

Application of SOUTHERN CALIFORNIA GAS )  
COMPANY for authority to update its gas revenue )  
requirement and base rates )  
effective January 1, 2019 (U 904-G) )

Application No. 17-10-\_\_\_\_

Exhibit No.: (SCG-15-WP)

WORKPAPERS TO  
PREPARED DIRECT TESTIMONY  
OF RICHARD D. PHILLIPS  
ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA

OCTOBER 2017



2019 General Rate Case - APP  
**INDEX OF WORKPAPERS**

**Exhibit SCG-15-WP - PIPELINE SAFETY ENHANCEMENT PLAN**

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**Overall Summary For Exhibit No. SCG-15-WP**

<b>Area:</b>	<b>PIPELINE SAFETY ENHANCEMENT PLAN</b>
<b>Witness:</b>	<b>Richard D. Phillips</b>

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
<i>Non-Shared Services</i>	4,956	3,003	349	83,156
<i>Shared Services</i>	0	0	0	0
<b>Total</b>	<b>4,956</b>	<b>3,003</b>	<b>349</b>	<b>83,156</b>

*Note: Totals may include rounding differences.*

Southern California Gas Company  
 2019 GRC - APP  
 Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips

**Summary of Non-Shared Services Workpapers:**

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. PSEP Pipeline Hydrotest Projects	4,368	3,003	349	79,212
B. PMO Costs	588	0	0	3,944
<b>Total</b>	<b>4,956</b>	<b>3,003</b>	<b>349</b>	<b>83,156</b>

*Note: Totals may include rounding differences.*

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000

**Summary for Category: A. PSEP Pipeline Hydrotest Projects**

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	1,579	191	29	4,260
Non-Labor	2,789	2,812	320	74,952
NSE	0	0	0	0
<b>Total</b>	<b>4,368</b>	<b>3,003</b>	<b>349</b>	<b>79,212</b>
FTE	16.3	1.9	0.3	42.6

**Workpapers belonging to this Category:**

**2PS000.000 PIPELINE SAFETY ENHANCEMENT PROGRAM**

Labor	1,579	191	29	4,260
Non-Labor	2,789	2,812	320	74,952
NSE	0	0	0	0
<b>Total</b>	<b>4,368</b>	<b>3,003</b>	<b>349</b>	<b>79,212</b>
FTE	16.3	1.9	0.3	42.6

*Note: Totals may include rounding differences.*

**Beginning of Workpaper**  
**2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM**

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

**Activity Description:**

This is the total cost of PSEP Hydrotest projects in the GRC. Costs have been normalized based on the Hydrotest Expenditures from 2019 - 2021. Detailed information at a project level is contained in the supplemental workpapers included as Appendix A of SCG-15.

**Forecast Explanations:**

**Labor - Zero-Based**

The 2017 costs include the Planning and Design costs to develop the detailed project estimates included in testimony of Rick D. Phillips . Because 2019 will be a transition year as PSEP is incorporated into the GRC process, Forecasted costs do not reflect the level of forecasted spend in the post test years. Therefore the forecast has been normalized to reflect the forecasted total level of expenditures.

**Non-Labor - Zero-Based**

The 2017 costs include the Planning and Design costs to develop the detailed project estimates included in testimony of Rick D. Phillips . Because 2019 will be a transition year as PSEP is incorporated into the GRC process, Forecasted costs do not reflect the level of forecasted spend in the post test years. Therefore the forecast has been normalized to reflect the forecasted total level of expenditures.

**NSE - Zero-Based**

NSE does not apply to this workgroup.

**Summary of Results:**

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		15	355	319	1,279	1,579	191	29	4,260	
Non-Labor		176	1,304	3,425	2,711	2,789	2,812	320	74,952	
NSE		0	0	0	0	0	0	0	0	
<b>Total</b>		<b>192</b>	<b>1,659</b>	<b>3,744</b>	<b>3,989</b>	<b>4,368</b>	<b>3,003</b>	<b>349</b>	<b>79,212</b>	
FTE		0.2	3.8	3.5	13.1	16.2	1.9	0.3	42.6	

*Note: Totals may include rounding differences.*

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

**Summary of Adjustments to Forecast:**

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Zero-Based	0	0	0	191	29	4,260	191	29	4,260
Non-Labor	Zero-Based	0	0	0	2,812	320	74,952	2,812	320	74,952
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>3,003</b>	<b>349</b>	<b>79,212</b>	<b>3,003</b>	<b>349</b>	<b>79,212</b>
FTE	Zero-Based	0.0	0.0	0.0	1.9	0.3	42.6	1.9	0.3	42.6

**Forecast Adjustment Details:**

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017	RAMP Incremental	191	2,812	0	3,003	1.9	1-Sided Adj	PDOMAGAS20161203234216650

**Explanation:** RAMP Chapter 4 - Catastrophic Damage involving High Pressure Pipeline Failure

This is the Cost to develop a Stage 3 design estimate.

