

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>A. LOAD (PTO / CEC FORECASTS) <sup>1</sup></b>																						
<b>A1. BASE LOAD</b>																						
SCE	20,863	21,066	21,191	21,430	21,503	21,818	21,857	22,252	22,071	22,682	22,474	23,085	22,941	23,482	23,373	23,955	23,773	24,386	24,211	24,864	24,634	25,388
SDG&E	4,167	3,982	4,283	4,067	4,416	4,145	4,538	4,252	4,670	4,352	4,787	4,443	4,906	4,528	5,029	4,639	5,155	4,722	5,284	4,800	5,416	4,928
CITY OF PASADENA <sup>2</sup>	305	305	301	301	305	305	306	306	310	310	311	311	310	310	311	311	311	311	312	312	313	313
<b>TOTAL SOUTHERN CALIFORNIA BASE LOAD (ISO CONTROLLED GRID)</b>	<b>25,335</b>	<b>25,353</b>	<b>25,775</b>	<b>25,798</b>	<b>26,224</b>	<b>26,268</b>	<b>26,701</b>	<b>26,810</b>	<b>27,051</b>	<b>27,344</b>	<b>27,572</b>	<b>27,839</b>	<b>28,157</b>	<b>28,320</b>	<b>28,713</b>	<b>28,905</b>	<b>29,239</b>	<b>29,419</b>	<b>29,807</b>	<b>29,976</b>	<b>30,363</b>	<b>30,629</b>
<b>A2. BASE LOAD + 10% MORE</b>																						
SCE	22,949	23,173	23,310	23,573	23,653	24,000	24,043	24,477	24,278	24,950	24,721	25,394	25,235	25,830	25,710	26,351	26,150	26,825	26,632	27,350	27,097	27,927
SDG&E	4,584	4,380	4,711	4,474	4,858	4,560	4,992	4,677	5,137	4,787	5,266	4,887	5,397	4,981	5,532	5,103	5,671	5,194	5,812	5,280	5,958	5,421
CITY OF PASADENA	336	336	331	331	336	336	337	337	341	341	342	342	341	341	342	342	342	342	343	343	344	344
<b>TOTAL SOUTHERN CALIFORNIA BASE LOAD PLUS 10% MORE (ISO CONTROLLED GRID)</b>	<b>27,869</b>	<b>27,888</b>	<b>28,353</b>	<b>28,378</b>	<b>28,846</b>	<b>28,895</b>	<b>29,371</b>	<b>29,491</b>	<b>29,756</b>	<b>30,078</b>	<b>30,329</b>	<b>30,623</b>	<b>30,973</b>	<b>31,152</b>	<b>31,584</b>	<b>31,796</b>	<b>32,163</b>	<b>32,361</b>	<b>32,788</b>	<b>32,974</b>	<b>33,399</b>	<b>33,692</b>
<b>A3. BASE LOAD + 20% MORE <sup>27</sup></b>																						
SCE	25,036	25,279	25,429	25,716	25,804	26,182	26,228	26,702	26,485	27,218	26,969	27,702	27,529	28,178	28,048	28,746	28,528	29,263	29,053	29,837	29,561	30,466
SDG&E	5,000	4,778	5,140	4,880	5,299	4,974	5,446	5,102	5,604	5,222	5,744	5,332	5,887	5,434	6,035	5,567	6,186	5,666	6,341	5,760	6,499	5,914
CITY OF PASADENA	366	366	361	361	366	366	367	367	372	372	373	373	372	372	373	373	373	373	374	374	376	376
<b>TOTAL SOUTHERN CALIFORNIA BASE LOAD PLUS 20% MORE (ISO CONTROLLED GRID)</b>	<b>30,402</b>	<b>30,424</b>	<b>30,930</b>	<b>30,958</b>	<b>31,469</b>	<b>31,522</b>	<b>32,041</b>	<b>32,172</b>	<b>32,461</b>	<b>32,813</b>	<b>33,086</b>	<b>33,407</b>	<b>33,788</b>	<b>33,984</b>	<b>34,456</b>	<b>34,686</b>	<b>35,087</b>	<b>35,303</b>	<b>35,768</b>	<b>35,971</b>	<b>36,436</b>	<b>36,755</b>
<b>A4. BASE LOAD LESS 10%</b>																						
SCE	18,777	18,959	19,072	19,287	19,353	19,636	19,671	20,027	19,864	20,414	20,227	20,777	20,647	21,134	21,036	21,560	21,396	21,947	21,790	22,378	22,171	22,849
SDG&E	3,750	3,584	3,855	3,660	3,974	3,731	4,084	3,827	4,203	3,917	4,308	3,999	4,415	4,075	4,526	4,175	4,640	4,250	4,756	4,320	4,874	4,435
CITY OF PASADENA	275	275	271	271	275	275	275	275	279	279	280	280	279	279	280	280	280	280	281	281	282	282
<b>TOTAL SOUTHERN CALIFORNIA BASE LOAD LESS 10% (ISO CONTROLLED GRID)</b>	<b>22,802</b>	<b>22,818</b>	<b>23,198</b>	<b>23,218</b>	<b>23,602</b>	<b>23,641</b>	<b>24,031</b>	<b>24,129</b>	<b>24,346</b>	<b>24,610</b>	<b>24,815</b>	<b>25,055</b>	<b>25,341</b>	<b>25,488</b>	<b>25,842</b>	<b>26,015</b>	<b>26,315</b>	<b>26,477</b>	<b>26,826</b>	<b>26,978</b>	<b>27,327</b>	<b>27,566</b>
<b>A5. BASE LOAD LESS 20% <sup>27</sup></b>																						
SCE	16,690	16,853	16,953	17,144	17,202	17,454	17,486	17,802	17,657	18,146	17,979	18,468	18,353	18,786	18,698	19,164	19,018	19,509	19,369	19,891	19,707	20,310
SDG&E	3,334	3,186	3,426	3,254	3,533	3,316	3,630	3,402	3,736	3,482	3,830	3,554	3,925	3,622	4,023	3,711	4,124	3,778	4,227	3,840	4,333	3,942
CITY OF PASADENA	244	244	241	241	244	244	245	245	248	248	249	249	248	248	249	249	249	249	250	250	250	250
<b>TOTAL SOUTHERN CALIFORNIA BASE LOAD LESS 20% (ISO CONTROLLED GRID)</b>	<b>20,268</b>	<b>20,282</b>	<b>20,620</b>	<b>20,638</b>	<b>20,979</b>	<b>21,014</b>	<b>21,361</b>	<b>21,448</b>	<b>21,641</b>	<b>21,875</b>	<b>22,058</b>	<b>22,271</b>	<b>22,526</b>	<b>22,656</b>	<b>22,970</b>	<b>23,124</b>	<b>23,391</b>	<b>23,535</b>	<b>23,846</b>	<b>23,981</b>	<b>24,290</b>	<b>24,503</b>
<b>A6. AVERAGE SYSTEM LOAD <sup>28</sup></b>																						
SCE	13,272	N/A	13,485	N/A	13,688	N/A	13,919	N/A	14,058	N/A	14,320	N/A	14,623	N/A	14,904	N/A	15,164	N/A	15,449	N/A	16,300	N/A
SDG&E	2,269	N/A	2,328	N/A	2,392	N/A	2,453	N/A	2,520	N/A	2,583	N/A	2,647	N/A	2,713	N/A	2,781	N/A	2,851	N/A	2,922	N/A
CITY OF PASADENA <sup>2</sup>	198	N/A	196	N/A	198	N/A	199	N/A	202	N/A	202	N/A	202	N/A	202	N/A	202	N/A	203	N/A	203	N/A
<b>TOTAL SOUTHERN CALIFORNIA AVERAGE LOAD (ISO CONTROLLED GRID)</b>	<b>15,739</b>	<b>N/A</b>	<b>16,009</b>	<b>N/A</b>	<b>16,278</b>	<b>N/A</b>	<b>16,571</b>	<b>N/A</b>	<b>16,780</b>	<b>N/A</b>	<b>17,105</b>	<b>N/A</b>	<b>17,472</b>	<b>N/A</b>	<b>17,819</b>	<b>N/A</b>	<b>18,147</b>	<b>N/A</b>	<b>18,503</b>	<b>N/A</b>	<b>19,425</b>	<b>N/A</b>
<b>B. EXISTING GENERATION <sup>3</sup></b>																						
SCE <sup>4</sup> / SCE <sup>5</sup>	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960	19,020	19,960
SDG&E <sup>6</sup> / SDG&E <sup>5</sup>	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743	2,107	2,743
<b>SUBTOTAL - EXISTING GENERATION</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>	<b>21,127</b>	<b>22,703</b>

