

## **Appendix A**

# **Southern California Edison Company's Year End 2012 SONGSMA Report**

**SOUTHERN CALIFORNIA EDISON COMPANY**  
**SONGS 2&3 Outage Memorandum Account - February 2013**  
**I.12-10-013**  
**(\$000)**

		2012												
		January	February	March	April	May	June	July	August	September	October	November	December	YTD
1.	<b>I. Base Capital Cost Subaccount</b>													
2.	Capital Expenditures	10,229	38,143	13,727	9,450	7,984	6,970	8,853	8,048	8,647	5,306	10,392	5,857	133,606
3.	CWIP Balance	284,283	330,425	194,542	173,272	173,400	182,300	191,100	191,900	198,800	203,465	210,279	216,652	216,652
4.	Rate Base - End of Month	559,991	553,385	636,466	643,875	637,547	657,441	645,621	649,052	636,617	621,858	625,236	638,655	
5.	Depreciation	5,494	5,491	5,505	6,483	7,290	7,106	7,054	7,090	7,143	7,161	7,195	7,319	80,331
6.	Taxes on Income	(1,069)	1,073	43,921	22,886	4,899	775	538	(16,702)	1,268	(1,300)	(10,262)	(264)	45,762
7.	Ad Valorem Taxes	493	493	493	493	493	493	601	601	601	601	601	601	6,568
8.	Return	4,099	4,053	4,331	4,661	4,665	4,714	4,744	4,713	4,680	4,581	4,540	4,601	54,382
9.	Subtotal Revenue Requirement	9,017	11,110	54,250	34,522	17,347	13,089	12,937	(4,298)	13,693	11,043	2,074	12,257	187,042
10.	<b>II. Steam Gen Replacement/Removal Capital Cost Subaccount</b>													
11.	Capital Expenditures -Replace	(689)	231	1,916	291	1,409	(1,473)	71	699	621	42	1,585	6,567	11,268
12.	Capital Expenditures -Remove	-	-	127,343	-	-	(33,595)	-	-	1,057	11,671	49	1,257	107,783
13.	CWIP Balance - Replace	90,600	91,300	-	128,479	98,314	-	93,900	95,300	-	(11,313)	1,198	6,749	6,749
14.	CWIP Balance - Remove	-	-	94,805	-	-	93,700	-	-	94,800	57,041	251	1,465	1,465
15.	Rate Base - Replace - End of Month	528,435	524,141	519,846	515,552	511,258	510,188	505,868	501,548	498,977	494,640	479,247	475,068	
16.	Rate Base - Remove - End of Month	(31,787)	(31,806)	(31,933)	(31,956)	(32,038)	(31,970)	(31,977)	(32,014)	(32,066)	17,212	68,945	68,349	
17.	Depreciation	4,211	4,211	4,211	4,211	4,211	4,211	4,238	4,238	4,238	4,253	4,695	5,077	52,007
18.	Taxes on Income	273	273	273	273	273	273	532	532	532	532	532	527	4,821
19.	Ad Valorem Taxes	1,699	1,685	1,640	1,654	1,623	1,652	1,625	1,601	1,583	1,628	499	1,973	18,863
20.	Return	3,632	3,600	3,568	3,537	3,505	3,485	3,466	3,434	3,409	3,563	3,859	3,974	43,032
21.	Subtotal Revenue Requirement	9,815	9,769	9,693	9,674	9,612	9,621	9,861	9,805	9,762	9,976	9,584	11,551	118,722
22.	<b>III. O&amp;M Expense Subaccount</b>													
23.	Fuel (ERRA)	4,522	(18)	(15)	(23)	(13)	(14)	40	-	-	-	-	177	4,657
24.	Fuel Carrying Costs (ERRA)	194	182	182	182	185	303	439	368	365	358	360	361	3,480
25.	Replacement Power (ERRA)	4,432	8,372	9,692	11,356	6,393	9,244	20,231	27,535	26,115	21,534	15,622	14,522	175,048
26.	Capacity Payments (ERRA)	-	1,657	2,692	1,434	4,588	4,384	3,748	4,310	4,047	3,674	903	1,704	33,141
27.	Foregone Sales Revenue (ERRA)	3,551	10,306	7,120	8,684	14,247	11,196	6,905	6,804	5,942	918	783	13,272	89,728
28.	Routine O&M	26,242	25,563	22,460	22,404	22,244	19,399	21,781	21,103	45,499	27,242	19,207	27,345	300,489
29.	Refueling (1 in 2012)	14,738	13,873	4,152	707	838	(91)	33	212	(142)	273	321	341	35,255
30.	Seismic Safety	11	145	338	370	100	148	198	471	257	314	267	642	3,261
31.	Investigation	-	4,534	11,951	12,614	3,982	7,212	-	22,327	4,438	-	-	-	67,059
32.	Repairs - After Outage	-	2,074	1,481	3,090	1,291	-	9,542	-	9,823	-	-	-	27,302
33.	Regulatory - After Outage	-	-	-	-	144	121	156	48	51	473	2,427	-	3,421
34.	Defueling	-	-	-	-	-	-	-	122	651	158	-	-	932
35.	Litigation	-	-	-	-	-	603	39	79	49	862	2,307	1,783	5,722
36.	Payroll Taxes	1,305	1,555	1,226	1,065	1,209	993	952	1,205	900	1,146	928	959	13,442
37.	Other (Pensions, PBOP, Insurance)	2,762	3,155	1,374	2,133	2,192	989	1,256	2,568	907	1,796	1,107	1,671	21,909

**SOUTHERN CALIFORNIA EDISON COMPANY**  
**SONGS 2&3 Outage Memorandum Account - February 2013**  
**I.12-10-013**  
**(\$000)**

