Applications : <u>A.06-12-009 / 010</u>

Exhibit Number : <u>DRA-5-R</u> Commissioner : Bohn

ALJ : Long

Witness : Evans



DIVISION OF RATEPAYER ADVOCATES CALIFORNIA PUBLIC UTILITIES COMMISSION

Report on the Results of Operations for San Diego Gas & Electric Company Southern California Gas Company General Rate Case Test Year 2008

SDG&E Electric Generation and SONGS Operation & Maintenance Expenses and Capital Expenditures

> San Francisco, California August 15, 2007

1		CHAPTER 1			
2					
3		SAN DIEGO GAS & ELECTRIC COMPANY ELECTRIC GENERATION			
4 5		OPERATION AND MAINTENANCE EXPENSES			
6		AND CAPITAL EXPENDITURES			
7					
8	I.	INTRODUCTION			
9		This chapter presents the analysis and recommendations of DRA for San			
10	Die	go Gas & Electric Company's (SDG&E) Palomar and Miramar natural gas fired			
11	elec	etric generation facilities, for both operation and maintenance (O&M) expenses			
12	and capital expenditures. Generation O&M expenses accumulate in FERC				
13	Accounts 500 through 514 and 546 through 554. These were evaluated by DRA on				
14	an account-by-account basis.				
15	SDG&E's interest in the San Onofre Nuclear Generation Station (SONGS) is				
16	the subject of Chapter 2 of this exhibit.				
17					
18	II.	SUMMARY OF RECOMMENDATIONS			
19		The following summarizes DRA's recommendations:			
20		 DRA accepts SDG&E's forecasted electric generation O&M expense 			
21		estimates for 2008.			
22		DRA recommends electric generation capital expenditures of \$469.1			
23		million in 2006, \$11.0 million in 2007, and \$1.9 million in 2008.			
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Table 5-1 compares DRA's recommended with SDG&E's proposed estimates for Test Year (TY) 2008:

Table 5-1 Electric Generation O&M Expenses for 2008 (in Thousands of 2005 Dollars)

Description (a)	DRA Recommended (b)	SDG&E Proposed (c)	Amount SDG&E>DRA (d=c-b)	Percentage SDG&E>DRA (f=d/b)
Electric Generation O&M	\$17,510	\$17,510	\$ 0	0.00%

Table 5-2 compares DRA's recommended capital expenditures with SDG&E's proposed estimates for 2006-2008:

Table 5-2
Electric Generation Capital Expenditures 2006-2008
(in Thousands of 2005 Dollars)

Year	DRA Recommended	SDG&E Proposed ² (c)	Amount SDG&E>DRA	Percentage SDG&E>DRA
(a)	(b)	(6)	(d=c-b)	(e=d/b)
2006	\$469,105	\$483,025	\$13,920	2.97%
2007	\$11,015	\$6,515	(\$4,500)	(40.85%)
2008	\$1,939	\$1,939	\$ 0	0.00%
Total	\$482,059	\$491,479	\$9,420	1.95%

III. DISCUSSION / ANALYSIS of ELECTRIC GENERATION O&M EXPENSES

Other than its interest in the San Onofre Nuclear Generation Station (SONGS), SDG&E divested all of its electrical generation facilities as part of the deregulation of California's electric utilities in the 1990's. In the last two years, SDG&E has re-entered the electric generation business with the acquisition of two natural gas fired power plants: (1) Miramar, a 46 MW combustion turbine (CT) plant, which became operational for SDG&E on July 26, 2005; and (2) Palomar, a 555 MW

¹ Exh.SDG&E-2, pg. DSB-2.

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1 combined cycle (CC) plant, which became operational for SDG&E on March 30, 2006.³ 2

Since these plants are so new, there is very little operational history on which to base forecasts of future O&M expenses; since the plants are operated by a single staff, with Miramar only run during peak load periods, the recorded O&M expenses are not separated by plant. Therefore, it is difficult to rely on the 2006 historical recorded expense (which is only a partial year for Palomar but a full year of operation for Miramar) as a basis for determining expenses at either plant – at Miramar, since its expenses are not separated out from Palomar, and at Palomar, since its expenses do not record a full year of operation.