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>C. CUMULATIVE NEW GENERATION LOCATED IN SOUTHERN CALIFORNIA <sup>7</sup></b>																						
<b>C1. MAXIMUM GENERATION LEVELS <sup>8,9</sup></b>																						
SCE	1,507	1,507	5,333	3,720	11,391	7,725	14,146	9,180	14,146	14,083	14,146	14,083	14,146	14,083	14,146	14,083	14,146	14,083	14,146	14,083	14,146	14,083
SDG&E	796	1,267	1,779	2,710	2,429	5,075	4,600	5,830	4,600	6,380	4,600	6,380	4,600	6,380	4,600	6,380	4,600	6,380	4,600	6,380	4,600	6,380
<i>SUBTOTAL MAXIMUM CUMULATIVE INTERNAL GENERATION - SOUTHERN CALIFORNIA</i>	<i>2,303</i>	<i>2,774</i>	<i>7,112</i>	<i>6,430</i>	<i>13,820</i>	<i>12,800</i>	<i>18,746</i>	<i>15,010</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>	<i>18,746</i>	<i>20,463</i>
<b>C2. MEDIUM GENERATION LEVELS <sup>10</sup></b>																						
SCE	1,267	1,267	2,710	2,710	5,075	5,075	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830	5,830
SDG&E	147	147	147	147	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657	657
<i>SUBTOTAL MEDIUM CUMULATIVE INTERNAL GENERATION - SOUTHERN CALIFORNIA</i>	<i>1,414</i>	<i>1,414</i>	<i>2,857</i>	<i>2,857</i>	<i>5,732</i>	<i>5,732</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>	<i>6,487</i>
<b>C3. LOW GENERATION LEVELS <sup>29</sup></b>																						
SCE	637	637	2,080	2,080	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445	4,445
SDG&E	90	90	90	90	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
<i>SUBTOTAL MAXIMUM CUMULATIVE INTERNAL GENERATION - SOUTHERN CALIFORNIA</i>	<i>727</i>	<i>727</i>	<i>2,170</i>	<i>2,170</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>	<i>5,045</i>
<b>C4. VERY LOW GENERATION LEVELS <sup>30</sup></b> (Similar to the generation scenario of the Southern California Long-Term Transmission Study)																						
SCE	0	0	0	0	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
SDG&E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>SUBTOTAL MAXIMUM CUMULATIVE INTERNAL GENERATION - SOUTHERN CALIFORNIA</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>	<i>720</i>
<b>D. CUMULATIVE NEW GENERATION LOCATED OUTSIDE OF CALIFORNIA <sup>7</sup></b>																						
<b>D1. MAXIMUM CUMULATIVE GENERATION LEVELS TRACKED BY THE CEC <sup>11</sup> (FOR REFERENCE ONLY)</b>																						
ARIZONA	1,685	1,685	6,645	6,645	9,185	9,185	10,535	10,535	12,820	12,820	13,350	13,350	17,730	17,730	17,730	17,730	17,730	17,730	17,730	17,730	17,730	17,730
NEVADA	0	0	180	180	3,620	3,620	4,620	4,620	4,620	4,620	4,620	4,620	6,020	6,020	6,020	6,020	6,020	6,020	6,020	6,020	6,020	6,020
MEXICO	0	640	0	640	1,950	2,005	1,950	2,005	2,550	2,005	2,550	2,005	2,550	2,302	2,550	2,302	2,550	2,302	2,550	2,302	2,550	2,302
<i>SUBTOTAL MAXIMUM CUMULATIVE EXTERNAL GENERATION</i>	<i>1,685</i>	<i>2,325</i>	<i>N/A</i>	<i>7,465</i>	<i>N/A</i>	<i>14,810</i>	<i>N/A</i>	<i>17,160</i>	<i>N/A</i>	<i>19,445</i>	<i>N/A</i>	<i>19,975</i>	<i>N/A</i>	<i>26,052</i>	<i>N/A</i>	<i>26,052</i>	<i>N/A</i>	<i>26,052</i>	<i>N/A</i>	<i>26,052</i>	<i>N/A</i>	<i>26,052</i>
<b>D2. POTENTIAL MAXIMUM CUMULATIVE GENERATION LEVELS AVAILABLE TO SOUTHERN CALIFORNIA <sup>12</sup></b>																						
ARIZONA	843	843	3,323	3,323	4,593	4,593	5,268	5,268	6,410	6,410	6,675	6,675	8,865	8,865	8,865	8,865	8,865	8,865	8,865	8,865	8,865	8,865
NEVADA	0	0	90	90	1,810	1,810	2,310	2,310	2,310	2,310	2,310	2,310	3,010	3,010	3,010	3,010	3,010	3,010	3,010	3,010	3,010	3,010
MEXICO	0	640	0	640	1,950	2,005	1,950	2,005	2,550	2,005	2,550	2,005	2,550	2,302	2,550	2,302	2,550	2,302	2,550	2,302	2,550	2,302
<i>SUBTOTAL MAXIMUM CUMULATIVE EXTERNAL GENERATION AVAILABLE TO S. CALIFORNIA</i>	<i>843</i>	<i>1,483</i>	<i>3,413</i>	<i>4,053</i>	<i>8,353</i>	<i>8,408</i>	<i>9,528</i>	<i>9,583</i>	<i>11,270</i>	<i>10,725</i>	<i>11,535</i>	<i>10,990</i>	<i>14,425</i>	<i>14,177</i>	<i>14,425</i>	<i>14,177</i>	<i>14,425</i>	<i>14,177</i>	<i>14,425</i>	<i>14,177</i>	<i>14,425</i>	<i>14,177</i>
<b>D3. MEDIUM CUMULATIVE EXTERNAL GENERATION LEVELS AVAILABLE TO SOUTHERN CALIFORNIA <sup>13</sup></b>																						

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	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
ARIZONA	337	337	1,329	1,329	1,837	1,837	2,107	2,107	2,564	2,564	2,670	2,670	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546	3,546
NEVADA	0	0	36	36	724	724	924	924	924	924	924	924	1,204	1,204	1,204	1,204	1,204	1,204	1,204	1,204	1,204	1,204
MEXICO	0	128	0	128	390	401	390	401	510	401	510	401	510	460	510	460	510	460	510	460	510	460
<i>SUBTOTAL MEDIUM CUMULATIVE EXTERNAL GENERATION AVAILABLE TO S. CALIFORNIA</i>	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
<b>E. REQUIRED MINIMUM RESOURCES TO SERVE SOUTHERN CALIFORNIA LOAD (ISO CONTROLLED GRID) &amp; TO MAINTAIN OPERATING RESERVE REQUIREMENT</b>																						
<b>E1. BASE LOAD CASE</b>																						
BASE LOAD (A1) + 7% MORC <sup>14</sup>	27,108	27,128	27,579	27,604	28,060	28,107	28,570	28,687	28,945	29,258	29,502	29,788	30,128	30,302	30,723	30,928	31,286	31,478	31,893	32,074	32,488	32,773
<b>E2. PLUS 10% LOAD CASE</b>																						
PLUS 10% LOAD (A2) + 7% MORC <sup>14</sup>	29,819	29,840	30,337	30,364	30,866	30,917	31,427	31,555	31,839	32,184	32,452	32,767	33,141	33,333	33,795	34,021	34,414	34,626	35,083	35,282	35,737	36,050
<b>E3. PLUS 20% LOAD CASE</b>																						
PLUS 20% LOAD (A3) + 7% MORC <sup>14</sup>	32,530	32,553	33,095	33,125	33,672	33,728	34,284	34,424	34,733	35,110	35,402	35,745	36,154	36,363	36,867	37,114	37,543	37,774	38,272	38,489	38,986	39,328
<b>E4. MINUS 10% LOAD CASE</b>																						
LESS 10% LOAD (A4) + 7% MORC <sup>14</sup>	24,398	24,415	24,821	24,843	25,254	25,296	25,713	25,818	26,050	26,332	26,552	26,809	27,115	27,272	27,651	27,836	28,157	28,330	28,704	28,867	29,240	29,496
<b>E5. MINUS 20% LOAD CASE</b>																						
LESS 20% LOAD (A5) + 7% MORC <sup>14</sup>	21,687	21,702	22,063	22,083	22,448	22,485	22,856	22,949	23,156	23,406	23,602	23,830	24,102	24,242	24,578	24,743	25,029	25,183	25,515	25,659	25,991	26,218
<b>E6. AVERAGE LOAD CASE</b>																						
AVERAGE LOAD (A6) + 7% MORC <sup>14</sup>	16,841	N/A	17,129	N/A	17,418	N/A	17,731	N/A	17,954	N/A	18,303	N/A	18,695	N/A	19,066	N/A	19,417	N/A	19,798	N/A	20,785	N/A
<b>F. PROJECTED AVAILABLE RESOURCES (EXISTING + NEW SOUTHERN CALIFORNIA GENERATION DEVELOPMENTS) TO SERVE SOUTHERN CALIFORNIA LOAD (ISO CONTROLLED GRID)</b>																						
<b>F1. MAXIMUM NEW SOUTHERN CALIFORNIA GENERATION SCENARIO</b>																						
1. Existing Generation (B)	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703
2. Allowance for Outages <sup>15</sup>	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150
3. New Generation Addition (C1) <sup>19</sup>	2,303	2,774	7,112	6,430	13,820	12,800	18,746	15,010	18,746	20,463	18,746	20,463	18,746	20,463	18,746	20,463	18,746	20,463	18,746	20,463	18,746	20,463
4. California Controlled Out-of-State Resources <sup>16</sup>	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833
5. Firm Imports <sup>17</sup>	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053
6. Firm Exports <sup>18</sup>	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725
7. Additional Generation Outages <sup>37</sup>	-2,316	-2,316	-2,316	-2,316	-2,241	-2,241	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990
8. Generation Retirement <sup>38</sup>	0	0	0	0	-504	-504	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117
<i>SUBTOTAL - PROJECTED AVAILABLE RESOURCES FOR SERVING SOUTHERN CALIFORNIA (ISO CONTROLLED GRID)</i>	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>F2. MEDIUM NEW SOUTHERN CALIFORNIA GENERATION SCENARIO</b>																						
1. Existing Generation (B)	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703
2. Allowance for Outages <sup>15</sup>	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150
3. New Generation Addition (C2) <sup>19</sup>	1,414	1,414	2,857	2,857	5,732	5,732	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487	6,487
4. California Controlled Out-of-State Resources <sup>16</sup>	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833
5. Firm Imports <sup>17</sup>	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053
6. Firm Exports <sup>18</sup>	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725
7. Additional Generation Outages <sup>37</sup>	-2,316	-2,316	-2,316	-2,316	-2,241	-2,241	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990
8. Generation Retirement <sup>38</sup>	0	0	0	0	-504	-504	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117
<i>SUBTOTAL - PROJECTED AVAILABLE RESOURCES FOR SERVING SOUTHERN CALIFORNIA (ISO CONTROLLED GRID)</i>	<i>22,236</i>	<i>23,812</i>	<i>23,679</i>	<i>25,255</i>	<i>26,125</i>	<i>27,701</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>	<i>25,518</i>	<i>27,094</i>
<b>F3. LOW NEW SOUTHERN CALIFORNIA GENERATION SCENARIO <sup>27</sup></b>																						
1. Existing Generation (B)	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703
2. Allowance for Outages <sup>15</sup>	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150
3. New Generation Addition (C3) <sup>19</sup>	727	727	2,170	2,170	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045	5,045
4. California Controlled Out-of-State Resources <sup>16</sup>	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833
5. Firm Imports <sup>17</sup>	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053
6. Firm Exports <sup>18</sup>	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725
7. Additional Generation Outages <sup>37</sup>	-2,316	-2,316	-2,316	-2,316	-2,241	-2,241	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990
8. Generation Retirement <sup>38</sup>	0	0	0	0	-504	-504	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117
<i>SUBTOTAL - PROJECTED AVAILABLE RESOURCES FOR SERVING SOUTHERN CALIFORNIA (ISO CONTROLLED GRID)</i>	<i>21,549</i>	<i>23,125</i>	<i>22,992</i>	<i>24,568</i>	<i>25,438</i>	<i>27,014</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>	<i>24,076</i>	<i>25,652</i>
<b>F4. VERY LOW NEW SOUTHERN CALIFORNIA GENERATION SCENARIO <sup>27</sup></b>																						
1. Existing Generation (B)	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703	21,127	22,703
2. Allowance for Outages <sup>15</sup>	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150	-1,150
3. New Generation Addition (C4) <sup>19</sup>	0	0	0	0	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720
4. California Controlled Out-of-State Resources <sup>16</sup>	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833	1,833
5. Firm Imports <sup>17</sup>	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053	2,053
6. Firm Exports <sup>18</sup>	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725	-725
7. Additional Generation Outages <sup>37</sup>	-2,316	-2,316	-2,316	-2,316	-2,241	-2,241	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990	-1,990
8. Generation Retirement <sup>38</sup>	0	0	0	0	-504	-504	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117	-2,117
<i>SUBTOTAL - PROJECTED AVAILABLE RESOURCES FOR SERVING SOUTHERN CALIFORNIA (ISO CONTROLLED GRID)</i>	<i>20,822</i>	<i>22,398</i>	<i>20,822</i>	<i>22,398</i>	<i>21,113</i>	<i>22,689</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>	<i>19,751</i>	<i>21,327</i>
<b>G. PROJECTED IMPORT NEED <sup>20</sup></b>																						
<b>G1. MAXIMUM INTERNAL GENERATION SCENARIO</b>																						

