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-CWP)

# CAPITAL 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-CWP - SONGS/DISTRIBUTED GENERATION

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Category: A. Marine Mitigation	2
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## Overall Summary For Exhibit No. SDG&E-12-CWP

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco

A. Marine Mitigation

 In 2013 \$ (000)

 Adjusted-Forecast

 2014
 2015
 2016

 853
 6,216
 2,319

 853
 6,216
 2,319

Total

Area:SONGS/DISTRIBUTED GENERATIONWitness:Michael L. De MarcoCategory:A. Marine MitigationWorkpaper:000050

## Summary for Category: A. Marine Mitigation

	In 2013\$ (000)					
	Adjusted-Recorded	Adjusted-Forecast				
	2013	2014	2015	2016		
Labor	0	0	0	0		
Non-Labor	4,129	0	0	0		
NSE	0	853	6,216	2,319		
Total	4,129	853	6,216	2,319		
FTE	0.0	0.0	0.0	0.0		

#### 000050 SONGS COMMON FACILITIES

Labor	0	0	0	0
Non-Labor	4,129	0	0	0
NSE	0	853	6,216	2,319
Total	4,129	853	6,216	2,319
FTE	0.0	0.0	0.0	0.0

Beginning of Workpaper Group 000050 - SONGS COMMON FACILITIES

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES

### Summary of Results (Constant 2013 \$ in 000s):

Forecast	Method		Adjusted Recorded				Adjusted Forecast			
Years	S	2009	2010	2011	2012	2013	2014	2015	2016	
Labor	Zero-Based	0	0	0	0	0	0	0	0	
Non-Labor	Zero-Based	2,368	2,898	5,404	4,612	4,129	0	0	0	
NSE	Zero-Based	0	0	0	0	0	853	6,216	2,319	
Tota	al	2,368	2,898	5,404	4,612	4,129	853	6,216	2,319	
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

### Business Purpose:

On June 7, 2013, SCE announced the permanent retirement of Units 2 & 3 at SONGS. In SCE's 2015 GRC (A.13-11-003), SCE was directed by the presiding ALJ to remove SONGS costs from its GRC case. SCE complied, and in April 2014, SCE served Supplemental Testimony in SCE-14, which struck SONGS O&M and capital costs, except for Marine Mitigation, from their its 2015 GRC testimony. Only SONGS Marine Mitigation remains in SCE's 2015 GRC. SCE's SONGS Marine Mitigation costs were obtained from SCE's testimony forecasts (Ex. SCE-07, Vol. 3, part 2) SONGS 100% level capital expenditures (in nominal dollars) for 2014, Test Year 2015 and proposed Post Test Year 2016. To this amount, SCE adds contractual overheads: A&G, P&B, and Payroll Taxes (all in nominal dollars), which are billed to SDG&E and included in the amounts shown.

Pursuant to the 1991 Coastal Development Permit (CDP) and Amendments, maintenance, monitoring and management of the marine mitigation projects is required over a period equivalent to the full operating life of SONGS. The San Dieguito Wetlands Restoration Project is near completion and pending Coastal Commission acceptance. The first full year of monitoring for the wetlands was 2012. SCE anticipates that all performance standards for the wetlands could be met starting in 2015 or 2016. The Wheeler North Reef was completed in 2009 during which time most, but not all, of the performance standards have been met. In order to meet all the performance standards for the reef which is required pursuant to the CDP, more rock will be added to increase the acreage of the reef. SCE is responsible for providing its Marine Mitigation capital additions forecast for SONGS in its 2015 GRC and SDG&E seeks its 20% proportional share of those additions for its SONGS plant balance. Therefore, SDG&E submitted intervener testimony in SCE's 2015 GRC to recover its share of these costs.

### Physical Description:

SONGS Marine Mitigation currently consists of two on-going projects under the 1991 Coastal Development Permit: Wheeler North Reef near San Clemente Pier and the San Dieguito Wetlands Restoration Project, near the Del Mar County Fairgrounds. Both of these projects require acceptance of the Coastal Commission under the terms of the intake and discharge permits for SONGS saltwater cooling. At this time, the Wheeler North Reef has not met all the conditions required by the permit and requires expansion to meet the CDP terms. The expenditures shown are to expand the artificial kelp reef to meet the permit requirements.

### Project Justification:

The CDP requires the SONGS owners to mitigate the effect on the local fisheries for the full operating life of SONGS. Since both remaining projects have not been accepted, the costs for Marine Mitigation will continue for the approximate 30 year life of the Units 2 & 3, although SONGS is permanently shutdown and is undergoing decommissioning.

