

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-14-WP)

WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF MARIA T. MARTINEZ
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

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Overall Summary For Exhibit No. SCG-14-WP

Area:	TIMP & DIMP
Witness:	Maria T. Martinez

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Non-Shared Services	74,393	94,738	94,738	82,710
Shared Services	1,265	2,416	2,416	3,290
Total	75,658	97,154	97,154	86,000

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez

Summary of Non-Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
A. TIMP	41,654	53,671	53,671	44,351
B. DIMP	32,739	41,067	41,067	38,359
Total	74,393	94,738	94,738	82,710

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Workpaper: 2TD000.000

Summary for Category: A. TIMP

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	13,104	12,917	12,917	15,704
Non-Labor	28,550	40,754	40,754	28,647
NSE	0	0	0	0
Total	41,654	53,671	53,671	44,351
FTE	144.6	163.0	163.0	198.0

Workpapers belonging to this Category:

2TD000.000 TIMP

Labor	13,104	12,917	12,917	15,704
Non-Labor	28,550	40,754	40,754	28,647
NSE	0	0	0	0
Total	41,654	53,671	53,671	44,351
FTE	144.6	163.0	163.0	198.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2TD000.000 - TIMP

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Workpaper: 2TD000.000 - TIMP

Activity Description:

The activity in 2TD000.000 is for TIMP O&M activity which includes ILI, ECDA, P&M, and G&A.

Forecast Explanations:

Labor - Zero-Based

This is for company labor for the activities described in "Activity Description".

Non-Labor - Zero-Based

This is for the nonlabor activities as described in "Activity Description"

NSE - Zero-Based

na

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
Years		2012	2013	2014	2015	2016	2017	2018	2019	
Labor		13,035	14,798	13,715	12,980	13,104	12,917	12,917	15,704	
Non-Labor		35,031	30,254	29,710	26,015	28,550	40,754	40,754	28,647	
NSE		0	0	0	0	0	0	0	0	
Total		48,066	45,052	43,425	38,995	41,654	53,671	53,671	44,351	
FTE		141.1	154.3	149.7	142.9	144.6	163.0	163.0	198.0	

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Category-Sub: 1. TIMP
Workpaper: 2TD000.000 - TIMP

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	12,917	12,917	15,704	12,917	12,917	15,704
Non-Labor	Zero-Based	0	0	0	40,754	40,754	28,647	40,754	40,754	28,647
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	53,671	53,671	44,351	53,671	53,671	44,351
FTE	Zero-Based	0.0	0.0	0.0	163.0	163.0	198.0	163.0	163.0	198.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	RAMP Base	13,104	28,550	0	41,654	0.0	1-Sided Adj	TPDLB20161204161655860	
Explanation:		Zero based forecast used for TIMP O&M. This portion is RAMP Base, which matches 2016 amount							
2017	RAMP Base	0	0	0	0	163.0	1-Sided Adj	TPDLB20161205074227613	
Explanation:		Zero based Forecast for FTE s TIMP O&M							
2017	RAMP Incremental	-187	12,204	0	12,017	0.0	1-Sided Adj	TPDLB20170623094338023	
Explanation:		This is the portion of TIMP zero based forecast that is incremental to 2016.							
2017 Total		12,917	40,754	0	53,671	163.0			
2018	RAMP Base	13,104	28,550	0	41,654	0.0	1-Sided Adj	TPDLB20161204161836827	
Explanation:		Zero Based forecast used for 2018 TIMP O&M. This portion is RAMP Base, which matches 2016 amount							
2018	RAMP Base	0	0	0	0	163.0	1-Sided Adj	TPDLB20161205074308980	
Explanation:		Zero Based forecast used for FTE s TIMP O&M							
2018	FOF-Implementation	0	0	0	0	0.0	1-Sided Adj	TPDLB20170719133850523	
Explanation:		FOF 60 70 & 720. The savings have already been reflected in our zero based projection.							
2018	RAMP Incremental	-187	12,204	0	12,017	0.0	1-Sided Adj	TPDLB20170623100743893	
Explanation:		This is the portion of TIMP zero based forecast that is incremental to 2016.							
2018 Total		12,917	40,754	0	53,671	163.0			

Note: Totals may include rounding differences.