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>G1.1. BASE LOAD CASE</b>																						
REQUIRED RESOURCES (E1)	27,108	27,128	27,579	27,604	28,060	28,107	28,570	28,687	28,945	29,258	29,502	29,788	30,128	30,302	30,723	30,928	31,286	31,478	31,893	32,074	32,488	32,773
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-3,983	-1,956	355	1,224	6,153	6,662	9,207	6,930	8,832	11,812	8,275	11,282	7,649	10,768	7,054	10,142	6,491	9,592	5,884	8,996	5,289	8,297
<b>G1.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED RESOURCES (E2)	29,819	29,840	30,337	30,364	30,866	30,917	31,427	31,555	31,839	32,184	32,452	32,767	33,141	33,333	33,795	34,021	34,414	34,626	35,083	35,282	35,737	36,050
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-6,694	-4,668	-2,403	-1,536	3,347	3,852	6,350	4,062	5,938	8,886	5,325	8,303	4,636	7,737	3,982	7,049	3,363	6,444	2,694	5,788	2,040	5,020
<b>G1.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED RESOURCES (E3)	32,530	32,553	33,095	33,125	33,672	33,728	34,284	34,424	34,733	35,110	35,402	35,745	36,154	36,363	36,867	37,114	37,543	37,774	38,272	38,489	38,986	39,328
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-9,405	-7,381	-5,161	-4,297	541	1,041	3,493	1,193	3,044	5,960	2,375	5,325	1,623	4,707	910	3,956	234	3,296	-495	2,581	-1,209	1,742
<b>G1.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED RESOURCES (E4)	24,398	24,415	24,821	24,843	25,254	25,296	25,713	25,818	26,050	26,332	26,552	26,809	27,115	27,272	27,651	27,836	28,157	28,330	28,704	28,867	29,240	29,496
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-1,273	757	3,113	3,985	8,959	9,473	12,064	9,799	11,727	14,738	11,225	14,261	10,662	13,798	10,126	13,234	9,620	12,740	9,073	12,203	8,537	11,574
<b>G1.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED RESOURCES (E5)	21,687	21,702	22,063	22,083	22,448	22,485	22,856	22,949	23,156	23,406	23,602	23,830	24,102	24,242	24,578	24,743	25,029	25,183	25,515	25,659	25,991	26,218
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	1,438	3,470	5,871	6,745	11,765	12,284	14,921	12,668	14,621	17,664	14,175	17,240	13,675	16,828	13,199	16,327	12,748	15,887	12,262	15,411	11,786	14,852
<b>G1.6. AVERAGE LOAD CASE</b>																						
REQUIRED RESOURCES (E6)	16,841	N/A	17,129	N/A	17,418	N/A	17,731	N/A	17,954	N/A	18,303	N/A	18,695	N/A	19,066	N/A	19,417	N/A	19,798	N/A	20,785	N/A
AVAILABLE RESOURCES (F1)	23,125	25,172	27,934	28,828	34,213	34,769	37,777	35,617	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070	37,777	41,070
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	6,284	N/A	10,805	N/A	16,795	N/A	20,046	N/A	19,823	N/A	19,474	N/A	19,082	N/A	18,711	N/A	18,360	N/A	17,979	N/A	16,992	N/A
<b>G2. MEDIUM INTERNAL GENERATION SCENARIO</b>																						
<b>G2.1. BASE LOAD CASE</b>																						
REQUIRED RESOURCES (E1)	27,108	27,128	27,579	27,604	28,060	28,107	28,570	28,687	28,945	29,258	29,502	29,788	30,128	30,302	30,723	30,928	31,286	31,478	31,893	32,074	32,488	32,773
AVAILABLE RESOURCES (F2)	22,236	23,812	23,679	25,255	26,125	27,701	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-4,872	-3,316	-3,900	-2,349	-1,935	-406	-3,052	-1,593	-3,427	-2,164	-3,984	-2,694	-4,610	-3,208	-5,205	-3,834	-5,768	-4,384	-6,375	-4,980	-6,970	-5,679
<b>G2.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED RESOURCES (E2)	29,819	29,840	30,337	30,364	30,866	30,917	31,427	31,555	31,839	32,184	32,452	32,767	33,141	33,333	33,795	34,021	34,414	34,626	35,083	35,282	35,737	36,050
AVAILABLE RESOURCES (F2)	22,236	23,812	23,679	25,255	26,125	27,701	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-7,583	-6,028	-6,658	-5,109	-4,741	-3,216	-5,909	-4,461	-6,321	-5,090	-6,934	-5,673	-7,623	-6,239	-8,277	-6,927	-8,896	-7,532	-9,565	-8,188	-10,219	-8,956
<b>G2.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED RESOURCES (E3)	32,530	32,553	33,095	33,125	33,672	33,728	34,284	34,424	34,733	35,110	35,402	35,745	36,154	36,363	36,867	37,114	37,543	37,774	38,272	38,489	38,986	39,328
AVAILABLE RESOURCES (F2)	22,236	23,812	23,679	25,255	26,125	27,701	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094
<i>REQUIRED / AVAILABLE RESOURCES <sup>20</sup></i>	-10,294	-8,741	-9,416	-7,870	-7,547	-6,027	-8,766	-7,330	-9,215	-8,016	-9,884	-8,651	-10,636	-9,269	-11,349	-10,020	-12,025	-10,680	-12,754	-11,395	-13,468	-12,234
<b>G2.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED RESOURCES (E4)	24,398	24,415	24,821	24,843	25,254	25,296	25,713	25,818	26,050	26,332	26,552	26,809	27,115	27,272	27,651	27,836	28,157	28,330	28,704	28,867	29,240	29,496
AVAILABLE RESOURCES (F2)	22,236	23,812	23,679	25,255	26,125	27,701	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094	25,518	27,094