Despite these difficulties, DRA reviewed the adjusted-recorded 2005 and 2006 expenses for all relevant FERC accounts (500, 502, 505, 506, 507, 511, 512, 513, 514, 546, 549, 552, 553, and 554), and compared them to SDG&E's forecasted 2008 expenses. The total forecasted 2008 expense (in 2005 dollars) was \$17.51 million, which is actually less than the adjusted-recorded 2006 expense (in 2005) dollars) of \$18.363 million. ⁴ Therefore, DRA does not take issue with SDG&E's forecasted test year 2008 non-nuclear generation expense.

DISCUSSION / ANALYSIS of ELECTRIC GENERATION CAPITAL IV. **EXPENDITURES**

SDG&E forecasts capital expenditures of \$483.0 million in 2006, \$6.5 million in 2007, and \$1.9 million in 2008, as shown on Table 5-2.

Since Miramar became operational for SDG&E in 2005, the generation capital expenditure for 2005 was predominantly the cost of acquiring Miramar (\$29 million out of \$34 million total $\frac{5}{2}$). Similarly, the 2006 generation capital expenditure is

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Excel File SDGE 2006 Adj_Rec Data.xls, tab SDGE NSS Adj Rec. This data needed to be sorted by witness (Baerman) and summed to calculate the \$18,363k.

⁵ Excel File SDGE_capex-2006_DRA.xls, tab General_esc.

predominantly the cost of acquiring Palomar (\$467 million out of \$469 million total $\frac{6}{2}$). 1 2 SDG&E's 2006 adjusted-recorded capital expenditure for non-nuclear generation 3 was significantly less than the forecasted amount. The adjusted-recorded amount is \$469.1 million, $\frac{7}{2}$ compared to the forecasted amount of \$483 million $\frac{8}{2}$ (including the 4 Palomar chiller project), or \$478.5 million without the chiller (all figures in 2005) 5 6 dollars). DRA recommends adopting the adjusted-recorded figure for 2006 capital 7 expenditures. 8 Since the 2006 recorded adjusted expenditure did not include the Palomar 9 chiller project, which was forecasted at \$4.5 million in 2006 and \$5.5 million in 2007, 10 DRA recommends that SDG&E's forecasted amount for 2007 be increased 10 by \$4.5 million, to \$11.0 million, to accommodate the chiller project. DRA accepts 11 12 SDG&E's capital expenditure of \$1.9 million for 2008.

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<u>7</u> Ibid.

⁸ Exh.SDG&E-2, pg. DSB-2.

⁹ Ibid.

¹⁰ Ibid.

1	CHAPTER 2
2 3	SAN DIEGO GAS & ELECTRIC COMPANY
4	SAN ONOFRE NUCLEAR GENERATING STATION
5	OPERATION AND MAINTENANCE EXPENSES
6	AND CAPITAL EXPENDITURES
7	
8	I. INTRODUCTION
9	This chapter presents DRA's analysis and recommendations regarding San
10	Diego Gas & Electric Company's (SDG&E) share of the San Onofre Nuclear
11	Generating Station (SONGS) operation and maintenance (O&M) expenses and
12	capital expenditures. SONGS O&M expenses accumulate in FERC's Nuclear Power
13	Generation Accounts 517 through 532. These were evaluated by DRA on an
14	account-by-account basis in another case (Application 04-12-014), and adjudicated
15	by the Commission in Decision (D.) 06-05-016. The results of that Decision are
16	carried over to this case, and are the basis of DRA's recommendation here.
17	Nuclear Power Generation expenses are the operation and maintenance
18	expenses of power generation facilities using nuclear reactors, including supervision
19	and engineering, expenses for nuclear fuel, coolant, steam, structures, plant
20	equipment, and miscellaneous. Operations expenses are recorded in accounts 517
21	through 525. Maintenance expenses are recorded in accounts 528 through 532.
22	Pursuant to D.06-11-026 (A.06-04-012), the Commission authorized SDG&E
23	to recover through a two-way balancing account the difference between authorized
24	and actual SONGS O&M costs. Therefore, any deviation from the adopted O&M
25	expenses will be captured in the balancing account.
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27	II. SUMMARY OF RECOMMENDATIONS
28	The following summarizes DRA's recommendations:
29	DRA accepts SDG&E's forecasted SONGS O&M expense estimates for
30	2008.