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES

### Forecast Methodology:

#### Labor - Zero-Based

The costs are billed by SCE to SDG&E for SONGS capital. Therefore there is no SDG&E labor. SONGS Capital Forecast based upon SDG&E's 20% share of O&M Cost Forecast by SCE in their 2015 GRC Application A.13-11-003.

To the extent these expenditures are determined to be decommissioning related by the CPUC, IRS and NRC, if applicable, they will be removed from SONGS capital costs and be funded by Decommissioning Trust withdrawals.

#### Non-Labor - Zero-Based

SCE provides a nominal forecast of SONGS capital expenditures, therefore it is in appropriate to use the Non-Labor category for capital costs as the amounts are subject to Non-Standard Escalation (NSE).

To the extent these expenditures are determined to be decommissioning related by the CPUC, IRS and NRC, if applicable, they will be removed from SONGS capital costs and be funded by Decommissioning Trust withdrawals.

#### NSE - Zero-Based

SCE provides a nominal forecast of SONGS capital expenditures, SONGS Capital Forecast based upon SDG&E's 20% share of O&M Cost Forecast by SCE in their 2015 GRC Application A.13-11-003.

To the extent these expenditures are determined to be decommissioning related by the CPUC, IRS and NRC, if applicable, they will be removed from SONGS capital costs and be funded by Decommissioning Trust withdrawals.

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES

### Adjustments to Forecast

Forecast				111 201	3 \$ (000)					
	Method	1	Base Fore	cast	For	ecast Adju	stments	A	djusted-Fo	recast
Years	6	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	853	6,216	2,319	853	6,216	2,319
Tota	I	0	0	0	853	6,216	2,319	853	6,216	2,319
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		-			-			-		
Forecast Adj Year/Explana	ustment Details Ition Labor	NLb		NSE	То	tal	FTE		PofID	
<u>rear/⊏xpiana</u> 2014	<u>Labor</u> 0	0	<u> </u>	<u>NSE</u> 853	<u>10</u> 85		<u>FIE</u> 0.0	-	<u>RefID</u> TCURTIS2	
2014 Total	0	0		853	85	3	0.0			
						0				
2015	0	0		6,216		216	0.0		TCURTIS2	0140425
In A.13-11-00 GRC removin a condition of	0 3 SCE was directed g all SONGS costs e the California Coast 0	by the ALJ t xcept for on	-going Ma	SONGS cos rine Mitigati	6,2 sts, which S on. Marine r ocean wa	216 SCE did in a Mitigation	0.0 an ERRATA costs are ir	to their 20	16	0140428
In A.13-11-00 GRC removin a condition of	3 SCE was directed g all SONGS costs e the California Coast	by the ALJ t xcept for on al Commiss	-going Ma	SONGS cos rine Mitigati allowing fo	6,2 sts, which S on. Marine r ocean wa	216 SCE did in a Mitigation ter cooling	0.0 an ERRATA costs are ir of SONGS.	to their 20	16	0140425
GRC removin	3 SCE was directed g all SONGS costs e the California Coast	by the ALJ t xcept for on al Commiss	-going Ma	SONGS cos rine Mitigati allowing fo	6,2 sts, which S on. Marine r ocean wa 6,2	216 SCE did in a Mitigation ter cooling	0.0 an ERRATA costs are ir of SONGS.	to their 20 ncurred bec	16	