**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>G4.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED RESOURCES (E2)	29,819	29,840	30,337	30,364	30,866	30,917	31,427	31,555	31,839	32,184	32,452	32,767	33,141	33,333	33,795	34,021	34,414	34,626	35,083	35,282	35,737	36,050
AVAILABLE RESOURCES (F4)	20,822	22,398	20,822	22,398	21,113	22,689	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327
<i>REQUIRED / AVAILABLE RESOURCES</i> <sup>20</sup>	-8,997	-7,442	-9,515	-7,966	-9,753	-8,228	-11,676	-10,228	-12,088	-10,857	-12,701	-11,440	-13,390	-12,006	-14,044	-12,694	-14,663	-13,299	-15,332	-13,955	-15,986	-14,723
<b>G4.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED RESOURCES (E3)	32,530	32,553	33,095	33,125	33,672	33,728	34,284	34,424	34,733	35,110	35,402	35,745	36,154	36,363	36,867	37,114	37,543	37,774	38,272	38,489	38,986	39,328
AVAILABLE RESOURCES (F4)	20,822	22,398	20,822	22,398	21,113	22,689	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327
<i>REQUIRED / AVAILABLE RESOURCES</i> <sup>20</sup>	-11,708	-10,155	-12,273	-10,727	-12,559	-11,039	-14,533	-13,097	-14,982	-13,783	-15,651	-14,418	-16,403	-15,036	-17,116	-15,787	-17,792	-16,447	-18,521	-17,162	-19,235	-18,001
<b>G4.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED RESOURCES (E4)	24,398	24,415	24,821	24,843	25,254	25,296	25,713	25,818	26,050	26,332	26,552	26,809	27,115	27,272	27,651	27,836	28,157	28,330	28,704	28,867	29,240	29,496
AVAILABLE RESOURCES (F4)	20,822	22,398	20,822	22,398	21,113	22,689	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327
<i>REQUIRED / AVAILABLE RESOURCES</i> <sup>20</sup>	-3,576	-2,017	-3,999	-2,445	-4,141	-2,607	-5,962	-4,491	-6,299	-5,005	-6,801	-5,482	-7,364	-5,945	-7,900	-6,509	-8,406	-7,003	-8,953	-7,540	-9,489	-8,169
<b>G4.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED RESOURCES (E5)	21,687	21,702	22,063	22,083	22,448	22,485	22,856	22,949	23,156	23,406	23,602	23,830	24,102	24,242	24,578	24,743	25,029	25,183	25,515	25,659	25,991	26,218
AVAILABLE RESOURCES (F4)	20,822	22,398	20,822	22,398	21,113	22,689	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327
<i>REQUIRED / AVAILABLE RESOURCES</i> <sup>20</sup>	-865	696	-1,241	315	-1,335	204	-3,105	-1,622	-3,405	-2,079	-3,851	-2,503	-4,351	-2,915	-4,827	-3,416	-5,278	-3,856	-5,764	-4,332	-6,240	-4,891
<b>G4.6. AVERAGE LOAD CASE</b>																						
REQUIRED RESOURCES (E6)	16,841	N/A	17,129	N/A	17,418	N/A	17,731	N/A	17,954	N/A	18,303	N/A	18,695	N/A	19,066	N/A	19,417	N/A	19,798	N/A	20,785	N/A
AVAILABLE RESOURCES (F4)	20,822	22,398	20,822	22,398	21,113	22,689	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327	19,751	21,327
<i>REQUIRED / AVAILABLE RESOURCES</i> <sup>20</sup>	3,981	N/A	3,693	N/A	3,695	N/A	2,020	N/A	1,797	N/A	1,448	N/A	1,056	N/A	685	N/A	334	N/A	-47	N/A	-1,034	N/A
<b>H. PROJECTED AVAILABLE MARKET IMPORTS TO SOUTHERN CALIFORNIA (ISO CONTROLLED GRID)</b> <sup>21</sup>																						
<b>H1. MAXIMUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION (D2) SCENARIO</b>																						
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
NEW POTENTIAL CUMULATIVE MARKET IMPORTS (D2) <sup>21</sup>	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
<i>SUBTOTAL POTENTIAL MAXIMUM AVAILABLE IMPORTS</i>	2,861	3,501	5,431	6,071	10,371	10,426	11,546	11,601	13,288	12,743	13,553	13,008	16,443	16,195	16,443	16,195	16,443	16,195	16,443	16,195	16,443	16,195
<b>H2. MEDIUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION (D3) SCENARIO</b>																						
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
NEW POTENTIAL CUMULATIVE MARKET IMPORTS (D3) <sup>21</sup>	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
<i>SUBTOTAL POTENTIAL MAXIMUM AVAILABLE IMPORTS</i>	2,355	2,483	3,383	3,511	4,969	4,980	5,439	5,450	6,016	5,907	6,122	6,013	7,278	7,228	7,278	7,228	7,278	7,228	7,278	7,228	7,278	7,228
<b>I. EXISTING AVAILABLE TRANSMISSION IMPORT CAPABILITY FOR HIGH, MEDIUM AND LOW INTERNAL GENERATION ADDITION SCENARIOS</b> <sup>23, 24, 33</sup>																						
I1.1. S. CALIFORNIA - ARIZONA <sup>23</sup>	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160	2,160
I1.2. S. CALIFORNIA - NEVADA <sup>23</sup>	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376	2,376
I1.3. S. CALIFORNIA - MEXICO <sup>23, 38</sup>	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408	408
I1.4. N. CA - S. CA <sup>23</sup>	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375	2,375
<i>SUBTOTAL</i>	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>I2. EXISTING AVAILABLE TRANSMISSION IMPORT CAPABILITY FOR VERY LOW INTERNAL GENERATION ADDITION</b>																						
<b>SCENARIO</b> <sup>23, 24, 34</sup>																						
I2.1. EXISTING IMPORT CAPABILITY	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
I2.2. IMPORT CAPABILITY WITH BASE LOAD SCENARIO	6,967	6,963	6,608	6,587	6,226	6,153	5,946	5,726	5,529	5,330	5,061	4,945	4,617	4,477	4,196	4,066	3,741	3,621	3,297	3,098	3,297	3,098
I2.3. IMPORT CAPABILITY WITH 10% MORE LOAD SCENARIO	6,932	6,927	6,537	6,514	6,117	6,037	5,809	5,567	5,350	5,131	4,836	4,708	4,346	4,193	3,883	3,741	3,384	3,251	2,894	2,676	2,894	2,676
I2.4. IMPORT CAPABILITY WITH 20% MORE LOAD SCENARIO	6,897	6,892	6,466	6,441	6,008	5,920	5,672	5,408	5,171	4,932	4,610	4,471	4,076	3,909	3,571	3,416	3,026	2,881	2,492	2,254	2,492	2,254
<b>J. CAPACITY / DEFICIENCY OF EXISTING IMPORT LINES</b> <sup>25</sup> <b>BASED ON RELIABILITY ASSESSMENT</b> <sup>31</sup>																						
<b>J1. MAXIMUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND MAXIMUM INTERNAL GENERATION SCENARIO</b>																						
<b>J1.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.1)	-3,983	-1,956	355	1,224	6,153	6,662	9,207	6,930	8,832	11,812	8,275	11,282	7,649	10,768	7,054	10,142	6,491	9,592	5,884	8,996	5,289	8,297
EXISTING AVAILABLE IMPORTS <sup>22</sup> (H)	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-1,965	62	2,373	3,242	8,171	8,680	11,225	8,948	10,850	13,830	10,293	13,300	9,667	12,786	9,072	12,160	8,509	11,610	7,902	11,014	7,307	10,315
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the required market imports in 2001. However, there appears to be insufficient external resources in 2001. From 2002 - 2011, there are sufficient internal resources to serve load</i> <sup>26</sup> .																						
<b>J1.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.2)	-6,694	-4,668	-2,403	-1,536	3,347	3,852	6,350	4,062	5,938	8,886	5,325	8,303	4,636	7,737	3,982	7,049	3,363	6,444	2,694	5,788	2,040	5,020
EXISTING AVAILABLE IMPORTS <sup>22</sup> (H)	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-4,676	-2,650	-385	482	5,365	5,870	8,368	6,080	7,956	10,904	7,343	10,321	6,654	9,755	6,000	9,067	5,381	8,462	4,712	7,806	4,058	7,038
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the required market imports in 2001-02. However, there appears to be insufficient market imports in 2001. From 2003 - 2011, there are sufficient internal resources to serve load</i> <sup>26</sup> .																						
<b>J1.3. BASE LOAD PLUS 20% CASE</b>																						



