

Application of SAN DIEGO GAS & ELECTRIC)
COMPANY for authority to update its gas and)
electric revenue requirement and base rates)
effective January 1, 2016 (U 902-M))

Application No. 14-11-____
Exhibit No.: (SDG&E-12-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF MICHAEL L. DE MARCO
ON BEHALF OF SAN DIEGO GAS & ELECTRIC COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

NOVEMBER 2014



2016 General Rate Case - APP
INDEX OF WORKPAPERS

Exhibit SDG&E-12-WP - ELECTRIC GENERATION - SONGS

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Overall Summary For Exhibit No. SDG&E-12-WP

Area:	ELECTRIC GENERATION - SONGS
Witness:	Michael L. De Marco

Description	In 2013 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Non-Shared Services	1,324	1,251	1,270	1,293
Shared Services	0	0	0	0
Total	1,324	1,251	1,270	1,293

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
 2016 GRC - APP
 Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco

Summary of Non-Shared Services Workpapers:

Description	In 2013 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
A. Unit 1 Spent Fuel Storage GE-Hitachi	1,012	1,022	1,041	1,064
B. SONGS MIP Worker's Compensation	312	229	229	229
Total	1,324	1,251	1,270	1,293

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
Witness: Michael L. De Marco
Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
Workpaper: 1ES000.000

Summary for Category: A. Unit 1 Spent Fuel Storage GE-Hitachi

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	0	0	0	0
Non-Labor	0	0	0	0
NSE	1,012	1,022	1,041	1,064
Total	1,012	1,022	1,041	1,064
FTE	0.0	0.0	0.0	0.0

Workpapers belonging to this Category:

1ES000.000 EG -SONGS Wkp_Grp_1

Labor	0	0	0	0
Non-Labor	0	0	0	0
NSE	1,012	1,022	1,041	1,064
Total	1,012	1,022	1,041	1,064
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1ES000.000 - EG -SONGS Wkp_Grp_1

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
 Category-Sub: 1. Unit 1 Spent Fuel Storage GE-Hitachi
 Workpaper: 1ES000.000 - EG -SONGS Wkp_Grp_1

Activity Description:

Cost for the storage of 270 Unit 1 spent fuel assemblies at GE-Hitachi in Morris IL. The contract specifies escalation based upon Bureau of Labor Statistics. Linear and Averaging forecast methods are not applicable in escalating these costs. SCE prepares forecast based terms of the contract and provides that to SDG&E. SDG&E's share as forecast by SCE by Nuclear Fuel Manager, Steve Lelewer. Unit 1 Spent Fuel costs are not forecast by SCE in its 2016 GRC, but rather SCE includes Unit 1 Spent Fuel costs in its annual ERRR filing.

To the extent that the CPUC, IRS and NRC, if applicable, determines that the Unit 1 Spent Fuel Cost are recovered from the Unit 1 Nuclear Decommissioning Trust Fund, the revenue requirement for these costs will be removed from SDG&E's revenue requirement.

Forecast Explanations:

Labor - Zero-Based

The forecast labor escalation is reflected in the forecast using Global Insights forecast of the BLS Series PRS88003103 Nonfinancial Corporations Hourly Compensation. The GE-Hitachi Contract specifies that 45% of the base cost of \$216,000 per month is labor related and will be escalated from the base year (4Q1986) to the current quarter. This escalation is prepared by SCE in forecasting future Unit 1 Spent Fuel Storage cost at Morris IL.

Non-Labor - Zero-Based

The forecast non-labor escalation is reflected in the forecast using Global Insights forecast of the BLS Series WPU03THRU15 Industrial Commodities. The GE-Hitachi Contract specifies that 30% of the base cost of \$216,000 per month is non-labor related and will be escalated from the base year (Jan 1987) to the current month. This escalation is prepared by SCE in forecasting future Unit 1 Spent Fuel Storage at Morris IL.

NSE - Zero-Based

As SCE has provided a forecast with both the labor and non-labor escalation values, the figures in the forecast are nominal based and do not require additional escalation. In addition there is an annual security fee charged due to regulatory costs increases which were \$17K, SDG&E's share, for the Oct 2013 - Sept 2013 period which are allocated to site users on a prorata basis.

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	0	0	0	0	0	
Non-Labor		0	0	0	0	0	0	0	0	
NSE		1,025	1,021	1,025	1,025	1,012	1,022	1,041	1,064	
Total		1,025	1,021	1,025	1,025	1,012	1,022	1,041	1,064	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
Witness: Michael L. De Marco
Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
Category-Sub: 1. Unit 1 Spent Fuel Storage GE-Hitachi
Workpaper: 1ES000.000 - EG -SONGS Wkp_Grp_1

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Zero-Based	0	0	0	0	0	0	0	0	0
Non-Labor	Zero-Based	0	0	0	0	0	0	0	0	0
NSE	Zero-Based	0	0	0	1,022	1,041	1,064	1,022	1,041	1,064
Total		0	0	0	1,022	1,041	1,064	1,022	1,041	1,064
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014	0	0	1,022	1,022	0.0	1-Sided Adj

Forecast SDG&Es 20% share based on SCEs Forecast of Unit 1 Spent Fuel Storage Costs plus escalation according to GE-Hitachi fuel storage contract plus \$17k, SDG&E share, for enhanced security costs

2014 Total	0	0	1,022	1,022	0.0	
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2015	0	0	1,041	1,041	0.0	1-Sided Adj
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Forecast SDG&Es 20% share based on SCEs Forecast of Unit 1 Spent Fuel Storage Costs plus escalation according to GE-Hitachi fuel storage contract plus \$17k, SDG&E share, for enhanced security costs.