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES

### Determination of Adjusted-Recorded:

Recorded (Nominal \$)*           Labor         0         0         0         0         0         0           NOn-Labor         1,964         2,522         4,870         4,464         4,129           NSE         0         0         0         0         0         0           Adjustments (Nominal \$)**		2009 (\$000)	2010 (\$000)	2011 (\$000)	2012 (\$000)	2013 (\$000)
Non-Labor         1.964         2.522         4.870         4.464         4.129           NSE         0         0         0         0         0         0           Total         1.964         2.522         4.870         4.464         4.129           FTE         0.0         0.0         0.0         0.0         0.0         0.0           Adjustments (Nominal \$) **	Recorded (Nominal \$)*					
NSE         0         0         0         0         0         0         0           Total         1,964         2,522         4,870         4,464         4,129           FTE         0,0         0,0         0,0         0,0         0,0           Adjustments (Nominal \$) **		0	0	0	0	0
Total         1,964         2,522         4,870         4,464         4,129           FTE         0.0         0.0         0.0         0.0         0.0           Adjustments (Nominal \$) **		1,964	2,522	4,870	4,464	4,129
FTE         0.0         0.0         0.0         0.0         0.0           Adjustments (Nominal \$) **		0	0	0	0	0
Adjustments (Nominal \$) **         0.0 </td <td></td> <td>1,964</td> <td>2,522</td> <td>4,870</td> <td>4,464</td> <td>4,129</td>		1,964	2,522	4,870	4,464	4,129
Labor         0 <td>FTE</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td>	FTE	0.0	0.0	0.0	0.0	0.0
Non-Labor         0	Adjustments (Nominal \$)	**				
NSE         0	Labor	0	0	0	0	0
Total         0 <td>Non-Labor</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Non-Labor	0	0	0	0	0
FTE         0.0         0.0         0.0         0.0         0.0           Recorded-Adjusted (Nominal \$)         1         0         0         0         0         0         0         0           Non-Labor         1,964         2,522         4,870         4,464         4,129           NSE         0         0         0         0         0         0           Total         1,964         2,522         4,870         4,464         4,129           FTE         0.0         0.0         0.0         0.0         0.0         0           FTE         0.0         0.0         0.0         0.0         0.0         0.0           Vacation & Sick (Nominal \$)         Labor         0         0         0         0         0           NSE         0         0         0         0         0         0         0           NSE         0         0         0         0         0         0         0           FTE         0.0         0.0         0.0         0.0         0         0         0           Scalation to 2013\$         Labor         0         0         0         0         0	NSE	0	0	0	0	0
Recorded-Adjusted (Nominal \$)         0.0         0.0         0.0         0.0         0.0         0.0         0.0           Labor         0         0         0         0         0         0         0           NSE         0         0         0         0         0         0         0           Total         1,964         2,522         4,870         4,464         4,129           NSE         0         0         0         0         0         0           FTE         0.0         0.0         0.0         0.0         0.0         0.0           Labor         0         0         0         0         0         0         0           NSE         0         0         0         0         0         0         0           NSE         0         0         0         0         0         0         0           Total         0         0         0         0         0         0         0           Labor         0         0         0         0         0         0         0           NSE         0         0         0         0         0 <t< td=""><td>Total</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	Total	0	0	0	0	0
Labor         0         0         0         0         0         0           Non-Labor         1,964         2,522         4,870         4,464         4,129           NSE         0         0         0         0         0         0           Total         1,964         2,522         4,870         4,464         4,129           FTE         0.0         0.0         0.0         0.0         0.0           Vacation & Sick (Nominal \$)             0         0         0         0         0           Labor         0         0         0         0         0         0         0         0         0           Non-Labor         0         0         0         0         0         0         0         0         0           Total         0	FTE	0.0	0.0	0.0	0.0	0.0
Non-Labor         1,964         2,522         4,870         4,464         4,129           NSE         0         0         0         0         0           Total         1,964         2,522         4,870         4,464         4,129           FTE         0.0         0.0         0.0         0.0         0.0           Vacation & Sick (Nominal \$)         Use         0         0         0         0         0         0         0           Labor         0         0         0         0         0         0         0         0         0           NSE         0 <td>Recorded-Adjusted (Nom</td> <td>ninal \$)</td> <td></td> <td></td> <td></td> <td></td>	Recorded-Adjusted (Nom	ninal \$)				
NSE         0	Labor	0	0	0	0	0
Total FTE         1,964         2,522         4,870         4,464         4,129           FTE         0.0         0.0         0.0         0.0         0.0         0.0           Vacation & Sick (Nominal \$)                 0	Non-Labor	1,964	2,522	4,870	4,464	4,129
FTE         0.0         0.0         0.0         0.0         0.0           Vacation & Sick (Nominal \$)              0.0	NSE	0	0	0	0	0
Vacation & Sick (Nominal \$)         0.0         0.0         0.0         0.0         0.0         0.0         0	Total	1,964	2,522	4,870	4,464	4,129
Labor         0         0         0         0         0         0           Non-Labor         0         0         0         0         0         0         0           NSE         0         0         0         0         0         0         0         0         0           Total         0	FTE	0.0	0.0	0.0	0.0	0.0
Non-Labor         0	Vacation & Sick (Nomina	l \$)				
NSE         0	Labor	0	0	0	0	0
Total         0 <td>Non-Labor</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	Non-Labor	0	0	0	0	0
FTE         0.0         0.0         0.0         0.0         0.0           Escalation to 2013\$         Labor         0	NSE	0	0	0	0	0
Escalation to 2013\$         0.0         0.0         0.0         0.0         0.0         0.0         0 <t< td=""><td>Total</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></t<>	Total	0	0	0	0	0
Labor         0         0         0         0         0         0         0           Non-Labor         404         376         534         148         0           NSE         0         0         0         0         0         0           Total         404         376         534         148         0           FTE         0.0         0.0         0.0         0.0         0.0           Recorded-Adjusted (Constant 2013\$)         Labor         0         0         0         0         0         0           Non-Labor         2,368         2,898         5,404         4,612         4,129         0	FTE	0.0	0.0	0.0	0.0	0.0
Non-Labor         404         376         534         148         0           NSE         0	Escalation to 2013\$					
NSE         0	Labor	0	0	0	0	0
Total         404         376         534         148         0           FTE         0.0         0.0         0.0         0.0         0.0           Recorded-Adjusted (Constant 2013\$)	Non-Labor	404	376	534	148	0
FTE         0.0         0.0         0.0         0.0         0.0           Recorded-Adjusted (Constant 2013\$)	NSE	0	0	0	0	0
FTE         0.0         0.0         0.0         0.0         0.0           Recorded-Adjusted (Constant 2013\$)         -         -         -         -         -         -         -         -         -         -         -         -         -         0<	Total	404		534	148	
Labor         0 <td>FTE</td> <td>0.0</td> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td>	FTE	0.0		0.0	0.0	0.0
Non-Labor         2,368         2,898         5,404         4,612         4,129           NSE         0 <t< td=""><td>Recorded-Adjusted (Con</td><td>stant 2013\$)</td><td></td><td></td><td></td><td></td></t<>	Recorded-Adjusted (Con	stant 2013\$)				
NSE         0         0         0         0         0         0         0         0         0         0         0         0         4,129         0         4,129         0         0         0         0         0         0         0         4,129         0         4,129         0         0         0         0         0         4,129         0         4,129         0<	Labor	0	0	0	0	0
NSE         0	Non-Labor	2,368	2,898	5,404	4,612	4,129
	NSE					
	Total	2,368	2,898	5,404	4,612	4,129
	FTE					