 DRA recommends no adjustments to SONGS capital expenditures for 2006-2008. of \$20.3 million in 2006, \$21.0 million in 2007, and \$16.7 million in 2008. The figure for 2006 is the adjusted recorded amount. The figures for 2007 and 2008 are based on Southern California Edison's (SCE) estimates for capital expenditures in its last GRC.

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Table 5-3 compares DRA's recommended O&M expenses with SDG&E's proposed estimates for Test Year (TY) 2008 (no adjustment):

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Table 5-3 SONGS O&M Expense for 2008 (in Thousands of 2005 Dollars)

Description (a)	DRA Recommended (b)	SDG&E Proposed (c)	Amount SDG&E>DRA (d=c-b)	Percentage SDG&E>DRA (e=d/b)
Operations	\$64,258	\$64,258	\$0	0.00%
Maintenance	\$23,942	\$23,942	\$0	0.00%
Total	\$88.200	\$88,200	\$0	0.00%

Table 5-4 compares DRA's recommended capital expenditures with SDG&E's

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proposed estimates for 2006-2008:

Table 5-4

SONGS Capital Expenditures 2006-2008

(in Thousands of 2005 Dollars)

Year (a)	DRA Recommended (b)	SDG&E Proposed (c)	Amount SDG&E>DRA (d=c-b)	Percentage SDG&E>DRA (e=d/b)
2006	\$25,600 20,300	\$25,600	\$ 0 5,300	26.11 0.00%
2007	\$26,200 21,000	\$26,200	\$ 0 5,200	24.76 0.00%
2008	\$26,900 16,700	\$26,900	\$ 0 10,200	61.08 0.00%
Total	\$78,700 58,000	\$78,700	\$ 0 20,700	35.69 0.00%

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¹¹ Exh SDG&E-3, pg. MO-5, as modified by Exh SDG&E-3-WP, pg. MO-29, and reflected in Exh SDG&E-28, Appendix A, pgs 1,3, 4, & 9.

¹² Exh SDG&E-3, pg. MO-7.

III. DISCUSSION / ANALYSIS of SONGS O&M EXPENSE	III.	DISCUSSION	/ ANALYSIS	of SONGS	O&M EXPENSE
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SONGS is a nuclear fueled electric generation power plant located on the southern California coastline adjoining the Camp Pendletton U.S. Marine Corps Base north of San Diego. Southern California Edison (SCE) is the operator and primary owner of the plant, with an interest of over 75%. SDG&E owns a 20% interest. The site contains three nuclear reactors – units 1, 2 and 3. Units 2 and 3 are currently in use with a combined rated capacity of 2,254 megawatts. Unit 1 was retired in 1992 and is being decommissioned.

SDG&E forecasts SONGS O&M expenses of \$88.12 million in 2008, as shown in Table 15-3.

Since SCE is the majority owner and operating agent of SONGS, SCE bills SDG&E for 20% of the total capital expenditures and O&M expenses. In order to ensure consistency of treatment of these expenditures, they are considered in SCE's General Rate Cases. SCE's most recent rate case is A.04-12-014. Decision 06-05-016 was rendered in that case on May 11, 2006. SDG&E's proportionate share of the total SONGS capital expenditures and O&M expenses in this case is based on the costs adopted in the SCE GRC.

Since D.06-05-016 set the 100% level of SONGS O&M expenses, and SDG&E's figures are derived from those authorized levels, DRA agrees to SDG&E's SONGS O&M expense request. Included in SDG&E's application, but not based on the SCE Decision, are two additional SONGS expenses - \$0.948 million for SONGS Unit 1 spent fuel storage and \$0.020 million for land lease. As in previous SDG&E GRCs, DRA accepts these expenses.