2015 Total	0	0	1,041	1,041	0.0	
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2016	0	0	1,064	1,064	0.0	1-Sided Adj
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Forecast SDG&Es 20% share based on SCEs Forecast of Unit 1 Spent Fuel Storage Costs plus escalation according to GE-Hitachi fuel storage contract plus \$17k, SDG&E share, for enhanced security costs

2016 Total	0	0	1,064	1,064	0.0	
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Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
Witness: Michael L. De Marco
Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
Category-Sub: 1. Unit 1 Spent Fuel Storage GE-Hitachi
Workpaper: 1ES000.000 - EG -SONGS Wkp_Grp_1

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	927	944	987	1,009	1,012
Total	927	944	987	1,009	1,012
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	927	944	987	1,009	1,012
Total	927	944	987	1,009	1,012
FTE	0.0	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2013\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	98	77	38	15	0
Total	98	77	38	15	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	1,025	1,021	1,025	1,025	1,012
Total	1,025	1,021	1,025	1,025	1,012
FTE	0.0	0.0	0.0	0.0	0.0

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
 Category-Sub: 1. Unit 1 Spent Fuel Storage GE-Hitachi
 Workpaper: 1ES000.000 - EG -SONGS Wkp_Grp_1

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	-0.001
NSE	927	944	987	1,009	1,012
Total	927	944	987	1,009	1,012
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	0	0	927	0.0	1-Sided Adj	N/A	TCURTIS201309 30132535080

Unit 1 Spent Fuel Storage Costs are not picked up as the monthly charges are booked to a general ledger account rather than a cost element. As GRC historical costs are picked up by cost element, 270 spent fuel assemblies from Unit 1 storage at the GE-Hitachi facility in Morris, IL, were not picked up in the capture from the historical cost reporting system. Escalation is determined by the contract with GE-Hitachi and is based upon Bureau of Labor Statistics index for wages-hourly compensation nonfinancial corporations and industrial commodities. Therefore escalation is non-standard.

2009 Total	0	0	927	0.0			
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2010	0	0	944	0.0	1-Sided Adj	N/A	TCURTIS201309 30135515397
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Unit 1 Spent Fuel Storage Costs are not picked up as the monthly charges are booked to a general ledger account rather than a cost element. As GRC historical costs are picked up by cost element, 270 spent fuel assemblies from Unit 1 storage at the GE-Hitachi facility in Morris, IL, were not picked up in the capture from the historical cost reporting system. Escalation is determined by the contract with GE-Hitachi and is based upon Bureau of Labor Statistics index for wages-hourly compensation nonfinancial corporations and industrial commodities. Therefore escalation is non-standard.

2010 Total	0	0	944	0.0			
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Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: A. Unit 1 Spent Fuel Storage GE-Hitachi
 Category-Sub: 1. Unit 1 Spent Fuel Storage GE-Hitachi
 Workpaper: 1ES000.000 - EG -SONGS Wkp_Grp_1

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	0	0	987	0.0	1-Sided Adj	N/A	TCURTIS201309 30135647980

Unit 1 Spent Fuel Storage Costs are not picked up as the monthly charges are booked to a general ledger account rather than a cost element. As GRC historical costs are picked up by cost element, 270 spent fuel assemblies from Unit 1 storage at the GE-Hitachi facility in Morris, IL, were not picked up in the capture from the historical cost reporting system. Escalation is determined by the contract with GE-Hitachi and is based upon Bureau of Labor Statistics index for wages-hourly compensation nonfinancial corporations and industrial commodities. Therefore escalation is non-standard.

2011 Total	0	0	987	0.0			
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2012	0	0	1,009	0.0	1-Sided Adj	N/A	TCURTIS201309 30135811473
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Unit 1 Spent Fuel Storage Costs are not picked up as the monthly charges are booked to a general ledger account rather than a cost element. As GRC historical costs are picked up by cost element, 270 spent fuel assemblies from Unit 1 storage at the GE-Hitachi facility in Morris, IL, were not picked up in the capture from the historical cost reporting system. Escalation is determined by the contract with GE-Hitachi and is based upon Bureau of Labor Statistics index for wages-hourly compensation nonfinancial corporations and industrial commodities. Therefore escalation is non-standard.