		2012												
		January	February	March	April	May	June	July	August	September	October	November	December	YTD
38.	Subtotal	57,757	71,398	62,655	64,015	57,399	54,489	65,320	87,151	98,902	58,750	44,231	62,777	784,845
39.	<b>IV. Huntington Beach Subaccount</b>	-	519	1,543	3,295	2,356	1,801	689	1,587	2,246	991	1,001	817	16,845
40.	<b>V. Demand Response Subaccount</b>	-	-	-	-	-	32	171	47	12	2,424	37	46	2,769
41.	<b>VI. Transmission Upgrades Subaccount</b>													
42.	Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-	-
43.	Rate Base	-	-	-	-	-	-	-	-	-	-	-	-	-
44.	Depreciation	-	-	-	-	-	-	-	-	-	-	-	-	-
45.	Taxes on Income	-	-	-	-	-	-	-	-	-	-	-	-	-
46.	Ad Valorem Taxes	-	-	-	-	-	-	-	-	-	-	-	-	-
47.	Return	-	-	-	-	-	-	-	-	-	-	-	-	-
48.	Subtotal Revenue Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-
49.	O&M (if any)	-	-	-	-	-	-	-	-	-	-	-	-	-
50.	<b>VII. Authorized Revenue Requirement Subaccount</b>													
	Monthly Revenue Requirement GRC	30,383	26,399	32,874	29,387	30,881	43,832	58,276	72,223	63,257	52,797	29,885	27,893	498,087
	Monthly Revenue Requirement SGR	7,030	6,108	7,606	6,799	7,145	10,141	13,483	16,710	14,635	12,215	6,914	6,453	115,239

## NOTES:

1. All amounts shown above reflect SCE's 78.21% share
2. Severance costs (SCE Share) included in Line No. 28 reflect an accrued amount of \$36.0 million, however only \$13.8 million has been paid out as of December 31, 2012.
3. Received \$45.4 million (100% share) from MHI and this amount is not included above.
4. The costs shown in the Demand Response subaccount also include other ISO market costs that were incurred as a result of the outages.
5. SCE is still in the process of identifying any Transmission upgrade costs incurred as a result of the outages. Any amounts will be included in the next reporting cycle.

(End of Appendix A)

## **Appendix B**

# **San Diego Gas & Electric Company's Year End 2012 SONGSMA Report**



**SAN DIEGO GAS & ELECTRIC COMPANY**  
**SONGS 2&3 Outage Memorandum Account**  
**I.12-10-013**  
**(\$000)**

	2012												YTD
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
43 Marketing, Education & Outreach (ME&O)	-	-	-	-	1	-	0	1	38	45	5	3	91
44 Subtotal DR	-	-	-	-	1	-	0	1	38	45	5	3	91
45 VI. Transmission Upgrades Subaccount													
46 Capital Expenditures	-	-	-	-	-	(8)	9	93	1,245	137	653	883	3,013
47 Rate Base	-	-	-	-	-	-	-	-	-	-	-	-	-
48 Depreciation	-	-	-	-	-	-	-	-	-	-	-	-	-
49 Taxes on Income	-	-	-	-	-	-	-	-	-	-	-	-	-
50 Ad Valorem Taxes	-	-	-	-	-	-	-	-	-	-	-	-	-
51 Return	-	-	-	-	-	-	-	-	-	-	-	-	-
52 Subtotal Revenue Requirement	-	-	-	-	-	-	-	-	-	-	-	-	-
53 O&M (if any)	-	-	-	-	-	-	-	-	-	-	-	-	-
54 VII. Authorized Revenue Requirement Subaccount													
55 Monthly Revenue Requirements	16	16	16	16	16	16	16	16	16	16	16	15	185
56 VIII. Adders to SCE-Originated SONGS Costs													
57 SCE-Billed Costs Not Included by SCE in § III	(12)	3,762	(73)	(101)	(18)	(46)	(39)	(128)	(33)	(46)	106	902	4,274
58 SDG&E Portion of Nuclear and Related Insurance	-	-	956	-	463	-	-	945	-	-	-	-	2,364
59 SDG&E Portion of SONGS Site Easement	-	-	-	20	-	-	-	-	-	-	-	-	20
60 SDG&E Overheads on SONGS Costs - Capital (Adder to § I)	786	964	628	889	574	775	886	958	1,003	1,069	773	678	9,983
61 SDG&E Overheads on SONGS Costs - O&M (Adder to § III)	624	526	550	1,057	661	735	860	723	679	1,197	930	974	9,515
62 Net Impact of Billing Lag (Temporary Adder to §§ I & III)	2,038	(9,161)	(5,575)	10,830	675	491	(637)	(3,352)	1,222	5,777	(1,375)	(4,416)	(3,484)
63 IX. SDG&E Direct Cost of SONGS Oversight													
64 Operational and Financial Oversight Team	45	90	62	40	69	43	56	54	51	60	40	59	668

**NOTES**

All amounts shown reflect SDG&E's actual costs for SONGS, including 20% share of SONGS 100%-level costs incurred by SCE plus contractual overheads.

SGRP costs reported net of 20% of estimated removal and disposal costs for the original steam generators granted in SDG&E's 2006 SGRP Decision D.06-11-026.

SCE advance bills SDG&E for the month and trues-up previous advance bills. The "Lag Adjustment" converts SONGS data for the billing process to match actual SDG&E posting periods.

SCE's invoices to SDG&E do not allow O&M costs to be broken out into the cost categories shown for O&M. Figures were provided by SCE, who allocated the SDG&E prorated billing based upon SCE's reported costs.

SDG&E has not yet received a 2012 GRC decision authorizing a revenue requirement. Revenue Requirement based on AL 2302-E filed November 10, 2011, pending a final GRC decision.

SDG&E's SONGS Oversight includes estimated overheads for Payroll Tax, Incentive Compensation Plan ("ICP"), Pension & Benefits, Workers' Compensation, Vacation & Sick Leave, PLPD Insurance, and Purchasing.

Property tax amounts are estimated based on an allocation of total property taxes paid.

Replacement Power (ERRA) amount estimated for 2012 excludes lost generation replacement costs for planned refueling and maintenance outage for 01/10/12 through 03/05/12 for SONGS Unit 2 of \$5,039K.

Capacity Payments (ERRA) amount estimated for CPM charges and Resource Adequacy (RA) purchases.