SCG/TIMP & DIMP/Exh No:SCG-14-WP/Witness: M. Martinez

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Workpaper: 2TD000.000 - TIMP

<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	RAMP Base	13,104	28,550	0	41,654	0.0	1-Sided Adj	TPDLB20161204161937327
Explanation:		Zero based forecast used for 2019 TIMP O&M. This portion is RAMP Base, which matches 2016 amount						
2019	RAMP Base	0	0	0	0	163.0	1-Sided Adj	TPDLB20161205074343697
Explanation:		Zero Based forecast used for FTE TIMP O&M						
2019	RAMP Incremental	2,600	97	0	2,697	35.0	1-Sided Adj	TPDLB20161205100250210
Explanation:		This is the portion of TIMP zero based forecast that is incremental to 2016						
2019	FOF-Implementation	0	0	0	0	0.0	1-Sided Adj	TPDLB20170719134011663
Explanation:		FOF 60 70 & 920 savings have been reflected in our Zero based forecast						
2019 Total		15,704	28,647	0	44,351	198.0		

Note: Totals may include rounding differences.

SCG/TIMP & DIMP/Exh No:SCG-14-WP/Witness: M. Martinez

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Category-Sub: 1. TIMP
Workpaper: 2TD000.000 - TIMP

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	10,232	11,833	11,244	10,905	11,377
Non-Labor	34,046	29,882	29,808	25,947	27,888
NSE	0	0	0	0	0
Total	44,278	41,715	41,051	36,852	39,265
FTE	121.0	132.1	128.3	122.4	125.6
Adjustments (Nominal \$) **					
Labor	0	0	0	0	-126
Non-Labor	0	0	0	0	661
NSE	0	0	0	0	0
Total	0	0	0	0	535
FTE	0.0	0.0	0.0	0.0	-1.8
Recorded-Adjusted (Nominal \$)					
Labor	10,232	11,833	11,244	10,905	11,251
Non-Labor	34,046	29,882	29,808	25,947	28,550
NSE	0	0	0	0	0
Total	44,278	41,715	41,051	36,852	39,801
FTE	121.0	132.1	128.3	122.4	123.8
Vacation & Sick (Nominal \$)					
Labor	1,638	1,967	1,835	1,764	1,853
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1,638	1,967	1,835	1,764	1,853
FTE	20.1	22.3	21.4	20.5	20.9
Escalation to 2016\$					
Labor	1,165	997	636	310	0
Non-Labor	984	372	-98	68	0
NSE	0	0	0	0	0
Total	2,150	1,369	538	378	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	13,035	14,798	13,715	12,980	13,104
Non-Labor	35,031	30,254	29,710	26,015	28,550
NSE	0	0	0	0	0
Total	48,066	45,052	43,425	38,995	41,654
FTE	141.1	154.4	149.7	142.9	144.7

* 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: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Category-Sub: 1. TIMP
Workpaper: 2TD000.000 - TIMP

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	-126
Non-Labor	0	0	0	0	661
NSE	0	0	0	0	0
Total	0	0	0	0	535
FTE	0.0	0.0	0.0	0.0	-1.8

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Other	0	663	0	0.0	1-Sided Adj	TPDLB20170214131531430
Explanation:		For original PSEP job on line 404 section 7&8 that was subsequently found to qualify under TIMP. The WO/IO# is being kept as PSEP labeled and adj made to balancing account and this for GRC GRID purposes.					
2016	Other	22	0	0	0.0	1-Sided Adj	TPDLB20170216094737917
Explanation:		adjustment is for AMI CC 2200-2482 that charged to TIMP refundable IO# that originally got excluded from GRID GRC because AMI is excluded BUT this is for refundable TIMP work.					
2016	Aliso	-148	-2	0	-1.8	1-Sided Adj	TPDLB20170510133810940
Explanation:		This is to adjust 2016 historical for the TIMP employees that assisted on the Aliso Canyon project					
2016 Total		-126	661	0	-1.8		

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Workpaper: 2TD000.000 - TIMP

RAMP Item # 1

Ref ID: TPDLB20161204161655860

RAMP Chapter: SCG-4

Program Name: ILI - ECDA - Integrity Assessments - Threat and Risk Assessment - Preventative and Mitigation Measur

Program Description: Cleaning and assessing internal conditions of hi pressure pipelines - coatng and external assessment of hi pressure pipelines - assessing the integrity of current hi pressure pipelines through ILI data - mitigation, pipeline inspections and measure to combat risks