2012 Total	0	0	1,009	0.0			
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2013	0	0	1,012	0.0	1-Sided Adj	N/A	TCURTIS201402 03110133363
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Actual Unit 1 Spent Fuel Storage Costs for 270 spent fuel assemblies stored at GE-Hitachi, Morris, IL - SDG&Es 20% share based on SCE's Unit 1 Spent Fuel Storage Costs plus escalation according to the GE- Hitachi fuel storage contract plus \$17k, SDG&Es share of enhanced security costs. Costs are not picked up as the monthly charges are booked to a general ledger account rather than a cost element. As GRC historical costs are picked up by cost element, the cost for the 270 spent fuel assemblies from Unit 1 storage at the GE-Hitachi facility in Morris, IL, were not picked up in the capture from the historical cost reporting system. Escalation is determined by the contract with GE-Hitachi and is based upon Bureau of Labor Statistics index for wages-hourly compensation nonfinancial corporations and industrial commodities. Therefore escalation is non-standard.

2013	0	-0.001	0	0.0	1-Sided Adj	N/A	TCURTIS201402 03110434417
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To remove \$1 non-labor entry.

2013 Total	0	-0.001	1,012	0.0			
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Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper 1ES000.000

SOUTHERN CALIFORNIA EDISON'S FORECAST OF UNIT 1 SPENT FUEL COSTS

From Forecast data provided by Treasurers 3/1/2013.

Year	PRS88003103	WPU03THRU15
	JECIWSSP	WPIPIIND
2011	1.143	2.02
2012	1.165	2.02
2013	1.189	2.01
2014	1.219	2.05
2015	1.250	2.07
2016	1.285	2.09
2017	1.322	2.12
2018	1.360	2.16
2019	1.400	2.19
2020	1.440	2.23
2021	1.482	2.26
2022	1.524	2.30

File: 2013 Nuk Fuel Escalation Forecast 022813 deliverable-rev1.xls

Forecast data provided by Treasurers 12/3/2013.

Year	JECIWSSP	WPIPIIND
	2011	1.143
2012	1.165	2.02
2013	1.188	2.03
2014	1.216	2.04
2015	1.248	2.07
2016	1.284	2.12
2017	1.322	2.15
2018	1.362	2.17
2019	1.404	2.19
2020	1.446	2.23
2021	1.489	2.29
2022	1.533	2.31
	1.579	2.34

From GE Morris Contract

\$ 800.00 per bundle per month
 270 bundles
 50.774 Labor index basis
 45 percent on labor
 100.4 equip Index basis
 30 percent on equip

Escalation formula Base x (.45*labor index/labor index base + .30*equip index/equip index base + .25)

Anticipated cost at 100% level 2014-2022

Year	per month ave.	per year	revised values for 12-3-13		delta per month (revised vs orig)	SDG&E's Share	Plus Easement	,+ \$17k Security
			per month ave.	per year				
2014	\$ 419,801.01	\$ 5,037,612.12	\$ 418,615.85	\$ 5,023,390.14	\$ (1,185.16)	\$ 1,004,678.03	\$ 1,024,825.03	\$ 1,021,678.03
2015	\$ 426,832.75	\$ 5,121,993.05	\$ 426,773.56	\$ 5,121,282.70	\$ (59.20)	\$ 1,024,256.54	\$ 1,044,403.54	\$ 1,041,256.54
2016	\$ 435,082.04	\$ 5,220,984.46	\$ 436,430.29	\$ 5,237,163.51	\$ 1,348.25	\$ 1,047,432.70	\$ 1,067,579.70	\$ 1,064,432.70
2017	\$ 443,972.36	\$ 5,327,668.34	\$ 445,599.44	\$ 5,347,193.25	\$ 1,627.08	\$ 1,069,438.65	\$ 1,089,585.65	\$ 1,086,438.65
2018	\$ 453,505.92	\$ 5,442,070.99	\$ 455,004.98	\$ 5,460,059.73	\$ 1,499.06	\$ 1,092,011.95	\$ 1,112,158.95	\$ 1,109,011.95
2019	\$ 463,551.43	\$ 5,562,617.11	\$ 464,312.20	\$ 5,571,746.43	\$ 760.78	\$ 1,114,349.29	\$ 1,134,496.29	\$ 1,131,349.29
2020	\$ 473,403.31	\$ 5,680,839.73	\$ 474,968.94	\$ 5,699,627.25	\$ 1,565.63	\$ 1,139,925.45	\$ 1,160,072.45	\$ 1,156,925.45
2021	\$ 483,638.07	\$ 5,803,656.82	\$ 486,613.88	\$ 5,839,366.60	\$ 2,975.81	\$ 1,167,873.32	\$ 1,188,020.32	\$ 1,184,873.32
2022	\$ 494,389.16	\$ 5,932,669.93	\$ 496,729.07	\$ 5,960,748.87	\$ 2,339.91	\$ 1,192,149.77	\$ 1,212,296.77	\$ 1,209,149.77