**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.3)	-9,405	-7,381	-5,161	-4,297	541	1,041	3,493	1,193	3,044	5,960	2,375	5,325	1,623	4,707	910	3,956	234	3,296	-495	2,581	-1,209	1,742
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-7,387	-5,363	-3,143	-2,279	2,559	3,059	5,511	3,211	5,062	7,978	4,393	7,343	3,641	6,725	2,928	5,974	2,252	5,314	1,523	4,599	809	3,760
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in the required market imports in 2001, but adequate for 2002. There appears to be insufficient external resources in 2001, but adequate in 2002. From 2003 - 2011, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J1.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.4)	-1,273	757	3,113	3,985	8,959	9,473	12,064	9,799	11,727	14,738	11,225	14,261	10,662	13,798	10,126	13,234	9,620	12,740	9,073	12,203	8,537	11,574
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	745	2,775	5,131	6,003	10,977	11,491	14,082	11,817	13,745	16,756	13,243	16,279	12,680	15,816	12,144	15,252	11,638	14,758	11,091	14,221	10,555	13,592
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J1.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.5)	1,438	3,470	5,871	6,745	11,765	12,284	14,921	12,668	14,621	17,664	14,175	17,240	13,675	16,828	13,199	16,327	12,748	15,887	12,262	15,411	11,786	14,852
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	3,456	5,488	7,889	8,763	13,783	14,302	16,939	14,686	16,639	19,682	16,193	19,258	15,693	18,846	15,217	18,345	14,766	17,905	14,280	17,429	13,804	16,870
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J1.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.6)	6,284	N/A	10,805	N/A	16,795	N/A	20,046	N/A	19,823	N/A	19,474	N/A	19,082	N/A	18,711	N/A	18,360	N/A	17,979	N/A	16,992	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	8,302	2,018	12,823	2,018	18,813	2,018	22,064	2,018	21,841	2,018	21,492	2,018	21,100	2,018	20,729	2,018	20,378	2,018	19,997	2,018	19,010	2,018
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J2. MAXIMUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND MEDIUM INTERNAL GENERATION SCENARIO</b>																						
<b>J2.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.1)	-4,872	-3,316	-3,900	-2,349	-1,935	-406	-3,052	-1,593	-3,427	-2,164	-3,984	-2,694	-4,610	-3,208	-5,205	-3,834	-5,768	-4,384	-6,375	-4,980	-6,970	-5,679
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-2,854	-1,298	-1,882	-331	83	1,612	-1,034	425	-1,409	-146	-1,966	-676	-2,592	-1,190	-3,187	-1,816	-3,750	-2,366	-4,357	-2,962	-4,952	-3,661
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	A	A	A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the required market imports from 2001-2011. There appears to be insufficient external resources in 2001 <sup>26</sup>.</i>																						
<b>J2.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.2)	-7,583	-6,028	-6,658	-5,109	-4,741	-3,216	-5,909	-4,461	-6,321	-5,090	-6,934	-5,673	-7,623	-6,239	-8,277	-6,927	-8,896	-7,532	-9,565	-8,188	-10,219	-8,956
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-5,565	-4,010	-4,640	-3,091	-2,723	-1,198	-3,891	-2,443	-4,303	-3,072	-4,916	-3,655	-5,605	-4,221	-6,259	-4,909	-6,878	-5,514	-7,547	-6,170	-8,201	-6,938
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the required market imports from 2001-2009. New transmission intertie line may be needed by 2010. For 2001 - 2002, there appears insufficient external resources <sup>26</sup>.</i>																						
<b>J2.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.3)	-10,294	-8,741	-9,416	-7,870	-7,547	-6,027	-8,766	-7,330	-9,215	-8,016	-9,884	-8,651	-10,636	-9,269	-11,349	-10,020	-12,025	-10,680	-12,754	-11,395	-13,468	-12,234
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-8,276	-6,723	-7,398	-5,852	-5,529	-4,009	-6,748	-5,312	-7,197	-5,998	-7,866	-6,633	-8,618	-7,251	-9,331	-8,002	-10,007	-8,662	-10,736	-9,377	-11,450	-10,216
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	D	A	A	A	A	A	A	A	D	A	D	A	D	D	D	D	D	D	D	D

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in imports for 2001 - 2002, and for 2006 - 2011 time frame. However, there appears to be insufficient external resources in 2001-2002. From 2003 - 2005, there are sufficient external resources and adequate transmission system to serve load <sup>26</sup>.</i>																						
<b>J2.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.4)	-2,162	-603	-1,142	412	871	2,405	-195	1,276	-532	762	-1,034	285	-1,597	-178	-2,133	-742	-2,639	-1,236	-3,186	-1,773	-3,722	-2,402
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-144	1,415	876	2,430	2,889	4,423	1,823	3,294	1,486	2,780	984	2,303	421	1,840	-115	1,276	-621	782	-1,168	245	-1,704	-384
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	N/A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	N/A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001 and from 2008 - 2011. From 2002 - 2007, there are adequate internal resources to serve load <sup>26</sup>.</i>																						
<b>J2.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.5)	549	2,110	1,616	3,172	3,677	5,216	2,662	4,145	2,362	3,688	1,916	3,264	1,416	2,852	940	2,351	489	1,911	3	1,435	-473	876
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	2,567	4,128	3,634	5,190	5,695	7,234	4,680	6,163	4,380	5,706	3,934	5,282	3,434	4,870	2,958	4,369	2,507	3,929	2,021	3,453	1,545	2,894
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J2.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.6)	5,395	N/A	6,550	N/A	8,707	N/A	7,787	N/A	7,564	N/A	7,215	N/A	6,823	N/A	6,452	N/A	6,101	N/A	5,720	N/A	4,733	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	7,413	2,018	8,568	2,018	10,725	2,018	9,805	2,018	9,582	2,018	9,233	2,018	8,841	2,018	8,470	2,018	8,119	2,018	7,738	2,018	6,751	2,018
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J3. MEDIUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND MAXIMUM INTERNAL GENERATION SCENARIO</b>																						
<b>J3.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.1)	-3,983	-1,956	355	1,224	6,153	6,662	9,207	6,930	8,832	11,812	8,275	11,282	7,649	10,768	7,054	10,142	6,491	9,592	5,884	8,996	5,289	8,297
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-1,965	62	2,373	3,242	8,171	8,680	11,225	8,948	10,850	13,830	10,293	13,300	9,667	12,786	9,072	12,160	8,509	11,610	7,902	11,014	7,307	10,315
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001. However, there appears to be insufficient external resources in 2001. From 2002 - 2011, there are adequate internal resources to serve load <sup>26</sup>.</i>																						
<b>J3.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.2)	-6,694	-4,668	-2,403	-1,536	3,347	3,852	6,350	4,062	5,938	8,886	5,325	8,303	4,636	7,737	3,982	7,049	3,363	6,444	2,694	5,788	2,040	5,020
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-4,676	-2,650	-385	482	5,365	5,870	8,368	6,080	7,956	10,904	7,343	10,321	6,654	9,755	6,000	9,067	5,381	8,462	4,712	7,806	4,058	7,038
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001-02. However, there appears to be insufficient external resources in 2001. From 2003 - 2011, there are adequate internal resources to serve load <sup>26</sup>.</i>																						
<b>J3.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.3)	-9,405	-7,381	-5,161	-4,297	541	1,041	3,493	1,193	3,044	5,960	2,375	5,325	1,623	4,707	910	3,956	234	3,296	-495	2,581	-1,209	1,742
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-7,387	-5,363	-3,143	-2,279	2,559	3,059	5,511	3,211	5,062	7,978	4,393	7,343	3,641	6,725	2,928	5,974	2,252	5,314	1,523	4,599	809	3,760
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	A	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in imports for 2001, but is adequate in 2002. However, there appears to be insufficient external resources in 2001 and 2002. From 2003 - 2011, there are adequate internal resources to serve load <sup>26</sup>.</i>																						
<b>J3.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.4)	-1,273	757	3,113	3,985	8,959	9,473	12,064	9,799	11,727	14,738	11,225	14,261	10,662	13,798	10,126	13,234	9,620	12,740	9,073	12,203	8,537	11,574
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	745	2,775	5,131	6,003	10,977	11,491	14,082	11,817	13,745	16,756	13,243	16,279	12,680	15,816	12,144	15,252	11,638	14,758	11,091	14,221	10,555	13,592
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J3.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.5)	1,438	3,470	5,871	6,745	11,765	12,284	14,921	12,668	14,621	17,664	14,175	17,240	13,675	16,828	13,199	16,327	12,748	15,887	12,262	15,411	11,786	14,852
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	3,456	5,488	7,889	8,763	13,783	14,302	16,939	14,686	16,639	19,682	16,193	19,258	15,693	18,846	15,217	18,345	14,766	17,905	14,280	17,429	13,804	16,870
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J3.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G1.6)	6,284	N/A	10,805	N/A	16,795	N/A	20,046	N/A	19,823	N/A	19,474	N/A	19,082	N/A	18,711	N/A	18,360	N/A	17,979	N/A	16,992	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	8,302	2,018	12,823	2,018	18,813	2,018	22,064	2,018	21,841	2,018	21,492	2,018	21,100	2,018	20,729	2,018	20,378	2,018	19,997	2,018	19,010	2,018
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J4. MEDIUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND MEDIUM INTERNAL GENERATION SCENARIO</b>																						

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>J4.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.1)	-4,872	-3,316	-3,900	-2,349	-1,935	-406	-3,052	-1,593	-3,427	-2,164	-3,984	-2,694	-4,610	-3,208	-5,205	-3,834	-5,768	-4,384	-6,375	-4,980	-6,970	-5,679
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-2,854	-1,298	-1,882	-331	83	1,612	-1,034	425	-1,409	-146	-1,966	-676	-2,592	-1,190	-3,187	-1,816	-3,750	-2,366	-4,357	-2,962	-4,952	-3,661
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001-2002, 2004-2011. However, it appears that there are insufficient external resources in 2001-2002. There are adequate internal resources to serve load in 2003<sup>26</sup>.</i>																						
<b>J4.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.2)	-7,583	-6,028	-6,658	-5,109	-4,741	-3,216	-5,909	-4,461	-6,321	-5,090	-6,934	-5,673	-7,623	-6,239	-8,277	-6,927	-8,896	-7,532	-9,565	-8,188	-10,219	-8,956
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-5,565	-4,010	-4,640	-3,091	-2,723	-1,198	-3,891	-2,443	-4,303	-3,072	-4,916	-3,655	-5,605	-4,221	-6,259	-4,909	-6,878	-5,514	-7,547	-6,170	-8,201	-6,938
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	A	A	D	A	D	A	D	A	D	A	D	A	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001 - 2009. However, it appears that there are insufficient external resources in 2001, 2002, 2004-2011<sup>26</sup>.</i>																						
<b>J4.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G2.3)	-10,294	-8,741	-9,416	-7,870	-7,547	-6,027	-8,766	-7,330	-9,215	-8,016	-9,884	-8,651	-10,636	-9,269	-11,349	-10,020	-12,025	-10,680	-12,754	-11,395	-13,468	-12,234
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-8,276	-6,723	-7,398	-5,852	-5,529	-4,009	-6,748	-5,312	-7,197	-5,998	-7,866	-6,633	-8,618	-7,251	-9,331	-8,002	-10,007	-8,662	-10,736	-9,377	-11,450	-10,216
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	D	A	A	A	A	A	A	A	D	A	D	A	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in imports for 2001 - 2002, and for 2006 - 2011 time frame. However, there appears to be insufficient external resources in 2001-2011<sup>26</sup>.</i>																						