Risk/Mitigation:

Risk: Catastrophic Damage Involving Hi Pressure Pipeline

Mitigation: Transmission Integrity Management Program is closely monitored and given high priority. Frequent au

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	40,306	40,306	44,306
High	60,374	60,374	66,374

Funding Source: CPUC-GRC

Forecast Method: Zero-Based

Work Type: Mandated

Work Type Citation: test

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 41654

Explanation: All 2016 costs are RAMP related.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Category-Sub: 1. TIMP
Workpaper: 2TD000.000 - TIMP

RAMP Item # 2

Ref ID: TPDLB20170512103912850

RAMP Chapter: SCG-8

Program Name: HPPD - Compliance & Analysis Data Collection, EGIS data maintenance, HPPD data maintenance, GIS data

Program Description: HPPD data maintenance

Risk/Mitigation:

Risk: Records Management

Mitigation: None shown

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	5,041	5,671	6,300
High	5,572	6,267	6,963

Funding Source: CPUC-GRC

Forecast Method: Zero-Based

Work Type: Mandated

Work Type Citation: test

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 3290

Explanation: This HPPD group is all RAMP related.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: B. DIMP
Workpaper: 2TD000.001

Summary for Category: B. DIMP

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	9,588	9,539	9,539	14,766
Non-Labor	23,151	31,528	31,528	23,593
NSE	0	0	0	0
Total	32,739	41,067	41,067	38,359
FTE	108.4	121.0	121.0	121.0

Workpapers belonging to this Category:

2TD000.001 DIMP

Labor	9,588	9,539	9,539	14,766
Non-Labor	23,151	31,528	31,528	23,593
NSE	0	0	0	0
Total	32,739	41,067	41,067	38,359
FTE	108.4	121.0	121.0	121.0

Note: Totals may include rounding differences.

**Beginning of Workpaper
2TD000.001 - DIMP**

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Workpaper: 2TD000.001 - DIMP

Activity Description:

This is for DIMP O&M activity which includes DIMP DREAMS, GIPP, SLIP, DRIP, G&A and other various DIMP projects.

Forecast Explanations:

Labor - Zero-Based

This is for DIMP company labor for the activity described in "Activity Description".

Non-Labor - Zero-Based

This is for the nonlabor work for the activity described in "Activity Description".

NSE - Zero-Based

na

Summary of Results:

		In 2016\$ (000) Incurred Costs								
		Adjusted-Recorded					Adjusted-Forecast			
		2012	2013	2014	2015	2016	2017	2018	2019	
Years										
Labor		6,818	11,341	10,241	9,657	9,588	9,539	9,539	14,766	
Non-Labor		13,305	30,151	16,122	14,424	23,151	31,528	31,528	23,593	
NSE		0	0	0	0	0	0	0	0	
Total		20,124	41,492	26,363	24,081	32,739	41,067	41,067	38,359	
FTE		76.6	126.6	115.2	108.0	108.3	121.0	121.0	121.0	

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: B. DIMP
Category-Sub: 1. DIMP
Workpaper: 2TD000.001 - DIMP

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	9,539	9,539	14,766	9,539	9,539	14,766
Non-Labor	Zero-Based	0	0	0	31,528	31,528	23,593	31,528	31,528	23,593
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	41,067	41,067	38,359	41,067	41,067	38,359
FTE	Zero-Based	0.0	0.0	0.0	121.0	121.0	121.0	121.0	121.0	121.0

Forecast Adjustment Details:

<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>
2017	RAMP Base	9,588	23,151	0	32,739	0.0	1-Sided Adj	TPDLB20161204162154490
Explanation: Zero based forecast used for 2017 DIMP. This portion is RAMP Base, which matches 2016 amount.								
2017	RAMP Base	0	0	0	0	121.0	1-Sided Adj	TPDLB20161205074609620
Explanation: Zero Based forecasted used for FTE s DIMP O&M								
2017	RAMP Incremental	-49	8,377	0	8,328	0.0	1-Sided Adj	TPDLB20170623111554603
Explanation: This is the portion of DIMP zero based forecast that is incremental to 2016.								
2017 Total		9,539	31,528	0	41,067	121.0		

2018 RAMP Base 9,588 23,151 0 32,739 0.0 1-Sided Adj TPDLB20161204162237500

Explanation: Zero Based forecast used for 2018 DIMP O&M. This portion is RAMP Base, which matches 2016 amount.