\* After company-wide exclusions of Non-GRC costs

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

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES

### Adjustments to Recorded:

		In	Nominal \$(000)			
	Years	2009	2010	2011	2012	2013
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

Detail of Adjustments to Recorded in Nominal \$:

Year/Explanation	Labor	NLbr	NSE	Total	FTE	RefID
2009 Total	0	0	0	0	0.0	
2010 Total	0	0	0	0	0.0	
2011 Total	0	0	0	0	0.0	
2012 Total	0	0	0	0	0.0	
2013 Total	0	0	0	0	0.0	

Beginning of Workpaper Sub Details for Workpaper Group 000050

Area:	SONGS/DISTRIBUTED GENERATION
Witness:	Michael L. De Marco
Budget Code:	00005.0
Category:	A. Marine Mitigation
Category-Sub:	1. Marine Mitigation
Workpaper Group:	000050 - SONGS COMMON FACILITIES
Workpaper Detail:	000050.001 - SONGS Marine Mitigation

In-Service Date: 12/31/2015

Description:

SONGS Marine Mitigation - Pursuant to the 1991 Coastal Development Permit (CDP), maintenance, monitoring and management of the Marine Mitigation projects is required over a period equivalent to the full operating life of SONGS. The Wheeler Reef Project requires an increase in the acreage of the reef to meet performance standards. The San Diegito Wetlands Restoration Project is expected to meet performance standards starting in 2015. SDG&E is responsible for its 20% share of SONGS Marine Mitigation and submitted intervener testimony to recover its share of Marine Mitigation costs in the SCE 2015 GRC (A.13-11-003). Although SONGS has permanently shutdown, the 30 year operating life of SONGS Units 2 & 3 requires on-going remediation for the full period of operations.

		Forecast In 2013	3 \$(000)	
	Years	2014	2015	2016
Labor		0	0	0
Non-Labor		0	0	0
NSE		853	6,216	2,319
	Total	853	6,216	2,319
FTE		0.0	0.0	0.0

Supplemental Workpapers for Workpaper Group 000050

## SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

#### SDG&E's Share of SONGS Unit 2 & 3 Capital Expenditures

2014SDG&E's Share of 2014 Forecast Capital Expeditures2015SDG&E's Share of 2015 Forecast Capital Expeditures2016SDG&E's Share of 2016 Forecast Capital ExpedituresMarine MitigationSCE 2013-2017 GRC Marine Mitigation Capital ForecastCapital A&G P&B Payroll TaxExhibit Ratio K - Capital A&G Rate - A&G Overhead

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### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

#### Table 2

SDG&E's Share of SONGS Unit 2 & 3 Capital Expenditures (Nominal Dollars in Thousands)

Calendar Year 2014 <u>Basis</u> Marine Mitigation		<u>Rate</u>	<u>Cas</u> \$	<u>sh Flow</u> 3,783	Comments Ex. SCE-07, Vol. 3, Part 2 Workpapers
	Total Direct		\$	3,783	
Participant Overheads (2): Imbedded SCE Labor Rate (3)		19.08%			Average Historical Labor Rate
A&G (3) On SCE Labor		33.93%	\$	245	Current Overhead Billing Rate
On Non-Labor		1.00%	\$	31	Current Overhead Billing Rate
Pension & Benefits (4)		21.25%	\$	153	Current Overhead Billing Rate
Payroll Taxes (4)		7.36%	\$ \$	53	Current Overhead Billing Rate
	Sub Total		\$	482	
Grand Total - 100% SDG&E A&G			\$	4,265	
Grand Total - SDG&E		20.00%	\$	853	

(1) Based on SCE's TY2015 Preliminary Forecast for the GRC application

(2) Excluding AFUDC

(3) Labor embedded in the SONGS 2&3 Capital Request 100% Level.

