Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas revenue)
requirement and base rates)
effective January 1, 2024 (U 904-G))

Application No. 22-05-015

Exhibit No.: (SCG-05-WP-R)

REVISED WORKPAPERS TO PREPARED DIRECT TESTIMONY OF WALLACE E. RAWLS ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

AUGUST 2022



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Overall Summary For Exhibit No. SCG-05-WP-R

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Description
Non-Shared Services
Shared Services
Total

In 2021 \$ (000) Incurred Costs							
Adjusted-Recorded	<u> </u>	Adjusted-Forecast					
2021	2022	2023	2024				
10,057	11,166	12,821	13,758				
5,600	6,924	8,677	9,858				
15,657	18,090	21,498	23,616				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Summary of Non-Shared Services Workpapers:

Description

A. GAS OPERATIONS TRAINING &
DEVELOPMENT
B. ENTERPRISE ASSET MANAGEMENT
C. DAMAGE PREVENTION
D. HIGH PRESSURE PROJECT RECORD
CLOSEOUT
E. GIS Data Asset Integrity
Total

In 2021 \$ (000) Incurred Costs								
Adjusted- Recorded	Adjusted-Forecast							
2021	2022	2022 2023 2024						
5,509	5,398	6,017	6,479					
1,777	3,988	4,699	4,909					
1,612	675	675	675					
669	560	800	1,088					
490	545	630	607					
10,057	11,166	12,821	13,758					

In 2021\$ (000) Incurred Costs

2022

Adjusted-Forecast

2024

2023

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Workpaper: VARIOUS

Summary for Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

2021

Adjusted-Recorded

Labor	3,684	3,834	4,384	4,784
Non-Labor	1,825	1,564	1,633	1,695
NSE	0	0	0	0
Total	5,509	5,398	6,017	6,479
FTE	34.5	36.0	41.5	45.5
Workpapers belonging to t	his Category:			
2SI001.000 Gas Operatio	ns Training & Developm	ent		
Labor	1,007	1,007	1,407	1,807
Non-Labor	662	662	724	786
NSE	0	0	0	0
Total	1,669	1,669	2,131	2,593
FTE	9.2	9.2	13.2	17.2
2SI001.001 Gas Operatio	ns Training & Developm	ent		
Labor	1,109	1,159	1,209	1,209
Non-Labor	142	145	147	147
NSE	0	0	0	0
Total	1,251	1,304	1,356	1,356
FTE	10.1	10.6	11.1	11.1
2SI001.002 Gas Operatio	ns Training & Developm	ent		
Labor	678	678	678	678
Non-Labor	12	12	12	12
NSE	0	0	0	0
Total	690	690	690	690
FTE	7.2	7.2	7.2	7.2
2SI001.003 Gas Operatio	ns Training & Developm	ent		
Labor	890	990	1,090	1,090
Non-Labor	1,009	745	750	750
NSE	0	0	0	0
Total	1,899	1,735	1,840	1,840
FTE	8.0	9.0	10.0	10.0

Beginning of Workpaper 2SI001.000 - Gas Operations Training & Development

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub 1. GAS OPERATIONS TRAINING AND DEVELOPMENT
Workpaper: 2SI001.000 - Gas Operations Training & Development

Activity Description:

The activities completed within this workgroup are categorized as Gas Operations Training and Development. Gas Operations Training and Development creates future leaders through the delivery of effective/high-quality learning experiences to operations employees throughout SoCalGas. The continued safe construction, maintenance, integrity management, replacements and expansion of our pipeline system must be executed by approximately 2,500 Gas Transmission, Gas Distribution, and Storage employees located throughout SoCalGas's large and diverse service territory. Gas Operations Training and Development communicates and reinforces the SoCalGas safety culture and strives to instill a passion for success through interactions such as regular dialogue, periodic dialogue sessions with frontline supervisors and employees, participation in employee seminars, ongoing refresher training, and one-on-one employee meetings. Gas Operations Training and Development also consists of Field Technical Skills Training. The Operations Field Technical Skills Training team provides Gas Transmission, Gas Distribution, and Storage with training and services. These trainings and services are necessary for the Company to comply with applicable laws, regulations, and standards and to help maintain the safety of the workforce and the public.

Units for this workpaper are the number of students (both employees and contractors) trained by Gas Operations Training Instructors. Units are as follows: 2021 - 4,633; 2022 - 6,200; 2023 - 8,308; 2024 - 9,969.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Labor adjustments were made for the addition of new instructors, known as Training Field Instructors, that specialize in on-the-job training to promote learning retention in employees after they complete their formal in-person training.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Non-labor adjustments were made for the non-labor expenses associated with the hiring of additional employees, including rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub 1. GAS OPERATIONS TRAINING AND DEVELOPMENT
Workpaper: 2SI001.000 - Gas Operations Training & Development

Summary of Results:

		In 2021\$ (000) Incurred Costs						
		Adju	sted-Recor	ded		Ad	justed-Fored	cast
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	1,699	1,668	1,741	1,790	1,007	1,007	1,407	1,807
Non-Labor	203	245	372	1,043	662	663	725	787
NSE	0	0	0	0	0	0	0	0
Total	1,902	1,912	2,113	2,833	1,669	1,670	2,132	2,594
FTE	15.7	15.0	15.5	16.4	9.2	9.2	13.2	17.2

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

Summary of Adjustments to Forecast:

			In 202	1 \$(000) Ir	ncurred Co	sts				
Forecast	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	1,007	1,007	1,007	0	400	800	1,007	1,407	1,807
Non-Labor	Base YR Rec	662	662	662	0	62	124	662	724	786
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	1,669	1,669	1,669	0	462	924	1,669	2,131	2,593
FTE	Base YR Rec	9.2	9.2	9.2	0.0	4.0	8.0	9.2	13.2	17.2

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type
2022 Total	0	0	0	0	0.0	
2023	400	62	0	462	4.0	1-Sided Adj

Explanation:

Training Field Instructors will provide field support to employees after they complete in -person training.

4 hires are planned in 2023 and 4 in 2024, at an average of \$100k/year/incremental employee.

2023: 4 * \$100k = \$400,000 2024: 8 * \$100k = \$800,000

Non-labor expenses for new employees for rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc. These costs average \$15,541 annually per employee with a rental vehicle based on historical incurred costs.

2023: 4 * \$15,541 = \$62,164 2024: 8 * \$15,541 = \$124,328

2023 Total	400	62	0	462	4.0	
2024	800	124	0	924	8.0	1-Sided Adj

Explanation:

Training Field Instructors will provide field support to employees after they complete in -person training.

4 hires are planned in 2023 and 4 in 2024, at an average of \$100k/year/incremental employee.

2023: 4 * 100k = \$400,000 2024: 8 * 100k = \$800,000

Non-labor expenses for new employees for rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc. These costs average \$15,541 annually per employee with a rental vehicle based on historical incurred costs.

2023: 4 * \$15,541 = \$62,164 2024: 8 * \$15,541 = \$124,328

2024 Total	800	124	0	924	8.0	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

Determination of Adjusted-Recorded (Incurred Costs):

•	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,302	1,311	1,386	1,478	856
Non-Labor	180	224	347	1,080	933
NSE	0	0	0	0	0
Total	1,483	1,535	1,733	2,558	1,789
FTE	13.3	12.7	13.0	13.7	7.8
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-111	-271
NSE	0	0	0	0	0
Total	0	0	0	-111	-271
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomin	al \$)				
Labor	1,302	1,311	1,386	1,478	856
Non-Labor	180	224	347	969	662
NSE	0	0	0	0	0
Total	1,483	1,535	1,733	2,447	1,518
FTE	13.3	12.7	13.0	13.7	7.8
acation & Sick (Nominal \$	5)				
Labor	221	226	263	260	151
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	221	226	263	260	151
FTE	2.4	2.3	2.5	2.7	1.4
scalation to 2021\$					
Labor	175	131	92	52	0
Non-Labor	23	20	25	74	0
NSE	0	0	0	0	0
Total	198	151	117	126	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Consta	ant 2021\$)				
Labor	1,699	1,668	1,741	1,790	1,007
Non-Labor	203	245	372	1,043	662
NSE	0	0	0	0	0
Total	1,902	1,912	2,113	2,833	1,669
FTE	15.7	15.0	15.5	16.4	9.2

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		0	0	0	0	0
Non-Labor		0	0	0	-111	-271
NSE		0	0	0	0	0
	Total		0	0	-111	-271
FTE		0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	FTE	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-111	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2020 Total	0	-111	0	0.0		
2021	0	-271	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2021 Total	0	-271	0	0.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C28

RAMP Line Item Name: Company Excavator Training (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	19	19	19	19	36	47

Cost Estimate Changes from RAMP:

This workpaper is 1 of 3 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution and in workpaper 2GT000.000 by Gas Transmission Operations and Construction

GRC Work	Unit/Activity	Level Estimat	20
GRC WOIK	UIIII/ACIIVIIV	Level Estilliat	.65

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of training hours	412.00	615.00	633.00	652.00	620.00	750.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C01

RAMP Line Item Name: Locate and Mark Training (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	90	90	90	90	426	515

Cost Estimate Changes from RAMP:

This workpaper is 1 of 2 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 R Range A	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of training hours	4,995.00	5,997.00	6,502.00	6,697.00	6,363.00	7,702.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

RAMP Item #3

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C02

RAMP Line Item Name: Locate and Mark Training (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	21	21	21	21	36	43

Cost Estimate Changes from RAMP:

This workpaper is 1 of 3 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution and in workpaper 2GT000.000 by Gas Transmission Operations and Construction

GRC Work	Unit/Activity	امیرم ا	Fetimates
GRC WOIK	UIIII/ACIIVIIV	Level	Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of training hours	447.00	512.00	555.00	571.00	543.00	657.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 1. GAS OPERATIONS TRAINING AND DEVELOPMENT

Workpaper: 2SI001.000 - Gas Operations Training & Development

RAMP Item #4

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C27

RAMP Line Item Name: Company Excavator Training (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inc	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	82	82	82	82	321	411

Cost Estimate Changes from RAMP:

This workpaper is 1 of 2 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 R Range A	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of training hours	5,471.00	5,334.00	5,494.00	5,659.00	5,376.00	6,508.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Beginning of Workpaper 2SI001.001 - Gas Operations Training & Development

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R
Workpaper: 2SI001.001 - Gas Operations Training & Development

Activity Description:

The activities completed within this workgroup are categorized as Gas Operations Training and Development. Gas Operations Training and Development creates future leaders through the delivery of effective/high-quality learning experiences to operations employees throughout SoCalGas. The continued safe construction, maintenance, integrity management, replacements and expansion of our pipeline system must be executed by approximately 2,500 Gas Transmission, Gas Distribution, and Storage employees located throughout SoCalGas's large and diverse service territory. Gas Operations Training and Development communicates and reinforces the SoCalGas safety culture and strives to instill a passion for success through interactions such as regular dialogue, periodic dialogue sessions with frontline supervisors and employees, participation in employee seminars, ongoing refresher training, and one-on-one employee meetings. Gas Operations Training and Development also consists of Field Technical Skills Training. The Operations Field Technical Skills Training team provides Gas Transmission, Gas Distribution, and Storage with training and services. These trainings and services are necessary for the Company to comply with applicable laws, regulations and standards and to help maintain the safety of the workforce and the public.

Units for this workpaper are the number of students (both employees and contractors) trained by Gas Operations Training Instructors. Units are as follows: 2021 - 4,633; 2022 - 6,200; 2023 - 8,308; 2024 - 9,969.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Increased employee turnover in workforce presents issues of knowledge transfer, skills development, and overall proficiency of the replacement workforce. This drives costs related to Training and Technical Support. SoCalGas is taking proactive action to address employee training by bringing in additional instructors and subject matter experts to help prevent this from happening. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made to accommodate for a new training instructor for Transmission and Storage.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Non-labor adjustments were made for the non-labor expenses associated with the hiring of additional employees, including rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R
Workpaper: 2SI001.001 - Gas Operations Training & Development

Summary of Results:

Γ	In 2021\$ (000) Incurred Costs									
	Adjusted-Recorded					Adjusted-Forecast				
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	1,438	1,308	1,300	1,393	1,109	1,159	1,209	1,209		
Non-Labor	60	64	149	164	142	145	147	147		
NSE	0	0	0	0	0	0	0	0		
Total	1,499	1,372	1,449	1,558	1,251	1,304	1,356	1,356		
FTE	13.3	12.0	11.8	12.7	10.1	10.6	11.1	11.1		

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub: 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R
Workpaper: 2SI001.001 - Gas Operations Training & Development

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast	t Method	Bas	se Foreca	st	Forecast Adjustments			Adjusted-Forecast			
Years	s	2022	2022 2023 2024		2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	1,109	1,109	1,109	50	100	100	1,159	1,209	1,209	
Non-Labor	Base YR Rec	142	142	142	3	5	5	145	147	147	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	1,251	1,251	1,251	53	105	105	1,304	1,356	1,356	
FTE	Base YR Rec	10.1	10.1	10.1	0.5	1.0	1.0	10.6	11.1	11.1	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	50	3	0	53	0.5	1-Sided Adj	

Explanation:

The number of students in training to join the Transmission and Storage workforce is expected to increase. One additional training instructor is needed to keep up with the increasing workload, at an average of \$100,000/new employee in labor. The employee is planned to start in mid-2022, so 50% of the employee's salary is expected for 2022.

2022: .5 * \$100k = \$50,000 2023: 1 * \$100k = \$100,000 2024: 1 * \$100k = \$100,000

Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022. These costs average \$5K/year/incremental employee based on historical incurred costs. The employee is expected to start in mid-2022, so 50% is planned for 2022.

2022: .5 * 1 * \$5k= \$2,500 2023: 1 * \$5k = \$5,000 2024: 1 * \$5k = \$5,000

2022 Total	50	3	0	53	0.5	
2023	100	5	0	105	1.0	1-Sided Adi

Explanation:

The number of students in training to join the Transmission and Storage workforce is expected to increase. One additional training instructor is needed to keep up with the increasing workload, at an average of \$100,000/new employee in labor. The employee is planned to start in mid-2022, so 50% of the employee's salary is expected for 2022.

2022: .5 * \$100k = \$50,000 2023: 1 * \$100k = \$100,000 2024: 1 * \$100k = \$100,000

Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022. These costs average \$5K/year/incremental employee based on historical incurred costs. The employee is expected to start in mid-2022, so 50% is planned for 2022.

2022: .5 * 1 * \$5k= \$2,500 2023: 1 * \$5k = \$5,000 2024: 1 * \$5k = \$5,000

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

GAS SYSTEM STAFF & TECHNOLOGY Area:

Witness: Wallace E. Rawls

A. GAS OPERATIONS TRAINING & DEVELOPMENT Category: 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R Category-Sub: 2SI001.001 - Gas Operations Training & Development Workpaper:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
2023 Total	100	5	0	105	1.0	
2024	100	5	0	105	1.0	1-Sided Adj

Explanation:

The number of students in training to join the Transmission and Storage workforce is expected to increase. One additional training instructor is needed to keep up with the increasing workload, at an average of \$100,000/new employee in labor. The employee is planned to start in mid-2022, so 50% of the employee's salary is expected for 2022.

2022: .5 * \$100k = \$50,000 2023: 1 * \$100k = \$100,000 2024: 1 * \$100k = \$100,000

Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022. These costs average \$5K/year/incremental employee based on historical incurred costs. The employee is expected to start in mid-2022, so 50% is planned for 2022.

2022: .5 * 1 * \$5k= \$2,500 2023: 1 * \$5k = \$5,000 2024: 1 * \$5k = \$5,000

2024 Total 100 105 1.0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub: 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R
Workpaper: 2SI001.001 - Gas Operations Training & Development

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,103	1,029	1,035	1,150	943
Non-Labor	54	59	139	158	197
NSE	0	0	0	0	0
Total	1,156	1,087	1,174	1,308	1,140
FTE	11.4	10.2	9.9	10.6	8.5
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-5	-55
NSE	0	0	0	0	0
Total	0	0	0	-5	-55
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Nomina	al \$)				
Labor	1,103	1,029	1,035	1,150	943
Non-Labor	54	59	139	153	142
NSE	0	0	0	0	0
Total	1,156	1,087	1,174	1,303	1,085
FTE	11.3	10.2	9.9	10.6	8.5
cation & Sick (Nominal \$)					
Labor	187	177	196	203	166
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	187	177	196	203	166
FTE	2.0	1.8	1.9	2.1	1.6
calation to 2021\$					
Labor	149	103	69	40	0
Non-Labor	7	5	10	12	0
NSE	0	0	0	0	0
Total	155	108	79	52	0
FTE	0.0	0.0	0.0	0.0	0.0
corded-Adjusted (Consta	nt 2021\$)				
Labor	1,438	1,308	1,300	1,393	1,109
Non-Labor	60	64	149	164	142
NSE	0	0	0	0	0
Total	1,499	1,372	1,449	1,558	1,251
FTE	13.3	12.0	11.8	12.7	10.1

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT
Category-Sub: 2. TRAINING - TRANSMISSION/STORAGE/HP/M&R
Workpaper: 2SI001.001 - Gas Operations Training & Development

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs									
Years 2017 2018 2019 2020 2021										
Labor		0	0	0	0	0				
Non-Labor		0	0	0	-5	-55				
NSE		0	0	0	0	0				
	Total		0	0 -	-5	-55				
FTE		0.0	0.0	0.0	0.0	0.0				

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	FTE	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-5	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2020 Total	0	-5	0	0.0		
2021	0	-55	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2021 Total	0	-55	0	0.0		

Beginning of Workpaper 2SI001.002 - Gas Operations Training & Development

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub 3. TRAINING - OFFICE

Workpaper: 2SI001.002 - Gas Operations Training & Development

Activity Description:

The activities completed within this workgroup are categorized as Gas Operations Training and Development. Gas Operations Training and Development creates future leaders through the delivery of effective/high-quality learning experiences to operations employees throughout SoCalGas. The continued safe construction, maintenance, integrity management, replacements and expansion of our pipeline system must be executed by approximately 2,500 Gas Transmission, Gas Distribution, and Storage employees located throughout SoCalGas's large and diverse service territory. Gas Operations Training and Development communicates and reinforces the SoCalGas safety culture and strives to instill a passion for success through interactions such as regular dialogue, periodic dialogue sessions with frontline supervisors and employees, participation in employee seminars, ongoing refresher training, and one-on-one employee meetings. Gas Operations Training and Development also consists of Field Technical Skills Training. The Operations Field Technical Skills Training team provides Gas Transmission, Gas Distribution, and Storage with training and services. These trainings and services are necessary for the Company to comply with applicable laws, regulations and standards and to help maintain the safety of the workforce and the public.