<b>2017 Total</b>		<b>191</b>	<b>2,812</b>	<b>0</b>	<b>3,003</b>	<b>1.9</b>		
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2018	RAMP Incremental	29	320	0	349	0.3	1-Sided Adj	PDOMAGAS20170512155146330
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**Explanation:** RAMP Chapter 4 - Catastrophic Damage involving High Pressure Pipeline Failure

Engineering Environmental Land Services Costs to get the 90% design that is required to obtain permits Line 2000 E Only.

2018	FOF-Ongoing	0	0	0	0	0.0	1-Sided Adj	MGONZALX20170719101710327
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**Explanation:** This adjustment is to show the O&M balanced FOF benefits for initiatives #70 and #920. The adjustment is shown as zero-value because the FOF benefits have already been realized in the O&M project forecast.

<b>2018 Total</b>		<b>29</b>	<b>320</b>	<b>0</b>	<b>349</b>	<b>0.3</b>		
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2019	RAMP Incremental	4,260	74,952	0	79,212	42.6	1-Sided Adj	PDOMAGAS20161203234421760
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**Explanation:** RAMP Chapter 4 - Catastrophic Damage involving High Pressure Pipeline Failure

This is the normalized O&M costs to execute PSEP Hydrotest Projects in the GRC. Details are provided in testimony SCG-15.

Note: Totals may include rounding differences.

SCG/PIPELINE SAFETY ENHANCEMENT PLAN/Exh No:SCG-15-WP/Witness: R. Phillips



Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj_Type</u>	<u>RefID</u>
2019	FOF-Ongoing	0	0	0	0	0.0	1-Sided Adj	MGONZALX20170719101754303

**Explanation:** This adjustment is to show the O&M balanced FOF benefits for initiatives #60, #70 and #920. The adjustment is shown as zero-value because the FOF benefits have already been realized in the O&M project forecast.

<b>2019 Total</b>		<b>4,260</b>	<b>74,952</b>	<b>0</b>	<b>79,212</b>	<b>42.6</b>		
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Note: Totals may include rounding differences.

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

**Determination of Adjusted-Recorded (Incurred Costs):**

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
<b>Recorded (Nominal \$)*</b>					
Labor	12	284	261	1,076	1,503
Non-Labor	171	1,288	3,436	2,704	2,790
NSE	0	0	0	0	0
<b>Total</b>	<b>183</b>	<b>1,572</b>	<b>3,698</b>	<b>3,780</b>	<b>4,293</b>
FTE	0.2	3.2	3.0	11.1	15.5
<b>Adjustments (Nominal \$) **</b>					
Labor	0	0	0	-2	-148
Non-Labor	0	0	0	0	-1
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2</b>	<b>-149</b>
FTE	0.0	0.0	0.0	0.0	-1.6
<b>Recorded-Adjusted (Nominal \$)</b>					
Labor	12	284	261	1,074	1,355
Non-Labor	171	1,288	3,436	2,704	2,789
NSE	0	0	0	0	0
<b>Total</b>	<b>183</b>	<b>1,572</b>	<b>3,698</b>	<b>3,778</b>	<b>4,144</b>
FTE	0.2	3.2	3.0	11.1	13.9
<b>Vacation &amp; Sick (Nominal \$)</b>					
Labor	2	47	43	174	223
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
<b>Total</b>	<b>2</b>	<b>47</b>	<b>43</b>	<b>174</b>	<b>223</b>
FTE	0.0	0.5	0.5	1.9	2.4
<b>Escalation to 2016\$</b>					
Labor	1	24	15	31	0
Non-Labor	5	16	-11	7	0
NSE	0	0	0	0	0
<b>Total</b>	<b>6</b>	<b>40</b>	<b>3</b>	<b>38</b>	<b>0</b>
FTE	0.0	0.0	0.0	0.0	0.0
<b>Recorded-Adjusted (Constant 2016\$)</b>					
Labor	15	355	319	1,279	1,579
Non-Labor	176	1,304	3,425	2,711	2,789
NSE	0	0	0	0	0
<b>Total</b>	<b>192</b>	<b>1,659</b>	<b>3,744</b>	<b>3,989</b>	<b>4,368</b>
FTE	0.2	3.7	3.5	13.0	16.3

\* 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.