(4) Participant Overhead Rates are the current billing rates in effect for 2013, based upon 2008 actual.

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2014

### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

Calendar Year 2015	-				
Basis Marine Mitigation		<u>Rate</u>	<u>Ca</u> \$	<b>sh Flow</b> 27,569	Comments Ex. SCE-07, Vol. 3, Part 2 Workpapers & Ex. SCE-23 page 18
	Total Direct		\$	27,569	<u>a Ex. 662 26 page 16</u>
Participant Overheads (2):					
Imbedded SCE Labor Rate (3) A&G (3)		19.08%			Average Historical Labor Rate
On SCE Labor		33.93%	\$	1,785	Current Overhead Billing Rate
On Non-Labor		1.00%	\$	223	Current Overhead Billing Rate
Pension & Benefits (4)		21.25%	\$	1,118	Current Overhead Billing Rate
Payroll Taxes (4)		7.36%	\$	387	Current Overhead Billing Rate
	Sub Total		\$	3,513	-
Grand Total - 100% SDG&E A&G			\$	31,081	
Grand Total - SDG&E		20.00%	\$	6,216	

(1) Based on SCE's TY2015 Preliminary Forecast for the GRC application

(2) Excluding AFUDC

(3) Labor embedded in the SONGS 2&3 Capital Request 100% Level.

(4) Participant Overhead Rates are the current billing rates in effect for 2013, based upon 2008 actual.

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2015

### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

Table 1

SDG&E's Share of SONGS Unit 2 & 3 Capital Expenditures (Nominal Dollars in Thousands)

Calendar Year 2016 <u>Basis</u> Marine Mitigation	Total Direct	<u>Rate</u>	<u>Ca</u> \$ \$	<u>sh Flow</u> 10,283 10,283	Comments Ex. SCE-07, Vol. 3, Part 2 Workpapers & Ex. SCE-23 page 18
Participant Overheads (2): Imbedded SCE Labor Rate (3)		19.08%			Average Historical Labor Rate
A&G (3) On SCE Labor		33.93%	\$	666	Current Overhead Billing Rate
On Non-Labor Pension & Benefits (4) Payroll Taxes (4)		1.00% 21.25% 7.36%	\$ \$ \$	83 417 144	Current Overhead Billing Rate Current Overhead Billing Rate Current Overhead Billing Rate
Payroll Taxes (4)	Sub Total	7.30%	\$	1,310	Current Overnead bining Rate
Grand Total - 100% SDG&E A&G			\$	11,593	
Grand Total - SDG&E		20.00%	\$	2,319	

(1) Based on SCE's TY2015 Preliminary Forecast for the GRC application

(2) Excluding AFUDC

(3) Labor embedded in the SONGS 2&3 Capital Request 100% Level.

(4) Participant Overhead Rates are the current billing rates in effect for 2013, based upon 2008 actual.

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2016

SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers



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(U 338-E)