Units for this workpaper are the number of students (both employees and contractors) trained by Gas Operations Training Instructors. Units are as follows: 2021 - 4,633; 2022 - 6,200; 2023 - 8,308; 2024 - 9,969.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub 3. TRAINING - OFFICE

Workpaper: 2SI001.002 - Gas Operations Training & Development

Summary of Results:

				In 2021\$ (00	0) Incurred C	osts		
		Adju	sted-Recor	ded		Ad	justed-Fored	cast
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	583	588	551	715	678	678	678	678
Non-Labor	45	28	23	21	12	11	11	11
NSE	0	0	0	0	0	0	0	0
Total	628	616	574	736	690	689	689	689
FTE	6.7	6.5	6.0	7.6	7.2	7.2	7.2	7.2

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 3. TRAINING - OFFICE

Workpaper: 2SI001.002 - Gas Operations Training & Development

Summary of Adjustments to Forecast:

			In 202	1 \$(000) lı	ncurred Co	sts				
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	678	678	678	0	0	0	678	678	678
Non-Labor	Base YR Rec	12	12	12	0	0	0	12	12	12
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	690	690	690	0	0	0	690	690	690
FTE	Base YR Rec	7.2	7.2	7.2	0.0	0.0	0.0	7.2	7.2	7.2

	<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type	
- 1								

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 3. TRAINING - OFFICE

Workpaper: 2SI001.002 - Gas Operations Training & Development

Determination of Adjusted-Recorded (Incurred Costs):

beteriiiilation of Aujusteu-P	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	447	462	439	590	576
Non-Labor	40	26	21	31	16
NSE	0	0	0	0	0
Total	487	488	460	621	592
FTE	5.7	5.5	5.0	6.4	6.1
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-12	-3
NSE	0	0	0	0	0
Total	0	0	0	-12	-3
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	447	462	439	590	576
Non-Labor	40	26	21	19	12
NSE	0	0	0	0	0
Total	487	488	460	610	588
FTE	5.7	5.5	5.0	6.4	6.1
/acation & Sick (Nominal \$)					
Labor	76	80	83	104	102
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	76	80	83	104	102
FTE	1.0	1.0	1.0	1.2	1.1
scalation to 2021\$					
Labor	60	46	29	21	0
Non-Labor	5	2	2	1	0
NSE	0	0	0	0	0
Total	65	49	31	22	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2021\$)				
Labor	583	588	551	715	678
Non-Labor	45	28	23	21	12
NSE	0	0	0	0	0
Total	628	616	574	736	690
FTE	6.7	6.5	6.0	7.6	7.2

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 3. TRAINING - OFFICE

Workpaper: 2SI001.002 - Gas Operations Training & Development

Summary of Adjustments to Recorded:

		In Nominal	\$ (000) Incurred Co	ests		
	Years	2017	2018	2019	2020	2021
Labor		0	0	0	0	0
Non-Labor		0	0	0	-12	-3
NSE		0	0	0	0	0
	Total		0 -	0 -	-12	-3
FTE		0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE.	FTE	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-12	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2020 Total	0	-12	0	0.0		
2021	0	-3	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2021 Total	0	-3	0	0.0		

Beginning of Workpaper 2SI001.003 - Gas Operations Training & Development

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

Activity Description:

The activities completed within this workgroup are categorized as Gas Operations Training and Development. Gas Operations Training and Development creates future leaders through the delivery of effective/high-quality learning experiences to operations employees throughout SoCalGas. The continued safe construction, maintenance, integrity management, replacements and expansion of our pipeline system must be executed by approximately 2,500 Gas Transmission, Gas Distribution, and Storage employees located throughout SoCalGas's large and diverse service territory. Gas Operations Training and Development communicates and reinforces the SoCalGas safety culture and strives to instill a passion for success through interactions such as regular dialogue, periodic dialogue sessions with frontline supervisors and employees, participation in employee seminars, ongoing refresher training, and one-on-one employee meetings. Gas Operations Training and Development also consists of Field Technical Skills Training. The Operations Field Technical Skills Training team provides Gas Transmission, Gas Distribution and, Storage with training and services. These trainings and services are necessary for the Company to comply with applicable laws, regulations and standards and to help maintain the safety of the workforce and the public.

Units for this workpaper are the number of students (both employees and contractors) trained by Gas Operations Training Instructors. Units are as follows: 2021 - 4,633; 2022 - 6,200; 2023 - 8,308; 2024 - 9,969.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. New welding qualifications introduced recently are increasingly stringent, which has approximately doubled the workload for each training instructor. Labor adjustments were made to accommodate for additional training instructors in to support the introduction of new welding procedures and qualifications.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the new methane emission reduction requirements from R. 15-01-008, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Non-labor adjustments were made for the non-labor expenses associated with the hiring of additional employees, including rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

Summary of Results:

				ln 2021\$ (00	0) Incurred (Costs		
		Adju	sted-Recor	ded		Adj	justed-Fore	cast
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	795	836	990	1,163	890	991	1,091	1,091
Non-Labor	273	262	369	314	1,009	745	750	750
NSE	0	0	0	0	0	0	0	0
Total	1,068	1,098	1,359	1,477	1,899	1,736	1,841	1,841
FTE	7.6	7.6	8.8	10.7	8.0	9.0	10.0	10.0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Year	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	890	890	890	100	200	200	990	1,090	1,090
Non-Labor	Base YR Rec	1,009	1,009	1,009	-264	-259	-259	745	750	750
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	al	1,899	1,899	1,899	-164	-59	-59	1,735	1,840	1,840
FTE	Base YR Rec	8.0	8.0	8.0	1.0	2.0	2.0	9.0	10.0	10.0

Forecast Adjustment Details:

Forecast Aujus	unent Details.					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type
2022	0	-269	0	-269	0.0	1-Sided Adj
Explanation:	Removed one time incr facility.	emental fundin	g from 2021 t	o build out tra	nining program	at a secondary training
2022	100	5	0	105	1.0	1-Sided Adj
Explanation:	Welding procedures an which has approximate made for the 2 increme \$100,000/new employe	y doubled the v	workload for e	each training i	instructor. A la	bor adjustment was

2022: 1 * \$100k = \$100,000 2023: 2 * \$100k = \$200,000 2024: 2 * \$100k = \$200,000

Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022 and 1 in 2023. These costs average \$5K/year/incremental employee based on historical incurred costs.

2022: 1 * \$5k = \$5,000 2023: 2 * \$5k = \$10,000 2024: 2 * \$5k = \$10,000

2022 Total	100	-264	0	-164	1.0	
2023	200	10	0	210	2.0	1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Welding procedures and which has approximately made for the 2 increment \$100,000/new employee 2022: 1 * \$100k = \$100,000 = \$100k = \$200,000 = \$100k = \$200,000 = \$100k	doubled the watal employees in labor. 000 000 000 ch as computed 2023. These	rorkload for e planned to be	ach training in e hired in 2022 pment, and tra	structor. A la 2 and 2023, a aining, associ	bor adjustment was t an average of ated with 1 planned
2023	0	-269	0	-269	0.0	1-Sided Adj
Explanation:	Removed one time increfacility.	mental funding	from 2021 to	build out traii	ning program	at a secondary training
2023 Total	200	-259	0	-59	2.0	
2024	200	10	0	210	2.0	1-Sided Adj
Explanation:	Welding procedures and which has approximately made for the 2 incremen \$100,000/new employee 2022: 1 * \$100k = \$100,000 = \$200,000 =	doubled the watal employees in labor.	orkload for e	ach training in	structor. A la	bor adjustment was
	2024: 2 * \$100k = \$200,000 Non-labor expenses, such new hire in 2022 and 1 in historical incurred costs. 2022: 1 * \$5k = \$5,000 2023: 2 * \$5k = \$10,000 2024: 2 * \$5k = \$10,000	ch as compute n 2023. These	•	•	•	· · · · · · · · · · · · · · · · · · ·
2024	2024: 2 * \$100k = \$200,000 Non-labor expenses, such new hire in 2022 and 1 in historical incurred costs. 2022: 1 * \$5k = \$5,000 2023: 2 * \$5k = \$10,000	ch as compute n 2023. These	•	•	•	· · · · · · · · · · · · · · · · · · ·
2024 Explanation:	2024: 2 * \$100k = \$200,000 Non-labor expenses, such new hire in 2022 and 1 in historical incurred costs. 2022: 1 * \$5k = \$5,000 2023: 2 * \$5k = \$10,000 2024: 2 * \$5k = \$10,000	ch as computer n 2023. These -269	costs averag	e \$5K/year/ind	o.o	ployee based on 1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
ecorded (Nominal \$)*					
Labor	610	657	788	960	757
Non-Labor	242	240	344	297	1,013
NSE	0	0	0	0	0
Total	852	897	1,132	1,258	1,770
FTE	6.4	6.5	7.3	8.9	6.6
ljustments (Nominal \$) *	*				
Labor	0	0	0	0	0
Non-Labor	0	0	0	-6	-4
NSE	0	0	0	0	0
Total	0	0	0	-6	-4
FTE	0.0	0.0	0.0	0.0	0.0
corded-Adjusted (Nomin	nal \$)				
Labor	610	657	788	960	757
Non-Labor	242	240	344	292	1,009
NSE	0	0	0	0	0
Total	852	897	1,132	1,252	1,765
FTE	6.5	6.5	7.4	8.9	6.7
cation & Sick (Nominal S	\$)				
Labor	103	113	149	169	134
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	103	113	149	169	134
FTE	1.1	1.1	1.4	1.8	1.3
calation to 2021\$					
Labor	82	66	53	34	0
Non-Labor	30	22	25	22	0
NSE	0	0	0	0	0
Total	113	87	77	56	0
FTE	0.0	0.0	0.0	0.0	0.0
corded-Adjusted (Const	tant 2021\$)				
Labor	795	836	990	1,163	890
Non-Labor	273	262	369	314	1,009
NSE	0	0	0	0	0
Total	1,068	1,098	1,359	1,477	1,899
FTE	7.6	7.6	8.8	10.7	8.0

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. GAS OPERATIONS TRAINING & DEVELOPMENT

Category-Sub: 4. TRAINING - WELDING

Workpaper: 2SI001.003 - Gas Operations Training & Development

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs								
	Years	2017	2018	2019	2020	2021		
Labor		0	0	0	0	0		
Non-Labor		0	0	0	-6	-4		
NSE		0	0	0	0	0		
	Total		0	0	-6	-4		
FTE		0.0	0.0	0.0	0.0	0.0		

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	FTE	Adj Type		
2017 Total	0	0	0	0.0			
2018 Total	0	0	0	0.0			
2019 Total	0	0	0	0.0			
2020	0	-6	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).						
2020 Total	0	-6	0	0.0			
2021	0	-4	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).						
2021 Total	0	-4	0	0.0			

In 2021\$ (000) Incurred Costs

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Workpaper: VARIOUS

Summary for Category: B. ENTERPRISE ASSET MANAGEMENT

	Adjusted-Recorded	IN 2021\$ (000) INC	Adjusted-Forecast	
	2021	2022	2023	2024
Labor	424	861	1,111	1,311
Non-Labor	1,355	3,129	3,590	3,600
NSE	0	0	0	0
Total	1,779	3,990	4,701	4,911
FTE	4.1	8.5	11.0	13.0
Workpapers belonging			<u> </u>	
2SI002.000 Enterprise	e Asset Management			
Labor	167	167	167	167
Non-Labor	1	26	26	26
NSE	0	0	0	0
Total	168	193	193	193
FTE	1.4	1.4	1.4	1.4
2SI002.001 Enterprise	e Asset Management			
Labor	5	5	5	5
Non-Labor	98	518	968	968
NSE	0	0	0	0
Total	103	523	973	973
FTE	-0.1	-0.1	-0.1	-0.1
2SI002.002 Enterprise	e Asset Management			
Labor	51	101	351	551
Non-Labor	131	135	246	256
NSE	0	0	0	0
Total	182	236	597	807
FTE	0.5	1.0	3.5	5.5
2SI002.003 Enterprise	e Asset Management			
Labor	166	166	166	166
Non-Labor	1	1	1	1
NSE	0	0	0	0
Total	167	167	167	167
FTE	2.1	2.1	2.1	2.1
2SI002.004 Enterprise	e Asset Management			
Labor	35	422	422	422
Non-Labor	1,124	2,449	2,349	2,349
NSE	0	0	0	0
Total	1,159	2,871	2,771	2,771
FTE	0.2	4.1	4.1	4.1

Beginning of Workpaper 2SI002.000 - Enterprise Asset Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub 1. RECORDS MANAGEMENT

Workpaper: 2SI002.000 - Enterprise Asset Management

Activity Description:

These activities include Gas Standards Governance, which contributes to operating and maintenance procedures that help mitigate human error, while promoting consistently safe employee actions. These quality control procedures will support adherence to established standards and procedures for pipeline materials, equipment, and construction that will reside within the Records Management and Programs organization.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity is newly reorganized in 2021 and does not have a long expense history. The base year is representative of expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity is newly reorganized in 2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for an increased licensing fee expected for the new Document Library system.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

[In 2021\$ (000) Incurred Costs									
		Adjι	ısted-Recor		Ad	justed-Fore	cast				
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	156	229	219	208	167	167	167	167			
Non-Labor	19	83	29	7	1	26	26	26			
NSE	0	0	0	0	0	0	0	0			
Total	175	312	248	216	168	193	193	193			
FTE	1.3	1.9	1.8	1.5	1.4	1.4	1.4	1.4			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 1. RECORDS MANAGEMENT

Workpaper: 2SI002.000 - Enterprise Asset Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjusted-Forecast				
Years	s	2022	2022 2023 2024		2022	2023	2024	2022	2023	2024		
Labor	Base YR Rec	167	167	167	0	0	0	167	167	167		
Non-Labor	Base YR Rec	1	1	1	25	25	25	26	26	26		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Tota	ıl	168	168	168	25	25	25	193	193	193		
FTE	Base YR Rec	1.4	1.4	1.4	0.0	0.0	0.0	1.4	1.4	1.4		

Forecast Adjustment Details:								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type		
2022	0	25	0	25	0.0	1-Sided Adj		
Explanation:	Non-labor adjustment for 2024.	or increased lice	nsing fee ex	pected for new	/ Document L	ibrary system in 2022 -		
2022 Total	0	25	0	25	0.0			
2023	0	25	0	25	0.0	1-Sided Adj		
Explanation:	Non-labor adjustment for 2024.	or increased lice	nsing fee ex	pected for new	/ Document L	ibrary system in 2022 -		
2023 Total	0	25	0	25	0.0			
2024	0	25	0	25	0.0	1-Sided Adj		
Explanation:	Non-labor adjustment for 2024.	or increased lice	nsing fee ex	pected for new	/ Document L	ibrary system in 2022 -		
2024 Total	0	25	0	25	0.0			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 1. RECORDS MANAGEMENT

Workpaper: 2SI002.000 - Enterprise Asset Management

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-Ne	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	120	180	174	172	142
Non-Labor	17	76	28	9	3
NSE	0	0	0	0	0
Total	136	256	202	181	145
FTE	1.1	1.6	1.5	1.4	1.3
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-2	-2
NSE	0	0	0	0	0
Total	0	0	0	-3	-2
FTE	0.0	0.0	0.0	-0.1	0.0
Recorded-Adjusted (Nominal S	\$)				
Labor	120	180	174	172	142
Non-Labor	17	76	28	7	1
NSE	0	0	0	0	0
Total	136	256	202	179	143
FTE	1.1	1.6	1.5	1.3	1.2
/acation & Sick (Nominal \$)					
Labor	20	31	33	30	25
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	20	31	33	30	25
FTE	0.2	0.3	0.3	0.2	0.2
scalation to 2021\$					
Labor	16	18	12	6	0
Non-Labor	2	7	2	1	0
NSE	0	0	0	0 	0
Total	18	25	14		0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant	2021\$)				
Labor	156	229	219	208	167
Non-Labor	19	83	29	7	1
NSE	0	0	0	0	0
Total	175	312	248	216	168
FTE	1.3	1.9	1.8	1.5	1.4

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 1. RECORDS MANAGEMENT

Workpaper: 2SI002.000 - Enterprise Asset Management

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
Years 2017 2018 2019 2020 2021											
Labor		0	0	0	-0.025	0					
Non-Labor		0	0	0	-2	-2					
NSE		0	0	0	0	0					
	Total		0	0	-3	-2					
FTE		0.0	0.0	0.0	-0.1	0.0					

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adi Type					
<u>I Gai</u>	Labor	INEDI	NOL	<u> </u>	<u>Auj Type</u>					
2017 Total	0	0	0	0.0						
2018 Total	0	0	0	0.0						
2019 Total	0	0	0	0.0						
2020	0	-2	0	0.0	1-Sided Adj					
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).									
2020	0	0	0	-0.1	CCTR Transf To 2200-2011.002					
Explanation:	Transfer costs to GOSI CC	2200-2011.002 re	lated to SB13	71 (BLM) Er	missions Strategy Program					
2020 Total	0	-2	0	-0.1						
2021	0	-2	0	0.0	1-Sided Adj					
Explanation:	tion: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).									
2021 Total	0	-2	0	0.0						

Beginning of Workpaper 2SI002.001 - Enterprise Asset Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub 2. GAS OPERATIONS TECHNOLOGY
Workpaper: 2SI002.001 - Enterprise Asset Management

Activity Description:

The activities associated with Gas Operations Technology include labor and nonlabor expenses to support strategy development for a broad range of computer programs and systems that support Gas Operations. This organization partners with Gas Operations and Information Technology (IT) to identify opportunities to improve efficiency, performance, safety, and reliability through technology implementations.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers, as this cost center is newly formed in 2021 and does not have a long expense history. An additional non-labor adjustment was made for the licensing and hosting fees for an asset management software.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adjι	ısted-Recor	Ad	justed-Fore	cast					
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	0	0	0	0	5	5	5	5			
Non-Labor	0	0	0	475	98	518	968	968			
NSE	0	0	0	0	0	0	0	0			
Total	0	0	0	475	102	523	973	973			
FTE	0.0	0.0	0.0	0.0	-0.1	-0.1	-0.1	-0.1			

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 2. GAS OPERATIONS TECHNOLOGY
Workpaper: 2SI002.001 - Enterprise Asset Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecas	t Method	Base Forecast			Forec	Forecast Adjustments			Adjusted-Forecast			
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024		
Labor	Base YR Rec	5	5	5	0	0	0	5	5	5		
Non-Labor	Base YR Rec	98	98	98	420	870	870	518	968	968		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Tota	ıl	102	102	102	420	870	870	522	972	972		
FTE	Base YR Rec	-0.1	-0.1	-0.1	0.0	0.0	0.0	-0.1	-0.1	-0.1		

Forecast Adjustment Details:

i orodast Adjust	mont Dotano.						
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	0	20	0	20	0.0	1-Sided Adj	
Explanation:	Non-labor expenses, su center formed in 2021. Incurred costs. This cost 4 * \$5k = \$20,000	These costs a	verage \$5K/ye	ear/increment	al employee ba		

0

2022 Explanation:

Non-labor expense for a software license for an asset management software system. The expense will

400

0.0

1-Sided Adj

take place for 47% of 2022 and 100% of 2023 and 2024, at a full cost of \$850k/year.

2022: .47*\$850k = \$400,000

2023: \$850,000 2024: \$850,000

2022 Total	0	420	0	420	0.0	
2023	0	20	0	20	0.0	1-Sided Adj

Explanation:

Non-labor expenses, such as computers, office equipment, and training, associated with a new cost center formed in 2021. These costs average \$5K/year/incremental employee based on historical incurred costs. This cost center supports a team of 4 individuals.

4 * \$5k = \$20,000

2023

0 850 0 850 0.0 1-Sided Adj

Explanation: Non-labor expense for a software license for an asset management software system. The expense will take place for 47% of 2022 and 100% of 2023 and 2024, at a full cost of \$850k/year.

2022: .47*\$850k = \$400,000

400

2023: \$850,000 2024: \$850,000

2023 Total	0	870	0	870	0.0	
2024	0	20	0	20	0.0	1-Sided Adj

Explanation:

Non-labor expenses, such as computers, office equipment, and training, associated with a new cost center formed in 2021. These costs average \$5K/year/incremental employee based on historical incurred costs. This cost center supports a team of 4 individuals.

4 * \$5k = \$20,000

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 2. GAS OPERATIONS TECHNOLOGY
Workpaper: 2SI002.001 - Enterprise Asset Management

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type	
2024	0	850	0	850	0.0	1-Sided Adj	
		C ():	•				

Explanation: Non-labor expense for a software license for an asset management software system. The expense will

take place for 47% of 2022 and 100% of 2023 and 2024, at a full cost of \$850k/year.