2018 RAMP Base 0 0 0 0 121.0 1-Sided Adj TPDLB20161205074641917

Explanation: Zero Based forecast used for FTE DIMP O&M

2018 RAMP Incremental -49 8,377 0 8,328 0.0 1-Sided Adj TPDLB20170623112028413

Explanation: This is the portion of DIMP zero based forecast that is incremental to 2016.

2018 Total 9,539 31,528 0 41,067 121.0

2019 RAMP Base 9,588 23,151 0 32,739 0.0 1-Sided Adj TPDLB20161204162313047

Explanation: Zero based forecast used for 2019 DIMP O&M. This portion is RAMP Base, which matches 2016 amount.

Note: Totals may include rounding differences.

SCG/TIMP & DIMP/Exh No:SCG-14-WP/Witness: M. Martinez

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Workpaper: 2TD000.001 - DIMP

<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	RAMP Base	0	0	0	0	121.0	1-Sided Adj	TPDLB20161205074712463
Explanation: Zero Based forecast used for DIMP O&M								
2019	RAMP Incremental	5,178	442	0	5,620	0.0	1-Sided Adj	TPDLB20170623112432643
Explanation: This is the portion of DIMP zero base3d forecast that is incremental to 2016								
2019 Total		14,766	23,593	0	38,359	121.0		

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: B. DIMP
Category-Sub: 1. DIMP
Workpaper: 2TD000.001 - DIMP

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$000)
Recorded (Nominal \$)*					
Labor	5,352	9,069	8,396	8,113	8,224
Non-Labor	12,932	29,780	16,175	14,387	23,151
NSE	0	0	0	0	0
Total	18,283	38,850	24,571	22,500	31,375
FTE	65.7	108.3	98.7	92.5	92.7
Adjustments (Nominal \$) **					
Labor	0	0	0	0	8
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	8
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	5,352	9,069	8,396	8,113	8,232
Non-Labor	12,932	29,780	16,175	14,387	23,151
NSE	0	0	0	0	0
Total	18,283	38,850	24,571	22,500	31,383
FTE	65.7	108.3	98.7	92.5	92.7
Vacation & Sick (Nominal \$)					
Labor	857	1,507	1,370	1,313	1,356
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	857	1,507	1,370	1,313	1,356
FTE	10.9	18.3	16.5	15.5	15.6
Escalation to 2016\$					
Labor	610	764	475	231	0
Non-Labor	374	371	-53	38	0
NSE	0	0	0	0	0
Total	983	1,135	422	268	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2016\$)					
Labor	6,818	11,341	10,241	9,657	9,588
Non-Labor	13,305	30,151	16,122	14,424	23,151
NSE	0	0	0	0	0
Total	20,124	41,492	26,363	24,081	32,739
FTE	76.6	126.6	115.2	108.0	108.3

* 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: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Workpaper: 2TD000.001 - DIMP

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	8
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	8
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Other	8	0	0	0.0	1-Sided Adj	TPDLB20170216094948600
2016 Total		8	0	0	0.0		

Explanation: Adjustment is for AMI CC 2200-2482 that was originally excluded from GRID GRC but they are in IO# that is for DIMP refundable so we will add

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Workpaper: 2TD000.001 - DIMP

RAMP Item # 1

Ref ID: TPDLB20161204162154490

RAMP Chapter: SCG-10

Program Name: GIPP, DRIP, SLIP, DIMP DREAMS

Program Description: Program in place to protect assets by building infrastructure to protect gas equipment - addresses the threat of failures of anodeless risers - addresses an emerging issue concerning pipeline damage associated with sewer laterals - risk evaluation and monitoring of distribution systems

Risk/Mitigation:

Risk: Catastrophic Damage Involving Medium Pressure Pipel

Mitigation: Program in place to minimize infrastruce damage due to vehicles or equipment striking above ground d

Forecast CPUC Cost Estimates (\$000)

	<u>2017</u>	<u>2018</u>	<u>2019</u>
Low	32,300	32,300	33,138
High	35,700	35,700	40,803