2015 General Rate Case NOI

# Workpapers

Safety, Security, & Compliance (SS&C) Corporate EH&S SCE-07 Volume 03, Part 02

Marine Mitigation

Appendix A Page 5 of 15 SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

		SONGS Marine I Wheeler	SONOS Marine Mitigation Budget: 2010-2017 Actuals/Forecast Wheeler North Reef and San Dieguito Victiands \$ at 100% Level (Norminal \$000)	: 2010-2017 Actu an Dieguito Wetl Iominal \$000)	als/Forecast ands				
	2010 Actuals	2011 Actuals	2012 Actuals	2013 Forecast	2014 Forecast	2015 Forecast 2016 Forecast 2017 Forecast	2016 Forecast	2017 Forecast	Total
Wheeler North Reef									
SCE Labor	5	121	N N	120	120	300	215	120	1,228
SUC EXPENSES This PostPCE Masterias Astritics	0.6	H.	•	10	2.8	4C	22	17	201
Dre pourood mumoring mumos Administration	20	2		3	Ř	201	2	3	200
CCC Oversight and independent Monitoring	1,025	1,387	1,029	1,300	1,300	1,400	1,400	1,500	10,341
Description of the section of the full bear of the section of the									
Lease (State Lands Commission)	£1	81	15/	160	160	160)	160	160	1.293
Kelp Wrack Monitoring	8	60	42	5	2				180
CEQA/CCC/State Lands/ACOE				•	•	300	300		600
Construction						20,000	6,335	9	26,421
Misc. (Other Costs)	8	8	24	8		140	300	40	695
Active Active Sector	1 100	1000	4 000	1000	4 000	00 101	0.000	0000	44 000
Keet Sub-Total	1,4,20	1/180	1,308	1,190	1,020,1	105'77	8,800	2,010	667'14
San Diagnito Watlande									
Project Management Costs									
SCE Labor	210	292	237	240	240	240	240	160	1,821
Lease/Office Space	53	51	8						
SCE Expenses				20	10	20	20	20	06
Project Management Support	53	61	6 s	8		0/	70	Z	419
HUMBINGTON	00	67	3						
CCC Oversight and Independent Monitoring	552	BD9	909	1,200	1,200	1,300	1,300	1,350	B,720
40	Die	200	900	000	000	000	900	046	0.020
JP/J	30	741	2907	197	780	797	N97.	300	2,270
Construction									
Construction Management	345	96Z	684	200	30	20	50	11	1,663
General Construction	401	354	11	006	89	260	220	8	2,264
RMP/Hv/rrseeding	101	633	200	229	09	8	30	20	2.095
		and the second	for a						
Dredging									2002
Inlet Dredging	294	21/8		300	4	006	•	006	3,3/2
Hidelaws Fillinguan		100		100		ne		3	600'I
Regulatory/Agreements Compliance									
Coastal Processes Technical Panel	100	58		20	22	50		40	273
Weed Management	158	192	82	100	35	30	30	20	647
Least Tern Nesting Sites	230	609	88 F	2 M 2	1	110	N.F	2	834
Beach Profile Monitoring	902	702	901	001	e e	G/	6	Q 2	9/0
Bacteria and water Quality Monitoring	C 70	G /2	ALK:	200	R	001	61	8	6501
Railroad Encroachment		57							571
<ul> <li>NCTD Mitigation</li> </ul>				50					50
NCTD Bridge RepainRevetment	5/3	1691		50	2	2			1,517
								-	

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Marine Mitigation

estimony in Edubli SCE-07, Vol. 3.

with the forecast shown in CEHS' t

shows SCE's 73.21% share of total militation

last line in the table i

costs. The

forecast at 100% of

All line items are

(Z) SOE share:

### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company

2016 GRC - APP

**Capital Workpapers** 

Technical Consulting Expentise         151         85         81           Hydrolyschemic Services         17         12         2         2           Hydrolyschemic Services         17         12         2         2           Hydrolyschemic Services         21         12         2         2           Wellands Consulting         23         21         16         50           Biological Montbring         23         23         20         50           Elegrass SurveyMontoring         25         20         6         6           Public Consulting         25         20         6         7           Mise Consulting         5,251         5,057         5,0         7	100 70 50 50 20 20 20	70 50		Tennal Ling tennal Ling tennal Ling tennal Ling tennal Ling	Total
Service         151         85         81           ing         17         12         2           ing         21         12         2           ing         63         92         50           Instructing         25         20         6           Instructing         25         20         6           Instructing         25         20         6           55         20         6         6           55         20         6         6           5,551         8,655         4,463         6	100 70 50 50 20 20 20 20	70 50			
17         12         2           ing         21         14         18           ing         63         92         50           ing         63         92         50           Monitoring         25         20         16           25         20         66         6           25         20         66         6           50         50         66         6           51         55         20         6           55         50         63         72           5,251         5,555         4,453         73	70 70 50 50 50	02	œ	R	627
Ing 21 14 18 Ing 63 50 50 Mombring 25 20 50 64 65 75 5.251 8,635 4,483	20 20 26	V.	8	20	221
ng 53 52 50 16 16 16 16 16 16 16 16 16 16 16 16 16	50 20	0	60	40	313
Manitoring 25 46 16 25 20 6 64 69 72 5,251 8,655 4,483	20	40	30	20	365
25 20 6 64 69 72 5,251 8,655 4,483	- 17		2	2	62
5,251 8,635 4,483	2		2	1	5
5,251 8,635 4,463	40	20			265
	4,459 2,163	3,105	2,565	2,616	29,718
SONGS Marine Mittigation Lotal (0, 100% level 6,677 5,672 6,	6,235 3,783	52°228	0/2'11	4,632	66C'LC
SONGS Marine Mitigation Total @ 78.21% level 5,222 8,156 4,577 4,	4,892 2,959	19,990	8,892	3,623	40,356
Parties.					