The future expenses of the SONGS Steam Generator Replacement Project, which are the subject of separate proceedings, are not included in this GRC.

D.06-05-016 also established a new mechanism for setting SONGS refueling outage expenses, which vary widely depending on how many refueling projects are done in a given year. The SCE GRC decision set an expense amount for each refueling outage, to be applied as many times per year as appropriate (zero, one, or two). SDG&E's Advice Letter 2103-E, dated February 15, 2007, documented the two refueling outages in 2006. SDG&E's proportionate share of the Refueling

1	Outage O&M costs adopted in D.06-05-016 is \$15.3 million (2008\$) per refueling					
2	outage.					
3	In D.06-11-026, the Commission established a two-way balancing account for					
4	SDG&E's SONGS O&M costs, including refueling outage O&M costs, and SCE					
5	contractual overheads billed to SDG&E under the SONGS Operating Agreement					
6	after January 1, 2007. Therefore, any deviations between the forecast and actual					
7	SONGS O&M costs will be captured in the balancing account.					
8	DRA accepts SDG&E's SONGS expense estimate for 2008.					
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10	IV. DISCUSSION / ANALYSIS of SONGS CAPITAL EXPENDITURES					
11	Capital expenditures associated with the Steam Generator Replacement					
12	Project (SGRP) are the subject of separate proceedings, and therefore are not					
13	included in this GRC. Other than the SGRP, SDG&E is requesting capital					
14	expenditures for SONGS of \$25.6 million in 2006, \$26.2 million in 2007, and \$26.9					
15	million in 2008, purportedly based on what was authorized for this facility in SCE's					
16	GRC. DRA recognizes that SDG&E's SONGS costs for 2009 and subsequent					
17	attrition years will be litigated in SCE's TY 2009 GRC. The 2007 and 2008 figures					
18	are a simple escalation of 2.5% per year over the amount for the previous year.					
19	Theses SDG&E capital forecasts are not consistent with SCE's actual SONGS GRC					
20	capital forecasts for 2007 and 2008. Rather than rely on the attrition forecast from					
21	SCE's TY 2006 General Rate Case, DRA proposes using actual 2006 expenditures					
22	combined with more accurate 2007 and 2008 forecasts.					
23	The capital expenditure forecast originally performed by SCE, the majority					
24	owner of SONGS, indicated SDG&E's forecasted share as \$25.6 million in 2006,					
25	\$21 million in 2007, and \$16.7 million in 2008. Adjusting the \$25.6 million 2006					
26	figure by \$1.45 million (to account for SDG&E's 6% A&G on Capital rate), the					
	13 Exh SDG&E-3, pg. MO-7.					
	14 Exh SDG&E-3, pg. MO-6.					

1	forecasted 2006 capital template request amount in this GRC is \$24.172 million.
2	However, the actual capital expenditure for 2006 was \$19.172 million, or \$5 million
3	less than forecasted. DRA's position is that SDG&E should be made whole for its
4	expenses billed by SCE, and that the authorized revenue requirement for SONGS,
5	including capital additions, should reflect the best available forecasts, which
6	presumes replacing forecasted costs with actual costs when they become available.
7	The actual SONGS capital expenditures in 2006 were about 20% less than-
8	SDG&E's forecast. SCE's forecasted SONGS capital expenditures in 2007 and
9	2008 were decreasing from their estimated 2006 level. DRA concludes that the
10	2.5% annual escalation advocated by SDG&E is too high. A more reasonable
11	approach is to use the actual 2006 expenditure and the forecasts submitted by SCE
12	for 2007 and 2008. Therefore, DRA recommends that the level of SONGS capital-
13	expenditures authorized for SDG&E in this GRC should be \$20.3 million for 2006,
14	\$21.0 million for 2007, and 16.7 million for 2008.
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<u>45</u> Excel file SDGE_capex_2006_DRA.xls, tab General_esc.

¹⁶ The \$20.3 million figure for 2006 is the \$19.172 million adjusted-recorded amount plus 6% additional for A&G on capital.