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<b>J4.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (-/+ VALUE) <sup>20</sup> (G2.4)	-2,162	-603	-1,142	412	871	2,405	-195	1,276	-532	762	-1,034	285	-1,597	-178	-2,133	-742	-2,639	-1,236	-3,186	-1,773	-3,722	-2,402
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-144	1,415	876	2,430	2,889	4,423	1,823	3,294	1,486	2,780	984	2,303	421	1,840	-115	1,276	-621	782	-1,168	245	-1,704	-384
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	N/A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	N/A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001 and 2008 - 2011. It appears that there are sufficient internal resources to serve load from 2002-2007<sup>26</sup>.</i>																						
<b>J4.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (-/+ VALUE) <sup>20</sup> (G2.5)	549	2,110	1,616	3,172	3,677	5,216	2,662	4,145	2,362	3,688	1,916	3,264	1,416	2,852	940	2,351	489	1,911	3	1,435	-473	876
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	2,567	4,128	3,634	5,190	5,695	7,234	4,680	6,163	4,380	5,706	3,934	5,282	3,434	4,870	2,958	4,369	2,507	3,929	2,021	3,453	1,545	2,894
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load<sup>26</sup>.</i>																						
<b>J4.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (-/+ VALUE) <sup>20</sup> (G2.6)	5,395	N/A	6,550	N/A	8,707	N/A	7,787	N/A	7,564	N/A	7,215	N/A	6,823	N/A	6,452	N/A	6,101	N/A	5,720	N/A	4,733	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	7,413	2,018	8,568	2,018	10,725	2,018	9,805	2,018	9,582	2,018	9,233	2,018	8,841	2,018	8,470	2,018	8,119	2,018	7,738	2,018	6,751	2,018
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load<sup>26</sup>.</i>																						
<b>J5. MAXIMUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND LOW INTERNAL GENERATION SCENARIO<sup>27</sup></b>																						
<b>J5.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (-/+ VALUE) <sup>20</sup> (G3.1)	-5,559	-4,003	-4,587	-3,036	-2,622	-1,093	-4,494	-3,035	-4,869	-3,606	-5,426	-4,136	-6,052	-4,650	-6,647	-5,276	-7,210	-5,826	-7,817	-6,422	-8,412	-7,121
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-3,541	-1,985	-2,569	-1,018	-604	925	-2,476	-1,017	-2,851	-1,588	-3,408	-2,118	-4,034	-2,632	-4,629	-3,258	-5,192	-3,808	-5,799	-4,404	-6,394	-5,103
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the required market imports. It appears that there are insufficient external resources in 2001 <sup>26</sup>.</i>																						
<b>J5.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.2)	-8,270	-6,715	-7,345	-5,796	-5,428	-3,903	-7,351	-5,903	-7,763	-6,532	-8,376	-7,115	-9,065	-7,681	-9,719	-8,369	-10,338	-8,974	-11,007	-9,630	-11,661	-10,398
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-6,252	-4,697	-5,327	-3,778	-3,410	-1,885	-5,333	-3,885	-5,745	-4,514	-6,358	-5,097	-7,047	-5,663	-7,701	-6,351	-8,320	-6,956	-8,989	-7,612	-9,643	-8,380
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in the external resources from 2001 - 2007. It appears that there are insufficient external resources in 2001-2002 for imports. A new transmission import tie line may be needed by 2008 <sup>26</sup>.</i>																						
<b>J5.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.3)	-10,981	-9,428	-10,103	-8,557	-8,234	-6,714	-10,208	-8,772	-10,657	-9,458	-11,326	-10,093	-12,078	-10,711	-12,791	-11,462	-13,467	-12,122	-14,196	-12,837	-14,910	-13,676
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-8,963	-7,410	-8,085	-6,539	-6,216	-4,696	-8,190	-6,754	-8,639	-7,440	-9,308	-8,075	-10,060	-8,693	-10,773	-9,444	-11,449	-10,104	-12,178	-10,819	-12,892	-11,658
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	D	D	A	A	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is inadequate to bring in the external resources for 2001, 2002, 2004-2011. It appears that there are insufficient external resources in 2001-2002 for imports. A new transmission import tie line may be needed by 2004 <sup>26</sup>.</i>																						
<b>J5.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.4)	-2,849	-1,290	-1,829	-275	184	1,718	-1,637	-166	-1,974	-680	-2,476	-1,157	-3,039	-1,620	-3,575	-2,184	-4,081	-2,678	-4,628	-3,215	-5,164	-3,844
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018



**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
**CPUC AB -970 DATA REQUEST**  
**SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-831	728	189	1,743	2,202	3,736	381	1,852	44	1,338	-458	861	-1,021	398	-1,557	-166	-2,063	-660	-2,610	-1,197	-3,146	-1,826
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to access required external resources in 2001, 2006-2011. From 2002-2005, there are adequate internal resources to serve load <sup>26</sup>.</i>																						
<b>J5.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.5)	-138	1,423	929	2,485	2,990	4,529	1,220	2,703	920	2,246	474	1,822	-26	1,410	-502	909	-953	469	-1,439	-7	-1,915	-566
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	1,880	3,441	2,947	4,503	5,008	6,547	3,238	4,721	2,938	4,264	2,492	3,840	1,992	3,428	1,516	2,927	1,065	2,487	579	2,011	103	1,452
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J5.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.6)	4,708	N/A	5,863	N/A	8,020	N/A	6,345	N/A	6,122	N/A	5,773	N/A	5,381	N/A	5,010	N/A	4,659	N/A	4,278	N/A	3,291	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	6,726	2,018	7,881	2,018	10,038	2,018	8,363	2,018	8,140	2,018	7,791	2,018	7,399	2,018	7,028	2,018	6,677	2,018	6,296	2,018	5,309	2,018
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J6. MEDIUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND LOW INTERNAL GENERATION SCENARIO <sup>27</sup></b>																						
<b>J6.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.1)	-5,559	-4,003	-4,587	-3,036	-2,622	-1,093	-4,494	-3,035	-4,869	-3,606	-5,426	-4,136	-6,052	-4,650	-6,647	-5,276	-7,210	-5,826	-7,817	-6,422	-8,412	-7,121
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-3,541	-1,985	-2,569	-1,018	-604	925	-2,476	-1,017	-2,851	-1,588	-3,408	-2,118	-4,034	-2,632	-4,629	-3,258	-5,192	-3,808	-5,799	-4,404	-6,394	-5,103
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to access required external resources. However, it appears that there are insufficient external resources for imports in 2001 and 2002 <sup>6</sup>.</i>																						
<b>J6.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.2)	-8,270	-6,715	-7,345	-5,796	-5,428	-3,903	-7,351	-5,903	-7,763	-6,532	-8,376	-7,115	-9,065	-7,681	-9,719	-8,369	-10,338	-8,974	-11,007	-9,630	-11,661	-10,398
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-6,252	-4,697	-5,327	-3,778	-3,410	-1,885	-5,333	-3,885	-5,745	-4,514	-6,358	-5,097	-7,047	-5,663	-7,701	-6,351	-8,320	-6,956	-8,989	-7,612	-9,643	-8,380
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A	D	A	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system is adequate to access required external resources for 2001-2007. However, it appears that there are insufficient external resources for imports throughout 2001-2011 <sup>6</sup>.</i>																						
<b>J6.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.3)	-10,981	-9,428	-10,103	-8,557	-8,234	-6,714	-10,208	-8,772	-10,657	-9,458	-11,326	-10,093	-12,078	-10,711	-12,791	-11,462	-13,467	-12,122	-14,196	-12,837	-14,910	-13,676
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-8,963	-7,410	-8,085	-6,539	-6,216	-4,696	-8,190	-6,754	-8,639	-7,440	-9,308	-8,075	-10,060	-8,693	-10,773	-9,444	-11,449	-10,104	-12,178	-10,819	-12,892	-11,658
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	D	D	A	A	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system is inadequate to access required external resources for 2001, 2002, 2004-2011. However, it appears that there are insufficient external resources for imports throughout 2001-2011 <sup>6</sup>.</i>																						
<b>J6.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.4)	-2,849	-1,290	-1,829	-275	184	1,718	-1,637	-166	-1,974	-680	-2,476	-1,157	-3,039	-1,620	-3,575	-2,184	-4,081	-2,678	-4,628	-3,215	-5,164	-3,844
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-831	728	189	1,743	2,202	3,736	381	1,852	44	1,338	-458	861	-1,021	398	-1,557	-166	-2,063	-660	-2,610	-1,197	-3,146	-1,826
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	A	A	A	A	A	A	A