SAN DIEGO GAS & ELECTRIC COMPANY  
 SONGS 2&3 Outage Memorandum Account  
 I.12-10-013  
 (\$000)

SONGS COSTS BY AUTHORIZATION CATEGORY

	As Reported	SCE GRC D.12-11-051	SDG&E GRC Pending	SGRP D.05-12-040	ERRA D.12-07-006 D.12-08-007 D.12-12-022	Other BA- DR Resolutions E- 4502, E-4511, D. 12-14-045	Other BA - NGBA AL-2302	Transmission Owner Tariff	NEW
<b>I. Sunk Capital Cost Subaccount</b>									
2	Capital Expenditures	38,474.9	\$39,250.80	\$10,009.60					
3	CWIP	110,854.7	110,854.7						
4	Rate Base	106,896.3	106,896.3						
5	Depreciation	10,384.7	10,384.7						
6	Taxes on Income	4,067.4	4,067.4						
7	Ad Valorem Taxes	3,916.9	3,916.9						
8	Return	8,979.3	8,979.3						
9	Subtotal Revenue Requirement	27,348.3							
<b>II. Steam Gen Replacement/Removal Capital Cost Subaccount</b>									
11	Capital Expenditures - Replace	12,863.2		12,863.2					
12	Capital Expenditures - Remove	(9,319.5)		(9,319.5)					
13	Rate Base - Replace	129,013.2		129,013.2					
14	Rate Base - Remove	1,334.6		1,334.6					
15	CWIP Balance - Replace	136.6		136.6					
16	CWIP Balance - Remove	-		-					
17	Depreciation	12,888.0		12,888.0					
18	Taxes on Income	4,789.4		4,789.4					
19	Ad Valorem Taxes	495.9		495.9					
20	Return	10,949.3		10,949.3					
21	Subtotal Revenue Requirement	29,122.6							
<b>III. O&amp;M Expense Subaccount</b>									
23	Fuel (ERRA)	1,223.0			1,223.0				
24	Fuel Carrying Costs (ERRA)	192.0			192.0				
25	Replacement Power (ERRA)	72,249.2			72,249.2				
26	Capacity Payments (ERRA)	2,915.9			2,915.9				
27	Foregone Sales Revenue (ERRA)	755.7			755.7				
28	Routine O&M	73,558.7	73,558.7						
29	Refueling (1 in 2012)	9,116.4	9,116.4						
30	Seismic Safety	831.8	831.8						
31	Investigation	17,155.3							17,155.3
32	Repairs - After Outage	6,004.2							6,004.2
33	Regulatory - After Outage	902.9							902.9
34	Defueling	166.9							166.9
35	Litigation	-							-
36	Payroll Taxes	3,744.1	3,744.1						
37	Other (Pensions, PBOP, Insurance)	31,623.9	31,623.9						
38	Subtotal	220,440.0							
<b>IV. Huntington Beach Subaccount</b>									
39		-							

As Reported	SCE GRC	SDG&E GRC	SGRP	ERRA	Other BA- DR	Other BA -	Transmission	NEW
	D.12-11-051	Pending	D.05-12-040	D.12-07-006 D.12-08-007 D.12-12-022	Resolutions 4502, E-4511, D. 12-14-045	E- AL-2302	Owner Tariff	

**40 V. Demand Response Subaccount**

41	Peak Time Rebate - Small Commercial (PTRA)	-				-		
42	Demand Bidding Program (DBP 2012)	-				-		
43	Marketing, Education & Outreach (ME&O)	90.6				90.6		
44	Subtotal DR	90.6						

**45 VI. Transmission Upgrades Subaccount**

46	Capital Expenditures	3,012.5						3,012.5
47	Rate Base	-						-
48	Depreciation	-						-
49	Taxes on Income	-						-
50	Ad Valorem Taxes	-						-
51	Return	-						-
52	Subtotal Revenue Requirement	-						-
53	O&M (if any)	-						-

**54 VII. Authorized Revenue Requirement Subaccount**

55	Monthly Revenue Requirements	185.4					185.4	
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**56 VIII. Adders to SCE-Originated SONGS Costs**

57	SCE-Billed Costs Not Included by SCE in § III	4,274.3	4,274.3					
58	SDG&E Portion of Nuclear and Related Insurance	2,363.9		2,363.9				
59	SDG&E Portion of SONGS Site Easement	20.1		20.1				
60	SDG&E Overheads on SONGS Costs - Capital (Adder to § I)	9,983.2		9,983.2				
61	SDG&E Overheads on SONGS Costs - O&M (Adder to § III)	9,515.2		9,515.2				
62	Net Impact of Billing Lag (Temporary Adder to §§ I & III)	(3,484.4)	(3,484.4)					

**63 IX. SDG&E Direct Cost of SONGS Oversight**

64	Operational and Financial Oversight Team	668.3		668.3				
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SDG&E's SONGS Oversight includes estimated overheads for Payroll Tax, Incentive Compensation Plan ("ICP"), Pension & Benefits, Workers' Compensation, Vacation & Sick Leave, PLPD Insurance, and Purchasing.

Property tax amounts are estimated based on an allocation of total property taxes paid.

Replacement Power (ERRA) amount estimated for 2012 excludes lost generation replacement costs for planned refueling and maintenance outage for 01/10/12 through 03/05/12 for SONGS Unit 2 of \$5,039K.

Capacity Payments (ERRA) amount estimated for CPM charges and Resource Adequacy (RA) purchases.