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: B. SONGS MIP Worker's Compensation
 Workpaper: 1ES001.000

Summary for Category: B. SONGS MIP Worker's Compensation

	In 2013\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2013	2014	2015	2016
Labor	0	0	0	0
Non-Labor	0	0	0	0
NSE	312	229	229	229
Total	312	229	229	229
FTE	0.0	0.0	0.0	0.0

Workpapers belonging to this Category:

1ES001.000 EG -SONGS Wkp_Grp_2

Labor	0	0	0	0
Non-Labor	0	0	0	0
NSE	312	229	229	229
Total	312	229	229	229
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
1ES001.000 - EG -SONGS Wkp_Grp_2

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: B. SONGS MIP Worker's Compensation
 Category-Sub: 1. SONGS MIP Worker's Compensation
 Workpaper: 1ES001.000 - EG -SONGS Wkp_Grp_2

Activity Description:

SCE bills SDG&E for costs arising from Worker's Compensation under the Master Insurance Program (MIP) program related to incidents that occurred at SONGS while the Master Insurance Program (MIP) was active. The MIP insured the owners and all contractors and subcontractors under one insurance program for General Liability and Workers' Compensation insurance for all of SCE. The MIP program was started in 1972, and was terminated in 1999. Since it was terminated in 1999, there were no longer premiums paid into the program to pay for claims. However, there are still numerous open claims which are SONGS responsibility. Since claims covered by the MIP have a long life, the MIP remains open until all claims are closed.

Forecast Explanations:

Labor - Zero-Based

Not applicable. Amounts are non-labor

Non-Labor - Zero-Based

Based upon 2012 actual Worker's Compensation costs incurred under the Master Insurance Program (MIP) program expenses billed to SDG&E by SCE.

NSE - Zero-Based

As there is no reliable forecast of future Worker's Compensation under the Master Insurance Program (MIP) program costs to be incurred, SDG&E has selected 2012 actual costs as the Test Year forecast.

Summary of Results:

		In 2013\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2009	2010	2011	2012	2013	2014	2015	2016	
Labor		0	0	0	0	0	0	0	0	
Non-Labor		0	0	0	0	0	0	0	0	
NSE		255	194	162	232	312	229	229	229	
Total		255	194	162	232	312	229	229	229	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: B. SONGS MIP Worker's Compensation
 Category-Sub: 1. SONGS MIP Worker's Compensation
 Workpaper: 1ES001.000 - EG -SONGS Wkp_Grp_2

Forecast Summary:

In 2013 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2014	2015	2016	2014	2015	2016	2014	2015	2016
Labor	Zero-Based	0	0	0	0	0	0	0	0	0
Non-Labor	Zero-Based	0	0	0	0	0	0	0	0	0
NSE	Zero-Based	0	0	0	229	229	229	229	229	229
Total		0	0	0	229	229	229	229	229	229
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adi Type</u>
2014	0	0	229	229	0.0	1-Sided Adj

SDG&E s share of Claims from the MIP program billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2014 Total	0	0	229	229	0.0	
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2015	0	0	229	229	0.0	1-Sided Adj
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SDG&E s share of Claims from the MIP program billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2015 Total	0	0	229	229	0.0	
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2016	0	0	229	229	0.0	1-Sided Adj
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SDG&E s share of Claims from the MIP program billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2016 Total	0	0	229	229	0.0	
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Note: Totals may include rounding differences.

San Diego Gas & Electric Company
2016 GRC - APP
Non-Shared Service Workpapers

Area: ELECTRIC GENERATION - SONGS
Witness: Michael L. De Marco
Category: B. SONGS MIP Worker's Compensation
Category-Sub: 1. SONGS MIP Worker's Compensation
Workpaper: 1ES001.000 - EG -SONGS Wkp_Grp_2

Determination of Adjusted-Recorded (Incurred Costs):

	2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	126,330	123,691	126,325	137,841	90,746
NSE	0	0	0	0	0
Total	126,330	123,691	126,325	137,841	90,746
FTE	0.0	0.0	0.0	0.0	0.0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	-126,330	-123,691	-126,325	-137,841	-90,746
NSE	230	180	156	229	312
Total	-126,100	-123,511	-126,169	-137,612	-90,434
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	230	180	156	229	312
Total	230	180	156	229	312
FTE	0.0	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2013\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	24	15	6	3	0
Total	24	15	6	3	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2013\$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	255	194	162	232	312
Total	255	194	162	232	312
FTE	0.0	0.0	0.0	0.0	0.0

* After company-wide exclusions of Non-GRC costs

** Refer to "Detail of Adjustments to Recorded" page for line item adjustments

Note: Totals may include rounding differences.