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	N/A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to access required external resources for 2001, 2006-2011. It appears that there are insufficient external resources for imports in 2001. From 2002-2005, there are sufficient internal resources to serve load <sup>6</sup>.</i>																						
<b>J6.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.5)	-138	1,423	929	2,485	2,990	4,529	1,220	2,703	920	2,246	474	1,822	-26	1,410	-502	909	-953	469	-1,439	-7	-1,915	-566
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	1,880	3,441	2,947	4,503	5,008	6,547	3,238	4,721	2,938	4,264	2,492	3,840	1,992	3,428	1,516	2,927	1,065	2,487	579	2,011	103	1,452
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J6.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G3.6)	4,708	N/A	5,863	N/A	8,020	N/A	6,345	N/A	6,122	N/A	5,773	N/A	5,381	N/A	5,010	N/A	4,659	N/A	4,278	N/A	3,291	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	6,726	2,018	7,881	2,018	10,038	2,018	8,363	2,018	8,140	2,018	7,791	2,018	7,399	2,018	7,028	2,018	6,677	2,018	6,296	2,018	5,309	2,018
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J7. MAXIMUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND VERY LOW INTERNAL GENERATION SCENARIO <sup>27</sup></b>																						
<b>J7.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.1)	-6,286	-4,730	-6,757	-5,206	-6,947	-5,418	-8,819	-7,360	-9,194	-7,931	-9,751	-8,461	-10,377	-8,975	-10,972	-9,601	-11,535	-10,151	-12,142	-10,747	-12,737	-11,446
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-4,268	-2,712	-4,739	-3,188	-4,929	-3,400	-6,801	-5,342	-7,176	-5,913	-7,733	-6,443	-8,359	-6,957	-8,954	-7,583	-9,517	-8,133	-10,124	-8,729	-10,719	-9,428
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.2	6,967	6,963	6,608	6,587	6,226	6,153	5,946	5,726	5,529	5,330	5,061	4,945	4,617	4,477	4,196	4,066	3,741	3,621	3,297	3,098	3,297	3,098
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001-2003, but not adequate for 2004-2011. In addition, it appears that there are insufficient external resources for import in 2001 and 2002 <sup>26</sup>.</i>																						
<b>J7.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.2)	-8,997	-7,442	-9,515	-7,966	-9,753	-8,228	-11,676	-10,228	-12,088	-10,857	-12,701	-11,440	-13,390	-12,006	-14,044	-12,694	-14,663	-13,299	-15,332	-13,955	-15,986	-14,723
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-6,979	-5,424	-7,497	-5,948	-7,735	-6,210	-9,658	-8,210	-10,070	-8,839	-10,683	-9,422	-11,372	-9,988	-12,026	-10,676	-12,645	-11,281	-13,314	-11,937	-13,968	-12,705
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.3	6,932	6,927	6,537	6,514	6,117	6,037	5,809	5,567	5,350	5,131	4,836	4,708	4,346	4,193	3,883	3,741	3,384	3,251	2,894	2,676	2,894	2,676
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	A	A	D	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in imports throughout 2001-2011. In addition, it appears that there are insufficient external resources for imports to meet load in 2001, 2002 and 2004 <sup>26</sup>.</i>																						
<b>J7.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.3)	-11,708	-10,155	-12,273	-10,727	-12,559	-11,039	-14,533	-13,097	-14,982	-13,783	-15,651	-14,418	-16,403	-15,036	-17,116	-15,787	-17,792	-16,447	-18,521	-17,162	-19,235	-18,001
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-9,690	-8,137	-10,255	-8,709	-10,541	-9,021	-12,515	-11,079	-12,964	-11,765	-13,633	-12,400	-14,385	-13,018	-15,098	-13,769	-15,774	-14,429	-16,503	-15,144	-17,217	-15,983
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.4	6,897	6,892	6,466	6,441	6,008	5,920	5,672	5,408	5,171	4,932	4,610	4,471	4,076	3,909	3,571	3,416	3,026	2,881	2,492	2,254	2,492	2,254
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	A	A	D	A	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in required imports throughout the 2001-2011. However, it appears that there are insufficient external resources for imports for 2001-2011 <sup>26</sup>.</i>																						
<b>J7.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.4)	-3,576	-2,017	-3,999	-2,445	-4,141	-2,607	-5,962	-4,491	-6,299	-5,005	-6,801	-5,482	-7,364	-5,945	-7,900	-6,509	-8,406	-7,003	-8,953	-7,540	-9,489	-8,169
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-1,558	1	-1,981	-427	-2,123	-589	-3,944	-2,473	-4,281	-2,987	-4,783	-3,464	-5,346	-3,927	-5,882	-4,491	-6,388	-4,985	-6,935	-5,522	-7,471	-6,151
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in required imports throughout the 2001-2010. However, it appears that there are insufficient external resources for imports in 2001 <sup>26</sup>.</i>																						
<b>J7.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.5)	-865	696	-1,241	315	-1,335	204	-3,105	-1,622	-3,405	-2,079	-3,851	-2,503	-4,351	-2,915	-4,827	-3,416	-5,278	-3,856	-5,764	-4,332	-6,240	-4,891
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	1,153	2,714	777	2,333	683	2,222	-1,087	396	-1,387	-61	-1,833	-485	-2,333	-897	-2,809	-1,398	-3,260	-1,838	-3,746	-2,314	-4,222	-2,873
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in required imports throughout the 2004-2011. From 2001-2003, it appears that the internal resources are adequate to serve load <sup>26</sup>.</i>																						
<b>J7.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.6)	3,981	N/A	3,693	N/A	3,695	N/A	2,020	N/A	1,797	N/A	1,448	N/A	1,056	N/A	685	N/A	334	N/A	-47	N/A	-1,034	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	5,999	2,018	5,711	2,018	5,713	2,018	4,038	2,018	3,815	2,018	3,466	2,018	3,074	2,018	2,703	2,018	2,352	2,018	1,971	2,018	984	2,018
AVAILABLE MARKET IMPORTS (FROM D2)	843	1,483	3,413	4,053	8,353	8,408	9,528	9,583	11,270	10,725	11,535	10,990	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177	14,425	14,177
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, there are sufficient internal resources to serve load <sup>26</sup>.</i>																						
<b>J8. MEDIUM AVAILABILITY OF IMPORTS FROM EXTERNAL GENERATION SCENARIO AND VERY LOW INTERNAL GENERATION SCENARIO</b>																						
<b>J8.1. BASE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.1)	-6,286	-4,730	-6,757	-5,206	-6,947	-5,418	-8,819	-7,360	-9,194	-7,931	-9,751	-8,461	-10,377	-8,975	-10,972	-9,601	-11,535	-10,151	-12,142	-10,747	-12,737	-11,446
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-4,268	-2,712	-4,739	-3,188	-4,929	-3,400	-6,801	-5,342	-7,176	-5,913	-7,733	-6,443	-8,359	-6,957	-8,954	-7,583	-9,517	-8,133	-10,124	-8,729	-10,719	-9,428
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.2.	6,967	6,963	6,608	6,587	6,226	6,153	5,946	5,726	5,529	5,330	5,061	4,945	4,617	4,477	4,196	4,066	3,741	3,621	3,297	3,098	3,297	3,098
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	A	A	A	A	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)**  
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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001-2003. The existing transmission system appears to be inadequate to bring in required imports from 2004-2011. However, there appears to be insufficient external resources from 2001 to 2011 <sup>26</sup>.</i>																						
<b>J8.2. BASE LOAD PLUS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.2)	-8,997	-7,442	-9,515	-7,966	-9,753	-8,228	-11,676	-10,228	-12,088	-10,857	-12,701	-11,440	-13,390	-12,006	-14,044	-12,694	-14,663	-13,299	-15,332	-13,955	-15,986	-14,723
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-6,979	-5,424	-7,497	-5,948	-7,735	-6,210	-9,658	-8,210	-10,070	-8,839	-10,683	-9,422	-11,372	-9,988	-12,026	-10,676	-12,645	-11,281	-13,314	-11,937	-13,968	-12,705
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.3.	6,932	6,927	6,537	6,514	6,117	6,037	5,809	5,567	5,350	5,131	4,836	4,708	4,346	4,193	3,883	3,741	3,384	3,251	2,894	2,676	2,894	2,676
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	A	D	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system appears to be inadequate to bring in required imports for 2001-2011. In addition, there appears to be insufficient external resources for imports from 2001 to 2011 <sup>26</sup>.</i>																						
<b>J8.3. BASE LOAD PLUS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.3)	-11,708	-10,155	-12,273	-10,727	-12,559	-11,039	-14,533	-13,097	-14,982	-13,783	-15,651	-14,418	-16,403	-15,036	-17,116	-15,787	-17,792	-16,447	-18,521	-17,162	-19,235	-18,001
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-9,690	-8,137	-10,255	-8,709	-10,541	-9,021	-12,515	-11,079	-12,964	-11,765	-13,633	-12,400	-14,385	-13,018	-15,098	-13,769	-15,774	-14,429	-16,503	-15,144	-17,217	-15,983
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I2.4.	6,897	6,892	6,466	6,441	6,008	5,920	5,672	5,408	5,171	4,932	4,610	4,471	4,076	3,909	3,571	3,416	3,026	2,881	2,492	2,254	2,492	2,254
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
<i>==&gt; From the analysis above, the existing transmission system is inadequate to bring in required imports from 2001 to 2011. In addition, there are insufficient external resources for imports throughout 2001-2011 <sup>26</sup>.</i>																						
<b>J8.4. BASE LOAD LESS 10% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.4)	-3,576	-2,017	-3,999	-2,445	-4,141	-2,607	-5,962	-4,491	-6,299	-5,005	-6,801	-5,482	-7,364	-5,945	-7,900	-6,509	-8,406	-7,003	-8,953	-7,540	-9,489	-8,169
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	-1,558	1	-1,981	-427	-2,123	-589	-3,944	-2,473	-4,281	-2,987	-4,783	-3,464	-5,346	-3,927	-5,882	-4,491	-6,388	-4,985	-6,935	-5,522	-7,471	-6,151
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	D	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	D	N/A	D	A	A	A	D	A	D	A	D	A	D	A	D	A	D	A	D	D	D	D