2022: .47*\$850k = \$400,000

2023: \$850,000 2024: \$850,000

2024 Total 0 870 0 870 0.0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 2. GAS OPERATIONS TECHNOLOGY
Workpaper: 2SI002.001 - Enterprise Asset Management

Determination of Adjusted-Recorded (Incurred Costs):

•	20 1 7 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	2	6
Non-Labor	0	0	0	441	98
NSE	0	0	0	0	0
Total	0	0	0	443	105
FTE	0.0	0.0	0.0	0.0	0.1
djustments (Nominal \$) *	*				
Labor	0	0	0	-2	-3
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	-2	-3
FTE	0.0	0.0	0.0	-0.1	-0.1
Recorded-Adjusted (Nomir	nal \$)				
Labor	0	0	0	0	4
Non-Labor	0	0	0	441	98
NSE	0	0	0	0	0
Total	0	0	0	441	102
FTE	0.0	0.0	0.0	-0.1	-0.1
acation & Sick (Nominal \$	\$)				
Labor	0	0	0	0	1
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	1
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	34	0
NSE	0	0	0	0	0
Total	0	0	0	34	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Const	tant 2021\$)				
Labor	0	0	0	0	5
Non-Labor	0	0	0	475	98
NSE	0	0	0	0	0
Total	0	0	0	475	102
FTE	0.0	0.0	0.0	-0.1	-0.1

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 2. GAS OPERATIONS TECHNOLOGY
Workpaper: 2SI002.001 - Enterprise Asset Management

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs								
	Years	2017	2018	2019	2020	2021		
Labor		0	0	0	-2	-3		
Non-Labor		0	0	0	-0.100	-0.300		
NSE		0	0	0	0	0		
	Total		0	0	-2	-3		
FTE		0.0	0.0	0.0	-0.1	-0.1		

Detail of Adjustments to Recorded:

Year	Labo	r NLbr	NSE	FTE	Adj Type			
2017 Total	0	0	0	0.0				
2018 Total	0	0	0	0.0				
2019 Total	0	0	0	0.0				
2020	0	0	0	0.0	1-Sided Adj			
Explanation:	n: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2020	-2	0	0	-0.1	CCTR Transf To 2200-2011.002			
Explanation:	Transfer costs to GOSI CC	2200-2011.002 re	lated to SB13	371 (BLM) E	missions Strategy Program			
2020 Total	-2	0	0	-0.1				
2021	0	0	0	0.0	1-Sided Adj			
Explanation:	Incremental COVID-related Catastrophic Event Memor		•	requested f	or recovery through a non-GRC			
2021	-3	0	0	-0.1	1-Sided Adj			
Explanation:	Adjustment to remove non- recovered through a separa			71 Emission	s Strategy Program that are being			
2021 Total	-3	0	0	-0.1				

Beginning of Workpaper 2SI002.002 - Enterprise Asset Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Activity Description:

Enterprise Asset Management (EAM) at SoCalGas is integrated with our adoption of the International Standards Organization (ISO) 55000 standard as a guide and is a core component of our Safety Management Systems (SMS) program, aligned with the American Petroleum Institute (API) 1173 recommended practice for pipeline safety. The alignment with international, national, and industry standards promotes continued adherence to leading practices and continuous improvement across SoCalGas's asset and safety initiatives. By adopting the ISO 55000 as a guide, EAM will enable SoCalGas to proactively mitigate asset-related risks by managing asset health and lifecycles in a strategic, data-driven method.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made to accommodate for five incremental employees expected to be hired to build the Enterprise Asset Management organization.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity is began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers. An additional non-labor adjustment was made for the implementation of a software that allows for better asset management.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Summary of Results:

				In 2021\$ (00	0) Incurred C	osts		
		Adju	ısted-Recor	Ad	justed-Fore	cast		
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	0	0	0	32	51	101	351	551
Non-Labor	0	0	0	221	131	135	246	256
NSE	0	0	0	0	0	0	0	0
Total	0	0	0	252	182	236	597	807
FTE	0.0	0.0	0.0	0.2	0.5	1.0	3.5	5.5

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecast	t Method	Base Forecast		Forec	Forecast Adjustments			Adjusted-Forecast		
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	51	51	51	50	300	500	101	351	551
Non-Labor	Base YR Rec	131	131	131	4	115	125	135	246	256
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	182	182	182	54	415	625	236	597	807
FTE	Base YR Rec	0.5	0.5	0.5	0.5	3.0	5.0	1.0	3.5	5.5

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	50	4	0	54	0.5	1-Sided Adj	

Explanation:

RAMP Mitigation: Establish an Enterprise Asset Management Operating Model

A labor adjustment was made for the 1 incremental employee planned to be hired in mid-2022, 2 incremental employees planned to be hired in 2023, and 2 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will build out the capabilities of the new Enterprise Asset Management team. In 2022, the employee will start mid-year, so 50% of their expected salary is expected.

2022: .5 * 1 * \$100k = \$50,000 2023: 3 * \$100k = \$300,000 2024: 5 * \$100k = \$500,000

Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022, 2 planned new hires in 2023, and 2 planned new hires in 2024. These costs average \$5K/year/incremental employee based on historical incurred costs. In 2022, the employee will start mid-year, so 50% of their expense is expected.

2022: .5 * 1 * \$5k = \$2,500 2023: 3 * \$5k = \$15,000 2024: 5 * \$5k = \$25,000

Non-labor expense for a consultant to assist in the building and rollout of an asset management software system. Cost amount is based on the proposal provided by the consultant.

2022: .01 * \$100k = \$1,000 2023: 1* \$100k = \$100,000 2024: 1* \$100k = \$100,000

2022 Total	50	4	0	54	0.5	
2023	300	115	0	415	3.0	1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Year NLbr **NSE Total FTE** Adj_Type <u>Labor</u> RAMP Mitigation: Establish an Enterprise Asset Management Operating Model **Explanation:** A labor adjustment was made for the 1 incremental employee planned to be hired in mid-2022, 2 incremental employees planned to be hired in 2023, and 2 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will build out the capabilities of the new Enterprise Asset Management team. In 2022, the employee will start mid-year, so 50% of their expected salary is expected. 2022: .5 * 1 * \$100k = \$50,000 2023: 3 * \$100k = \$300,000 2024: 5 * \$100k = \$500,000 Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022, 2 planned new hires in 2023, and 2 planned new hires in 2024. These costs average \$5K/year/incremental employee based on historical incurred costs. In 2022, the employee will start mid-year, so 50% of their expense is expected.

> 2022: .5 * 1 * \$5k = \$2,500 2023: 3 * \$5k = \$15,000 2024: 5 * \$5k = \$25,000

Non-labor expense for a consultant to assist in the building and rollout of an asset management software system. Cost amount is based on the proposal provided by the consultant.

2022: .01 * \$100k = \$1,000 2023: 1* \$100k = \$100,000 2024: 1* \$100k = \$100,000

2023 Total	300	115	0	415	3.0	
2024	500	125	0	625	5.0	1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Year NLbr **NSE Total FTE** Adj_Type <u>Labor</u> RAMP Mitigation: Establish an Enterprise Asset Management Operating Model **Explanation:** A labor adjustment was made for the 1 incremental employee planned to be hired in mid-2022, 2 incremental employees planned to be hired in 2023, and 2 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will build out the capabilities of the new Enterprise Asset Management team. In 2022, the employee will start mid-year, so 50% of their expected salary is expected. 2022: .5 * 1 * \$100k = \$50,000 2023: 3 * \$100k = \$300,000 2024: 5 * \$100k = \$500,000 Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned new hire in 2022, 2 planned new hires in 2023, and 2 planned new hires in 2024. These costs average \$5K/year/incremental employee based on historical incurred costs. In 2022, the employee will start mid-year, so 50% of their expense is expected. 2022: .5 * 1 * \$5k = \$2,500 2023: 3 * \$5k = \$15,000 2024: 5 * \$5k = \$25,000 Non-labor expense for a consultant to assist in the building and rollout of an asset management software system. Cost amount is based on the proposal provided by the consultant. 2022: .01 * \$100k = \$1,000 2023: 1* \$100k = \$100,000 2024: 1* \$100k = \$100,000 2024 Total 500 125 625 5.0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	26	43
Non-Labor	0	0	0	184	132
NSE	0	0	0	0	0
Total	0	0	0	210	175
FTE	0.0	0.0	0.0	0.2	0.4
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	21	-1
NSE	0	0	0	0	0
Total	0	0	0	21	-1
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomin	al \$)				
Labor	0	0	0	26	43
Non-Labor	0	0	0	205	131
NSE	0	0	0	0	0
Total	0	0	0	231	174
FTE	0.0	0.0	0.0	0.2	0.4
/acation & Sick (Nominal \$	5)				
Labor	0	0	0	5	8
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	5	8
FTE	0.0	0.0	0.0	0.0	0.1
Escalation to 2021\$					
Labor	0	0	0	1	0
Non-Labor	0	0	0	16	0
NSE	0	0	0	0	0
Total	0	0	0	17	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	ant 2021\$)				
Labor	0	0	0	32	51
Non-Labor	0	0	0	221	131
NSE	0	0	0	0	0
Total	0	0	0	252	182
FTE	0.0	0.0	0.0	0.2	0.5

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs								
	Years	2017	2018	2019	2020	2021			
Labor		0	0	0	0	0			
Non-Labor		0	0	0	21	-0.550			
NSE		0	0	0	0	0			
	Total		0 -		21	-0.550			
FTE		0.0	0.0	0.0	0.0	0.0			

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adi Type
					<u> </u>
2017 Total	0	0	0	0.0	
2018 Total	0	0	0	0.0	
2019 Total	0	0	0	0.0	
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested t	for recovery through a non-GRC
2020	0	22	0	0.0	CCTR Transf From 2200-2595.000
Explanation:	Consultant costs for the denot a SIMP funded activity.	velopment of EAM	1 strategy that	were charg	ed to Integrity Management. EAM is
2020 Total	0	21	0	0.0	
2021	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested t	for recovery through a non-GRC
2021 Total	0	-1	0	0.0	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT
Category-Sub: 3. ENTERPRISE ASSET MANAGEMENT
Workpaper: 2SI002.002 - Enterprise Asset Management

RAMP Item #1

RAMP Activity

RAMP Chapter: SCG-CFF-1 Asset and Records Management

RAMP Line Item ID: 7

RAMP Line Item Name: Asset and Records Management

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical	2022	2023	2024	2024 RAMP Range (2020 Incurred \$) Low High	
	Embedded Cost (2021 \$)	Forecast (2021 \$)	Forecast (2021 \$)	Forecast (2021 \$)		
	(2021 φ)	(2021 ψ)	(2021 φ)	(2021 ψ)	LOW	riigii
Tranche 1 Cost Estimate	182	236	597	807	1,890	2,730

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

An RSE was not calculated for this activity. General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2)

Beginning of Workpaper 2SI002.003 - Enterprise Asset Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub 4. INTEGRITY MANAGEMENT TECHNOLOGY SYSTEMS

Workpaper: 2SI002.003 - Enterprise Asset Management

Activity Description:

Gas System Staff & Technology sponsors the non-refundable costs for Integrity Management Technology Systems. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09).

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

Gas System Staff & Technology sponsors the non-refundable costs for Integrity Management Technology Systems. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09).

Non-Labor - Base YR Rec

Gas System Staff & Technology sponsors the non-refundable costs for Integrity Management Technology Systems. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09).

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

	In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor	Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	0	0	0	172	166	166	166	166			
Non-Labor	0	0	208	0	1	1	1	1			
NSE	0	0	0	0	0	0	0	0			
Total		0	208	173	167	167	167	167			
FTE	0.0	0.0	0.0	2.3	2.1	2.1	2.1	2.1			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 4. INTEGRITY MANAGEMENT TECHNOLOGY SYSTEMS

Workpaper: 2SI002.003 - Enterprise Asset Management

Summary of Adjustments to Forecast:

In 2021 \$(000) Incurred Costs											
Forecast	t Method	Base Forecast			Forecast Adjustments			Adjusted-Forecast			
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	166	166	166	0	0	0	166	166	166	
Non-Labor	Base YR Rec	1	1	1	0	0	0	1	1	1	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	167	167	167	0		0	167	167	167	
FTE	Base YR Rec	2.1	2.1	2.1	0.0	0.0	0.0	2.1	2.1	2.1	

<u>Year Labor NLbr NSE Total FTE Adi Type</u>	NSE Total <u>FTE</u> <u>Adj Type</u>	NLbr NS	<u>Labor</u> <u>Ni</u>	<u>Year</u>
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Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 4. INTEGRITY MANAGEMENT TECHNOLOGY SYSTEMS

Workpaper: 2SI002.003 - Enterprise Asset Management

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	142	141
Non-Labor	0	0	194	4	4
NSE	0	0	0	0	0
Total	0	0	194	146	145
FTE	0.0	0.0	0.0	1.9	1.8
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-3	-3
NSE	0	0	0	0	0
Total	0	0	0	-3	-3
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomin	al \$)				
Labor	0	0	0	142	141
Non-Labor	0	0	194	0	1
NSE	0	0	0	0	0
Total	0	0	194	143	142
FTE	0.0	0.0	0.0	1.9	1.8
acation & Sick (Nominal \$	5)				
Labor	0	0	0	25	25
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	25	25
FTE	0.0	0.0	0.0	0.4	0.3
scalation to 2021\$					
Labor	0	0	0	5	0
Non-Labor	0	0	14	0	0
NSE	0	0	0	0	0
Total	0	0	14	5	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	ant 2021\$)				
Labor	0	0	0	172	166
Non-Labor	0	0	208	0	1
NSE	0	0	0	0	0
Total	0	0	208	173	167
FTE	0.0	0.0	0.0	2.3	2.1

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 4. INTEGRITY MANAGEMENT TECHNOLOGY SYSTEMS

Workpaper: 2SI002.003 - Enterprise Asset Management

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs											
	Years	Years 2017 2018 2019 2020 2021										
Labor		0	0	0	0	0						
Non-Labor		0	0	0	-3	-3						
NSE		0	0	0	0	0						
	Total		0 -		-3	-3						
FTE		0.0	0.0	0.0	0.0	0.0						

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	FTE	Adj Type			
2017 Total	0	0	0	0.0				
2018 Total	0	0	0	0.0				
2019 Total	0	0	0	0.0				
2020	0	-3	0	0.0	1-Sided Adj			
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2020 Total	0	-3	0	0.0				
2021	0	-3	0	0.0	1-Sided Adj			
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2021 Total	0	-3	0	0.0				

Beginning of Workpaper 2SI002.004 - Enterprise Asset Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Activity Description:

Cost Center: 2200-2603 (IM PROGRAM CONTROLS)

The activities associated with Gas Operations Integrity Management Program Controls support the data management and data system administration for Underground Storage Operations.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Cost Center: 2200-0974 (OPS DATA STRATEGY)

The activities associated with Operations Data Strategy provide operational oversight for records management processes in specific operational areas and provide dedicated full-time records management over the daily tasks and activities performed. In essence, records management specialists representing each functional area in Gas Operations serve as the 'eyes and ears' of the centralized operational records management organization and are a bridge to provide real-time feedback on continual improvement of SoCalGas's records-related programs.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, consultants, software license fees, supplies, training, etc. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

Cost Center: 2200-2603 (IM PROGRAM CONTROLS)

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity reorganized in 2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made to accommodate for the salaries of employees that will be transitioning from refundable programs to supporting base business programs.

Cost Center: 2200-0974 (OPS DATA STRATEGY)

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year, including the salaries of employees transitioning from supporting capital projects to O&M.

Non-Labor - Base YR Rec

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Cost Center: 2200-2603 (IM PROGRAM CONTROLS)

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity reorganized in 2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers. An additional non-labor adjustment was made for the software licensing fees for Wellview/Rigview due to a recent capitalization policy change.

Cost Center: 2200-0974 (OPS DATA STRATEGY)

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers. Additional non-labor adjustments were made for a planned cost shift capital to O&M due to a capitalization policy change and for a consultant for data foundation, a new effort to expand data lake capabilities for accurate recordkeeping.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

	In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor	Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	301	339	20	52	35	422	422	422			
Non-Labor	28	29	-37	0	1,124	2,449	2,349	2,349			
NSE	0	0	0	0	0	0	0	0			
Total	330	368	-17	52	1,158	2,871	2,771	2,771			
FTE	2.8	3.1	2.3	0.6	0.2	4.1	4.1	4.1			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecast	t Method	Bas	se Foreca	st	Forecast Adjustments			Adjusted-Forecast				
Years	5	2022	2022 2023 2024		2022	2023	2024	2022	2023	2024		
Labor	Base YR Rec	35	35	35	387	387	387	422	422	422		
Non-Labor	Base YR Rec	1,124	1,124	1,124	1,325	1,225	1,225	2,449	2,349	2,349		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Tota	Total 1,158 1,158 1,158		1,712	1,612	1,612	2,870	2,770	2,770				
FTE	Base YR Rec	0.2	0.2	0.2	3.9	3.9	3.9	4.1	4.1	4.1		

			0.2	٠.ــ ا		0.0		
orecast Adjus	tment Details:							
<u>Year</u>	Labo	<u>r</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	14	0	0	0	140	1.4	1-Sided Adj	
explanation:	to O&M, at an a	everage of the time to O8	\$100,000/ne kM, based or	w employee	in labor. The	ese employees w	om refundable programs will charge an average of capital, and O&M.	
2022		0	20	0	20	0.0	1-Sided Adj	
explanation:	that went throug	gh an orgai d on histor	nization cha	nge in 2021.	These costs	training, associa average \$5K/ye upports a team c		
2022		0	300	0	300	0.0	1-Sided Adj	
explanation:	•	6% of 2022 k = \$301,0	2 and 100%		_	anagement syst II cost of \$350k/	em. The expense will year.	
2022	24	7	0	0	247	2.5	1-Sided Adj	
xplanation:	to O&M, at an a	overage of time to O8	\$100,000/ne kM, based or	w employee	in labor. The		om refundable programs vill charge an average of nd O&M.	
2022		0	1,000	0	1,000	0.0	1-Sided Adj	
xplanation:	Non-labor expe transitioning fro		•	•		•	tware licensing costs	
2022		0	5	0	5	0.0	1-Sided Adj	
xplanation:	•	leave in 20 ed costs.	-	-	-	training, association	ated with an employee oyee based on	

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Workpaper:	2SI002.004 - Enter	orise Asset Ma	nagement			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE	Adj_Type
2022 Total	387	1,325	0	1,712	3.9	
2023	140	0	0	140	1.4	1-Sided Adj
Explanation:	-	of \$100,000/ne D&M, based o	ew employee i	n labor. These	e employees w	om refundable programs vill charge an average of capital, and O&M.
2023	0	20	0	20	0.0	1-Sided Adj
Explanation:	Non-labor expenses, su that went through an org employee based on hist 4 * \$5k = \$20,000	ganization cha	nge in 2021. 1	hese costs a	verage \$5K/ye	ar/incremental
2023	0	350	0	350	0.0	1-Sided Adj
Explanation:	Non-labor expense for a take place for 86% of 20 2022: .86*\$350k = \$301 2023: \$350,000 2024: \$350,000)22 and 100%		•	•	•
2023	247	0	0	247	2.5	1-Sided Adj
Explanation:	-	of \$100,000/ne D&M, based o	ew employee i	n labor. These	e employees w	om refundable programs vill charge an average of nd O&M.
2023	0	750	0	750	0.0	1-Sided Adj
Explanation:	Non-labor expenses for transitioning from capital	-	_		~	tware licensing costs
2023	0	5	0	5	0.0	1-Sided Adj
Explanation:	Non-labor expenses, su that was out on leave in historical incurred costs 1 * \$5k = \$5,000	2021. These	-	-	-	
2023	0	100	0	100	0.0	1-Sided Adj
Explanation:	Non-labor expense for a effort to expand data lab proposal provided by the	ce capabilities		-		
2023 Total	387	1,225	0	1,612	3.9	
2024	140	0	0	140	1.4	1-Sided Adj
Explanation:	A labor adjustment was	made for 3 en	nployees trans	sitioning a por	tion of work fro	om refundable programs

Note: Totals may include rounding differences.