Funding Source: CPUC-GRC

Forecast Method: Zero-Based

Work Type: Mandated

Work Type Citation: test

Historical Embedded Cost Estimates (\$000)

Embedded Costs: 32739

Explanation: All 2016 historical costs are RAMP related

Southern California Gas Company
 2019 GRC - APP
 Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez

Summary of Shared Services Workpapers:

Description	In 2016 \$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
		2016	2017	2018
A. TIMP	967	1,356	1,356	1,649
B. DIMP	298	1,060	1,060	1,641
Total	1,265	2,416	2,416	3,290

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Cost Center: 2200-7000.000

Summary for Category: A. TIMP

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	967	1,356	1,356	1,649
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	<u>967</u>	<u>1,356</u>	<u>1,356</u>	<u>1,649</u>
FTE	0.0	0.0	0.0	0.0

Cost Centers belonging to this Category:

2200-7000.000 TIMP Project Support for SDG&E

Labor	967	1,356	1,356	1,649
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	<u>967</u>	<u>1,356</u>	<u>1,356</u>	<u>1,649</u>
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-7000.000 - TIMP Project Support for SDG&E

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Cost Center: 2200-7000.000 - TIMP Project Support for SDG&E

Activity Description:

This cost center is to assist the SDG&E TIMP Program.

Forecast Explanations:

Labor - Zero-Based

Zero-based forecasting is used because all activity in TIMP is based around the activity for those required 7 year cycle assessments

Non-Labor - Zero-Based

Zero based forecasting same explanation as for Labor

NSE - Zero-Based

Zero based forecasting same explanation as for labor

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	0	967	1,356	1,356	1,649	
Non-Labor		0	0	0	0	0	0	0	0	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	967	1,356	1,356	1,649	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Cost Center: 2200-7000.000 - TIMP Project Support for SDG&E

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	967	0	0	967	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	0	0	0	0	0.0	1,356	0	0	1,356	0.0
Total Incurred	967	0	0	967	0.0	1,356	0	0	1,356	0.0
% Allocation										
Retained	0.00%	0.00%				0.00%	0.00%			
SEU	100.00%	100.00%				100.00%	100.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,356	0	0	1,356	0.0	1,649	0	0	1,649	0.0
Total Incurred	1,356	0	0	1,356	0.0	1,649	0	0	1,649	0.0
% Allocation										
Retained	0.00%	0.00%				0.00%	0.00%			
SEU	100.00%	100.00%				100.00%	100.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Project support for SDG&E TIMP. Charges are 100% retained in refundable TIMP Program

Cost Center Allocation Percentage for 2017

Project support for SDG&E TIMP. Charges are 100% retained in refundable TIMP Program

Cost Center Allocation Percentage for 2018

Project support for SDG&E TIMP. Charges are 100% retained in refundable TIMP Program.

Cost Center Allocation Percentage for 2019

Project support for SDG&E TIMP. Charges are 100% retained in refundable TIMP.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Cost Center: 2200-7000.000 - TIMP Project Support for SDG&E

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	1,356	1,356	1,649	1,356	1,356	1,649
Non-Labor	Zero-Based	0	0	0	0	0	0	0	0	0
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	1,356	1,356	1,649	1,356	1,356	1,649
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	1,356	0	0	1,356	0.0	1-Sided Adj	TPDLB20170510082134040	
Explanation:		This is to allocate 1 356 of TIMP labor to support SDG&E TIMP program							
2017 Total		1,356	0	0	1,356	0.0			
2018	Other	1,356	0	0	1,356	0.0	1-Sided Adj	TPDLB20170510082255617	
Explanation:		This is to allocate 1 356 of TIMP labor to support SDG&E TIMP program							
2018 Total		1,356	0	0	1,356	0.0			
2019	Other	1,649	0	0	1,649	0.0	1-Sided Adj	TPDLB20170510082353213	
Explanation:		This is to allocate 1 649 of TIMP labor to support SDG&E TIMP program							
2019 Total		1,649	0	0	1,649	0.0			

Note: Totals may include rounding differences.