Sunk capital line items 3-8 include SDG&E overheads and AFUDC

SDG&E  
-11

**SAN DIEGO GAS & ELECTRIC COMPANY**  
**SONGS 2&3 2012 Outage Memorandum Account Excerpt**  
**I.12-10-013**  
**(\$000)**

Line Items	Categories	2012												YTD
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>III. O&amp;M Expense Subaccount</b>														
	A. Routine O&M - Base - Routine	6,254.6	6,881.6	5,699.8	5,707.3	5,851.4	4,952.2	5,452.1	5,231.0	6,255.1	7,218.6	4,936.7	6,313.5	70,753.9
	B. Routine O&M - Base - RSG Inspection & Repair	-	171.9	214.1	183.0	192.6	145.9	245.9	287.7	147.2	241.3	142.8	137.5	2,110.9
28	<b>Total Routine O&amp;M</b>	<b>6,254.60</b>	<b>7,053.50</b>	<b>5,913.90</b>	<b>5,890.30</b>	<b>6,044.00</b>	<b>5,099.10</b>	<b>5,698.00</b>	<b>5,518.70</b>	<b>6,402.30</b>	<b>7,459.90</b>	<b>5,079.50</b>	<b>6,451.00</b>	<b>72,864.80</b>
<b>Incremental Steam Generator Inspection &amp; Repair</b>														
31	Investigation	-	1,251.0	3,146.7	3,316.5	1,081.9	1,895.9	-	5,838.8	624.5	-	-	-	17,155.3
32	Repairs - After Outage	-	572.3	390.0	812.4	350.9	-	2,496.3	-	1,382.3	-	-	-	6,004.2
33	Regulatory - After Outage	-	-	-	-	39.0	31.8	40.9	12.5	7.2	129.7	641.8	703.0	1,605.9
34	Defueling	-	-	-	-	-	-	-	31.9	91.7	43.3	-	-	166.9
	<b>Total Incremental SGRI</b>	<b>-</b>	<b>1,823.3</b>	<b>3,536.7</b>	<b>4,128.9</b>	<b>1,471.8</b>	<b>1,927.7</b>	<b>2,537.2</b>	<b>5,883.2</b>	<b>2,105.7</b>	<b>173.0</b>	<b>641.8</b>	<b>703.0</b>	<b>24,932.3</b>
<b>Additional Revisions to 2012 SONGS OMA</b>														
<b>I. Sunk Capital Cost Subaccount</b>														
3	CWIP	98,813.1	109,820.4	108,960.5	113,845.1	116,440.4	119,137.7	120,983.4	125,286.0	130,633.9	133,349.8	112,139.0	110,854.7	110,854.7
4	Rate Base	103,504.3	104,677.1	105,158.5	106,805.2	107,782.2	105,458.0	103,471.6	103,343.5	102,936.4	103,796.6	113,964.5	121,857.3	106,896.3
8	Return	724.5	732.7	736.1	747.6	754.5	738.2	724.3	723.4	720.6	726.6	797.8	853.0	8,979.3
9	<b>Subtotal Revenue Requirement</b>	<b>1,878.8</b>	<b>1,901.8</b>	<b>1,914.4</b>	<b>3,887.2</b>	<b>1,970.6</b>	<b>1,938.6</b>	<b>1,906.9</b>	<b>1,907.5</b>	<b>1,904.5</b>	<b>1,916.9</b>	<b>2,039.7</b>	<b>4,181.4</b>	<b>27,348.3</b>
<b>III. O&amp;M Expense Subaccount</b>														
29	Refuelling (1 in 2012)	3,512.7	3,827.9	1,093.3	185.8	227.7	(23.8)	8.7	55.4	(19.9)	74.7	84.9	80.3	9,107.7
30	Seismic Safety	2.7	40.0	89.0	97.3	27.2	38.8	51.7	123.6	36.5	86.6	70.6	151.5	815.5
<b>VIII. Adders to SCE-Originated SONGS Costs</b>														
57	SCE-Billed Costs Not Included by SCE in § III	(12.3)	3,762.0	(73.7)	(100.6)	(18.5)	(45.2)	(39.0)	(128.3)	(32.6)	(46.2)	106.2	918.4	4,290.2

**NOTES**

SDG&E has not adjusted previously-reported figures yet to reflect the 2012 GRC decision authorizing a revenue requirement. Revenue Requirement based on AL 2302-E filed November 10, 2011.  
 SCE's invoices to SDG&E do not allow O&M costs to be broken out into the cost categories shown for O&M. Figures were provided by SCE, who allocated the SDG&E prorated billing based upon SCE's reported costs.

### APPENDIX A – 2012 SONGS O&M AND CAPITAL EXPENDITURES

**SDG&E's Share of 2012 Costs  
SONGS O&M and Capital  
Addressed in SCE's GRC D. 12-11-051 & 2012 SONGS OII  
SDG&E's 2012 SONGS Operations & Maintenance (O&M) Costs, Including Refueling <sup>(1)</sup>**  
(thousands of dollars)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
1 O&M Expense - SONGS Labor	4,761.3	9,527.2	4,717.5	3,904.7	4,334.8	3,970.6	3,477.5	4,575.4	3,280.7	4,095.2	3,766.6	4,402.0	54,813.5
2 O&M Expense - SONGS Non-Labor	5,013.1	6,996.2	5,846.7	6,313.7	3,434.1	3,042.7	4,788.1	6,894.8	5,228.0	3,642.5	2,233.1	3,857.9	57,290.9
3 O&M Expense - SONGS Contractual Overheads	3,066.1	3,603.1	3,104.5	2,890.3	3,152.2	2,826.8	2,525.8	3,412.2	2,463.3	3,013.3	2,550.2	2,559.9	35,167.7
4 O&M Expense - SONGS Invoice Lag Adjustment <sup>(2)</sup>	(550.5)	(9,775.1)	(3,330.6)	5,356.7	395.2	3,016.6	1,346.2	(5,022.8)	(1,270.3)	3,995.8	1,966.6	(388.1)	(4,260.3)
5 O&M Expense - SONGS Invoice Total	12,290.0	10,351.4	10,338.1	18,465.4	11,316.3	12,856.7	12,137.6	9,859.6	9,701.7	14,746.8	10,516.5	10,431.7	143,011.8
6 O&M Expense - SONGS Additional Invoicing <sup>(3),(4)</sup>	-	-	11.7	-	-	-	-	-	-	27.0	-	61.0	99.7
7 O&M Expense - SDG&E Corrections to SCE Data	-	-	-	-	-	-	7.6	(0.9)	-	-	-	-	6.7
7 O&M Expense - Total Payments to SCE	12,290.0	10,351.4	10,349.8	18,465.4	11,316.3	12,856.7	12,145.2	9,858.7	9,701.7	14,773.8	10,516.5	10,492.7	143,118.2
8 O&M Expense - Excluded from SONGSBA	-	-	(11.7)	-	-	-	(7.6)	0.9	-	(27.0)	-	(61.0)	(106.4)
9 O&M Expense - Posted to SONGSBA	12,290.0	10,351.4	10,338.1	18,465.4	11,316.3	12,856.7	12,137.6	9,859.6	9,701.7	14,746.8	10,516.5	10,431.7	143,011.8