.4667* 3 * \$100k = \$140,000

to O&M, at an average of \$100,000/new employee in labor. These employees will charge an average of 46.67% of their time to O&M, based on the workload split between refundable, capital, and O&M.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Workpaper.	201002.001	Zintorphoo 7 tooot	Managomont					
<u>Year</u>	Labor	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
2024	0	20	0	20	0.0	1-Sided Adj		
Explanation:	Non-labor expens that went through employee based of 4 * \$5k = \$20,000	an organization on historical incur	change in 202	1. These costs a	average \$5K/ye			
2024	0	350	0	350	0.0	1-Sided Adj		
Explanation:	Non-labor expens take place for 86% 2022: .86*\$350k = 2023: \$350,000 2024: \$350,000	of 2022 and 100		-	-	em. The expense will year.		
2024	247	0	0	247	2.5	1-Sided Adj		
Explanation:	A labor adjustment was made for 4 employees transitioning a portion of work from refundable programs to O&M, at an average of \$100,000/new employee in labor. These employees will charge an average of 61.75% of their time to O&M, based on the workload split between refundable and O&M. .6175* 4 * \$100k = \$247,000							
2024	0	750	0	750	0.0	1-Sided Adj		
Explanation:	Non-labor expens transitioning from				-	tware licensing costs		
2024	0	5	0	5	0.0	1-Sided Adj		
Explanation:	Non-labor expens that was out on le historical incurred 1 * \$5k = \$5,000	ave in 2021. The		• •	•	ated with an employee oyee based on		
2024	0	100	0	100	0.0	1-Sided Adj		
Explanation:	Non-labor expens effort to expand da proposal provided	ata lake capabiliti	es for accurat	•		ndation system, a new is based on the		
2024 Total	387	1,225	0	1,612	3.9			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-N	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	231	266	16	43	30
Non-Labor	25	27	-35	7	1,126
NSE	0	0	0	0	0
Total	256	293	-19	50	1,156
FTE	2.4	2.6	1.9	0.5	0.2
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-7	-3
NSE	0	0	0	0	0
Total	0	0	0	-7	-3
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	231	266	16	43	30
Non-Labor	25	27	-35	0	1,124
NSE	0	0	0	0	0
Total	256	293	-19	43	1,153
FTE	2.4	2.6	1.9	0.5	0.2
/acation & Sick (Nominal \$)					
Labor	39	46	3	8	5
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	39	46	3	8	5
FTE	0.4	0.5	0.4	0.1	0.0
scalation to 2021\$					
Labor	31	27	1	2	0
Non-Labor	3	2	-3	0	0
NSE	0	0	0	0 2	0
Total	34	29	-1	2	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant	t 2021\$)				
Labor	301	339	20	52	35
Non-Labor	28	29	-37	0	1,124
NSE	0	0	0	0	0
Total	330	368	-17	52	1,158
FTE	2.8	3.1	2.3	0.6	0.2

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. ENTERPRISE ASSET MANAGEMENT

Category-Sub: 5. IM PROGRAM CONTROLS & OPS DATA STRATEGY

Workpaper: 2SI002.004 - Enterprise Asset Management

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs							
	Years	2017	2018	2019	2020	2021	
Labor		0	0	0	0	0	
Non-Labor		0	0	0	-7	-3	
NSE		0	0	0	0	0	
	Total	0	0	0 -	-7	-3	
FTE		0.0	0.0	0.0	0.0	0.0	

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	FTE	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-7	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2020 Total	0	-7	0	0.0		
2021	0	-2	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2021	0	0	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).					
2021 Total	0	-3	0	0.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: **B. ENTERPRISE ASSET MANAGEMENT**

5. IM PROGRAM CONTROLS & OPS DATA STRATEGY Category-Sub:

Workpaper: 2SI002.004 - Enterprise Asset Management

RAMP Item #1

RAMP Activity

RAMP Chapter: SCG-CFF-1 Asset and Records Management

RAMP Line Item ID: 2

RAMP Line Item Name: Operational Compliance and Oversight

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	239	239	239	239	215	275

Cost Estimate Changes from RAMP:

GRC forecast is within the RAMP range

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

An RSE was not calculated for this activity. General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2)

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Workpaper: 2SI003.000

Summary for Category: C. DAMAGE PREVENTION

	In 2021\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2021	2022	2023	2024			
Labor	0	0	0	0			
Non-Labor	1,612	675	675	675			
NSE	0	0	0	0			
Total	1,612	675	675	675			
FTE	0.0	0.0	0.0	0.0			

Workpapers belonging to this Category:

2SI003.000 Damage Prevention

Labor	0	0	0	0
Non-Labor	1,612	675	675	675
NSE	0	0	0	0
Total	1,612	675	675	675
FTE	0.0	0.0	0.0	0.0

Beginning of Workpaper 2SI003.000 - Damage Prevention

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION
Category-Sub 1. SCG PUBLIC AWARENESS
Workpaper: 2SI003.000 - Damage Prevention

Activity Description:

SoCalGas has developed and implemented a federally-mandated Public Awareness program, as prescribed in 49 CFR 192.616. The Public Awareness program contributes to enhancing public safety by providing certain risk mitigation measures. In adopting these Public Awareness program requirements, the Pipeline and Hazardous Materials Safety Administration (PHMSA) determined that "effective public awareness programs are vital to continued safe pipeline Operations" and that "such programs are an important factor in establishing communications with affected stakeholders, providing information necessary to enhance public awareness of pipelines, and communicating stakeholder roles relative to pipeline safety." The federal regulations directing the implementation of this program specifically require that the program include activities to educate the public, appropriate government organizations, and persons engaged in excavation-related activities regarding: (1) use of the one-call notification system prior to excavation and other damage prevention activities; (2) possible hazards associated with unintended releases from a gas pipeline facility; (3) physical indications that such a release may have occurred; (4) steps that should be taken for public safety in the event of a gas pipeline release; and (5) procedures for reporting such an event.

Units for this workpaper are the number of USA tickets at SoCalGas (both Distribution & Transmission). Units are as follows: 2021 - 1,043,299; 2022 - 1,126,763; 2023 - 1,216,904; 2024 - 1,314,256.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity has changed in recent years due to new regulatory requirements, such as the mandates from 49 C.F.R. § 192.616, and the resulting new activities, such as additional outreach and promotion of messaging for the new public awareness program, to satisfy regulatory requirement. The base year is representative of our expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity has changed in recent years due to new regulatory requirements, such as the mandates from 49 C.F.R. § 192.616, and the resulting new activities, such as additional outreach and promotion of messaging for the new public awareness program, to satisfy regulatory requirement. The base year is representative of our expectations for TY 2024. A non-labor adjustment was made to Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub

1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adju	sted-Recor	ded		Adjusted-Forecast				
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	0	0	0	0	0	0	0	0		
Non-Labor	840	476	529	717	1,612	675	675	675		
NSE	0	0	0	0	0	0	0	0		
Total	840	476	529	717	1,612	675	675	675		
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecast	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	S	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	0	0	0	0	0	0	0	0	0
Non-Labor	Base YR Rec	1,612	1,612	1,612	-937	-937	-937	675	675	675
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	1,612	1,612	1,612	-937	-937	-937	675	675	675
FTE	Base YR Rec	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Forecast Adjustment Details:

grow and expand the Public Awareness Program. 2022 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2022 Total 0 -937 0 -937 0.0 2023 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program.	Forecast Adjustr	nent Details:								
Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2022 0 500 0 500 0.0 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2022 Total 0 -937 0 -937 0.0 2023 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	<u>Year</u>	<u>Labor</u>	NLbr	NSE	Total	FTE	Adj Type			
grow and expand the Public Awareness Program. 2022 0 500 0 500 0 .0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2022 Total 0 -937 0 -937 0.0 2023 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability Goals 5 additional media/awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2022	0	-1,437	0	-1,437	0.0	1-Sided Adj			
Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2022 Total	Explanation:		•		ise outreach,	advertising, and	d media campaigns to			
Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2022 Total	2022	0	500	0	500	0.0	1-Sided Adj			
2023 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	Explanation:	Program for sustainabil	ity goals			·	Public Awareness			
Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2022 Total	0	-937	0	-937	0.0				
grow and expand the Public Awareness Program. 2023 0 500 0 500 0.0 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2023	0	-1,437	0	-1,437	0.0	1-Sided Adj			
Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	Explanation:									
Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000 2023 Total 0 -937 0 -937 0.0 2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2023	0	500	0	500	0.0	1-Sided Adj			
2024 0 -1,437 0 -1,437 0.0 1-Sided Adj Explanation: Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	Explanation:	Program for sustainability goals								
Remove one time funding from 2021 used to increase outreach, advertising, and media campaigns to grow and expand the Public Awareness Program. 2024 0 500 0 500 1-Sided Adj Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2023 Total	0	-937	0	-937	0.0				
grow and expand the Public Awareness Program. 2024 0 500 0 500 0.0 1-Sided Adj Explanation: Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2024	0	-1,437	0	-1,437	0.0	1-Sided Adj			
Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	Explanation:		•		se outreach,	advertising, and	d media campaigns to			
Program for sustainability goals 5 additional media/awareness campaigns * \$100k/campaign = \$500,000	2024	0	500	0	500	0.0	1-Sided Adj			
2024 Total 0 -937 0.0	Explanation:	Increase outreach, advertising, and media campaigns to grow and expand our Public Awareness Program for sustainability goals								
	2024 Total	0	-937	0	-937	0.0				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	746	437	493	666	1,612
NSE	0	0	0	0	0
Total	746	437	493	666	1,612
FTE	0.0	0.0	0.0	0.0	0.0
djustments (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
ecorded-Adjusted (Nominal	\$)				
Labor	0	0	0	0	0
Non-Labor	746	437	493	666	1,612
NSE	0	0	0	0	0
Total	746	437	493	666	1,612
FTE	0.0	0.0	0.0	0.0	0.0
acation & Sick (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
scalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	94	40	36	51	0
NSE	0	0	0	0	0
Total	94	40	36	51	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Constant	2021\$)				
Labor	0	0	0	0	0
Non-Labor	840	476	529	717	1,612
NSE	0	0	0	0	0
Total	840	476	529	717	1,612
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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs									
Years 2017 2018 2019 2020									
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			

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C15-T1 thru T4

RAMP Line Item Name: Public Awareness (MP) (T1 - T4)

Tranche(/s): Tranche1: The Affected Public (MP); Tranche2: Emergency Officials (MP); Tranche3: Local Public

Officials (MP); Tranche4: Excavators (MP)

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	275	275	275	275	785	951
Tranche 2 Cost Estimate	2	2	2	2	13	16
Tranche 3 Cost Estimate	1	1	1	1	20	25
Tranche 4 Cost Estimate	268	268	268	268	228	276

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast		RAMP Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of communications sent	5,289,009.00	5,612,307.00	5,780,676.00	5,954,097.00	5,656,392.00	5,847,211.00
Tranche 2 # of communications sent	1,829.00	1,831.00	1,886.00	1,942.00	1,845.00	2,234.00
Tranche 3 # of communications sent	11,162.00	2,328.00	2,398.00	2,470.00	2,223.00	2,840.00
Tranche 4 # of communications sent	295,448.00	256,503.00	264,198.00	272,124.00	258,518.00	312,943.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Risk Spend Efficiency (RSE)			
	GRC RSE	RAMP RSE	
Tranche 1	25.000	25.000	
Trancho 2	25,000	14 000	

Tranche 2 25.000 14.000
Tranche 3 25.000 63.000

Tranche 4 25.000 52.000

RSE Changes from RAMP:

General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2). The GRC RSE was calculated using all four Public Awareness MP tranches combined

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C16-T1 thru T4

RAMP Line Item Name: Public Awareness (HP) (T1 - T4)

Tranche(/s): Tranche1: The Affected Public (HP); Tranche2: Emergency Officials (HP); Tranche3: Local Public

Officials (HP); Tranche4: Excavators (HP)

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	65	65	65	65	188	227
Tranche 2 Cost Estimate	0	0	0	0	3	4
Tranche 3 Cost Estimate	0	0	0	0	5	6
Tranche 4 Cost Estimate	64	64	64	64	54	66

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast		RAMP Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of communications sent	1,262,991.00	1,340,193.00	1,380,399.00	1,421,811.00	1,350,720.00	1,635,082.00
Tranche 2 # of communications sent	436.00	437.00	450.00	464.00	417.00	533.00
Tranche 3 # of communications sent	2,666.00	556.00	573.00	590.00	531.00	678.00
Tranche 4 # of communications sent	70,552.00	61,252.00	63,089.00	64,982.00	61,733.00	74,729.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. DAMAGE PREVENTION

Category-Sub: 1. SCG PUBLIC AWARENESS

Workpaper: 2SI003.000 - Damage Prevention

Risk Spend Efficiency (RSE)			
	GRC RSE	RAMP RSE	
Tranche 1	115.000	34.000	
Tranche 2	115.000	22.000	
Tranche 3	115.000	97.000	

78.000

RSE Changes from RAMP:

Tranche 4

General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2). The GRC RSE was calculated using all four Public Awareness MP tranches combined

115.000

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT

Workpaper: 2SI005.000

Summary for Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT

	In 2021\$ (000) Incurred Costs							
	Adjusted-Recorded		Adjusted-Forecast					
	2021	2022	2023	2024				
Labor	76	100	500	900				
Non-Labor	593	460	300	188				
NSE	0	0	0	0				
Total	669	560	800	1,088				
FTE	0.5	1.0	5.0	9.0				

Workpapers belonging to this Category:

2SI005.000 High Pressure Project Record Closeout

Labor	76	100	500	900
Non-Labor	593	460	300	188
NSE	0	0	0	0
Total	669	560	800	1,088
FTE	0.5	1.0	5.0	9.0

Beginning of Workpaper 2SI005.000 - High Pressure Project Record Closeout

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Category-Sub 1. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Workpaper: 2SI005.000 - High Pressure Project Record Closeout

Activity Description:

High Pressure Project Record Closeout program will support the development of process flows, clarify procedures, enhance training modules, and job aids, and develop metrics to track and monitor high pressure projects. This will support the Company's goals for employees, public, and pipeline safety and compliance with 49 CFR Part 192 and Company Gas Standards.

Units for this workpaper are the number of projects posted to GIS & HPPD. Units are as follows: 2021 - 1,100; 2022 - 1,402; 2023 - 1,704; 2024 - 2,006.

Forecast Explanations:

Labor - Zero-Based

The zero-based methodology was selected for this workpaper. This activity is new and there is no cost history. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Labor adjustments were made to accommodate for the increase in labor dollars as the team grows from one to multiple employees. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 - Supplemental Workpaper.

Non-Labor - Zero-Based

The zero-based methodology was selected for this workpaper. This activity is new and there is no cost history. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Non-labor adjustments were made to accommodate for the increase in non-labor dollars as the program grows, including employee development and training, office equipment, materials, software fees, and contractors. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 - Supplemental Workpaper.

NSE - Zero-Based

NSE is not applicable to this workgroup.

Summary of Results:

	In 2021\$ (000) Incurred Costs								
		Adju	ısted-Recor	ded		Ad	Adjusted-Forecast		
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	0	0	0	0	76	100	500	900	
Non-Labor	0	0	0	0	593	460	300	188	
NSE	0	0	0	0	0	0	0	0	
Total	0	0	0	0	669	560	800	1,088	
FTE	0.0	0.0	0.0	0.0	0.5	1.0	5.0	9.0	

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

GAS SYSTEM STAFF & TECHNOLOGY Area:

Witness: Wallace E. Rawls

D. HIGH PRESSURE PROJECT RECORD CLOSEOUT Category: 1. HIGH PRESSURE PROJECT RECORD CLOSEOUT Category-Sub: 2SI005.000 - High Pressure Project Record Closeout Workpaper:

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecast	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjusted-Forecast		
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Zero-Based	0	0	0	100	500	900	100	500	900
Non-Labor	Zero-Based	0	0	0	460	300	188	460	300	188
NSE	Zero-Based	0	0	0	0	0	0	0	0	0
Tota	I	0	0	0	560	800	1,088	560	800	1,088
FTE	Zero-Based	0.0	0.0	0.0	1.0	5.0	9.0	1.0	5.0	9.0

Forecast Adjustment Details:								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type		
2022	100	0	0	100	1.0	1-Sided Adj		
Explanation:	Internal employees to build the High Pressure Project Record Closeout Program by developing policies, Gas Standards, process flows, training materials, job aids, online training modules, KPIs, and technology enhancements. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 - Supplemental Workpaper.							
2022	0	460	0	460	0.0	1-Sided Adj		
Explanation:	Contractor resources to help with building out the High Pressure Project Record Closeout Program, which will support developing Best Practices, Gas Standards, training material, and metrics, and other non-labor expenses, such as laptops, software, training and development, and membership and license fees. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 - Supplemental Workpaper.							
2022 Total	100	460	0	560	1.0			
2023	0	300	0	300	0.0	1-Sided Adj		
Explanation:	Contractor resources to help with building out the High Pressure Project Record Closeout Program, which will support developing Best Practices, Gas Standards, training material, and metrics, and other non-labor expenses, such as laptons, software, training and development, and membership and							

non-labor expenses, such as laptops, software, training and development, and membership and license fees. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 - Supplemental Workpaper.

2023

500

Internal employees to build the High Pressure Project Record Closeout Program by developing

Explanation:

policies, Gas Standards, process flows, training materials, job aids, online training modules, KPIs, and technology enhancements. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 -Supplemental Workpaper.