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	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC
<i>==&gt; From the analysis above, the existing transmission system appears to be adequate to bring in imports for 2001-2010. However, there appears to be insufficient external resources in 2001, 2002, 2004-2011 <sup>26</sup>.</i>																						
<b>J8.5. BASE LOAD LESS 20% CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.5)	-865	696	-1,241	315	-1,335	204	-3,105	-1,622	-3,405	-2,079	-3,851	-2,503	-4,351	-2,915	-4,827	-3,416	-5,278	-3,856	-5,764	-4,332	-6,240	-4,891
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	1,153	2,714	777	2,333	683	2,222	-1,087	396	-1,387	-61	-1,833	-485	-2,333	-897	-2,809	-1,398	-3,260	-1,838	-3,746	-2,314	-4,222	-2,873
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	A	N/A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
<i>==&gt; From the analysis above, the existing transmission system is adequate to bring in required imports from 2004-2011. It appears that the internal resources are adequate to serve load from 2001-2003 <sup>26</sup>.</i>																						
<b>J8.6. AVERAGE LOAD CASE</b>																						
REQUIRED / AVAILABLE RESOURCES (- /+ VALUE) <sup>20</sup> (G4.6)	3,981	N/A	3,693	N/A	3,695	N/A	2,020	N/A	1,797	N/A	1,448	N/A	1,056	N/A	685	N/A	334	N/A	-47	N/A	-1,034	N/A
EXISTING AVAILABLE IMPORTS <sup>22</sup>	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018	2,018
REQUIRED MARKET IMPORTS <sup>20</sup> / AVAIL. RESOURCES	5,999	2,018	5,711	2,018	5,713	2,018	4,038	2,018	3,815	2,018	3,466	2,018	3,074	2,018	2,703	2,018	2,352	2,018	1,971	2,018	984	2,018
AVAILABLE MARKET IMPORTS (FROM D3)	337	465	1,365	1,493	2,951	2,962	3,421	3,432	3,998	3,889	4,104	3,995	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210	5,260	5,210
TOTAL AVAILABLE TRANSMISSION IMPORT CAPABILITY (FOR MARKET IMPORTS) - FROM I	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319	7,319
ADEQUATE (A) / DEFICIENT (D) TRANSMISSION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ADEQUATE (A) / DEFICIENT (D) EXTERNAL GENERATION CAPACITY ?	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<i>==&gt; From the analysis above, it appears that the internal resources are adequate to serve load from 2001-2011 <sup>26</sup>.</i>																						

**NOTES:**  
<sup>1</sup> Load forecast is based on a 1-in-5-year heat wave forecast.  
<sup>2</sup> Load forecast for City of Pasadena is obtained from the CEC from 2001 - 2011.  
<sup>3</sup> Generation levels as of 1/1/2001  
<sup>4</sup> From Cal-ISO Control Area Transmission Expansion Plan Final Report (SP15 Generation - SDG&E = 21127MW - 2107MW)  
<sup>5</sup> From CEC's 1999 Operational Capacity of Three Investor - Owned Utilities (based on name plate capacity, which is usually higher than dependable capacity)  
<sup>6</sup> From SDG&E's 2000 Transmission Expansion Plan Final Report  
<sup>7</sup> CEC-provided data. Low level of confidence for projection of generation availability beyond 2005.  
<sup>8</sup> Maximum generation scenario is based on CEC-tracked projects with categories 1 - 5.  
<sup>9</sup> The maximum generation scenario does not reflect the highest possible case, but rather a maximum scenario with officially-tracked data from the CEC.  
<sup>10</sup> Medium generation scenario is based on CEC-tracked projects with categories 1 - 3.  
<sup>11</sup> The highest possible generation levels are provided here for reference. However, not all of these new out-of-state generation will be available to California.

**SCENARIO ANALYSIS (AGGRESSIVE GENERATION RETIREMENT & OUTAGE SCENARIO)  
CPUC AB -970 DATA REQUEST  
SOUTHERN CALIFORNIA LONG-TERM TRANSMISSION STUDY**

	LOAD / GENERATION / IMPORT (MW)																					
	YEAR 2001		2002		2003		2004		2005		2006		2007		2008		2009		2010		2011	
	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC	PTO	CEC

- <sup>12</sup> Maximum external generation levels available to California are based on the assumptions of having a 50% availability of the highest possible external generation levels.
- <sup>13</sup> Medium external generation levels available to California are based on the assumptions of having a 20% availability of the highest possible external generation levels.
- <sup>14</sup> MORC: Minimum Operating Reliability Criteria
- <sup>15</sup> Cal-ISO's Presentation "2001 Load and Resource" by Ziad Alaywan at ISO Board of Governors Meeting on 11/30/2000. Allowance for generation outages (scheduled and forced outages) is included here.
- <sup>16</sup> Same reference as in footnote 15. This number represents California Utility ownership shares on Palo Verde Units 1-3 and California Utility entitlements of Hoover generation
- <sup>17</sup> Same reference as in footnote 15. This number represents firm imports from Muni-owned generation (San Juan, IPP), Muni-entitlements in Palo Verde and Hoover generation, Northwest contracts to Southern California Utilities
- <sup>18</sup> Same reference as in footnote 15. This number represents existing contracts and non-ISO ownership shares of Mohave (Mohave to LADWP, Mohave to Nevada Power, Mohave to SRP, SCE to APS, SCE to Tucson Electric)
- <sup>19</sup> Transmission reinforcements needed to connect new internal generation developments in Southern California are not included here.
- <sup>20</sup> + sign denotes that the system has adequate resources (no need to import further), whereas - sign indicates resource inadequacy (need to import)
- <sup>21</sup> Availability of new market imports (from new external generation) may be subject to transmission constraints
- <sup>22</sup> Based on historical import levels (Year 2000) from East of the River (EOR) and Path 26 (Midway-Vincent) flow  
A conservative approach is to take 2/3 of the average recorded flow on Path 26 and EOR in Summer 2000 and then subtract the firm imports on these paths (1,315 MW) to Southern California as the following:  
[Path 26 (N-S) = 2(1,000 MW) / 3] + [EOR = 2\*4,000 MW / 3] - 1,315 MW = 2,018 MW ==> Anticipated Available Market Imports to Southern California (based on existing external generation)
- <sup>23</sup> Available transmission import capability = transmission capability - firm import commitments  
California - Arizona = 2,850 MW (entitlements for Cal-ISO controlled grid) - 690 MW (PTO's Palo Verde ownership shares) = 2,160 MW  
California - Nevada = 3,732 MW (entitlements for Cal-ISO controlled grid) - 1356 MW (CA Utility's Entitlements from Four Corners and Hoovers gen.) = 2,376 MW  
California - Mexico = 408 MW (Path 45)  
N. CA - S. CA (Path 26) = 3,000 MW (Path 26 capability) - 625 MW (firm imports) = 2,375 MW
- <sup>24</sup> Total Southern California transmission import capability (Cal-ISO controlled grid & LADWP) should not exceed SCIT limit (currently limited at 13,000 MW for Summer operation)  
Estimated total available Southern California transmission import capability (Cal-ISO controlled grid) should not exceed 7,080 MW as shown in the following:  
Existing SCIT summer limit (13,000 MW) - Import commitments from non-PTO's = Total transmission import capability (ISO controlled grid)  
Total S. Calif. Transmission Import Capability (ISO controlled grid) = 13,000 MW (SCIT) - [1820 MW (IPPDC) + 3000 MW (PDCI)] = 8,180 MW  
8,180 MW is the estimated available import capability primarily for a combination of Path 26 (Midway-Vincent), Path 46 (WOR) and Path 45 (SDG&E - CFE)
- <sup>25</sup> Path ratings for WOR and EOR are for East-to-West direction (import to California). At this time, these paths are not rated for West-to-East flow (export to NV and AZ)
- <sup>26</sup> For export adequacy, it would require further regional studies with other out-of-state utilities to determine the maximum limit on the amount of export to those entities, if needed.
- <sup>27</sup> CPUC-Requested Scenario
- <sup>28</sup> Average System Load: SCE = 65% of peak load; SDG&E = 54% of peak load
- <sup>29</sup> Low generation levels represent the CEC generation status 1-2
- <sup>30</sup> Very low generation levels represent only the addition of High Desert Power Plant (720 MW)
- <sup>31</sup> For reliability assessment, internal generation is dispatched prior to external generation (except for firm imports).
- <sup>32</sup> For reliability assessment, internal generation is dispatched prior to external generation (except for firm imports).
- <sup>33</sup> It is expected that the existing import capability is maintained in the scenario that the new internal generation additions are dispatched to serve Southern California load.
- <sup>34</sup> For the very low internal generation addition scenario (720 MW from High Desert), it is estimated that the import capability is derated in proportion to load growth, if no new transmission voltage support is added.
- <sup>35</sup> CPUC-suggested generation outage levels
- <sup>36</sup> CPUC-suggested generation retirement levels
- <sup>37</sup> CEC-suggested generation retirement levels
- <sup>38</sup> CEC-suggested generation retirement levels
- <sup>39</sup> SDG&E is exploring options to upgrade the existing SDG&E - Mexico tie.