**2012 Capital Costs, Excluding the Steam Generator Replacement Project <sup>(6),(9)</sup>**  
(thousands of dollars)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD
10 Capital Expenditures - SONGS Labor	481.0	582.6	506.3	360.7	436.7	406.4	391.6	436.5	286.0	499.8	459.2	414.6	5,261.4
11 Capital Expenditures - SONGS Non-Labor	2,513.8	9,342.5	1,628.7	1,197.0	1,443.2	3,173.6	2,627.7	1,272.7	1,519.5	1,981.5	1,378.4	1,552.4	29,631.0
12 Capital Expenditures - SONGS Contractual Overheads	327.0	466.6	332.8	237.4	286.9	283.9	269.4	284.0	190.9	331.2	300.3	273.7	3,584.1
13 Capital Expenditures - SONGS Invoice Lag Adjustment <sup>(2)</sup>	2,588.4	614.3	(2,244.1)	5,473.3	279.4	(2,526.0)	(1,983.5)	1,670.6	2,492.3	1,780.8	(3,341.5)	(4,028.1)	775.9
14 Capital Expenditures - SONGS Invoice Total	5,910.2	11,006.0	223.7	7,268.4	2,446.2	1,337.9	1,305.2	3,663.8	4,488.7	4,593.3	(1,203.6)	(1,787.4)	39,252.4
15 Capital Expenditures - SDG&E Corrections to SCE Data	-	-	-	-	-	-	(7.6)	1.0	-	5.0	-	-	(1.6)
14 Capital Expenditures - Total Payments to SCE <sup>(5)</sup>	5,910.2	11,006.0	223.7	7,268.4	2,446.2	1,337.9	1,297.6	3,664.8	4,488.7	4,598.3	(1,203.6)	(1,787.4)	39,250.8
15 Capital Expenditures - SDG&E Operational Oversight	1.7	2.4	2.5	1.7	2.9	1.9	2.5	2.5	1.8	2.4	1.5	2.6	26.4
16 Capital Expenditures - SDG&E Overheads	152.0	282.2	8.3	209.2	72.9	40.2	48.5	131.0	159.3	188.3	(51.6)	(79.8)	1,160.5
17 Capital Expenditures - SDG&E AFUDC	634.2	682.0	619.5	680.0	500.6	734.9	837.9	826.7	844.1	880.8	824.6	757.4	8,822.7
18 Capital Expenditures - Total <sup>(6)</sup>	6,698.1	11,972.6	854.0	8,159.3	3,022.6	2,114.9	2,186.5	4,625.0	5,493.9	5,669.8	(429.1)	(1,107.2)	49,260.4

[1] SONGS O&M costs are billed by FERC account by SCE. Included in the FERC account billing are refueling costs. SDG&E rely's upon SCE's budget reporting to break out refueling costs for analysis and review

[2] SCE advance bills SDG&E for the month and true-ups previous advance bills. The "Lag Adjustment" converts SONGS data for the billing process to match actual SDG&E postings

[3] Includes \$11.7K for independent consultant for SONGS A&G Study, \$16.6K for Legal costs associated with the SONGS DOE Litigation for Units 2/3, and \$230.8K additional Master Insurance Program billing post audit settlement. These costs were inadvertently excluded from SONGSBA.

[4] Excludes \$2,122.4K SDG&E posting error in June 2012 that did not impact SONGSBA and was subsequently corrected in July 2012.

[5] Capital total excludes \$22.5K of SDG&E non-SONGS costs inadvertently charged to SONGS projects and subsequently corrected in 2013. These costs are included in CWIP for 2012.

[6] Excludes refunds / adjustments associated with prior periods (ex. Joint Minority Owner Audit Findings and DOE Litigation Refund)

# **Appendix C**

## **Timeline**

## Appendix C - Timeline

1/9/2012	U2 Cycle 17 (C17) refueling outage (RFO) started 60-day schedule
1/27/2012	U2 Fuel moved to fuel pool complete
1/31/2012	U3 leak identified
2/5/2012	U2 steam generator retainer bar problem identified
2/8/2012	SCE begins Root Cause Analysis (U3)
2/11/2012	U2 initial Eddy Current Testing (ECT) completed
2/12/2012	U3 ECT inspection locates leaking tube
2/14/2012	U2 Expanded ECT (based on U3 findings) completed
2/14/2012	U2 replace Emergency Core Cooling System mini flow piping project completed
3/1/2012	U2 fuel move from fuel pool to core completed
3/1/2012	SCE Board of Directors (BoD) meeting; Dietrich reports delay restart U2 until source of U3 tube leak known
3/2/2012	U2 High pressure Turbine retrofit project completed
3/4/2012	U2 Replacement Reactor Vessel head project completed
3/4/2012	U2 C17 RFO originally scheduled to end (Return to Service -RTS)
3/13/2012	U2 C17 RTS restart schedule change from 3/20 to 4/15 due to additional ECT
3/13/2012	U3 In-situ pressure test of 129 tubes; 8 tubes fail
3/14/2012	U2 C17 RFO restart schedule changed from 4/15 to 5/16
3/16/2012	U2 equipment hatch closed
3/19/2012	NRC onsite Augmented Inspection Team (AIT) begins ten days of inspections
3/23/2012	SCE submits Steam Generator Return-to-Service Action Plan to NRC
3/27//2012	Confirmatory Action Letter issued by NRC
3/27//2012	U2 C17 RFO restart schedule changed from 5/16 to 6/1
3/2012	SCE developed plan to postpone, cancel, and re-schedule capital projects
4/1/2012	U2 FAC project completed
4/2/2012	U2 RTS scheduled
4/3/2012	U2 equipment hatch opened
4/6/2012	U2 special interest ECT
4/10/2012	U2 Tube-to-Tube wear (TTW) discovered
4/15/2012	U3 initial ECT completed
4/20/2012	U2 TTW inspection letter to NRC
4/23/2012	U2 first tube wear Root Cause Analysis (RCA) issued by SCE
4/23/2012	U2 Emergency Diesel generator replacement project completed
4/24/2012	U2 tube plugging and stabilizing list issued
4/26/2012	SCE BoD meeting with update on SONGS: Fluid Elastic Instability cause of TTW; reports U2 restart on 6/1/12; U3 by 6/30/12
5/7/2012	U3 first tube wear RCA issued by SCE, finds TTW in U2
5/7/2012	U2 C17 RFO restart schedule changed from 6/1 to 7/1