500

5.0

1-Sided Adj

2023 Total	500	300	0	800	5.0		
2024	900	0	0	900	9.0	1-Sided Adj	

Explanation:

Internal employees to build the High Pressure Project Record Closeout Program by developing policies, Gas Standards, process flows, training materials, job aids, online training modules, KPIs, and technology enhancements. For more details, refer to Ex. SCG-05 - Wallace Rawls - 2SI005.000 -Supplemental Workpaper.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Category-Sub: 1. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Workpaper: 2SI005.000 - High Pressure Project Record Closeout

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
2024	0	188	0	188	0.0	1-Sided Adj
Explanation:	Contractor resources to which will support develors non-labor expenses, su license fees. For more of Workpaper.	oping Best Pra ch as laptops,	actices, Gas s software, trai	Standards, trai ning and deve	ning material, a lopment, and r	and metrics, and other membership and
2024 Total	900	188	0	1,088	9.0	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Category-Sub: 1. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Workpaper: 2SI005.000 - High Pressure Project Record Closeout

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Adjusted-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	65
Non-Labor	0	0	0	0	593
NSE	0	0	0	0	0
Total	0	0	0	0	658
FTE	0.0	0.0	0.0	0.0	0.4
Adjustments (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
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	0	65
Non-Labor	0	0	0	0	593
NSE	0	0	0	0	0
Total	0	0	0	0	657
FTE	0.0	0.0	0.0	0.0	0.4
acation & Sick (Nominal \$)					
Labor	0	0	0	0	11
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	11
FTE	0.0	0.0	0.0	0.0	0.1
scalation to 2021\$					
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 (Consta	nt 2021\$)				
Labor	0	0	0	0	76
Non-Labor	0	0	0	0	593
NSE	0	0	0	0	0
Total	0	0	0		669
FTE	0.0	0.0	0.0	0.0	0.5

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Category-Sub: 1. HIGH PRESSURE PROJECT RECORD CLOSEOUT
Workpaper: 2SI005.000 - High Pressure Project Record Closeout

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs								
	Years	2017	2018	2019	2020	2021		
Labor		0	0	0	0	0		
Non-Labor		0	0	0	0	-0.175		
NSE		0	0	0	0	0		
	Total		0	0 -	0	-0.175		
FTE		0.0	0.0	0.0	0.0	0.0		

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labo</u>	<u>NLbr</u>	NSE	FTE	Adj Type			
2017 Total	0	0	0	0.0				
2018 Total	0	0	0	0.0				
2019 Total	0	0	0	0.0				
2020 Total	0	0	0	0.0				
2021	0	0	0	0.0	1-Sided Adj			
Explanation:	Explanation: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2021 Total	0	0	0	0.0				

Supplemental Workpapers for Workpaper 2SI005.000

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Hig	gh Pressure	Project Re	cord Close	High Pressure Project Record Closeout Program									
	Su	pplementa	l Workpape	er									
Labor Expenses	2022	2023	2024	Assumptions									
FTEs	1	5	9										
				1 FTE Salary = \$100,000									
				5 FTEs = \$100k * 5 = \$500,000									
Labor Dollars	\$100,000	\$500,000	\$900,000	9 FTEs = \$100k * 9 = \$900,000									
Labor Total	\$100,000	\$500,000	\$900,000										
Non-Labor Expenses	2022	2023	2024										
				Assuming an average of \$200/hr for consultants									
				and contractors based on historical purchased									
				labor costs. Contractor use will wind down as									
				internal employees are hired.									
				2022: \$200/hr*1000 hours/contractor*2									
				contractors = \$400,000									
				2023: \$200/hr*440 hours/contractor*2									
Consultants & Contractors	\$400,000	\$176,000	\$0	contractors = \$176,000									
				Assuming an average of \$5,000/MDT and/or									
				laptop based on historical equipment costs.									
				Employees need both a laptop and an MDT for									
				when they are in the field and to train field									
				personnel.									
				2022: 2 units *\$5k = \$10,000									
				2023: 10 units*\$5k = \$50,000									
Equipment & Materials	\$10,000	\$50,000	\$90,000	2024: 18 units*\$5k = \$90,000									
				Assuming \$35k of base level of employee training									
				and development expenses for the initial program									
				manager and \$3k additional in training and									
				development per additional employee hired.									
				These assumptions were based on historical cost									
				averages from similar programs at the company									
				and initial startup costs experienced by the HPPR									
				program in 2021.									
				2022: \$35,000									
				2023: \$35,000 + 4*\$3,000 = \$47,000									
Employee Training & Development	\$35,000	\$47,000	\$59,000	2024: \$35,000 + 8*\$3,000 = \$59,000									
				Assuming \$15k of base level of software licenses									
				and membership fees for the initial program									
				manager and \$3k additional in license and									
				membership fees per additional employee hired.									
				These assumptions were based on historical cost									
				averages from similar programs at the company									
				and initial startup costs experienced by the HPPR									
				program in 2021.									
				2022: \$15,000									
				2023: \$15,000 + 4*\$3,000 = \$27,000									
Memberships & License Fees	\$15,000	\$27,000	\$39,000	2024: \$15,000 + 8*\$3,000 = \$39,000									
Non-Labor Total	\$460,000	\$300,000	\$188,000										

Total	\$560,000	\$800,000	\$1,088,000

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity

Workpaper: 2SI006.000

Summary for Category: E. GIS Data Asset Integrity

	In 2021\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2021	2022	2023	2024			
Labor	447	471	495	499			
Non-Labor	43	74	135	108			
NSE	0	0	0	0			
Total	490	545	630	607			
FTE	5.2	5.4	5.8	5.8			

Workpapers belonging to this Category:

2SI006.000 GIS Data Asset Integrity

Labor	447	471	495	499
Non-Labor	43	74	135	108
NSE	0	0	0	0
Total	490	545	630	607
FTE	5.2	5.4	5.8	5.8

Beginning of Workpaper 2SI006.000 - GIS Data Asset Integrity

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Activity Description:

GIS Data Asset Integrity provides integration and applications to make geographic information systems (GIS), Maintenance Management, Inspection, and Document Management data readily and easily accessible for users in various activities that support asset management to meet applicable laws, regulations, internal policies, and best practices. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09).

Units for this workpaper are the number of projects posted to GIS & HPPD. Units are as follows: 2021 - 1,100; 2022 - 1,402; 2023 - 1,704; 2024 - 2,006.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity has changed in recent years and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09). Labor adjustments were made to accommodate for the portion of time incremental employees will charge to O&M (an average of 3.9%).

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity has changed in recent years and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. The activities and refundable portion of costs are discussed in the Gas Integrity Management Programs testimony of Mr. Travis Sera and Ms. Amy Kitson (Ex. SCG-09). Non-labor adjustments were made to purchase office equipment for represented workers to be able to work remotely during and post-pandemic, as became necessary as a result of the COVID-19 pandemic.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adju	ısted-Recor	Adjusted-Forecast						
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	461	271	344	379	447	471	495	499		
Non-Labor	11	7	7	116	43	74	135	108		
NSE	0	0	0	0	0	0	0	0		
Total	472	278	351	494	490	545	630	607		
FTE	5.4	3.1	4.2	4.2	5.2	5.4	5.8	5.8		

Southern California Gas Company 2024 GRC - REVISED

Non-Shared Service Workpapers

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast Method Base Forecast Forecast Adjust							ments	Adjus	ted-Forec	ast	
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	447	447	447	24	48	52	471	495	499	
Non-Labor	Base YR Rec	43	43	43	31	92	65	74	135	108	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	490	490	490	55	140	117	545	630	607	
FTE	Base YR Rec	5.2	5.2	5.2	0.2	0.6	0.6	5.4	5.8	5.8	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	12	16	0	28	0.1	1-Sided Adj	

Explanation:

A labor adjustment was made for the 3 incremental employees planned to be hired in 2022 and the 1 incremental employee planned to be hired in 2023, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects.

2022: .039 * 3 * \$100k = \$11,700 2023: .039 * 4 * \$100k = \$15,600 2024: .039 * 4 * \$100k = \$15,600

Non-labor expenses, such as computers, office equipment, and training, associated with 2 planned new hires in 2023. These costs average \$5K/year/incremental employee based on historical incurred costs.

2022: 3 * \$5k = \$15,000 2023: 4 * \$5k = \$20,000 2024: 4 * \$5k = \$20,000

2022 12 15 0 27 0.1 1-Sided Adj

Explanation:

A labor adjustment was made for the 3 incremental employees planned to be hired in 2022 and the 1 incremental employee planned to be hired in 2023, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects.

2022: .039 * 3 * \$100k = \$11,700 2023: .039 * 5 * \$100k = \$19,500 2024: .039 * 5 * \$100k = \$19,500

Non-labor expenses, such as computers, office equipment, and training, associated with 2 planned new hires in 2023. These costs average \$5K/year/incremental employee based on historical incurred costs.

2022: 3 * \$5k = \$15,000 2023: 5 * \$5k = \$25,000 2024: 5 * \$5k = \$25,000

2022 Total 24 31 0 55 0.2

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Category-Sub.	1. 010 Data / 1000	0 ,								
Workpaper:	2SI006.000 - GIS	2SI006.000 - GIS Data Asset Integrity								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type				
2023 Explanation:	4 A labor adjustment wa	5 as made for the	0 1 incrementa	9 al employees pl	0.1 anned to be h	1-Sided Adj ired in 2023 and 1				
	incremental planned the employees will charge The remainder of the 2023: .039 * 1 * \$100	incremental planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects. 2023: .039 * 1 * \$100k = \$3,900 2024: .039 * 2 * \$100k = \$7,800								
	Non-labor expenses, new hire in 2023 and on historical incurred 2023: 1 * \$5k = \$5,00 2024: 2 * \$5k = \$10,0	1 new hire in 20 costs. 0			_	iated with 1 planned nental employee based				
2023	8	10	0	18	0.1	1-Sided Adj				
	capital and refundable 2023: .039 * 2 * \$1000 2024: .039 * 2 * \$1000 Non-labor expenses, new hires in 2023. Th costs. 2023: 2 * \$5k = \$10,0 2024: 2 * \$5k = \$10,0	e projects. c = \$7,800 c = \$7,800 such as computese costs avera 00 00	ters, office ec age \$5K/year/	juipment, and t lincremental en	raining, assoc	on historical incurred				
2023	16	20	0	36	0.2	1-Sided Adj				
Explanation:	These employees will incurred. The remaind 2022: .039 * 3 * \$1000 2023: .039 * 4 * \$1000 2024: .039 * 4 * \$1000 Non-labor expenses, new hires in 2023. Th costs. 2022: 3 * \$5k = \$15,0 2023: 4 * \$5k = \$20,0	e planned to be charge an average an average an average an average control of the employ of the empl	hired in 2023 rage of 3.9% yyees's time is ters, office ec	, at an average of their time to s charged to ca juipment, and t	of \$100,000/r O&M, based o pital and refur raining, assoc	new employee in labor. on historical costs idable projects.				
2022	2024: 4 * \$5k = \$20,0		^	45	0.0	4 C:4-4 A 4!				
2023	20	25	0	45	0.2	1-Sided Adj				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

/orkpaper:	2SI006.000 - GIS Data Asset Integrity								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type			
Explanation:	A labor adjustment was made for the 3 incremental employees planned to be hired in 2022 and the 1 incremental employee planned to be hired in 2023, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects. 2022: .039 * 3 * \$100k = \$11,700 2023: .039 * 5 * \$100k = \$19,500 2024: .039 * 5 * \$100k = \$19,500								
	Non-labor expenses, such new hires in 2023. These costs. 2022: 3 * \$5k = \$15,000 2023: 5 * \$5k = \$25,000 2024: 5 * \$5k = \$25,000	-			_				
2023	0	32	0	32	0.0	1-Sided Adj			
Explanation:	Non-labor expense for rem in response to the post-part \$2k/employee based on hi 2023: \$2k * 16 = \$32,000	ndemic wo	rking environme	nt. The work	from home eq				
2023 Total	48	92	0	140	0.6				
2024	8	10	0	18	0.1	1-Sided Adj			
Explanation:	A labor adjustment was made for the 1 incremental employees planned to be hired in 2023 and 1 incremental planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects. 2023: .039 * 1 * \$100k = \$3,900 2024: .039 * 2 * \$100k = \$7,800 Non-labor expenses, such as computers, office equipment, and training, associated with 1 planned								
	new hire in 2023 and 1 new on historical incurred costs 2023: 1 * \$5k = \$5,000 2024: 2 * \$5k = \$10,000		024. These costs	s average \$5	K/year/increme	ental employee based			

Note: Totals may include rounding differences.

8

10

2024

18

0.1

1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Workpaper:	2SI006.000 - GIS Da	ta Asset Inte	egrity					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	A labor adjustment was made for the 2 incremental employees planned to be hired in 2023, at an average of \$100,000/new employee in labor. These employees will charge an average of 3.9% of their time to O&M, based on historical costs incurred. The remainder of the employees's time is charged to capital and refundable projects. 2023: .039 * 2 * \$100k = \$7,800 2024: .039 * 2 * \$100k = \$7,800 Non-labor expenses, such as computers, office equipment, and training, associated with 2 planned new hires in 2023. These costs average \$5K/year/incremental employee based on historical incurred costs. 2023: 2 * \$5k = \$10,000 2024: 2 * \$5k = \$10,000							
2024	16	20	0	36	0.2	1-Sided Adj		
Explanation:	A labor adjustment was mincremental employee pla These employees will chaincurred. The remainder of 2022: .039 * 3 * \$100k = \$2023: .039 * 4 * \$100k = \$2024: .039 * 4 * \$100k	nned to be harge an average an average an average and	nired in 2023, a age of 3.9% of yees's time is o ers, office equi	at an average their time to (harged to cap pment, and tr	of \$100,000/n D&M, based or bital and refund aining, associa	ew employee in labor. n historical costs dable projects. ated with 2 planned		
2024	20	25	0	45	0.2	1-Sided Adj		
Explanation:	A labor adjustment was mincremental employee plath These employees will characteristic that incurred. The remainder of 2022: .039 * 3 * \$100k = \$2023: .039 * 5 * \$100k = \$2024: .039 * \$100k = \$2024:	nned to be harge an average an average an average and	nired in 2023, a age of 3.9% of yees's time is o ers, office equi	at an average their time to (harged to cap pment, and tr	of \$100,000/n D&M, based or bital and refund	ew employee in labor. n historical costs dable projects. ated with 2 planned		
2024 Total	52	65	0	117	0.6			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	353	213	274	313	380
Non-Labor	10	6	6	133	60
NSE	0	0	0	0	0
Total	363	219	280	446	440
FTE	4.7	2.6	3.5	3.5	4.4
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-26	-17
NSE	0	0	0	0	0
Total	0	0	0	-26	-17
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	353	213	274	313	380
Non-Labor	10	6	6	107	43
NSE	0	0	0	0	0
Total	363	219	280	420	423
FTE	4.6	2.6	3.5	3.5	4.4
acation & Sick (Nominal \$)					
Labor	60	37	52	55	67
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	60	37	52	55	67
FTE	0.8	0.5	0.7	0.7	0.8
Escalation to 2021\$					
Labor	48	21	18	11	0
Non-Labor	1	1	0	8	0
NSE	0	0	0	0	0
Total	49	22	19	19	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	nt 2021\$)				
Labor	461	271	344	379	447
Non-Labor	11	7	7	116	43
NSE	0	0	0	0	0
Total	472	278	351	494	490
FTE	5.4	3.1	4.2	4.2	5.2

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs									
	Years	2017	2018	2019	2020	2021				
Labor		0	0	0	0	0				
Non-Labor		0	0	0	-26	-17				
NSE		0	0	0	0	0				
	Total		0	0	-26	-17				
FTE		0.0	0.0	0.0	0.0	0.0				

Detail of Adjustments to Recorded:

<u>Year</u>	<u>I</u>	<u>_abor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type		
2017 Total		0	0	0	0.0			
2018 Total		0	0	0	0.0			
2019 Total		0	0	0	0.0			
2020		0	-4	0	0.0	1-Sided Adj		
Explanation:	n: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2020		0	-6	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2020		0	-6	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).							
2020		0	-3	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-re Catastrophic Event Me		-	•	uested for re	ecovery through a non-GRC		
2020		0	-6	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-re Catastrophic Event Me		-	•	uested for re	ecovery through a non-GRC		
2020 Total		0	-26	0	0.0			
2021		0	0	0	0.0	1-Sided Adj		
Explanation: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).								
2021		0	-4	0	0.0	1-Sided Adj		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: E. GIS Data Asset Integrity
Category-Sub: 1. GIS Data Asset Integrity

Workpaper: 2SI006.000 - GIS Data Asset Integrity

Year	Labor	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type				
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).								
2021	0	-5	0	0.0	1-Sided Adj				
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).								
2021	0	-4	0	0.0	1-Sided Adj				
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).								
2021	0	-5	0	0.0	1-Sided Adj				
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).								
2021 Total	0	-17	0	0.0					

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Summary of Shared Services Workpapers:

Description

A. Damage Prevention

B. Pipeline Policy

C. Operator Qualification

D. Gas Systems Staff

Total

	In 2021 \$ (000) Incurred Costs									
Adjusted- Recorded	Adjusted-Forecast									
2021	2022	2023	2024							
1,570	2,257	3,466	4,305							
1,950	1,992	2,342	2,342							
1,912	2,507	2,701	3,043							
168	168	168	168							
5,600	6,924	8,677	9,858							

In 2021\$ (000) Incurred Costs

Adjusted-Forecast

Area: GAS SYSTEM STAFF & TECHNOLOGY

Adjusted-Recorded

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Cost Center: VARIOUS

Summary for Category: A. Damage Prevention

	/ tajaotoa / tooo/ aoa		710,00000	
	2021	2022	2023	2024
Labor	283	666	1,566	2,169
Non-Labor	1,287	1,591	1,900	2,136
NSE	0	0	0	0
Total	1,570	2,257	3,466	4,305
FTE	2.8	6.7	15.7	21.7
Cost Centers belonging	g to this Category:			
2200-0975.000 Damag	ge Prevention Program Manag	ement		
Labor	12	170	170	170
Non-Labor	17	122	122	122
NSE	0	0	0	0
Total	29	292	292	292
FTE	0.1	1.7	1.7	1.7
2200-2417.000 Shared	Public Awareness Activities			
Labor	98	123	323	523
Non-Labor	5	5	15	25
NSE	0	0	0	0
Total	103	128	338	548
FTE	0.9	1.2	3.2	5.2
2200-2623.000 Damag	ge Prevention Strategies			
Labor	173	373	1,073	1,476
Non-Labor	1,265	1,464	1,763	1,989
NSE	0	0	0	0
Total	1,438	1,837	2,836	3,465
FTE	1.8	3.8	10.8	14.8

Beginning of Workpaper 2200-0975.000 - Damage Prevention Program Management

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Activity Description:

Damage Prevention Program Management provides strategic leadership and oversight of SoCalGas's and SDG&E's Damage Prevention and Public Awareness programs and leads improvement initiatives that enable the utilities to effectively continue to execute efforts that reduce excavation damages and their inherent risks. Damage Prevention Program Management focuses on developing and deploying strategic initiatives aimed at preventing excavation damages. Damages resulting from excavation activity are the greatest threat to SoCalGas and SDG&E's pipeline infrastructure with potential for catastrophic consequences to public safety. SoCalGas and SDG&E are dedicated to mitigating the risk and associated hazards of excavation damages through the expansion of its Damage Prevention program by employing additional resources to proactively identify specific threats to its pipelines. The damage prevention program is mandated by the Code of Federal Regulations 192.614, California Government Code 4216, and California Code of Regulations Title 19 Division 4.

Units for this workpaper are the number of USA tickets at SoCalGas (both Distribution & Transmission). Units are as follows: 2021 - 1,043,299; 2022 - 1,126,763; 2023 - 1,216,904; 2024 - 1,314,256.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Since this cost center is new, a labor adjustment was made to properly accommodate for salaries for the employees in this cost center.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This activity began in mid-2021 and does not have a long expense history. The base year is representative of expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers for incremental employees since this cost center was created in 2021 and does not have an expense history. An additional non-labor adjustment was made to accommodate for an increase in non-labor dollars expected due to growing expenses associated with regulatory compliance, data requests, and audits.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Summary of Results:

		In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor		Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024				
Labor	0	0	0	0	12	170	170	170				
Non-Labor	0	0	0	0	17	122	122	122				
NSE	0	0	0	0	0	0	0	0				
Total	0	0	0	0	29	292	292	292				
FTE	0.0	0.0	0.0	0.0	0.1	1.7	1.7	1.7				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
0	0	0	0	0.0	0	0	0	0	0.0	
0	0	0	0	0.0	0	0	0	0	0.0	
12	17	0	29	0.1	170	122	0	292	1.7	
12	17	0	29	0.1	170	122	0	292	1.7	
86.63%	86.63%				86.63%	86.63%				
13.37%	13.37%				13.37%	13.37%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast		2024 Adjusted-Forecast						
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE		
0	0	0	0	0.0	0	0	0	0	0.0		
0	0	0	0	0.0	0	0	0	0	0.0		
170	122	0	292	1.7	170	122	0	292	1.7		
170	122	0	292	1.7	170	122	0	292	1.7		
86.63%	86.63%				86.63%	86.63%					
13.37%	13.37%				13.37%	13.37%					
0.00%	0.00%				0.00%	0.00%					
0.00%	0.00%				0.00%	0.00%					

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2022

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2023

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2024

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast	t Method	Bas	se Foreca	st	Forec	Forecast Adjustments			Adjusted-Forecast		
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	12	12	12	158	158	158	170	170	170	
Non-Labor	Base YR Rec	17	17	17	105	105	105	122	122	122	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	I	29	29	29	263	263	263	292	292	292	
FTE	Base YR Rec	0.1	0.1	0.1	1.6	1.6	1.6	1.7	1.7	1.7	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	158	5	0	163	1.6	1-Sided Adj	

Explanation:

This cost center was newly created in late 2021. This labor adjustment is for the salary of the Damage Prevention Program Manager, since the cost center is new and does not have a full year of costs incurred. The Program Manager provides strategic direction for the Damage Prevention programs at both SoCalGas and SDG&E.