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Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: B. SONGS MIP Worker's Compensation
 Category-Sub: 1. SONGS MIP Worker's Compensation
 Workpaper: 1ES001.000 - EG -SONGS Wkp_Grp_2

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2009	2010	2011	2012	2013
Labor	0	0	0	0	0
Non-Labor	-126,330	-123,691	-126,325	-137,841	-90,746
NSE	230	180	156	229	312
Total	-126,100	-123,511	-126,169	-137,612	-90,434
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From CCtr</u>	<u>RefID</u>
2009	0	-126,330	230	0.0	1-Sided Adj	N/A	TCURTIS201402 06134533667

Adjustment reflects SONGS O&M billed by SCE which is balanced as granted in D.13-05-010 and is removed as SCE was directed to remove SONGS costs from their 2015 GRC. The remaining cost is SDG&E's share of Worker's Compensation expense billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2009 Total	0	-126,330	230	0.0			
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2010	0	-123,691	180	0.0	1-Sided Adj	N/A	TCURTIS201402 06134319903
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Adjustment reflects SONGS O&M billed by SCE which is balanced as granted in D.13-05-010 and is removed as SCE was directed to remove SONGS costs from their 2015 GRC. The remaining cost is SDG&E's share of Worker's Compensation expense billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2010 Total	0	-123,691	180	0.0			
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Note: Totals may include rounding differences.

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Area: ELECTRIC GENERATION - SONGS
 Witness: Michael L. De Marco
 Category: B. SONGS MIP Worker's Compensation
 Category-Sub: 1. SONGS MIP Worker's Compensation
 Workpaper: 1ES001.000 - EG -SONGS Wkp_Grp_2

<u>Year/Expl.</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>From Cctr</u>	<u>RefID</u>
2011	0	-126,325	156	0.0	1-Sided Adj	N/A	TCURTIS201402 06134044360

Adjustment reflects SONGS O&M billed by SCE which is balanced as granted in D.13-05-010 and is removed as SCE was directed to remove SONGS costs from their 2015 GRC. The remaining cost is SDG&E's share of Worker's Compensation expense billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2011 Total	0	-126,325	156	0.0			
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2012	0	-137,841	229	0.0	1-Sided Adj	N/A	TCURTIS201402 06135211160
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Adjustment reflects SONGS O&M billed by SCE which is balanced as granted in D.13-05-010 and is removed as SCE was directed to remove SONGS costs from their 2015 GRC. The remaining cost is SDG&E's share of Worker's Compensation expense billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2012 Total	0	-137,841	229	0.0			
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2013	0	-90,746	312	0.0	1-Sided Adj	N/A	TCURTIS201402 06135434933
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Adjustment reflects SONGS O&M billed by SCE which is balanced as granted in D.13-05-010 and is removed as SCE was directed to remove SONGS costs from their 2015 GRC. The remaining cost is SDG&E's share of Worker's Compensation expense billed by SCE for SONGS Worker's Compensation claims under the Master Insurance Program (MIP) Claims covered by MIP have a long life, the MIP remains open until all claims are closed As such, SDG&E has appropriately included these costs in its GRC request.

2013 Total	0	-90,746	312	0.0			
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Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper 1ES001.000

SCE bills SDG&E for costs arising from industrial accident and litigation related to incidents that occurred at SONGS while the Master Insurance Program (MIP) was active. The MIP insured the owners and all contractors and subcontractors under one insurance program for General Liability and Workers' Compensation insurance for all of SCE.

The MIP program was started in 1972, and was terminated in 1999. Since it was terminated in 1999, there were no longer premiums paid into the program to pay for claims. However, there are still numerous open claims which are SONGS responsibility. These open claims were sustained for the entire MIP history 1972-1999. Since claims covered by the MIP have a long life, the MIP remains open until all claims are closed.

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**SONGS Industrial accident and litigation costs
2008-2013**