**PROPOSED DECISION**

5/7/2012	NRC Restart statement issued
5/16/2012	NRC issued AIT Charter rev.1
6/2012	U3 planning begins to place U3 into preservation mode
6/7/2012	U2 C17 RFO restart schedule changed from 7/1 to 8/17
6/18/2012	NRC public meeting in San Juan Capistrano (AIT Exit)
6/25/2012	Budget Review Committee meeting to defer capital projects (part 1 of 2)
7/2012	Efforts to place U3 into preservation mode begin
7/1/2012	U2 Vibration and Loose Parts Monitoring System replacement project completed
7/11/2012	Budget Review Committee meeting to defer capital projects (part 2 of 2)
7/18/2012	NRC issues initial AIT report
7/19/2012	U2 C17 RFO restart schedule changed from 8/17 to 11/18
7/27/2012	SCE separates outage response team into U2 Restart and U2/U3 long-term repair teams; SCE tells MHI of expectations of warranty conditions for long-term repair
8/23/2012	U2 C17 RFO restart schedule changed from 11/18 to 12/2
8/22/2012	NRC performs follow-up steam generator AIT inspection
8/25/2012	SCE BoD meeting with SONGS update:
9/4/2012	NRC adopted modified inspection plans for U2/U3 based on "extended Outage Shutdown Condition"
9/6/2012	SCE BoD meeting with SONGS update: status of SONGS as of 8/27 target U2 restart 12/12, U3 4Q2013
9/11/2012	U3 major systems engineering recommendations completed re long-term lay-up plan, reviews on-going; SCE-25
9/24/2012	NRC meets with Mitsubishi Heavy Industries (MHI) in Kobe, Japan
9/28/2012	NRC follow-up inspection of unresolved issues from AIT report
10/2012	SONGS-wide meeting re more inspections(TR 1056)
10/1/2012	U3 reactor defueling begins
10/3/2012	U2 CAL response submitted to the NRC re U2 restart plan
10/5/2012	U3 reactor defueling ends
10/9/2012	NRC public meeting at Dana Point
10/11/2012	MHI reps meet with Avella and Dietrich and proposed repair/replacement options; assessment expected by 2Q13 or 3Q13
10/17/2012	U2 equipment hatch closed
10/20/2012	U2 achieves Mode 4 to test systems
10/23/2012	U2 achieves Mode 3 (raised reactor coolant system to normal operating pressure and temperature to test return-to-service readiness)
10/25/2012	U2 Reactor Coolant System test at normal operating conditions (reactor not critical)
10/25/2012	SCE BoD meeting SONGS status: U2 response to CAL filed with NRC, restart discussions underway; U3 long-term repair plans in development
10/26/2012	U2 entered Mode 4
10/27/2012	U2 returned to Mode 5
11/8/2012	U2 C17 RFO restart schedule changed from 12/2 to 2/3/13

11/8/2012	E. Avella (SCE ) Letter to Dr. A. Kaguchi: provides MHI with SCE's acceptable warranty conditions for long-term repair of the SGs; given in meetings since 7/27/2012; SCE-24
11/9/2012	AIT Follow-up Report : two unresolved issues from CAL; advised no reply to SCE's CAL response until inspections, technical review, public meetings, + 45 days of process time before earliest U2 restart
11/13/2012	Letter from Edward Avella to MHI Regarding Screening Criteria for Acceptance of Steam Generator Permanent Repair (SCE-20)
11/20/2012	SCE submits 1 <sup>st</sup> Proof of Loss to NEAL under outage accident insurance policy (replacement power)
11/28/2012	Letter from P. Dietrich to K. Yamauchi at MHI: MHI hasn't complied with contract to provide repairs or replacements with due diligence; wants repair options for U2 and U3 by 12/28; (SCE-21)
11/30/2012	NRC public Meeting in Laguna Hills
12/3/2012	NRC conducts follow-up inspections to SCE's CAL response
12/5/2012	NRC's Atomic Safety Licensing Board held hearings to determine whether SCE needs a license amendment to restart U2 at 70%
12/13/2012	U2 C17 restart schedule changed from 2/2/13 to 3/3/2013
12/14/2012	MHI progress letters (2) to SCE on long-term repair options (Exhibits SCE-14, SCE-17)
12/14/2012	SCE submits 2 <sup>nd</sup> Proof of Loss to NEAL
12/14/2012	MHI/SCE meeting for status on repair options; SCE-22
12/18/2012	NRC public meeting on requests for Additional Information (RAIs) in Washington D.C.
12/19/2012	Letter from P. Dietrich to K. Yamauchi at MHI: contract requires actual repair or replacement to occur with due diligence and dispatch; SCE-23
12/19/2012	Letter from E. Avella (SCE) to Dr. H. Kaguchi at SONGS SG Repair Site Team: follow-up to 12/14 meeting, MHI should provide 3 options, following SCE review criteria—MHI missed two prior dates for final recs
12/20/2012	MHI provided long-term repair options and recommendations ( SCE-15)
12/20/2012	SCE submits 3 <sup>rd</sup> Proof of Loss to NEAL; total of claims is \$234 million (100%), \$183 million (SCE share)
12/26/2012	NRC request for additional information in response to CAL
12/29/2012	MHI Letter to SCE
2013	
1/30/2013	U3 Long term preservation Plan Rev. 8; SCE-25