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

**Summary of Adjustments to Recorded:**

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	-2	-148
Non-Labor	0	0	0	-0.389	-0.901
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-2</b>	<b>-149</b>
FTE	0.0	0.0	0.0	0.0	-1.6

**Detail of Adjustments to Recorded:**

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
<b>2012 Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
<b>2013 Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
<b>2014 Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
2015	Other	-2	0	0	0.0	CCTR Transf To 2200-2530.000	PDOMAGAS20161205102322923
<b>Explanation:</b> Transfer Non-PSEP O&M costs to Gas Engineering from 2200-2537 to 2200-2530.							
2015	Aliso	0	0	0	0.0	1-Sided Adj	PDOMAGAS20170504092244533
<b>Explanation:</b> This adjustment was made because this work (IO 300775156) was related to Aliso Canyon Incident.							
<b>2015 Total</b>		<b>-2</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
2016	Other	-2	0	0	0.0	CCTR Transf To 2200-2530.000	PDOMAGAS20161205102152930
<b>Explanation:</b> Transfer Non-PSEP O&M costs to Gas Engineering from 2200-2537 to 2200-2530.							
2016	Aliso	-36	-1	0	-0.3	1-Sided Adj	PDOMAGAS20170504092446137
<b>Explanation:</b> This adjustment was made because this work (IO 300775156) was related to Aliso Canyon Incident.							
2016	Aliso	-83	0	0	-0.9	1-Sided Adj	PDOMAGAS20170504093011027
<b>Explanation:</b> This adjustment was made because this work (IO 300775156) was related to Aliso Canyon Incident.							
2016	Aliso	-28	0	0	-0.4	1-Sided Adj	PDOMAGAS20170504093208100
<b>Explanation:</b> This adjustment was made because this work (IO 300775156) was related to Aliso Canyon Incident.							

*Note: Totals may include rounding differences.*

Southern California Gas Company  
 2019 GRC - APP  
 Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: A. PSEP Pipeline Hydrotest Projects  
 Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
 Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

<u>Year</u>	<u>Adj Group</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	<u>RefID</u>
<b>2016 Total</b>		-148	-1	0	-1.6		

*Note: Totals may include rounding differences.*

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
Witness: Richard D. Phillips  
Category: A. PSEP Pipeline Hydrotest Projects  
Category-Sub: 1. PSEP Pipeline Hydrotest Projects  
Workpaper: 2PS000.000 - PIPELINE SAFETY ENHANCEMENT PROGRAM

**RAMP Item # 1**

Ref ID: PDOMAGAS20161203234216650

RAMP Chapter: SCG-4

Program Name: High Pressure Pipeline Hydrotesting

Program Description: Hydrostatic pressure testing of HCA pipelines

**Risk/Mitigation:**

Risk: Catastrophic Damage involving High Pressure Pipeli

Mitigation: Approved PSEP program to test or replace High Consequence Area High Pressure pipelines that do not m

**Forecast CPUC Cost Estimates (\$000)**

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	24,750	14,250	13,500
High	33,000	19,000	110,000

Funding Source: Other

Forecast Method: Zero-Based

Work Type: Mandated

Work Type Citation: DOT

**Historical Embedded Cost Estimates (\$000)**

Embedded Costs: 0

Explanation:

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Workpaper: 2PS000.001

**Summary for Category: B. PMO Costs**

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	139	0	0	1,647
Non-Labor	449	0	0	2,297
NSE	0	0	0	0
<b>Total</b>	<u>588</u>	<u>0</u>	<u>0</u>	<u>3,944</u>
FTE	0.9	0.0	0.0	16.5

**Workpapers belonging to this Category:**

**2PS000.001 PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs**

Labor	139	0	0	1,647
Non-Labor	449	0	0	2,297
NSE	0	0	0	0
<b>Total</b>	<u>588</u>	<u>0</u>	<u>0</u>	<u>3,944</u>
FTE	0.9	0.0	0.0	16.5

*Note: Totals may include rounding differences.*

**Beginning of Workpaper**  
**2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs**

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Category-Sub: 1. PMO Costs  
 Workpaper: 2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs

**Activity Description:**

The PSEP Project Management Office (PMO) provides governance and management that enable the PSEP program to effectively achieve their objectives. The PMO ensures compliance with regulatory requirements, facilitate and implement continuous work improvement, and establishes controls across all PSEP functional teams. The PSEP PMO costs included in this forecast represents those PSEP organizational costs that are not charged to individual projects.