SCG/TIMP & DIMP/Exh No:SCG-14-WP/Witness: M. Martinez

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: A. TIMP
Category-Sub: 1. TIMP
Cost Center: 2200-7000.000 - TIMP Project Support for SDG&E

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$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	830
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	830
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	830
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	830
FTE	0.0	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	137
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	137
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2016\$					
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
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	0	967
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	967
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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: A. TIMP
 Category-Sub: 1. TIMP
 Cost Center: 2200-7000.000 - TIMP Project Support for SDG&E

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	830
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	830
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Other	830	0	0	0.0	1-Sided Adj	TPDLB20170214132222510
2016 Total		830	0	0	0.0		

Explanation: Adjustment is to reflect the BTI amount of \$830 121 for 2016 that gets allocated to SDG&E TIMP

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: B. DIMP
Cost Center: 2200-7001.000

Summary for Category: B. DIMP

	In 2016\$ (000) Incurred Costs			
	Adjusted-Recorded	Adjusted-Forecast		
	2016	2017	2018	2019
Labor	298	1,060	1,060	1,641
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	298	1,060	1,060	1,641
FTE	0.0	0.0	0.0	0.0

Cost Centers belonging to this Category:

2200-7001.000 DIMP Project Support for SDG&E

Labor	298	1,060	1,060	1,641
Non-Labor	0	0	0	0
NSE	0	0	0	0
Total	298	1,060	1,060	1,641
FTE	0.0	0.0	0.0	0.0

Note: Totals may include rounding differences.

Beginning of Workpaper
2200-7001.000 - DIMP Project Support for SDG&E

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Cost Center: 2200-7001.000 - DIMP Project Support for SDG&E

Activity Description:

This cost center is to assist the SDG&E DIMP Program.

Forecast Explanations:

Labor - Zero-Based

Zero based forecasting is used because all activity in DIMP is based around the activity for those required assessments.

Non-Labor - Zero-Based

Zero based forecasting is same explanation as for Labor

NSE - Zero-Based

Zero based forecasting is same explanation as for Labor

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	0	298	1,060	1,060	1,641	
Non-Labor		0	0	0	0	0	0	0	0	
NSE		0	0	0	0	0	0	0	0	
Total		0	0	0	0	298	1,060	1,060	1,641	
FTE		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Cost Center: 2200-7001.000 - DIMP Project Support for SDG&E

Cost Center Allocations (Incurred Costs):

	2016 Adjusted-Recorded					2017 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	298	0	0	298	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	0	0	0	0	0.0	1,060	0	0	1,060	0.0
Total Incurred	298	0	0	298	0.0	1,060	0	0	1,060	0.0
% Allocation										
Retained	0.00%	0.00%				0.00%	0.00%			
SEU	100.00%	100.00%				100.00%	100.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

	2018 Adjusted-Forecast					2019 Adjusted-Forecast				
	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
Directly Retained	0	0	0	0	0.0	0	0	0	0	0.0
Directly Allocated	0	0	0	0	0.0	0	0	0	0	0.0
Subj. To % Alloc.	1,060	0	0	1,060	0.0	1,641	0	0	1,641	0.0
Total Incurred	1,060	0	0	1,060	0.0	1,641	0	0	1,641	0.0
% Allocation										
Retained	0.00%	0.00%				0.00%	0.00%			
SEU	100.00%	100.00%				100.00%	100.00%			
CORP	0.00%	0.00%				0.00%	0.00%			
Unreg	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2016

Project support for SDG&E DIMP. Retained 100% in DIMP Program.

Cost Center Allocation Percentage for 2017

Project support for SDG&E DIMP. Retained 100% in DIMP Program.

Cost Center Allocation Percentage for 2018

Project support for SDG&E DIMP. Retained 100% in DIMP Program.

Cost Center Allocation Percentage for 2019

Project support for SDG&E DIMP. Retained 100% in DIMP Program.

Note: Totals may include rounding differences.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Cost Center: 2200-7001.000 - DIMP Project Support for SDG&E

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	1,060	1,060	1,641	1,060	1,060	1,641
Non-Labor	Zero-Based	0	0	0	0	0	0	0	0	0
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Total		0	0	0	1,060	1,060	1,641	1,060	1,060	1,641
FTE	Zero-Based	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

Year	Adj Group	Labor	NLbr	NSE	Total	FTE	Adj Type	RefID	
2017	Other	1,060	0	0	1,060	0.0	1-Sided Adj	TPDLB20170510083445627	
Explanation:		This is to allocate 1 060 of DIMP labor to support SDG&E DIMP program							
2017 Total		1,060	0	0	1,060	0.0			
2018	Other	1,060	0	0	1,060	0.0	1-Sided Adj	TPDLB20170510083537367	
Explanation:		This is to allocate 1060 of DIMP labor to support SDG&E DIMP program							
2018 Total		1,060	0	0	1,060	0.0			
2019	Other	1,641	0	0	1,641	0.0	1-Sided Adj	TPDLB20170510083634173	
Explanation:		This is to allocate 1 641 of DIMP labor to support SDG&E DIMP program							
2019 Total		1,641	0	0	1,641	0.0			

Note: Totals may include rounding differences.