SONOS Marine Mitigation Budget 2010-2017 Actuals/Forecast Wheeler North Reef and San Dieguito Wetlands 5 at 100% Level (Norminal 5000)

> Appendix A Page 7 of 15 Marine Mitigation

# SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

Application No.: Exhibit No.: Witnesses: A.13-11-003 SCE-23 D. Daigler R. Fisher C. Miller D. Neal J. Shotwell



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# **2015 General Rate Case**

# **Rebuttal Testimony**

Safety, Security, & Compliance (SS&C)

Before the

Public Utilities Commission of the State of California

Rosemead, California September 2014

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**Revised Reef Testimony** 

# SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

## Table III-2

## SCE Reef Construction Forecast – Application and Rebuttal

Year	SCE Forecast – Application (Nominal \$000's)	SCE Forecast – Rebuttal (Nominal \$000's)
2015	20,000	19,133
2016	6,305	6,036
2107	116	105
Total2015-2017	26,421	25,273

Source: SCE-23, page 18

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**Revised Reef Testimony** 

# SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP **Capital Workpapers**

Wheeler Reef Cost Projection	n:								
		2013		2014		2015*	2016*	2017*	
SCE's Ownership 78.21%					\$	19,133,000	\$ 6,036,000	\$ 105,000	
100%	\$	1,796,000	\$	1,620,000	\$	24,463,624	\$ 7,717,683	\$ 134,254	
SDG&E 20%	\$	359,200	\$	324,000	\$	4,892,725	\$ 1,543,537	\$ 26,851	
Estimated OHD (@4%)	\$	14,368	\$	12,960	\$	195,709	\$ 61,741	\$ 1,074	
SDG&E Forecast Cost	\$	373,568	\$	336,960	\$	5,088,434	\$ 1,605,278	\$ 27,925	\$ 7,432,165
Source: 2013-2014 SCE GF <u>*2015-2017 SCE GF</u> 78.21% SCE Share	RC F	Rebuttal Testime	ony	SCE-23 Page 1	<u>8</u>				
		5.03%		4.53%		68.47%	21.60%	0.38%	100%

100% Level w/out OHDS							
Reef	\$ 1,796,000	\$ 1,620,000	\$ 24,463,624	\$ 7,717,683	\$ 134,254	\$35,731,561	
Wetlands	\$ 4,459,000	\$ 2,163,000	\$ 3,105,000	\$ 2,565,000	\$ 2,616,000	\$14,908,000	
Total	\$ 6,255,000	\$ 3,783,000	\$ 27,568,624	\$ 10,282,683	\$ 2,750,254	\$50,639,561	\$

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**Revised Reef** 

# SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

#### SAN DIEGUITO WETLANDS RESTORATION

		2013		2014		2015		2016	2017	
100%	\$	4,459,000	\$	2,163,000	\$	3,105,000	\$	2,565,000	\$ 2,616,000	\$ 14,908,000
SDG&E 20%	\$	891,800	\$	432,600	\$	621,000	\$	513,000	\$ 523,200	
Estimated OHD (@4%)	\$	35,672	\$	17,304	\$	24,840	\$	20,520	\$ 20,928	
SDG&E Forecast Cost	\$	927,472	\$	449,904	\$	645,840	\$	533,520	\$ 544,128	\$ 3,100,864
Source: 2013-2014 SCE GRC Testimony SCE-07 Vol 3 Page 25										

29.91%	14.51%	20.83%	17.21%	17.55%	100%

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Wetlands

#### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

#### SECOND AMENDED SAN ONOFRE OPERATING AGREEMENT

#### EXHIBIT G

#### PAYROLL TAX RATIO 2008

The payroll tax ratio is determined in the following manner using, where indicated, expenses reported in the Annual Report of Edison to the Federal Energy Regulatory Commission ("FERC Form 1") :

#### Payroll Taxes

Payroll taxes applicable to labor charged to operation and maintenance, construction and other accounts per FERC Form 1, pages 262 and 263, column (d).