**Forecast Explanations:**

**Labor - Zero-Based**

PSEP forecast is based on anticipated level of support required for the PSEP rojects included in the GRC. See Appendix A of SCG-15 for additional detail.

**Non-Labor - Zero-Based**

PSEP forecast is based on anticipated level of support required for the PSEP rojects included in the GRC. See Appendix A of SCG-15 for additional detail.

**NSE - Zero-Based**

NSE does not apply to this workgroup.

**Summary of Results:**

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		0	0	0	1	139	0	0	1,647	
Non-Labor		0	0	0	9	449	0	0	2,297	
NSE		0	0	0	0	0	0	0	0	
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>588</b>	<b>0</b>	<b>0</b>	<b>3,944</b>	
FTE		0.0	0.0	0.0	0.0	1.0	0.0	0.0	16.5	

*Note: Totals may include rounding differences.*



Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Category-Sub: 1. PMO Costs  
 Workpaper: 2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs

**Summary of Adjustments to Forecast:**

In 2016 \$(000) Incurred Costs										
Forecast Method		Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years		2017	2018	2019	2017	2018	2019	2017	2018	2019
Labor	Zero-Based	0	0	0	0	0	1,647	0	0	1,647
Non-Labor	Zero-Based	0	0	0	0	0	2,297	0	0	2,297
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
<b>Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3,944</b>	<b>0</b>	<b>0</b>	<b>3,944</b>
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	16.5	0.0	0.0	16.5

**Forecast Adjustment Details:**

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID
2017 Total		0	0	0	0	0.0		
2018 Total		0	0	0	0	0.0		
2019 RAMP Incremental		1,647	2,297	0	3,944	16.5	1-Sided Adj	PDOMAGAS20170510181155250
<b>2019 Total</b>		<b>1,647</b>	<b>2,297</b>	<b>0</b>	<b>3,944</b>	<b>16.5</b>		

**Explanation:**

RAMP Chapter 4 - Catastrophic Damage involving High Pressure Pipeline Failure

Forecast for PMO that will direct the PSEP project. Forecast is based on 55 SoCalGas Employees and associated warehousing, software, and contractor costs. The costs have been split 30% O&M and 70% Capital based on Overall PSEP Pipeline Project Forecast.

Note: Totals may include rounding differences.

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Category-Sub: 1. PMO Costs  
 Workpaper: 2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs

**Determination of Adjusted-Recorded (Incurred Costs):**

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
<b>Recorded (Nominal \$)*</b>					
Labor	0	0	133	97	226
Non-Labor	0	0	32	59	499
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>165</b>	<b>157</b>	<b>725</b>
FTE	0.0	0.0	1.4	1.0	2.0
<b>Adjustments (Nominal \$) **</b>					
Labor	0	0	-133	-96	-107
Non-Labor	0	0	-32	-50	-50
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>-165</b>	<b>-147</b>	<b>-157</b>
FTE	0.0	0.0	-1.4	-1.0	-1.2
<b>Recorded-Adjusted (Nominal \$)</b>					
Labor	0	0	0	1	119
Non-Labor	0	0	0	9	449
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>568</b>
FTE	0.0	0.0	0.0	0.0	0.8
<b>Vacation &amp; Sick (Nominal \$)</b>					
Labor	0	0	0	0	20
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>
FTE	0.0	0.0	0.0	0.0	0.1
<b>Escalation to 2016\$</b>					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
FTE	0.0	0.0	0.0	0.0	0.0
<b>Recorded-Adjusted (Constant 2016\$)</b>					
Labor	0	0	0	1	139
Non-Labor	0	0	0	9	449
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>588</b>
FTE	0.0	0.0	0.0	0.0	0.9

\* 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.