Non-labor expenses, such as computers, office equipment, and training, associated with the 1 employee at this new cost center. These costs average \$5K/year/incremental employee based on historical incurred costs.

nisioricai incurred costs

2022 0 100 0 100 0.0 1-Sided Adj

Explanation: Non-labor adjustment to accommodate growing expenses associated with regulatory compliance, data

requests, and audits.

2022 Total	158	105	0	263	1.6	
2023	158	5	0	163	1.6	1-Sided Adj

Explanation:

This cost center was newly created in late 2021. This labor adjustment is for the salary of the Damage Prevention Program Manager, since the cost center is new and does not have a full year of costs incurred. The Program Manager provides strategic direction for the Damage Prevention programs at both SoCalGas and SDG&E.

Non-labor expenses, such as computers, office equipment, and training, associated with the 1 employee at this new cost center. These costs average \$5K/year/incremental employee based on historical incurred costs.

2023 0 100 0 100 0.0 1-Sided Adj

Explanation: Non-labor adjustment to accommodate growing expenses associated with regulatory compliance, data

requests, and audits.

2023 Total	158	105	0	263	1.6	
2024	158	5	0	163	1.6	1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type				
Explanation:	This cost center was newly created in late 2021. This labor adjustment is for the salary of the Damage Prevention Program Manager, since the cost center is new and does not have a full year of costs incurred. The Program Manager provides strategic direction for the Damage Prevention programs at both SoCalGas and SDG&E. Non-labor expenses, such as computers, office equipment, and training, associated with the 1 employee at this new cost center. These costs average \$5K/year/incremental employee based on historical incurred costs.									
2024	0	100	0	100	0.0	1-Sided Adj				
Explanation:	Non-labor adjustment to accommodate growing expenses associated with regulatory compliance, data requests, and audits.									
2024 Total	158	105	0	263	1.6					

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	10
Non-Labor	0	0	0	0	17
NSE	0	0	0	0	0
Total	0	0	0	0	27
FTE	0.0	0.0	0.0	0.0	0.1
Adjustments (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
Recorded-Adjusted (Nomin	nal \$)				
Labor	0	0	0	0	10
Non-Labor	0	0	0	0	17
NSE	0	0	0	0	0
Total	0	0	0	0	27
FTE	0.0	0.0	0.0	0.0	0.1
Vacation & Sick (Nominal \$	5)				
Labor	0	0	0	0	2
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	2
FTE	0.0	0.0	0.0	0.0	0.0
Escalation to 2021\$					
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 (Consta	ant 2021\$)				
Labor	0	0	0	0	12
Non-Labor	0	0	0	0	17
NSE	0	0	0	0	0
Total	0	0	0	0	29
FTE	0.0	0.0	0.0	0.0	0.1

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 1. Damage Prevention Program Management

Cost Center: 2200-0975.000 - Damage Prevention Program Management

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs									
	Years	2017	2018	2019	2020	2021				
Labor		0	0	0	0	0				
Non-Labor		0	0	0	0	-0.150				
NSE		0	0	0	0	0				
	Total		0	0 -	0 -	-0.150				
FTE		0.0	0.0	0.0	0.0	0.0				

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020 Total	0	0	0	0.0		
2021	0	0	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		-	requested for	or recovery through a non-GRC	
2021 Total	0	0	0	0.0		

Beginning of Workpaper 2200-2417.000 - Shared Public Awareness Activities

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Activity Description:

The activities associated with the shared service component of Public Awareness include the central management of both SoCalGas and SDG&E's Public Awareness plans. This co-operator approach offers some resource efficiencies by leveraging the knowledge to the benefit of both companies. The Public Awareness work group is focused on the mandates from 49 CFR 192.616, which requires the development and implementation of a public awareness program.

Units for this workpaper are the number of USA tickets at SoCalGas (both Distribution & Transmission). Units are as follows: 2021 - 1,043,299; 2022 - 1,126,763; 2023 - 1,216,904; 2024 - 1,314,256.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Over the next five years, construction in Southern California is expected to grow, especially when the effects of the recent federal infrastructure bill begin to be realized (H.R.3684 - Infrastructure Investment and Jobs Act). As such, the Public Awareness Program needs to keep up with the anticipated growth in the region. This method is most appropriate because this activity has grown in recent years due to construction growth and regulatory mandates and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made to accommodate for incremental Public Awareness advisors to be hired.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Over the next five years, construction in Southern California is expected to grow, especially when the effects of the recent federal infrastructure bill begin to be realized (H.R.3684 - Infrastructure Investment and Jobs Act). As such, the Public Awareness Program needs to keep up with the anticipated growth in the region. This method is most appropriate because this activity has grown in recent years due to construction growth and regulatory mandates and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for the estimated non-labor expenses for incremental employees, including employee development, training, office equipment, and computers.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Summary of Results:

		In 2021\$ (000) Incurred Costs							
		Adju	sted-Recor	ded		Adjusted-Forecast			
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	63	123	130	124	98	123	323	523	
Non-Labor	4	6	24	49	5	4	14	24	
NSE	0	0	0	0	0	0	0	0	
Total	67	129	154	173	102	127	337	547	
FTE	0.6	1.1	1.1	1.0	0.9	1.2	3.2	5.2	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
98	4	0	102	0.9	123	4	0	127	1.2	
0	0	0	0	0.0	0	0	0	0	0.0	
0	0	0	0	0.0	0	0	0	0	0.0	
98	4	0	102	0.9	123	4	0	127	1.2	
73.10%	73.10%				73.10%	73.10%				
26.90%	26.90%				26.90%	26.90%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast			2024 Adju	sted-Fore	cast	
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
323	14	0	337	3.2	523	24	0	547	5.2
0	0	0	0	0.0	0	0	0	0	0.0
0	0	0	0	0.0	0	0	0	0	0.0
323	14	0	337	3.2	523	24	0	547	5.2
73.10%	73.10%				73.10%	73.10%			
26.90%	26.90%				26.90%	26.90%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the number of stakeholders that each utility must reach and communicate with to deliver required safety related messages. SoCalGas and SDG&E's share is the number of stakeholders the individual utility must reach divided by the total number of stakeholders both utilities must reach.

Cost Center Allocation Percentage for 2022

All calculations are based on the number of stakeholders that each utility must reach and communicate with to deliver required safety related messages. SoCalGas and SDG&E's share is the number of stakeholders the individual utility must reach divided by the total number of stakeholders both utilities must reach.

Cost Center Allocation Percentage for 2023

All calculations are based on the number of stakeholders that each utility must reach and communicate with to deliver required safety related messages. SoCalGas and SDG&E's share is the number of stakeholders the individual utility must reach divided by the total number of stakeholders both utilities must reach.

Cost Center Allocation Percentage for 2024

All calculations are based on the number of stakeholders that each utility must reach and communicate with to deliver required safety related messages. SoCalGas and SDG&E's share is the number of stakeholders the individual utility must reach divided by the total number of stakeholders both utilities must reach.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Summary of Adjustments to Forecast:

			In 202	1 \$(000) Ir	ncurred Co	sts				
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	98	98	98	25	225	425	123	323	523
Non-Labor	Base YR Rec	5	5	5	0	10	20	5	15	25
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	102	102	102	25	235	445	127	337	547
FTE	Base YR Rec	0.9	0.9	0.9	0.3	2.3	4.3	1.2	3.2	5.2

Forecast Adjustment Details:

orecast Adjustment Details:									
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type			
2022	20	0	0	20	0.2	1-Sided Adj			
Explanation:	Incremental labor for RA for SCG and SDG&E. (M	•	: Outreach fo	r Latent 3rd P	arty Damages	s. 25% of an FTE total			
2022	5	0	0	5	0.1	1-Sided Adj			
Explanation:	Incremental labor for RAMP Mitigation: Outreach for Latent 3rd Party Damages. 25% of an FTE total for SCG and SDG&E. (HP)								
2022 Total	25	0	0	25	0.3				
2023	20	0	0	20	0.2	1-Sided Adj			
Explanation:	Incremental labor for RA for SCG and SDG&E. (M	•	: Outreach fo	r Latent 3rd P	arty Damages	s. 25% of an FTE total			
2023	5	0	0	5	0.1	1-Sided Adj			
Explanation:	Incremental labor for RA for SCG and SDG&E. (H	•	: Outreach fo	r Latent 3rd P	arty Damages	s. 25% of an FTE total			
2023	200	10	0	210	2.0	1-Sided Adj			
Explanation:	A labor adjustment was r 2023 and 2 incremental I \$100,000/new employee Prevention Public Aware 2023: 2 * \$100k = \$200,0 2024: 4 * \$100k = \$400,0 Non-labor expenses, such new hires in 2023 and 2 based on historical incur 2023: 2 * \$5k = \$10,000 2024: 4 * \$5k = \$20,000	Public Awarer in labor. The ness Progran 000 000 ch as compute new hires in 2	ness Advisors se employees n. ers, office equ	planned to be will expand t ipment, and t	e hired in 2024 the capabilities training, assoc	4, at an average of s of the new Damage iated with 2 planned			
2023 Total	225	10	0	235	2.3				

Note: Totals may include rounding differences.

20

2024

0

20

0.2

1-Sided Adj

0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	Incremental labor for RAMI for SCG and SDG&E. (MP	•	Outreach for I	₋atent 3rd Pa	arty Damages.	25% of an FTE total		
2024	5	0	0	5	0.1	1-Sided Adj		
Explanation:	Incremental labor for RAMI for SCG and SDG&E. (HP)	•	Outreach for I	_atent 3rd Pa	arty Damages.	25% of an FTE total		
2024	400	20	0	420	4.0	1-Sided Adj		
Explanation:	A labor adjustment was made for the 2 incremental Public Awareness Advisors planned to be hired in 2023 and 2 incremental Public Awareness Advisors planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will expand the capabilities of the new Damage Prevention Public Awareness Program. 2023: 2 * \$100k = \$200,000 2024: 4 * \$100k = \$400,000 Non-labor expenses, such as computers, office equipment, and training, associated with 2 planned							
	based on historical incurred 2023: 2 * \$5k = \$10,000 2024: 4 * \$5k = \$20,000	d costs.						
2024 Total	425	20	0	445	4.3			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Determination of Adjusted-Recorded (Incurred Costs):

Doto: Illination of Aujustea	i-Recorded (incurred Cos 2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	49	97	103	108	95
Non-Labor	3	6	23	47	5
NSE	0	0	0	0	0
Total	52	103	127	155	100
FTE	0.5	0.9	0.9	0.9	0.8
Adjustments (Nominal \$) **	•				
Labor	0	0	0	-6	-12
Non-Labor	0	0	0	-1	-1
NSE	0	0	0	0	0
Total	0	0	0	-7	-13
FTE	0.0	0.0	0.0	-0.1	-0.1
Recorded-Adjusted (Nomin	nal \$)				
Labor	49	97	103	101	83
Non-Labor	3	5	23	47	5
NSE	0	0	0	0	0
Total	52	102	126	148	88
FTE	0.5	0.9	0.9	0.8	0.7
Vacation & Sick (Nominal \$	5)				
Labor	8	17	20	18	15
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	8	17	20	18	15
FTE	0.1	0.2	0.2	0.2	0.2
Escalation to 2021\$					
Labor	6	9	7	5	0
Non-Labor	0	0	1	2	0
NSE	0	0	0	0	0
Total	6	10	8	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	ant 2021\$)				
Labor	63	123	130	124	98
Non-Labor	4	6	24	49	5
NSE	0	0	0	0	0
Total	67	129	154	173	102
FTE	0.6	1.1	1.1	1.0	0.9

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	-6	-12					
Non-Labor		0	-0.343	-0.309	-0.648	-0.600					
NSE		0	0	0	0	0					
	Total	0	-0.343	-0.309	-7	-13					
FTE		0.0	0.0	0.0	-0.1	-0.1					

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type						
2017 Total	0	0	0	0.0							
2018	0	0	0	0.0	1-Sided Adj						
Explanation:	Incremental costs that are an Memorandum Account (CEM	•	quested for r	ecovery thro	ough a non-GRC Catastrophic Event						
2018 Total	0	0	0	0.0							
2019	0	0	0	0.0	CCTR Transf To 2200-2011.001						
Explanation:	Transfer costs to GOSI CC 2	Fransfer costs to GOSI CC 2200-2011.001 related to SB1371 (BLP) Emissions Strategy Program									
2019 Total	0	0	0	0.0							
2020	0	-1	0	0.0	1-Sided Adj						
Explanation:	Incremental COVID-related c Catastrophic Event Memoran		•	requested f	or recovery through a non-GRC						
2020	-6	0	0	-0.1	CCTR Transf To 2200-2011.001						
Explanation:	Transfer costs to GOSI CC 2	200-2011.001 rela	ated to SB13	71 (BLP) Er	nissions Strategy Program						
2020 Total	-6	-1	0	-0.1							
2021	0	-1	0	0.0	1-Sided Adj						
Explanation:	Incremental COVID-related c Catastrophic Event Memoran		•	requested f	or recovery through a non-GRC						
2021	-12	0	0	-0.1	1-Sided Adj						
Explanation:	Adjustment to remove non-G recovered through a separate			71 Emissions	s Strategy Program that are being						
2021 Total	-12	-1	0	-0.1							

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: M09

RAMP Line Item Name: Outreach for Latent 3rd Party Damages (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	0	20	20	20	16	21

Cost Estimate Changes from RAMP:

GRC forecast is within the RAMP range

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 2. Shared Public Awareness Activities

Cost Center: 2200-2417.000 - Shared Public Awareness Activities

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: M10

RAMP Line Item Name: Outreach for Latent 3rd Party Damages (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)											
	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange					
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High					
Tranche 1 Cost Estimate	0	5	5	5	4	5					
Cost Estimate Changes from											

GRC Work Unit/Activity Level	<u>Estimates</u>					
Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RA Range Act Low	
Tranche 1 No feasible units Work Unit Changes from RAM GRC forecast is within the RAM		0.00	0.00	0.00	0.00	0.00

Risk Spend Efficiency (RSE)								
	GRC RSE	RAMP RSE						
Tranche 1	0.000	0.000						
RSE Changes from RAMP:								

Beginning of Workpaper 2200-2623.000 - Damage Prevention Strategies

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Activity Description:

Damage Prevention Strategies manages the damage prevention program focusing on preventing excavation damages to SoCalGas's buried pipelines. Damages resulting from excavation activity are the greatest threat to SoCalGas's pipeline infrastructure with potential for catastrophic consequences to public safety . SoCalGas is dedicated to mitigating the risk and associated hazards of excavation damages through the expansion of its Damage Prevention program by employing additional resources to proactively identify specific threats to its pipelines. The damage prevention program is mandated by the Code of Federal Regulations 192.614, California Government Code 4216, and California Code of Regulations Title 19 Division 4. The Damage Prevention Analyst Program works to reduce the number of third-party damages to gas facilities by identifying at risk excavating contractors and educating them on proper one-call and safe digging techniques. The benefit of the damage prevention analyst is threefold. First, it enables SoCalGas to stop a job before an incident occurs if no underground markings are present or the excavator is not practicing safe digging techniques. Second, it provides an opportunity to educate contractors on the requirements before digging or when digging around gas facilities before damage is done. This education has far-reaching benefits as the contractor will perform future projects, and the education can be applied to those future projects. Third, it creates a list of contractors who might be repeat offenders and/or prevalent site characteristics to improve prioritization of future construction site inspections.

Units for this workpaper are the number of USA tickets at SoCalGas (both Distribution & Transmission). Units are as follows: 2021 - 1,043,299; 2022 - 1,126,763; 2023 - 1,216,904; 2024 - 1,314,256.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Over the next five years, construction in Southern California is expected to grow, especially when the effects of the recent federal infrastructure bill begin to be realized (H.R.3684 - Infrastructure Investment and Jobs Act). As such, the Damage Prevention Strategies team has grown to keep up with the anticipated growth in the region with a goal of preventing damages. This forecasting method is most appropriate because this activity has grown significantly in recent years and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Labor adjustments were made to accommodate for incremental hires, including additional Damage Prevention Advisors and supervisors, to support increased focus on damage prevention programs:

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Over the next five years, construction in Southern California is expected to grow, especially when the effects of the recent federal infrastructure bill begin to be realized (H.R.3684 - Infrastructure Investment and Jobs Act). As such, the Damage Prevention Strategies team has grown to keep up with the anticipated growth in the region with a goal of preventing damages. This forecasting method is most appropriate because this activity has grown significantly in recent years and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Non-labor adjustments were made to accommodate for expected ticket growth as construction increases in Southern California, in addition to a known increase in ticket fees. Additionally, a non-labor adjustment was made to accommodate for the estimated non-labor expenses for incremental new employees, which includes rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

	In 2021\$ (000) Incurred Costs											
		Adjι	ısted-Recor		Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024				
Labor	0	60	60	111	173	373	1,073	1,476				
Non-Labor	0	778	1,260	1,314	1,265	1,465	1,764	1,990				
NSE	0	0	0	0	0	0	0	0				
Total	0	838	1,319	1,425	1,439	1,838	2,837	3,466				
FTE	0.0	0.5	0.5	1.1	1.8	3.8	10.8	14.8				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreq

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
0	1	0	1	0.0	0	1	0	1	0.0	
0	0	0	0	0.0	0	0	0	0	0.0	
173	1,265	0	1,438	1.8	373	1,464	0	1,837	3.8	
173	1,266	0	1,439	1.8	373	1,465	0	1,838	3.8	
86.15%	86.15%				86.15%	86.15%				
13.85%	13.85%				13.85%	13.85%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast		2024 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
0	1	0	1	0.0	0	1	0	1	0.0	
0	0	0	0	0.0	0	0	0	0	0.0	
1,073	1,763	0	2,836	10.8	1,476	1,989	0	3,465	14.8	
1,073	1,764	0	2,837	10.8	1,476	1,990	0	3,466	14.8	
86.15%	86.15%				86.15%	86.15%				
13.85%	13.85%				13.85%	13.85%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the ratio of SDG&E to SoCalGas Distribution and Transmission miles.

Cost Center Allocation Percentage for 2022

All calculations are based on the ratio of SDG&E to SoCalGas Distribution and Transmission miles.

Cost Center Allocation Percentage for 2023

All calculations are based on the ratio of SDG&E to SoCalGas Distribution and Transmission miles.

Cost Center Allocation Percentage for 2024

All calculations are based on the ratio of SDG&E to SoCalGas Distribution and Transmission miles.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecas	Forecast Method Base Forecast			Forec	ast Adjust	ments	Adjus	Adjusted-Forecast				
Years	s	2022 2023 2024		2022	2023	2024	2022	2023	2024			
Labor	Base YR Rec	173	173	173	200	900	1,303	373	1,073	1,476		
Non-Labor	Base YR Rec	1,265	1,265	1,265	199	498	724	1,464	1,763	1,989		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Tota	ıl	1,439	1,439	1,439	399	1,398	2,027	1,838	2,837	3,466		
FTE	Base YR Rec	1.8	1.8	1.8	2.0	9.0	13.0	3.8	10.8	14.8		

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	160	42	0	202	1.6	1-Sided Adj	

Explanation:

Incremental headcount for RAMP Mitigation: Damage Prevention Analysts (MP)

A labor adjustment was made for the incremental Damage Prevention Advisors (DPAs) and Team Supervisors that expand the capabilities of the Damage Prevention Strategies Team. 4 incremental employees are planned to be hired in 2022, 4 incremental employees planned to be hired in 2023, and 4 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will expand the capabilities of the Damage Prevention Program. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022.

2022: .5 * 4 * \$100k = \$200,000 2023: 8 * \$100k = \$800,000 2024: 12 * \$100k = \$1,200,000

(MP is 80% of total)

Non-labor expenses for new Damage Prevention Analysts and Supervisors. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc. These costs average \$26,420 annually per employee with a rental vehicle based on historical incurred costs for the DPAs. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022.

