	-	-	-	-	-	-	-	-	-
8063	CHEVMAIN	220	Mix Subs	-	95,811	3,698,624	-	-	-	-	-	-	-
6072	BARSTOW NO RGN-SAN BERDOO	CST	Mix Subs	-	4,984	-	-	-	-	-	-	-	-
9010	B&A-T/S 3RD FLOOR-GO3	220	Mix Subs	-	-	469	-	-	-	-	-	-	-
9024	CHINO OFC BLDG (FACILITY)	Mis	Mix Subs	-	244,421	-	-	-	-	-	-	-	-
7010	FRESNO COUNTY	33	Mix Subs	-	-	-	-	-	-	-	-	-	-
7056	VENTURA COUNTY	33	Mix Subs	-	-	42,618	-	-	-	-	-	-	-
8000	ROADWAY(CEP)	115	Mix Subs	18,353	133,840	2,290,240	-	-	-	-	-	-	92,289
8006	EL CASCO SUBSTATION	220	Mix Subs	-	5,021,356	9,429,484	-	-	-	-	-	-	-
8037	TORTILLA(CEP) SUB	115	Mix Subs	6,515	390,689	4,275,664	-	-	-	-	-	-	10,599
8049	VICTOR SUB	220	Mix Subs	19,578	10,895,381	100,456,854	-	-	-	-	-	-	2,510
9203	FUELS	Mis	Mix Subs	-	194,801	-	-	-	-	-	-	-	-
9221	INNOVATION VILLAGE 1	Div	Mix Subs	-	-	860,258	-	-	-	-	-	-	-
9243	CONTROL SYS SEC-ALHAMBRA	Div	Mix Subs	-	245,730	1,687,982	-	-	-	-	-	-	-
9078	IRVINE OPER CENTER	Mis	Mix Subs	-	5,395	-	-	-	-	-	-	-	-
9330	TELECOMM-ALHAMBRA	Mis	Mix Subs	-	-	61,956	-	-	-	-	-	-	-
2556	CONTROL STATION	115	Mix Subs	-	1,390,888	13,621,130	-	35,042	21,901	-	-	-	-
5014	WALNUT SUB	220	Mix Subs	6,386	5,934,522	8,540,324	-	-	-	-	-	-	91,569
5015	GOULD SUB	220	Mix Subs	10,549	545,420	12,006,743	-	-	-	-	-	-	18,751
5021	LA FRESA SUB	220	Mix Subs	16,100	2,220,212	22,691,072	-	-	-	-	-	-	85,270
5052	ANTELOPE SUB	500	Mix Subs	21,982	7,961,310	208,131,344	-	-	-	37,189	-	-	1
5053	SANTA CLARA SUB	220	Mix Subs	38,399	1,177,789	14,778,164	-	-	-	-	3,698	-	102,340
5069	MIRA LOMA SUB	500	Mix Subs	404,114	43,840,874	195,150,475	-	105,051	-	-	-	-	70,622
5074	LAGUNA BELL SUB	220	Mix Subs	33,912	784,002	14,133,803	-	-	-	3,661	-	-	97,351
5083	VIEJO SUBSTATION	220	Mix Subs	3,201,270	2,185,774	8,363,165	-	-	-	2	-	-	10,084,701
8012	MIRAGE(CEP) SUB	220	Mix Subs	250,019	1,911,876	23,866,193	-	-	-	-	-	-	379,522
5034	SRINGVILLE SUB	220	Mix Subs	3,396	922,608	12,906,634	-	-	1,897	-	-	-	8,801
				-	96,382	-	39,187,769	-	71,681,039	-	-	-	805,712
				124,848,786	6,557,369	189,562	1,398,524,792	123,661,728	623,003,924	215,112,120	43,263,012	68,266,211	
				82,606,347	12,010,450	1,178,215	862,783,134	198,663,886	690,197,602	185,960	15,763,574	109,364,766	
				33,310	-	-	-	2,770,000	331,263	-	-	-	4,845
				5,165,058	106,560	1,669,071	4,485,722	63,281,605	19,323,560	70,621	224,980	563,841	
				227,249	86,991	13,649	143,362	7,501,186	1,982,500	-	-	-	125,848
				138,238	1,199,934	-	-	12,122,614	1,493,327	-	-	-	20,376
				<b>213,018,988</b>	<b>20,057,686</b>	<b>3,050,497</b>	<b>2,305,124,778</b>	<b>408,001,619</b>	<b>1,408,013,216</b>	<b>215,368,702</b>	<b>59,251,566</b>	<b>179,151,598</b>	
				41,185,990	710,095,981	3,687,166,667	-	-	-	-	-	-	



## ISO Study Assumptions

The following assumptions have been made in completing this analysis.

### 1. Devers-Mirage System

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

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

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

Substations affected EKWRA include:

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

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

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

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

### 4. Classification of Distribution Plant

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