Invoice Date	Invoice Year	Category	Unit	Cost	Amount
200801	2008	OM	U23	LitigationPre06	\$ 4,721.92
200802	2008	OM	U23	LitigationPre06	\$ 334.71
200803	2008	OM	U23	LitigationPre06	\$ 311.23
200804	2008	OM	U23	LitigationPre06	\$ 3,711.65
200805	2008	OM	U23	LitigationPre06	\$ 306.80
200807	2008	OM	U23	LitigationPre06	\$ 1,085.25
200809	2008	OM	U23	LitigationPre06	\$ 1,220.57
200810	2008	OM	U23	LitigationPre06	\$ 1,070.04
200811	2008	OM	U23	LitigationPre06	\$ 712.20
200812	2008	OM	U23	LitigationPre06	\$ 1,040.17
200801	2008	OM	COM	LitigationPre06	\$ 11,239.42
200801	2008	OM	COM	LitigationPost06	\$ 10,788.75
200802	2008	OM	COM	LitigationPre06	\$ 27,291.99
200802	2008	OM	COM	LitigationPost06	\$ 8,005.84
200803	2008	OM	COM	LitigationPre06	\$ 17,304.47
200803	2008	OM	COM	LitigationPost06	\$ 4,799.11
200804	2008	OM	COM	LitigationPre06	\$ 23,074.43
200804	2008	OM	COM	LitigationPost06	\$ 5,356.08
200805	2008	OM	COM	LitigationPre06	\$ 26,867.99
200805	2008	OM	COM	LitigationPost06	\$ 6,724.24
200806	2008	OM	COM	LitigationPre06	\$ 12,181.32
200806	2008	OM	COM	LitigationPost06	\$ 11,532.65
200807	2008	OM	COM	LitigationPre06	\$ 27,634.61
200807	2008	OM	COM	LitigationPost06	\$ 10,749.51
200809	2008	OM	COM	LitigationPre06	\$ 10,497.96
200809	2008	OM	COM	LitigationPost06	\$ 7,912.56
200810	2008	OM	COM	LitigationPre06	\$ 17,759.96
200810	2008	OM	COM	LitigationPost06	\$ 12,096.00
200811	2008	OM	COM	LitigationPre06	\$ 14,994.57
200811	2008	OM	COM	LitigationPost06	\$ 6,138.81
200812	2008	OM	COM	LitigationPre06	\$ 58,677.29
200812	2008	OM	COM	LitigationPost06	\$ 21,072.58
2008 Total					\$ 367,214.68
200901	2009	OM	U23	LitigationPre06	\$ 300.58
200902	2009	OM	U23	LitigationPre06	\$ 2,735.77
200903	2009	OM	U23	LitigationPre06	\$ 459.81
200904	2009	OM	U23	LitigationPre06	\$ 1,138.72
200905	2009	OM	U23	LitigationPre06	\$ 412.28
200906	2009	OM	U23	LitigationPre06	\$ 470.68
200907	2009	OM	U23	LitigationPre06	\$ 409.12
200908	2009	OM	U23	LitigationPre06	\$ 468.65
200909	2009	OM	U23	LitigationPre06	\$ 406.70

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200910	2009	OM	U23	LitigationPre06	\$	422.61
200911	2009	OM	U23	LitigationPre06	\$	464.48
200912	2009	OM	U23	LitigationPre06	\$	404.93
200901	2009	OM	COM	LitigationPre06	\$	18,253.48
200901	2009	OM	COM	LitigationPost06	\$	4,670.20
200902	2009	OM	COM	LitigationPre06	\$	16,979.53
200902	2009	OM	COM	LitigationPost06	\$	5,514.04
200903	2009	OM	COM	LitigationPre06	\$	10,012.38
200903	2009	OM	COM	LitigationPost06	\$	5,127.28
200904	2009	OM	COM	LitigationPre06	\$	31,779.37
200904	2009	OM	COM	LitigationPost06	\$	4,098.76
200905	2009	OM	COM	LitigationPre06	\$	11,306.09
200905	2009	OM	COM	LitigationPre06	\$	4,247.99
200906	2009	OM	COM	LitigationPre06	\$	18,618.38
200906	2009	OM	COM	LitigationPost06	\$	4,486.53
200907	2009	OM	COM	LitigationPre06	\$	14,603.95
200907	2009	OM	COM	LitigationPost06	\$	3,163.32
200908	2009	OM	COM	LitigationPre06	\$	8,972.57
200908	2009	OM	COM	LitigationPost06	\$	2,752.12
200909	2009	OM	COM	LitigationPre06	\$	14,771.21
200909	2009	OM	COM	LitigationPost06	\$	10,123.06
200910	2009	OM	COM	LitigationPre06	\$	5,258.46
200910	2009	OM	COM	LitigationPost06	\$	5,366.59
200911	2009	OM	COM	LitigationPre06	\$	5,301.70
200911	2009	OM	COM	LitigationPost06	\$	4,205.88
200912	2009	OM	COM	LitigationPre06	\$	10,567.95
200912	2009	OM	COM	LitigationPost06	\$	1,994.69
2009 Total					\$	230,269.86
201001	2010	OM	U23	LitigationPre06	\$	329.28
201002	2010	OM	U23	LitigationPre06	\$	410.34
201003	2010	OM	U23	LitigationPre06	\$	533.38
201004	2010	OM	U23	LitigationPre06	\$	482.04
201005	2010	OM	U23	LitigationPre06	\$	415.66
201006	2010	OM	U23	LitigationPre06	\$	1,169.71
201007	2010	OM	U23	LitigationPre06	\$	669.02
201008	2010	OM	U23	LitigationPre06	\$	501.39
201009	2010	OM	U23	LitigationPre06	\$	994.29
201010	2010	OM	U23	LitigationPre06	\$	2,019.00
201011	2010	OM	U23	LitigationPre06	\$	353.92
201012	2010	OM	U23	LitigationPre06	\$	335.52
201001	2010	OM	COM	LitigationPre06	\$	9,312.69
201001	2010	OM	COM	LitigationPost06	\$	7,451.12
201002	2010	OM	COM	LitigationPre06	\$	14,116.78
201002	2010	OM	COM	LitigationPost06	\$	6,204.49
201003	2010	OM	COM	LitigationPre06	\$	10,241.94
201003	2010	OM	COM	LitigationPost06	\$	4,699.28
201004	2010	OM	COM	LitigationPre06	\$	9,108.98