2022: .5 * 4 * \$26,420 = \$52,840 2023: 8 * \$26,420 = \$211,360 2024: 12 * \$26,420 = \$317,040

(MP is 80% of total)

2022 40 11 0 51 0.4 1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Cost Center:	2200-2623.000 - L	Damage Prevent	tion Strategies	3			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type	
Explanation:	Incremental headcount A labor adjustment was Supervisors that expanemployees are planned and 4 incremental emplabor. These employee Program. The employee 2022. 2022: .5 * 4 * \$100k = \$800 2024: 12 * \$100k = \$1, (HP is 20% of total) Non-labor expenses fovehicles, fuel for rental These costs average \$ costs for the DPAs. The expected for 2022. 2022: .5 * 4 * \$26,420 = \$2 2023: 8 * \$26,420 = \$2 2024: 12 * \$26,420 = \$2 (HP is 20% of total)	s made for the ind the capabilitied to be hired in 2 loyees planned is will expand these are planned \$200,000 200,000 r new Damage I vehicles, employees are \$52,840 annually e employees are	pation: Damage particular particu	ge Prevention amage Prevention amage Prevention age Prevention mental employ 2024, at an a of the new Da 1-2022, so 50%	Analysts (HP) ation Advisors (In Strategies Telegees planned to verage of \$100 amage Prevent of the expense pervisors. Express office equipment vehicle based	DPAs) and Team eam . 4 incremental b be hired in 2023, 0,000/new employee in ion Public Awareness se is expected for enses include rental ent, computers, etc. on historical incurred	
2022	0	120	0	120	0.0	1-Sided Adj	
Explanation:	Expected ticket growth ramp up due to federal	•	_	of 10% per ye	ar and anticipa	ted construction	
2022	0	21	0	21	0.0	1-Sided Adj	
Explanation:	South System USA Ticket fee increase (6%). In 2019, SCG spent \$691k on ticket fees in the South System06*\$691k = \$42,000 increase each year. Increase takes place midway through 2022, .5 * .06 * \$691k = \$21,000.						
2022	0	5	0	5	0.0	1-Sided Adj	
Explanation:	North System USA Tick	ket Fee anticipa	ted ticket fee	increase			
2022 Total	200	199	0	399	2.0		
2023	640	169	0	809	6.4	1-Sided Adj	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Year NLbr NSE Total FTE Adj_Type <u>Labor</u> Incremental headcount for RAMP Mitigation: Damage Prevention Analysts (MP) **Explanation:** A labor adjustment was made for the incremental Damage Prevention Advisors (DPAs) and Team Supervisors that expand the capabilities of the Damage Prevention Strategies Team . 4 incremental employees are planned to be hired in 2022, 4 incremental employees planned to be hired in 2023, and 4 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will expand the capabilities of the new Damage Prevention Public Awareness Program. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 8 * \$100k = \$800,000 2024: 12 * \$100k = \$1,200,000 (MP is 80% of total) Non-labor expenses for new Damage Prevention Analysts and Supervisors. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc. These costs average \$26,420 annually per employee with a rental vehicle based on historical incurred costs for the DPAs. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022. 2022: .5 * 4 * \$26,420 = \$52,840 2023: 8 * \$26,420 = \$211,360 2024: 12 * \$26,420 = \$317,040 (MP is 80% of total) 2023 160 42 202 1-Sided Adj 0 1.6

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Cost Center:	2200-2623.000 - Da	image Preven	uon Strategie:	S				
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	Incremental headcount f	or RAMP Mitio	gation: Damaç	ge Prevention	Analysts (HP)			
	A labor adjustment was made for the incremental Damage Prevention Advisors (DPAs) and Team Supervisors that expand the capabilities of the Damage Prevention Strategies Team . 4 incremental employees are planned to be hired in 2022, 4 incremental employees planned to be hired in 2023, and 4 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will expand the capabilities of the Damage Prevention Program. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 8 * \$100k = \$800,000 2024: 12 * \$100k = \$1,200,000							
	(HP is 20% of total) Non-labor expenses for vehicles, fuel for rental volume These costs average \$2000 costs for the DPAs. The expected for 2022. 2022: .5 * 4 * \$26,420 = 2023: 8 * \$26,420 = \$21 2024: 12 * \$26,420 = \$300 (HP is 20% of total)	ehicles, emplo 6,420 annually employees ar \$52,840 1,360	oyee developr y per employe	ment, training, ee with a renta	office equipme vehicle based	nt, computers, etc. on historical incurred		
2023	0	240	0	240	0.0	1-Sided Adj		
Explanation:	Expected ticket growth b ramp up due to federal in	ased on past	ticket growth					
2023	0	42	0	42	0.0	1-Sided Adj		
Explanation:	South System USA Ticke System06*\$691k = \$4: .06 * \$691k = \$21,000.			-				
2023	0	5	0	5	0.0	1-Sided Adj		
Explanation:	North System USA Ticke					·		
2023	82	0	0	82	8.0	1-Sided Adj		
Explanation:	Incremental labor for RA	MP mitigation	: Automate Th	nird Party Exca	avation Incident	Reporting - (MP)		
2023	18	0	0	18	0.2	1-Sided Adj		
Explanation:	Incremental labor for RA	MP mitigation	: Automate Th	nird Party Exc	avation Incident	Reporting - (HP)		
2023 Total	900	498	0	1,398	9.0			
2024	240	63	0	303	2.4	1-Sided Adj		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Year NLbr NSE Total FTE Adj_Type <u>Labor</u> **Explanation:** Incremental headcount for RAMP Mitigation: Damage Prevention Analysts (HP) A labor adjustment was made for the incremental Damage Prevention Advisors (DPAs) and Team Supervisors that expand the capabilities of the Damage Prevention Strategies Team . 4 incremental employees are planned to be hired in 2022, 4 incremental employees planned to be hired in 2023, and 4 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. These employees will expand the capabilities of the Damage Prevention Program. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 8 * \$100k = \$800,000 2024: 12 * \$100k = \$1,200,000 (HP is 20% of total) Non-labor expenses for new Damage Prevention Analysts and Supervisors. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, office equipment, computers, etc. These costs average \$26,420 annually per employee with a rental vehicle based on historical incurred costs for the DPAs. The employees are planned to start in mid-2022, so 50% of the expense is expected for 2022. 2022: .5 * 4 * \$26,420 = \$52,840 2023: 8 * \$26,420 = \$211,360 2024: 12 * \$26,420 = \$317,040 (HP is 20% of total) 2024 960 254 0 9.6 1-Sided Adj 1,214

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Cost Center.	2200-2023.000 - Da	anage i ieven	don on alegie			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Incremental headcount of A labor adjustment was Supervisors that expandemployees are planned and 4 incremental employees Program. These employees 2022. 2022: .5 * 4 * \$100k = \$2023: 8 * \$100k = \$800, 2024: 12 * \$100k = \$1,200k	made for the in the capabilities to be hired in 2 byees planned will expand the sare planned 200,000 000,000 onew Damage rehicles, employees are \$52,840 1,360 17,040	pation: Dama ncremental D es of the Dam 2022, 4 incre to be hired in the capabilities to start in mi Prevention A byee develop y per employe e planned to	ge Prevention ramage Prevention	Analysts (MP) Intion Advisors on Strategies To yees planned to average of \$100 amage Prevent of the expension of the expensi	(DPAs) and Team eam . 4 incremental to be hired in 2023, 0,000/new employee in tion Public Awareness se is expected for the penses include rental ent, computers, etc. d on historical incurred the expense is
2024	0 Expected ticket growth k	360	0	360	0.0	1-Sided Adj
Explanation:	Expected ticket growth tramp up due to federal i	· · · · · · · · · · · · · · · · · · ·	~	or 10% per ye	ат апо аписіра	iteu construction
2024	0	42	0	42	0.0	1-Sided Adj
Explanation:	South System USA Tick System06*\$691k = \$4 .06 * \$691k = \$21,000.		` '	· · ·		
2024	0	5	0	5	0.0	1-Sided Adj
Explanation:	North System USA Ticke	et Fee anticipa	ted ticket fee	increase		
2024	84	0	0	84	0.8	1-Sided Adj
Explanation:	Incremental labor for RA	MP mitigation	: Automate T	hird Party Exc	avation Inciden	nt Reporting - (MP)
2024	19	0	0	19	0.2	1-Sided Adj
Explanation:	Incremental labor for RA	MP mitigation	: Automate T	hird Party Exc	avation Incider	nt Reporting - (HP)
2024 Total	1,303	724	0	2,027	13.0	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	48	47	90	147
Non-Labor	0	719	1,192	1,263	1,269
NSE	0	0	0	0	0
Total	0	767	1,239	1,353	1,416
FTE	0.0	0.4	0.4	0.9	1.5
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-2	-3
NSE	0	0	0	0	0
Total	0	0	0	-2	-3
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	0	48	47	90	147
Non-Labor	0	719	1,192	1,261	1,265
NSE	0	0	0	0	0
Total	0	767	1,239	1,351	1,413
FTE	0.0	0.4	0.4	0.9	1.5
acation & Sick (Nominal \$)					
Labor	0	8	9	16	26
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	8	9	16	26
FTE	0.0	0.1	0.1	0.2	0.3
scalation to 2021\$					
Labor	0	5	3	5	0
Non-Labor	0	59	68	54	0
NSE	0	0	0	0	0
Total	0	63	71	58	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Constar	nt 2021\$)				
Labor	0	60	60	111	173
Non-Labor	0	778	1,260	1,314	1,265
NSE	0	0	0	0	0
Total	0	838	1,319	1,425	1,439
FTE	0.0	0.5	0.5	1.1	1.8

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		0	0	0	0	0
Non-Labor		0	0	0	-2	-3
NSE		0	0	0	0	0
	Total		0 -		-2	-3
FTE		0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE.	FTE	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-2	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2020 Total	0	-2	0	0.0		
2021	0	-3	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC	
2021 Total	0	-3	0	0.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C11

RAMP Line Item Name: Damage Prevention Analysts (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical	2022 Forecast	2023	2024		2024 RAMP Range	
	Embedded Cost		Forecast (2021 \$)	Forecast (2021 \$)	(2020 Inc	.,	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High	
Tranche 1 Cost Estimate	0	202	809	1,214	1,745	2,230	

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of employees or contractors supported	0.00	6.00	12.00	18.00	10.00	13.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates. Includes units from SCG-Risk-2: C12 - Damage Prevention Analystis (HP)

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	52.000	48.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C12

RAMP Line Item Name: Damage Prevention Analysts (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	0	51	202	303	345	440

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates.

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of employees or contractors supported	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates. Units for this RAMP activity included in SCG-RISK-2: C11 - Damage Prevention Analysts (MP)

Risk Spend Efficiency (RSE)

 GRC RSE
 RAMP RSE

 Tranche 1
 37.000

 36.000

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 3

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C19

RAMP Line Item Name: Damage Prevention Policy Activities (MP)

Tranche(/s): Tranche1: N/A

Tranche 1 Cost Estimate

GRC Forecast Cost Estimates (\$000)

2021 Historical	2022	2023	2024	2024 RAMP R	=
Embedded Cost	Forecast	Forecast	Forecast	(2020 Inc	urred \$)
(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
1	1	1	1	1	1

Cost Estimate Changes from RAMP:

GRC forecast is within the RAMP range. This RAMP activity includes costs for SCG-Risk-2: C20 - Damage Prevention Policy Activities (HP).

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range Activities	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00
Work Unit Changes from PAI	MD.					

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	0.000	0.000

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 4

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C22

RAMP Line Item Name: Gold Shovel Standard Program (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estima	ites (\$000)					
	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	2	2	2	2	2	3
Cost Estimate Changes fro GRC forecast is within the R						

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range Activities	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of memberships	1.00	1.00	1.00	1.00	1.00	1.00

Risk Spend Efficiency (RSE)			
	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	
BSE Changes from BAMD			

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 5

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C23

RAMP Line Item Name: Gold Shovel Standard Program (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estima	<u>tes (\$000)</u>					
	2021 Historical	2022	2023	2024	2024 RAMP R	
	Embedded Cost (2021 \$)	Forecast (2021 \$)	Forecast (2021 \$)	Forecast (2021 \$)	(2020 Inc	urred \$) High
Tranche 1 Cost Estimate	1	1	1	1	0	1

Cost Estimate Changes from RAMP:GRC forecast is within the RAMP range

GRC Work Unit/Activity	Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range. The units for this control are included in SCG-Risk-2: C22 - Gold Shovel Standard Program (MP)

Risk Spend Efficiency (RSE)

 Tranche 1
 0.000
 0.000

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 6

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C03

RAMP Line Item Name: Locate and Mark Activities (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
		(2021 \$) (2	(2021 \$) (20	(2021 \$)	(2021 \$)	Low
Tranche 1 Cost Estimate	1,006	1,006	1,006	1,006	19,062	23,076

Cost Estimate Changes from RAMP:

This workpaper is 1 of 2 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution

GRC Work Unit/Activity Level Estimates

	2021 Historical	2022	2023	2024	2024	RAMP
Unit of	Embedded	Forecast	Forecast	Forecast	Range A	Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of USA tickets	837,893.00	888,166.00	941,456.00	997,944.00	805,392.00	974,949.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE		
Tranche 1	14.000	767.000		

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item #7

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C04

RAMP Line Item Name: Locate and Mark Activities (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	238	238	238	238	4,346	5,261

Cost Estimate Changes from RAMP:

This workpaper is 1 of 3 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution and in workpaper 2GT000.000 by Gas TRansmission Operations and Construction

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast		RAMP Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of USA tickets	63,067.00	66,851.00	70,862.00	75,114.00	192,324.00	232,813.00

Work Unit Changes from RAMP:

The forecast is outside the RAMP range due to forecast updates

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	98.000	55.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item #8

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C03

RAMP Line Item Name: Locate and Mark Activities (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost		2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	46	46	46	46	19,062	23,076

Cost Estimate Changes from RAMP:

This workpaper is 1 of 2 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast		RAMP Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of USA tickets	837,893.00	888,166.00	941,456.00	997,944.00	805,392.00	974,949.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	14.000	767.000

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 9

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C04

RAMP Line Item Name: Locate and Mark Activities (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	11	11	11	11	4,346	5,261

Cost Estimate Changes from RAMP:

This workpaper is 1 of 3 total workpapers requesting funds for this mitigation. Additional funds are being requested in workpaper 2GD002.000 by Gas Distribution and in workpaper 2GT000.000 by Gas Transmission Operations and Contrstruction

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast		RAMP Activities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of USA tickets	63,067.00	66,851.00	70,862.00	75,114.00	192,324.00	232,813.00

Work Unit Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	98.000	55.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 10

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: M01

RAMP Line Item Name: Automate Third Party Excavation Incident Reporting (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	0	0	82	85	63	80

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	86.000	58.000	

RSE Changes from RAMP:

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: A. Damage Prevention

Category-Sub: 3. Damage Prevention Strategies

Cost Center: 2200-2623.000 - Damage Prevention Strategies

RAMP Item # 11

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: M02

RAMP Line Item Name: Automate Third Party Excavation Incident Reporting (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estima	ites (\$000)					
	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R (2020 Inci	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	0	0	18	19	15	19
Cost Estimate Changes fro GRC forecast is within the R						

GRC Work Unit/Activity Level	I Estimates					
Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	tivities
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 No feasible units Work Unit Changes from RAM GRC forecast is within the RAM		0.00	0.00	0.00	0.00	0.00

Risk Spend Efficiency (RSE)			
	GRC RSE	RAMP RSE	
Tranche 1	127.000	31.000	
RSE Changes from RAMP:			

General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2)