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Category-Sub: 1. PMO Costs  
 Workpaper: 2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs

**Summary of Adjustments to Recorded:**

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	-133	-96	-107
Non-Labor	0	-0.153	-32	-50	-50
NSE	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>-0.153</b>	<b>-165</b>	<b>-147</b>	<b>-157</b>
FTE	0.0	0.0	-1.4	-1.0	-1.2

**Detail of Adjustments to Recorded:**

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
<b>2012 Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
2013	Other	0	0	0	0.0	CCTR Transf To 2200-0309.000	PDOMAGAS20161205101432093
<b>2013 Total</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0.0</b>		
2014	Other	-133	-32	0	-1.4	CCTR Transf To 2200-0309.000	PDOMAGAS20161205101537280
<b>2014 Total</b>		<b>-133</b>	<b>-32</b>	<b>0</b>	<b>-1.4</b>		
2015	Other	-96	-50	0	-1.0	CCTR Transf To 2200-0309.000	PDOMAGAS20161205101653313
<b>2015 Total</b>		<b>-96</b>	<b>-50</b>	<b>0</b>	<b>-1.0</b>		
2016	Other	-96	-50	0	-1.0	CCTR Transf To 2200-0309.000	PDOMAGAS20161205101834750
<b>2016 Total</b>		<b>-107</b>	<b>-50</b>	<b>0</b>	<b>-1.2</b>		
2016	Aliso	-10	0	0	-0.2	1-Sided Adj	PDOMAGAS20170504093336353
<b>2016 Total</b>		<b>-107</b>	<b>-50</b>	<b>0</b>	<b>-1.2</b>		

*Note: Totals may include rounding differences.*

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
 Witness: Richard D. Phillips  
 Category: B. PMO Costs  
 Category-Sub: 1. PMO Costs  
 Workpaper: 2PS000.001 - PIPELINE SAFETY ENHANCEMENT PROGRAM-PMO Costs

**RAMP Item # 1**

Ref ID: TP1JMY20170727164850920

RAMP Chapter: SCG-4

Program Name: High Pressure Pipeline Hydrotesting

Program Description: Hydrostatic pressure testing of HCA pipelines

**Risk/Mitigation:**

Risk: Catastrophic Damage involving Pressure Pipeli

Mitigation: Approved PSEP program to test or replace High Consequence Area High Pressure pipelines that

**Forecast CPUC Cost Estimates (\$000)**

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	24,750	14,250	13,500
High	33,000	19,000	110,000

Funding Source: Other

Forecast Method: Zero-Based

Work Type: Non-Mandated

Work Type Citation: DOT

**Historical Embedded Cost Estimates (\$000)**

Embedded Costs: 0

Explanation: tbd

Southern California Gas Company  
2019 GRC - APP  
Non-Shared Service Workpapers

Area: PIPELINE SAFETY ENHANCEMENT PLAN  
Witness: Richard D. Phillips

**Appendix A: List of Non-Shared Cost Centers**

<b>Cost Center</b>	<b>Sub</b>	<b>Description</b>
2200-2064	000	PSEP REGULATORY & PROJECT SUPPORT
2200-2419	000	PSEP PRJ MANAGEMENT OFFICE DIRECTOR
2200-2422	000	GD SE PSEP PROF TRAINING (EAST)
2200-2423	000	GD NW REG PSEP PROF N - DO NOT USE
2200-2424	000	GD NW REG PSEP PROF P - DO NOT USE
2200-2425	000	GD SE PSEP PROF TRAINING (SOUTH)
2200-2427	000	PSEP PROFICIENCY FIELD TRAINING-TRANSMN
2200-2428	000	PSEP ENG PROCURMT & CONSTRUCTION DIRECTR
2200-2429	000	PSEP PROJECT & EXECUTION MANAGER
2200-2430	000	PSEP PROJECT CONTROLS & TECHNOLOGY MANAGER
2200-2431	000	PSEP ENGINEER & DESIGN MANAGER
2200-2432	000	PSEP PROJECT MANAGEMENT MANAGER
2200-2433	000	PSEP CONSTRUCTION MANAGER
2200-2434	000	PSEP SAFETY MANAGER
2200-2436	000	PSEP BUSINESS & ADMINISTRATION MANAGER
2200-2488	000	PSEP VALVE & TECHNOLOGY ENGINEERING
2200-2497	000	PSEP LAND SERVICES MANAGER
2200-2507	000	PSEP COMMUNITY OUTREACH MANAGER
2200-2526	000	PSEP LNG & CNG SUPPORT SERVICES MGR
2200-2527	000	PSEP VALVE EXECUTION MGR
2200-2528	000	SHARED SERVICE IT PROJECT OFFICE
2200-2537	000	PSEP QUALITY RISK & COMPLIANCE MANAGER
2200-2569	000	PSEP BUSINESS MANAGER GMA DIRECT TRANS
2200-2570	000	PSEP BUSINESS MANAGER GMA INDIRECT TRANS
2200-2574	000	PSEP INVENTORY MANAGEMENT
2200-2607	000	PSEP GMA COSTS