	FICA	Sch 2	\$112,658,201
	FUTA		1,076,941
	SUI (All States	)	3,327,598
	Total		\$117,062,740
	. <sup>122</sup>	a the second of the	50 C 14 K
Labor Base		•	
constructio	• •	tion and maintenance, ints, per FERC Form 1, 6.	\$1,591,238,131
			\$1,591,238,131
Payroll tax rat	io for 2008	\$117,062,740 \$1,591,238,131 =	7.36%

**G-1** Appendix A Page 12 of 15 Capital A&G P&B Payroll Tax

#### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP **Capital Workpapers**

#### SECOND AMENDED SAN ONOFRE OPERATING AGREEMENT

### EXHIBIT I BENEFITS RATIO

2008

The benefits ratio shall be determined in the following manner using, where indicated, expenses reported in the Annual Report of the Operating Agent to the Federal Energy Regulatory Commission ("FERC Form 1") :

#### Pensions and Benefits Expenses

ensions and Benefits Expenses			
		Labor	Total
Employee pensions and benefits charge	ed to		
account 926, per FERC Form 1, pag	e 323		
column (b), line 187	Sch D, E	\$8,265,763	\$216,464,570
Less direct Billed costs	Sch 8	(892,496)	(598,269)
Plus employee pensions and benefits tr	ansferre: Sch E supt		108,794,157
Plus employee pensions and benefits cl	harged to/paid by others		11,933,398
	Jul - Dec		(689,837)
Subtotal		7,373,267	335,904,019
Payroll taxes	7.36%		542,672
Workers' compensation	1.41%		103,963
Total pensions and benefits	s expenses		\$336,550,654
Total labor charged to operation and m	aintenance,		
construction, and other accounts, per	r FERC Form 1,		
page 355, column (d) line 96			\$1,591,238,131
Less: labor charged to employee pensi-	ons		
and benefits (see above)		\$7,373,267	
Less: labor deducted from base for			
calculation of employee benefits:			
Corporate Temporary Labor	(A)	-	
Premium time adjustment:			
O&M		-	
Construction		-	7,373,267
Net labor base			\$1,583,864,864
Benefits ratio for 2008		\$336,550,654	04.05%
		\$1,583,864,864 =	<u>21.25%</u>

(A) Temporary labor is currently under review to identify labor that is not subject to pension and benefits.

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Appendix A Page 13 of 15 Capital A&G P&B Payroll Tax

#### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers SECOND AMENDED SAN ONOFRE OPERATING AGREEMENT

#### EXHIBIT K

#### CAPITAL A&G RATIO 2008

The capital A & G ratio is determined in the following manner using, where indicated, expenses reported in the Annual Report of Operating Agent to the Federal Energy Regulatory Commission ("FERC Form 1") :

#### Administrative and General Expenses Allocable to Construction for 2008 per FERC Form 1, page 322 - 323

				Labor	Total
Account	920 Administrative	and General Salaries		\$378,987,725	\$378,987,725
	921 Office supplies	and expenses w/ Exclusions			\$157,971,038
	920 Exclusions (Jan		Exh 6	(\$23,065,696)	(\$23,065,696)
	920 Exclusions (Jul-		Exh 6	(\$22,100,419)	(\$22,100,419)
	921 Exclusions (Jan		Exh 6	\$0	(\$1,393)
	921 Exclusions (Jul-	Dec)	Exh 6	\$0	(\$5,811,843)
	920 Remove Results	Sharing	Sch 3	(89,197,987)	(89,197,987)
	Add Results Sharing	for A&G	Sch 3		29,644,707
	LTI Adjustment				(8,228,092)
	Total accounts 9	20 and 921		\$244,623,623	\$418,198,040
	See Exhibit K-4 Pc 21 applicable to const			\$96,259,396	\$164,560,929
Payroll ta	xes	7.36%			7,084,692
Workers'	compensation	1.41%			1,357,257
Pensions	and benefits	21.25%	· ·		20,455,122
Results S	haring Payroll Taxes	For A&G Dept. Labor		29,644,707	858,558
Total A ð	c G expenses allocabl	e to construction			194,316,558
	& G allocable to cons oor @ 1% (see Exhib				16,220,612
	A & G expenses all	ocable to construction labor			\$178,095,946

Labor

Total

K-1

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#### SDG&E/SONGS/DISTRIBUTED GENERATION/Exh No:SDG&E-12-CWP Witness: M. De Marco Workpaper Appendix A San Diego Gas & Electric Company 2016 GRC - APP Capital Workpapers

#### SECOND AMENDED SAN ONOFRE OPERATING AGREEMENT EXHIBIT K CAPITAL A&G RATIO 2008

#### Construction Labor Base

Total labor charged to construction accounts per FERC Form 1, page 355, column (d), line 71			\$539,030,215
Less: A & G Labor allocated to construction accounts Capital Paid Severance Labor	Sch K Sch 5	14,129,429 0	14,129,429
Construction labor base subtotal			524,900,786
Less: premium time deducted from labor base for calculation of A&G expense	Sch N-0		0
Net construction labor base			\$524,900,786

Capital A&G ratio for 2008	\$178,095,946	
	\$524,900,786 · =	<u>33.93%</u>

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Capital A&G P&B Payroll Tax