**(End of Appendix C)**

# **Appendix D**

## **O&M by Functional Group**

**PROPOSED DECISION**

## Appendix D - O&amp;M by Functional Group

Functional Group		Preliminarily Allowed	Total Base Recorded	Recorded Base-Routine	Difference between Preliminarily Allowed and Recorded Base-Routine	SCE Claimed Exempt <sup>1</sup> (\$ / %)	Comments	
		All values in 1000s of 2012\$, 100% Share						
Operations	Labor	\$31,654	\$39,437	\$34,373	\$(2,719)	\$10,657 / 30%	Responsible for operation of SONGS, including safety systems, in normal or shutdown conditions.	
	Non-Labor	\$3,704	\$1,385	\$1,385	\$2,319			
	Total	\$35,358	\$40,822	\$35,758	\$(400)			
Maintenance	Labor	\$64,401	\$52,518	\$51,409	\$12,992	\$33,025 / 30%	Performs preventive and corrective maintenance and testing of mechanical, electrical, control, and protective systems.	
	Non-Labor	\$45,584	\$36,745	\$36,745	\$8,839			
	Total	\$109,985	\$89,263	\$88,154	\$21,831			
Engineering	Labor	\$41,984	\$40,049	\$37,758	\$4,226	\$7,923 / 15%	Of the five divisions within this group, SCE asserts that three divisions (Plant Engineering, Nuclear Safety, and Nuclear Oversight/Assessment) are essential during shutdown.	
	Non-Labor	\$10,653	\$(1,257)	\$(1,257)	\$11,910			
	Total	\$52,637	\$38,792	\$36,502	\$16,136			
Site Projects	Labor	\$852	\$657	\$657	\$196	\$0 / 0%	Performs cyclical or reactive projects. SCE does not contend that expenses in this group would be necessary under extended shutdown conditions.	
	Non-Labor	\$14,876	\$16,896	\$16,896	\$(2,020)			
	Total	\$15,728	\$17,553	\$17,553	\$(1,825)			
Rad Chemical	Labor	\$15,770	\$12,835	\$11,828	\$3,942	\$7,238 /	Responsible for chemistry control of	

<sup>1</sup> Converted from 2009\$ as shown in Table V-4 of SCE-1 by multiplying by 1.095

**PROPOSED DECISION**

Functional Group		Preliminarily Allowed	Total Base Recorded	Recorded Base-Routine	Difference between Preliminarily Allowed and Recorded Base-Routine	SCE Claimed Exempt <sup>1</sup> (\$ / %)	Comments
Control	Non-Labor	\$8,314	\$7,624	\$7,624	\$690	30%	fuel pools and effluent as well as radioactive material control.
	Total	\$24,084	\$20,459	\$19,452	\$4,632		
Regulatory Affairs	Labor	\$8,917	\$9,316	\$9,112	\$(195)	\$9,591 / 75%	Includes emergency preparedness and occupational safety and health.
	Non-Labor	\$3,843	\$1,714	\$1,714	\$2,129		
	Total	\$12,760	\$11,030	\$10,825	\$1,935		
Security	Labor	\$39,870	\$41,601	\$41,326	\$(1,456)	\$37,357 / 90%	Protection against radiological sabotage per NRC regulations.
	Non-Labor	\$1,410	\$2,112	\$2,112	\$(702)		
	Total	\$41,280	\$43,713	\$43,438	\$(2,158)		
Training	Labor	\$10,670	\$10,963	\$10,942	\$(272)	\$4,427 / 30%	Trains operations, maintenance, and other staff.
	Non-Labor	\$4,049	\$2,619	\$2,619	\$1,430		
	Total	\$4,719	\$13,582	\$13,561	\$1,158		
Nuclear Support	Labor	\$31,239	\$30,646	\$29,762	\$1,477	\$17,879 / 20%	Implements financial planning, budgeting, accounting, and compliance programs.
	Non-Labor	\$58,328	\$52,743	\$52,743	\$5,585		
	Total	\$89,567	\$83,389	\$82,506	\$7,061		
Corporate Support	Labor	\$(10,688)	\$0	\$0	\$(10,688)	n/a	
	Non-Labor	\$(7,032)	\$(20,463)	\$(20,463)	\$13,431		
	Total	\$(17,720)	\$(20,463)	\$(20,463)	\$2,743		
Total	Labor	\$234,669	\$238,021	\$227,165	\$7,504	\$128,096 / 32%	
	Non-Labor	\$143,729	\$100,118	\$100,118	\$43,611		
	Total	\$378,398	\$338,139	\$327,284	\$51,114		

**(End of Appendix D)**

## **Appendix E**

# **SONGS 2012 Base O&M Costs Excluding Corporate Support, Severance, and IT (100% share, 000's of 2012\$)**

**PROPOSED DECISION**

Appendix E – SONGS 2012 Base O&amp;M Costs, excluding Corporate Support, Severance, and IT (100% share, 000's of 2012\$)

Month	Base - Routine				SGIR (includes both "Base" and "Total" SGIR)				Total Adopted Base O&M
	Recorded <sup>1</sup>	Adjustment Factor	Adopted	Disallowed	Recorded <sup>2</sup>	Adjustment Factor	Adopted as Base O&M	To Review in Phase 3 <sup>3</sup>	
January	35,354	1.0	35,354	0	0	1.0	0	0	35,354
February	33,788	1.0	33,788	0	9,246	1.0	9,246	0	43,034
March	29,112	1.0	29,112	0	18,214	0.5	9,107	9,107	38,219
April	29,556	1.0	29,556	0	20,970	0.0	0	20,970	29,556
May	29,135	1.0	29,135	0	7,832	0.0	0	7,832	29,135
June	25,770	0.9	23,193	2,577	10,092	0.0	0	10,092	23,193
July	28,294	0.8	22,635	5,659	13,603	0.0	0	13,603	22,635
August	27,222	0.7	19,055	8,167	30,171	0.0	0	30,171	19,055
September	23,483	0.6	14,090	9,393	20,471	0.0	0	20,471	14,090
October	35,353	0.5	17,677	17,677	2,007	0.0	0	2,007	17,677
November	25,515	0.4	10,206	15,309	3,794	0.0	0	3,794	10,206
December	25,164	0.4	10,066	15,098	4,556	0.0	0	4,556	10,066
Total	347,746	n/a	273,867	73,880	140,956	n/a	18,353	122,603	292,220

**(End of Appendix E)**<sup>1</sup> SCE-35 at 6.<sup>2</sup> Ibid. Sum of lines: "Total Base – SGIR Recorded" and "Total SG Insp & Repair Recorded."<sup>3</sup> If, in Phase 3, SCE is found to have been imprudent or otherwise at fault, these SGIR costs may be subject to refund.