SCG/TIMP & DIMP/Exh No:SCG-14-WP/Witness: M. Martinez

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
Witness: Maria T. Martinez
Category: B. DIMP
Category-Sub: 1. DIMP
Cost Center: 2200-7001.000 - DIMP Project Support for SDG&E

Determination of Adjusted-Recorded (Incurred Costs):

	2012 (\$000)	2013 (\$000)	2014 (\$000)	2015 (\$000)	2016 (\$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	256
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	256
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	256
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	256
FTE	0.0	0.0	0.0	0.0	0.0
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	42
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	42
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2016\$					
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
Recorded-Adjusted (Constant 2016\$)					
Labor	0	0	0	0	298
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	298
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.

Southern California Gas Company
2019 GRC - APP
Shared Services Workpapers

Area: TIMP & DIMP
 Witness: Maria T. Martinez
 Category: B. DIMP
 Category-Sub: 1. DIMP
 Cost Center: 2200-7001.000 - DIMP Project Support for SDG&E

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs					
Years	2012	2013	2014	2015	2016
Labor	0	0	0	0	256
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	256
FTE	0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Adj Group	Labor	NLbr	NSE	FTE	Adj Type	RefID
2012 Total		0	0	0	0.0		
2013 Total		0	0	0	0.0		
2014 Total		0	0	0	0.0		
2015 Total		0	0	0	0.0		
2016	Other	256	0	0	0.0	1-Sided Adj	TPDLB20170214132343020
2016 Total		256	0	0	0.0		

Explanation: This is to reflect BDI activity for 2016 in amount of \$255 560 that gets allocated to DIMP

Note: Totals may include rounding differences.

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

Area: TIMP & DIMP
Witness: Maria T. Martinez

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	Description
2200-0256	000	SPECIAL PROJECTS MANAGER
2200-0313	000	GIS DATA MAINTENANCE
2200-0319	000	MATERIALS/CORROSION
2200-0801	000	MGR OPERATIONS SUPPORT
2200-1174	000	GD NW TECH SUPV - DREAMS
2200-1177	000	GIS-NORTH
2200-2108	000	PIPELINE INTEGRITY MANAGER
2200-2109	000	PIPELINE INTEGRITY TECHNICAL SUPPORT
2200-2203	000	SOCAL GAS PIPELINE INTEGRITY EVALUATIONS
2200-2290	000	PIPELINE INTEGRITY MGR-NONSHARED
2200-2291	000	ASSESSMENT PLANNING-SHARED
2200-2292	000	ASSESSMENT PLANNING-NONSHARED
2200-2293	000	PREVENTATIVE & MITIGATION-SHARED
2200-2294	000	PREVENTATIVE & MITIGATION-NONSHARED
2200-2295	000	DIMP & SPECIAL PROJECTS-SHARED
2200-2296	000	DIMP & SPECIAL PROJECTS
2200-2297	000	DATA MGMT & GPS-SHARED
2200-2298	000	DATA MGMT & GPS-NONSHARED
2200-2299	000	ILI & METALLURGY-NONSHARED
2200-2325	000	PIPELINE INTEG - OPS TECH - SHARED
2200-2357	000	PROJ MGR-GAS INFRASTRUCTURE PROTN PROGRM
2200-2358	000	PROJ MGR-SEWER LATERAL INSPECTN PROGM
2200-2407	000	PIPELINE RECORDS & DATA VALIDATION
2200-2471	000	Proj Mgr-Anodeless Riser Program
2200-2484	000	GOS DIMP Projects
2200-2499	000	GIS STRATEGY & APPS-TIMP
2200-2532	000	DIMP DREAMS
2200-2533	000	GIS - DATA ACCEPTANCE & STANDARDS