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201004	2010	OM	COM	LitigationPost06	\$	10,393.84
201005	2010	OM	COM	LitigationPre06	\$	19,275.08
201005	2010	OM	COM	LitigationPost06	\$	4,497.78
201006	2010	OM	COM	LitigationPre06	\$	9,442.64
201006	2010	OM	COM	LitigationPost06	\$	6,867.91
201007	2010	OM	COM	LitigationPre06	\$	4,164.69
201007	2010	OM	COM	LitigationPost06	\$	6,257.23
201008	2010	OM	COM	LitigationPre06	\$	4,692.85
201008	2010	OM	COM	LitigationPost06	\$	6,474.38
201009	2010	OM	COM	LitigationPre06	\$	4,832.36
201009	2010	OM	COM	LitigationPost06	\$	4,424.27
201010	2010	OM	COM	LitigationPre06	\$	3,490.84
201010	2010	OM	COM	LitigationPost06	\$	4,312.16
201011	2010	OM	COM	LitigationPre06	\$	3,708.58
201011	2010	OM	COM	LitigationPost06	\$	3,109.07
201012	2010	OM	COM	LitigationPre06	\$	9,801.40
201012	2010	OM	COM	LitigationPost06	\$	4,670.45
2010 Total					\$	179,764.36
201101	2011	OM	U23	LitigationPre06	\$	6,850.88
201102	2011	OM	U23	LitigationPre06	\$	432.43
201103	2011	OM	U23	LitigationPre06	\$	523.95
201104	2011	OM	U23	LitigationPre06	\$	354.25
201105	2011	OM	U23	LitigationPre06	\$	259.52
201106	2011	OM	U23	LitigationPre06	\$	677.73
201107	2011	OM	U23	LitigationPre06	\$	3,572.97
201108	2011	OM	U23	LitigationPre06	\$	708.43
201109	2011	OM	U23	LitigationPre06	\$	609.13
201110	2011	OM	U23	LitigationPre06	\$	380.46
201111	2011	OM	U23	LitigationPre06	\$	860.46
201112	2011	OM	U23	LitigationPre06	\$	809.13
201101	2011	OM	COM	LitigationPre06	\$	9,455.53
201101	2011	OM	COM	LitigationPost06	\$	6,568.40
201102	2011	OM	COM	LitigationPre06	\$	3,240.97
201102	2011	OM	COM	LitigationPost06	\$	3,504.86
201103	2011	OM	COM	LitigationPre06	\$	7,284.90
201103	2011	OM	COM	LitigationPost06	\$	12,626.49
201104	2011	OM	COM	LitigationPre06	\$	8,468.08
201104	2011	OM	COM	LitigationPost06	\$	3,553.18
201105	2011	OM	COM	LitigationPre06	\$	6,356.60
201105	2011	OM	COM	LitigationPost06	\$	2,269.39
201106	2011	OM	COM	LitigationPre06	\$	8,363.06
201106	2011	OM	COM	LitigationPost06	\$	2,383.53
201107	2011	OM	COM	LitigationPre06	\$	9,505.84
201107	2011	OM	COM	LitigationPost06	\$	7,201.14
201108	2011	OM	COM	LitigationPre06	\$	9,672.93
201108	2011	OM	COM	LitigationPost06	\$	5,455.52
201109	2011	OM	COM	LitigationPre06	\$	8,074.72