# **Appendix F**

## **Capital Expenditures**

## Appendix F – Capital Expenditures

Category	Projects	2012 Recorded Expenditures (1000s, nominal, 100% share)	Comments
Common - Required	Total	\$38,389	Includes projects that are not unique to a single reactor unit.
	Spare Parts Blanket	\$4,182	Includes long lead time items needed for continuity of service that are not typically used more than once a year.
	Outage Replacements - overhauls to SONGS 2C17 Allowance	\$5,377	Replacements of in-kind capital equipment during the U2 Refueling Outage (RFO)
	U2/3 ISFSI AHSMs	\$4,819	New Advanced Horizontal Storage Modules (AHSMs) are added to the Independent Spent Fuel Storage Installation (ISFSI) for each refueling. The AHSMs protect the fuel canisters and provide radiation protection.
	SCR 32PTH System - Canister	\$5,223	This project is an upgrade of the dry storage fuel canisters to hold more fuel per canister. The project also includes purchase of related equipment.
	U2/3 Dry Cask Spent Fuel Storage - Canisters	\$11,281	Transfer of fuel from the ISFSI to dry storage for the U2 RFO and U3 defueling.
	Other (furniture, computers, tools, transfer of fuel to ISFSI)	\$7,507	
Work in Progress	Total	\$84,533	Includes projects that were in process during 2011.
	Control Room Upgrade	\$3,545	Changes to the Control Room to meet industry standards and NRC expectations.
	Eddy Current Testing U2C17	\$3,851	The NRC requires a full length examination of each steam generator tube after the first cycle of operation.
	CCW Heat Exchangers SONGS 2	\$5,017	The Component Cooling Water (CCW) heat exchangers for U2 were replaced during the RFO.

**PROPOSED DECISION**

Category	Projects	2012 Recorded Expenditures (1000s, nominal, 100% share)	Comments
	U2 High Pressure Turbine (HPT) Retrofit	\$7,075	The U2 HPT was replaced during the RFO. This project was approved by the CPUC in SCE's 2009 GRC, D.09-03-025.
	Replace 400' of U2 ECCS Schedule 10 Mini Flow Piping	\$7,629	During the U2 Cycle 16 RFO, evidence of damage to the Emergency Core Cooling Schedule (ECCS) 10 piping was discovered. During the U2 Cycle 17 RFO in 2012, the highest risk sections of piping were replaced.
	FAC - Capital R2C17	\$7,658	This is part of a long-term project to replace piping components subject to Flow Accelerated Corrosion (FAC). The costs shown here were incurred during the U2 Cycle 17 RFO. Replacements for U3 were rescheduled.
	U2 Rapid Refueling	\$10,840	Completed during the U2 Cycle 17 RFO, this project was designed to allow faster assembly and disassembly of the Reactor Vessel Heads (RVH).
	U2 Procure & Install RRVH Heads	\$29,069	Replacement of the RVH during the U2 Cycle 17 RFO.
	Other (Tech Specs, various capital replacements)	\$9,849	
Emergent - Regulatory Required	Total	\$17,937	Projects that emerged after SCE's 2012 GRC forecast due to regulatory requirements.
	Cyber Security Phase 2	\$3,576	Phase 2 (of 3) of an NRC-required project to implement a cyber security defense strategy.
	NFPA-805 Fire	\$4,494	An ongoing project to meet NRC fire protection requirements that apply regardless of the operational status of the plant.
	Other (upgrades related to Once Through Cooling environmental, Fukushima	\$9,867	

**PROPOSED DECISION**

Category	Projects	2012 Recorded Expenditures (1000s, nominal, 100% share)	Comments
	responses, and security)		
Rescheduled	Total	\$1,434	Projects that were started in 2012, but rescheduled or suspended after the outage began.
Ongoing - Completion Rescheduled	Total	\$19,754	Projects started before 2012, but rescheduled or suspended due to the outages. Includes some projects for U3 that are analogous to U2 projects described in the "Works in Progress" category.
	U3 HPT Retrofit Project	\$8,963	Analogous to the U2 project above, but not completed.
	Other (CCW Heat Exchangers, Rapid Refueling and RVHs, U2 water purification)	\$10,791	
Marine Mitigation	Total	\$5,559	Ongoing projects to comply with SONGS's permit from the California Coastal Commission.
	Reef	\$1,388	Costs associated with Coastal Commission monitoring of the completed reef.
	Wetlands	\$4,171	Monitoring of the restored wetlands and corrective construction.
<b>Grand Total</b>		<b>\$167,606</b>	

(End of Appendix F)

**Appendix G**

**Results of Operations Model Output  
From SCE's GRC**

<b>Revenue Requirement Impacts</b> (Thousands of 2012 Dollars)	
<b>SCE</b>	
Revenue Requirement due to adjustments of \$58.643 million for O&M (SCE's share) and \$26.216 million for capital (SCE's share)	\$5,599,800
Revenue Requirement Adopted in 2012 GRC	\$5,670,748
Revenue Requirement Increase (Decrease)	(\$70,948)
<b>SDG&amp;E</b>	
Revenue Requirement due to adjustments of \$14.996 million for O&M (SDG&E's share) and \$7.904 million for capital (SDG&E's share)	\$142,249
Revenue Requirement Adopted in 2012 GRC	\$158,251
Revenue Requirement Increase (Decrease)	(\$16,002)
<b>COMBINED IMPACT</b>	
Total Revenue Requirement Increase (Decrease) due to SONGS Phase I adjustments	(\$86,950)