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201109	2011	OM	COM	LitigationPost06	\$	5,340.82
201110	2011	OM	COM	LitigationPre06	\$	3,096.59
201110	2011	OM	COM	LitigationPost06	\$	3,075.44
201111	2011	OM	COM	LitigationPre06	\$	2,858.08
201111	2011	OM	COM	LitigationPost06	\$	3,166.06
201112	2011	OM	COM	LitigationPre06	\$	3,563.73
201112	2011	OM	COM	LitigationPost06	\$	4,729.94
2011 Total					\$	155,855.14
201201	2012	OM	U23	LitigationPre06	\$	916.92
201202	2012	OM	U23	LitigationPre06	\$	569.10
201203	2012	OM	U23	LitigationPre06	\$	2,149.08
201204	2012	OM	U23	LitigationPre06	\$	1,019.95
201205	2012	OM	U23	LitigationPre06	\$	911.32
201206	2012	OM	U23	LitigationPre06	\$	1,529.24
201207	2012	OM	U23	LitigationPre06	\$	1,532.27
201208	2012	OM	U23	LitigationPre06	\$	1,498.16
201209	2012	OM	U23	LitigationPre06	\$	1,381.38
201210	2012	OM	U23	LitigationPre06	\$	1,266.87
201211	2012	OM	U23	LitigationPre06	\$	2,960.00
201201	2012	OM	COM	LitigationPre06	\$	3,294.36
201201	2012	OM	COM	LitigationPost06	\$	2,875.68
201202	2012	OM	COM	LitigationPre06	\$	33,382.35
201202	2012	OM	COM	LitigationPost06	\$	5,445.79
201203	2012	OM	COM	LitigationPre06	\$	4,066.68
201203	2012	OM	COM	LitigationPost06	\$	14,269.78
201204	2012	OM	COM	LitigationPre06	\$	8,534.60
201204	2012	OM	COM	LitigationPost06	\$	3,791.18
201205	2012	OM	COM	LitigationPre06	\$	7,993.11
201205	2012	OM	COM	LitigationPost06	\$	16,694.77
201206	2012	OM	COM	LitigationPre06	\$	5,484.85
201206	2012	OM	COM	LitigationPost06	\$	2,971.02
201207	2012	OM	COM	LitigationPre06	\$	9,214.71
201207	2012	OM	COM	LitigationPost06	\$	11,030.81
201208	2012	OM	COM	LitigationPre06	\$	5,207.32
201208	2012	OM	COM	LitigationPost06	\$	6,393.68
201209	2012	OM	COM	LitigationPre06	\$	3,207.48
201209	2012	OM	COM	LitigationPost06	\$	16,148.92
201210	2012	OM	COM	LitigationPre06	\$	20,279.35
201210	2012	OM	COM	LitigationPost06	\$	8,630.66
201211	2012	OM	COM	LitigationPre06	\$	2,577.03
201211	2012	OM	COM	LitigationPost06	\$	8,094.43
201212	2012	OM	U23	LitigationPre06	\$	1,446.25
201212	2012	OM	COM	LitigationPre06	\$	6,050.10
201212	2012	OM	COM	LitigationPost06	\$	6,017.41
2012 Total					\$	228,836.61
201301	2013	OM	U23	LitigationPre06	\$	6,597.25
201301	2013	OM	COM	LitigationPre06	\$	3,014.93

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201301	2013	OM	COM	LitigationPost06	\$	8,151.25
201302	2013	OM	COM	LitigationPre06	\$	1,298.86
201302	2013	OM	COM	LitigationPost06	\$	6,272.62
201302	2013	OM	U23	LitigationPre06	\$	1,486.96
201303	2013	OM	COM	LitigationPre06	\$	3,732.60
201303	2013	OM	COM	LitigationPost06	\$	5,618.05
201303	2013	OM	U23	LitigationPre06	\$	1,600.91
201304	2013	OM	U23	LitigationPre06	\$	1,403.28
201304	2013	OM	COM	LitigationPre06	\$	101,618.47
201304	2013	OM	COM	LitigationPost06	\$	19,986.45
201305	2013	OM	U23	LitigationPre06	\$	1,093.68
201305	2013	OM	COM	LitigationPre06	\$	5,412.56
201305	2013	OM	COM	LitigationPost06	\$	7,151.55
201306	2013	OM	COM	LitigationPre06	\$	5,474.06
201306	2013	OM	COM	LitigationPost06	\$	9,698.98
201306	2013	OM	U23	LitigationPre06	\$	1,130.67
201307	2013	OM	COM	LitigationPre06	\$	2,931.04
201307	2013	OM	COM	LitigationPost06	\$	17,835.86
201307	2013	OM	U23	LitigationPre06	\$	1,503.53
201308	2013	OM	COM	LitigationPre06	\$	14,637.93
201308	2013	OM	COM	LitigationPost06	\$	15,997.97
201308	2013	OM	U23	LitigationPre06	\$	973.08
201309	2013	OM	COM	LitigationPre06	\$	3,401.50
201309	2013	OM	COM	LitigationPost06	\$	9,735.77
201309	2013	OM	U23	LitigationPre06	\$	786.79
201310	2013	OM	COM	LitigationPre06	\$	5,536.10
201310	2013	OM	COM	LitigationPost06	\$	9,859.93
201310	2013	OM	U23	LitigationPre06	\$	1,570.61
201311	2013	OM	COM	LitigationPre06	\$	3,649.85
201311	2013	OM	COM	LitigationPost06	\$	15,871.37
201311	2013	OM	U23	LitigationPre06	\$	2,004.42
201312	2013	OM	U23	LitigationPre06	\$	885.04
201312	2013	OM	COM	LitigationPre06	\$	2,332.15
201312	2013	OM	COM	LitigationPost06	\$	12,111.57
2013 Total						\$ 312,367.64
Grand Total						\$ 1,474,308.29

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Area: ELECTRIC GENERATION - SONGS
Witness: Michael L. De Marco

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2100-0298	000	SAN ONOFRE UNIT 1
2100-0299	000	SAN ONOFRE UNIT 2 Decommissioning
2100-0300	000	SAN ONOFRE COMMON FACILITIES
2100-0301	000	SAN ONOFRE UNIT 3 Decommissioning
2100-0302	000	SAN ONOFRE UNIT 2&3 C&O
2100-0305	000	Nuclear Fuel