In 2021\$ (000) Incurred Costs

2022

Adjusted-Forecast

2024

2023

Area: GAS SYSTEM STAFF & TECHNOLOGY

Adjusted-Recorded

2021

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Cost Center: VARIOUS

Summary for Category: B. Pipeline Policy

NSE 0 0 0 Total 1,951 1,993 2,343 2,344 FTE 12.5 15.5 17.5 17. Cost Centers belonging to this Category: 2200-0970.000 Policy QA/QC & Effectiveness Labor 159 359 559 55 Non-Labor 434 101 251 25 NSE 0 0 0 0 2 Total 593 460 810 81 55 SECUO-2023.000 Field Technologies Labor 303 </th <th>Labor</th> <th>1,418</th> <th>1,718</th> <th>1,918</th> <th>1,918</th>	Labor	1,418	1,718	1,918	1,918
Total 1,951 1,993 2,343 2,345 FTE 12.5 15.5 17.5 17.5 Cost Centers belonging to this Category: 2200-0970.000 Policy QA/QC & Effectiveness Labor 159 359 559 55 Non-Labor 434 101 251 25 NSE 0 0 0 0 810 81 FTE 1.4 3.4 5.4 5. 5 2200-2023.000 Field Technologies Labor 303 303 303 30 30 Labor 303 303 303 30	Non-Labor	533	275	425	425
FTE 12.5 15.5 17.5 17.5 Cost Centers belonging to this Category: 2200-0970.000 Policy QA/QC & Effectiveness Labor 159 359 559 55 Non-Labor 434 101 251 25 NSE 0 0 0 0 0 Total 593 460 810 81 FTE 1.4 3.4 5.4 5.4 2200-2023.000 Field Technologies Labor 303 303 303 303 303 Non-Labor 72 147 147 147 147 NSE 0 0 0 0 Total 375 450 450 450 FTE 2.9 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 631 631 Non-Labor 23 23 23 23 2 NSE 0 0 0 0 0 0 Total 654 654 654 654 655 FTE 5.3 5.3 5.3 5.3 5.3 2200-2484.000 Leakage Policy & Technologies Labor 4 4 4 4 NSE 0 0 0 0 0 0 Total 654 4 4 4 NSE 0 0 0 0 0 0 Total 655 425 425 425 425 Non-Labor 4 4 4 4 NSE 0 0 0 0 0 0 Total 701 4 4 4 4 NSE 0 0 0 0 0 0 Total 701 4 4 4 4 NSE 0 0 0 0 0 0 Total 701 7.5 701 7.5 705 701 701 701 701 701 701 701 701 701 701	NSE	0	0	0	0
Cost Centers belonging to this Category: 2200-0970.000 Policy QA/QC & Effectiveness	Total	1,951	1,993	2,343	2,343
2200-0970.000 Policy QA/QC & Effectiveness Labor 159 359 559 55 Non-Labor 434 101 251 25 NSE 0 0 0 0 Total 593 460 810 81 FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies 5 5 5 Labor 303 303 303 30 Non-Labor 72 147 147 147 14 NSE 0 0 0 0 0 0 Total 375 450 450 45 45 FTE 2.9 2.9 2.9 2.9 2.9 2.0 2200-2345.000 Gas Operations Construction & Maintenance Staff 631 631 63 63 63 Labor 631 631 631 63 63 63 NSE 0 0 0 0 0 0 0 0 0 0 0 0 0	FTE	12.5	15.5	17.5	17.5
Labor 159 359 559 55 Non-Labor 434 101 251 25 NSE 0 0 0 0 Total 593 460 810 81 FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies 50 303 430 450 450 450 450	Cost Centers belonging	to this Category:			
Non-Labor 434 101 251 25 NSE 0 0 0 0 Total 593 460 810 81 FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies 2 200-2023.000 Field Technologies 2 200-2023.000 Field Technologies 303	2200-0970.000 Policy	QA/QC & Effectiveness			
NSE 0 0 0 Total 593 460 810 81 FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies Labor 303 450 450 450 450 <	Labor	159	359	559	559
Total 593 460 810 81 FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies 2200-2023.000 Field Technologies 303	Non-Labor	434	101	251	251
FTE 1.4 3.4 5.4 5. 2200-2023.000 Field Technologies Labor 303 303 303 30 Non-Labor 72 147 147 14 NSE 0 0 0 0 Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 63 Non-Labor 23 23 23 23 2 2 NSE 0 0 0 0 0 0 65 65 65 65 FTE 5.3 5.3 5.3 5.3 5.5 5 5 5 2	NSE	0	0	0	0
2200-2023.000 Field Technologies Labor 303 303 303 30 Non-Labor 72 147 147 14 NSE 0 0 0 0 Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2. 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 63 63 Non-Labor 23 23 23 23 2 NSE 0 0 0 0 0 Total 654 654 654 655 FTE 5.3 5.3 5.3 5.3 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 425 Non-Labor 4 4 4 4 NSE 0 0 0 0 Total 329 429 429 429 42	Total	593	460		810
Labor 303 303 303 30 Non-Labor 72 147 147 14 NSE 0 0 0 0 Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 Non-Labor 23 23 23 23 2 NSE 0 0 0 0 0 Total 654 654 654 65 FTE 5.3 5.3 5.3 5.3 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 425 Non-Labor 4 4 4 4 4 NSE 0 0 0 0 0 0 Total 329 429 429 429 42	FTE	1.4	3.4	5.4	5.4
Non-Labor 72 147 147 147 NSE 0 0 0 0 Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 63 Labor 631 631 63 23 23 2 NSE 0 0 0 0 0 0 Total 654 654 654 65 65 65 FTE 5.3 5.3 5.3 5.3 5. 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 42 Non-Labor 4 4 4 4 NSE 0 0 0 0 Total 329 429 429 429 42	2200-2023.000 Field Te	echnologies			
NSE 0 0 0 Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2. 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 Non-Labor 23 23 23 2 NSE 0 0 0 0 Total 654 654 654 65 FTE 5.3 5.3 5.3 5. 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 425 Non-Labor 4 4 4 4 4 NSE 0 0 0 0 Total 329 429 429 429 429 429	Labor	303	303	303	303
Total 375 450 450 45 FTE 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 Non-Labor 23 23 23 2 2 NSE 0 0 0 0 0 0 0 0 0 0 0 0 0 5 5 5 5 5 5 2	Non-Labor	72	147	147	147
FTE 2.9 2.9 2.9 2.9 2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 Non-Labor 23 23 23 23 2 NSE 0 0 0 0 0 0 Total 654 654 654 65 65 FTE 5.3 5.3 5.3 5.3 5.3 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 425 42 Non-Labor 4 4 4 4 4 NSE 0 0 0 0 0 0 1 </td <td>NSE</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td>	NSE	0	0	0	0
2200-2345.000 Gas Operations Construction & Maintenance Staff Labor 631 631 631 63 Non-Labor 23 23 23 2 NSE 0 0 0 0 Total 654 654 654 65 FTE 5.3 5.3 5.3 5. 2200-2484.000 Leakage Policy & Technologies 425 425 425 Non-Labor 4 4 4 NSE 0 0 0 Total 329 429 429 429	Total	375	450	450	450
Labor 631 631 631 63 Non-Labor 23 23 23 2 NSE 0 0 0 0 Total 654 654 654 65 FTE 5.3 5.3 5.3 5. 2200-2484.000 Leakage Policy & Technologies 2 425 425 425 Non-Labor 4 4 4 4 NSE 0 0 0 0 Total 329 429 429 429 42	FTE	2.9	2.9	2.9	2.9
Non-Labor 23 23 23 23 2 NSE 0 0 0 0 654 654 654 655 FTE 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.2 2200-2484.000 Leakage Policy & Technologies 425 425 425 425 425 425 425 425 425 425 425 425 426 <t< td=""><td>2200-2345.000 Gas Op</td><td>erations Construction & N</td><td>Maintenance Staff</td><td></td><td></td></t<>	2200-2345.000 Gas Op	erations Construction & N	Maintenance Staff		
NSE 0 0 0 Total 654 654 654 FTE 5.3 5.3 5.3 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 425 Non-Labor 4 4 4 4 NSE 0 0 0 Total 329 429 429 429	Labor	631	631	631	631
Total 654 654 654 654 FTE 5.3 5.3 5.3 5.5 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 42 Non-Labor 4 4 4 4 NSE 0 0 0 0 Total 329 429 429 429	Non-Labor	23	23	23	23
FTE 5.3 5.3 5.3 5.5 2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 42 Non-Labor 4 4 4 NSE 0 0 0 Total 329 429 429 429	NSE	0	0	0	0
2200-2484.000 Leakage Policy & Technologies Labor 325 425 425 42 Non-Labor 4 4 4 NSE 0 0 0 Total 329 429 429 429	Total	654	654	654	654
Labor 325 425 425 42 Non-Labor 4 4 4 NSE 0 0 0 Total 329 429 429 429	FTE	5.3	5.3	5.3	5.3
Non-Labor 4 4 4 NSE 0 0 0 Total 329 429 429 429	2200-2484.000 Leakag	e Policy & Technologies			
NSE 0 0 0 0 Total 329 429 429 429	Labor	325	425	425	425
Total 329 429 429 42	Non-Labor	4	4	4	4
72V 72V 72	NSE	0	0	0	0
FTE 2.9 3.9 3.9 3.		329	429	429	429
	FTE	2.9	3.9	3.9	3.9

Beginning of Workpaper 2200-0970.000 - Policy QA/QC & Effectiveness

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Activity Description:

The Gas Standard Effectiveness Program is responsible for verifying observations are conducted on company operations standards to determine and document the adequacy and effectiveness of procedures. The staff group focuses on the quality assurance and controls required to effectively conduct observations on work being performed by employees, and documenting the observation and edits required for an adequate and effective procedure. The procedures include operating, maintenance, and emergency response procedures used by field operations in the Gas Distribution, Gas Transmission and Storage, Pipeline Integrity, and Gas Engineering organizations. Expenses include labor, employee expenses, non-labor consulting, and materials and services required to develop and maintain the Gas Standard Effectiveness Program.

Units for this workpaper are the number of observations completed. The program was created at the end of 2021. Units are as follows: 2021 - 0; 2022 - 60; 2023 - 135; 2024 - 135.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements and the base year is representative of our expectations for TY 2024. As new regulations continue to be introduced, relevant gas standards and company policies need to be updated to remain in compliance with the changes. This creates incremental workload for this group as they work to confirm the changes to the Gas Standards remain effective. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. Labor adjustments were made to the forecast to plan for the salaries of existing employees that joined the group in a reorganization in 2021.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements and the base year is representative of our expectations for TY 2024. As new regulations continue to be introduced, relevant gas standards and company policies need to be updated to remain in compliance with the changes. This creates incremental workload for this group as they work to ensure the changes to the Gas Standards remain effective. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for estimated non-labor expenses for employee development, training, office equipment, and computers for employees that joined the group in a reorganization in 2021.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor		Adjusted-Forecast						
Years	2017	2018	2019	2022	2023	2024					
Labor	0	0	0	0	159	358	558	558			
Non-Labor	0	0	0	0	434	100	250	250			
NSE	0	0	0	0	0	0	0	0			
Total	0	0	0	0	592	458	808	808			
FTE	0.0	0.0	0.0	0.0	1.4	3.4	5.4	5.4			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
149	432	0	581	1.3	149	432	0	581	1.3	
0	0	0	0	0.0	0	0	0	0	0.0	
9	1	0	10	0.1	209	-332	0	-123	2.1	
158	433	0	591	1.4	358	100	0	458	3.4	
87.61%	87.61%				87.61%	87.61%				
12.39%	12.39%				12.39%	12.39%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast	2024 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
149	432	0	581	1.3	149	432	0	581	1.3
0	0	0	0	0.0	0	0	0	0	0.0
409	-182	0	227	4.1	409	-182	0	227	4.1
558	250	0	808	5.4	558	250	0	808	5.4
87.61%	87.61%				87.61%	87.61%			
12.39%	12.39%				12.39%	12.39%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe (inclusive of both Dist. Main, Dist. Services, and Trans.).

Cost Center Allocation Percentage for 2022

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe (inclusive of both Dist. Main, Dist. Services, and Trans.).

Cost Center Allocation Percentage for 2023

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe (inclusive of both Dist. Main, Dist. Services, and Trans.).

Cost Center Allocation Percentage for 2024

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe (inclusive of both Dist. Main, Dist. Services, and Trans.).

GAS SYSTEM STAFF & TECHNOLOGY Area:

Witness: Wallace E. Rawls B. Pipeline Policy Category:

1. Policy QA/QC & Effectiveness Category-Sub:

2200-0970.000 - Policy QA/QC & Effectiveness Cost Center:

Summary of Adjustments to Forecast:

			In 202	1 \$(000) lı	ncurred Co	sts				
Forecast	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	ted-Forec	ast
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	159	159	159	200	400	400	359	559	559
Non-Labor	Base YR Rec	434	434	434	-333	-183	-183	101	251	251
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	592	592	592	-133	217	217	459	809	809
FTE	Base YR Rec	1.4	1.4	1.4	2.0	4.0	4.0	3.4	5.4	5.4

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	0	5	0	5	0.0	1-Sided Adj	
Explanation:	Non-labor expenses, such	as compute	ers, office equ	ipment, and tr	aining, associ	iated with 4 employees	

transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022.

2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000

2022 200 0 0 200 2.0 1-Sided Adj

Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a

reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in

mid-2022, resulting in a 50% charge in 2022.

2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000

2022 0 -338 0 -338 0.0 1-Sided Adj

Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard

Effectiveness Program to record observations and display key performance indicators.

2022 Total	200	-333	0	-133	2.0		
2023	0	10	0	10	0.0	1-Sided Adj	

Explanation: Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees

transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022.

2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000

2023 400 400 4.0 1-Sided Adj

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Year Labor NLbr NSE Total FTE Adj Type Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2024: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 2023 0 -193 0 -193 0.0 1-Sided Adj Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. 2023 Total 400 -193 0 -193 0.0 1-Sided Adj Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. 2024 0 -193 0 -193 0.0 1-Sided Adj Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000 2024; 4 * \$100k = \$200,00	Cost Center:	2200-0970.000 - Polic	by WAVWC 8	Ellectiveness	•							
reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4	<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type					
Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. 2024	Explanation:	reorganization, at an aver- mid-2022, resulting in a 50 2022: .5 * 4 * \$100k = \$20 2023: 4 * \$100k = \$400,00	reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000									
Effectiveness Program to record observations and display key performance indicators . 2024	2023	0	-193	0	-193	0.0	1-Sided Adj					
Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. 2024 400 0 0 400 4.0 1-Sided Adj Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 2024 0 10 0 10 0.0 1-Sided Adj Explanation: Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	Explanation:											
Explanation: Removed one time incremental funding from 2021 to develope a dashboard for the Gas Standard Effectiveness Program to record observations and display key performance indicators. 2024 400 0 400 4.0 1-Sided Adj Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 Explanation: Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	2023 Total	400	-183	0	217	4.0						
Effectiveness Program to record observations and display key performance indicators . 2024 400 0 400 4.0 1-Sided Adj Explanation: A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 2024 Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	2024	0	-193	0	-193	0.0	1-Sided Adj					
A labor adjustment was made for 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$2,500 = \$5,000 2022: .5 * 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	Explanation:			•	•							
reorganization, at an average of \$100,000/new employee in labor. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$100k = \$200,000 2023: 4 * \$100k = \$400,000 2024: 4 * \$100k = \$400,000 2024 O 10 0 10 0.0 1-Sided Adj Explanation: Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	2024	400	0	0	400	4.0	1-Sided Adj					
Non-labor expenses, such as computers, office equipment, and training, associated with 4 employees transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	Explanation:	reorganization, at an aver- mid-2022, resulting in a 50 2022: .5 * 4 * \$100k = \$20 2023: 4 * \$100k = \$400,00	age of \$100 0% charge i 00,000 00	,000/new emp	•							
transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000 2024: 4 * \$2,500 = \$10,000	2024	0	10	0	10	0.0	1-Sided Adj					
2024 Total 400 -183 0 217 4.0	Explanation:	transitioning to this cost center as a result of a reorganization, at an average of \$2,500/existing employee. These employees will transfer in mid-2022, resulting in a 50% charge in 2022. 2022: .5 * 4 * \$2,500 = \$5,000 2023: 4 * \$2,500 = \$10,000										
	2024 Total	400	-183	0	217	4.0						

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Adjusted-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	135
Non-Labor	0	0	0	0	434
NSE	0	0	0	0	0
Total	0	0	0	0	569
FTE	0.0	0.0	0.0	0.0	1.1
Adjustments (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	
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	0	135
Non-Labor	0	0	0	0	434
NSE	0	0	0	0	0
Total	0	0	0	0	568
FTE	0.0	0.0	0.0	0.0	1.2
/acation & Sick (Nominal \$)					
Labor	0	0	0	0	24
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	24
FTE	0.0	0.0	0.0	0.0	0.2
Escalation to 2021\$					
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 (Consta	nt 2021\$)				
Labor	0	0	0	0	159
Non-Labor	0	0	0	0	434
NSE	0	0	0	0	0
Total	0	0		0	592
FTE	0.0	0.0	0.0	0.0	1.4

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 1. Policy QA/QC & Effectiveness

Cost Center: 2200-0970.000 - Policy QA/QC & Effectiveness

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	0	0					
Non-Labor		0	0	0	0	-0.200					
NSE		0	0	0	0	0					
	Total		0	0 -	0 -	-0.200					
FTE		0.0	0.0	0.0	0.0	0.0					

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Lab</u>	or <u>NLb</u>	r <u>NSE</u>	<u>FTE</u>	Adj Type
2017 Total		0 0	0	0.0	
2018 Total		0 0	0	0.0	
2019 Total		0 0	0	0.0	
2020 Total		0 0	0	0.0	
2021		0 0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-relate Catastrophic Event Memo			requested for	or recovery through a non-GRC
2021 Total		0 0	0	0.0	

Beginning of Workpaper 2200-2023.000 - Field Technologies

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. Pipeline Policy

Category-Sub 2. Field Technologies

Cost Center: 2200-2023.000 - Field Technologies

Activity Description:

Field Technologies is responsible for the labor, employee expense, tools, equipment, materials, and services required to research and evaluate new tools, equipment, and technology that enhances or replaces existing tools and equipment used by field operations personnel. The cost center also includes the cost for maintenance of the standards pertaining to the use of those tools and equipment. The Field Technologies team and operating practices provide benefits in the form of improved safety, efficiency, and reliability. This team helps mitigate risks associated with potential tool failure or the use of obsolete equipment. Field Technologies supports Field Operations by conducting tool and equipment instruction, training, and deployment to help employees become proficient in the use of new and existing tools and equipment.

Units for this workpaper are the number of projects completed. Units are as follows: 2021 - 20; 2022 - 18; 2023 - 12; 2024 - 12.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years and the base year is representative of our expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as AB 1346, and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for a new non-labor expense expected in 2022 - 2024, for a contractor working in the warehouse for receiving, tagging, and preparing tools and equipment as well as the cost to procure, test, and report on new tools and new equipment to be used by Field Employees in Operations.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs								
		Adju	ısted-Recor		Adjusted-Forecast					
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	207	142	227	214	303	304	304	304		
Non-Labor	5	3	8	11	72	147	147	147		
NSE	0	0	0	0	0	0	0	0		
Total	211	144	235	225	375	451	451	451		
FTE	1.8	1.2	2.0	1.8	2.9	2.9	2.9	2.9		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. Pipeline Policy

Category-Sub: 2. Field Technologies

Cost Center: 2200-2023.000 - Field Technologies

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreq

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast						
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE		
165	-1	0	164	1.6	165	-1	0	164	1.6		
0	0	0	0	0.0	0	0	0	0	0.0		
139	73	0	212	1.3	139	148	0	287	1.3		
304	72	0	376	2.9	304	147	0	451	2.9		
86.62%	86.62%				86.62%	86.62%					
13.38%	13.38%				13.38%	13.38%					
0.00%	0.00%				0.00%	0.00%					
0.00%	0.00%				0.00%	0.00%		-			

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast		2024 Adjusted-Forecast						
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE		
165	-1	0	164	1.6	165	-1	0	164	1.6		
0	0	0	0	0.0	0	0	0	0	0.0		
139	148	0	287	1.3	139	148	0	287	1.3		
304	147	0	451	2.9	304	147	0	451	2.9		
86.62%	86.62%				86.62%	86.62%					
13.38%	13.38%				13.38%	13.38%					
0.00%	0.00%	•		·	0.00%	0.00%	•		•		
0.00%	0.00%				0.00%	0.00%					

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2022

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2023

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2024

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: B. Pipeline Policy

Category-Sub: 2. Field Technologies

Cost Center: 2200-2023.000 - Field Technologies

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast	Forecast Method		se Foreca	orecast Forecast Adjustments Adjusted			ted-Forec	ed-Forecast			
Years	5	2022	2022 2023 2024		2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	303	303	303	0	0	0	303	303	303	
Non-Labor	Base YR Rec	72	72	72	75	75	75	147	147	147	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	I	375	375	375	75	75	75	450	450	450	
FTE	Base YR Rec	2.9	2.9	2.9	0.0	0.0	0.0	2.9	2.9	2.9	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	0	75	0	75	0.0	1-Sided Adj	

Explanation:

New non-labor expense expected in 2022 - 2024 for a contractor working in the warehouse for receiving, tagging, and preparing tools and equipment as well as the cost to procure, test, and report on new tools and new equipment to be used by field employees in operations. Cost is based on the contract with the contracting firm.

2022 Total	0	75	0	75	0.0	
2023	0	75	0	75	0.0	1-Sided Adj

Explanation:

New non-labor expense expected in 2022 - 2024 for a contractor working in the warehouse for receiving, tagging, and preparing tools and equipment as well as the cost to procure, test, and report on new tools and new equipment to be used by field employees in operations. Cost is based on the contract with the contracting firm.

2023 Total	0	75	0	75	0.0		
2024	0	75	0	75	0.0	1-Sided Adj	
Explanation:	New non-labor expense	expected in 202	22 - 2024 for	a contractor v	vorkina in the	warehouse for	

receiving, tagging, and preparing tools and equipment as well as the cost to procure, test, and report on new tools and new equipment to be used by field employees in operations. Cost is based on the contract with the contracting firm.

2024 Total	0	75	0	75	0.0	
2024 IOlai	U	7.5	U	13	0.0	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy
Category-Sub: 2. Field Technologies

Cost Center: 2200-2023.000 - Field Technologies

Determination of Adjusted-Recorded (Incurred Costs):

,	i-Recorded (incurred Cos 2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
ecorded (Nominal \$)*					
Labor	160	112	181	174	258
Non-Labor	4	2	7	11	73
NSE	0	0	0	0	0
Total	164	114	188	186	331
FTE	1.5	1.0	1.7	1.6	2.4
ljustments (Nominal \$) **	•				
Labor	0	0	0	0	0
Non-Labor	0	0	0	-1	-1
NSE	0	0	0	0	0
Total	0	0	0	-1	-1
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Nomin	nal \$)				
Labor	160	112	181	174	258
Non-Labor	4	2	7	10	72
NSE	0	0	0	0	0
Total	164	114	188	185	329
FTE	1.5	1.0	1.7	1.5	2.4
cation & Sick (Nominal \$	S)				
Labor	27	19	34	31	46
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	27	19	34	31	46
FTE	0.3	0.2	0.3	0.3	0.5
scalation to 2021\$					
Labor	20	11	12	9	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	20	11	13	9	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Const	ant 2021\$)				
Labor	207	142	227	214	303
Non-Labor	5	3	8	11	72
NSE	0	0	0	0	0
Total	211	144	235	225	375
FTE	1.8	1.2	2.0	1.8	2.9

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy
Category-Sub: 2. Field Technologies

Cost Center: 2200-2023.000 - Field Technologies

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor		0	0	0	0	0					
Non-Labor		0	0	0	-1	-1					
NSE		0	0	0	0	0					
	Total	0	0	0	-1	-1					
FTE		0.0	0.0	0.0	0.0	0.0					

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type
2017 Total	0	0	0	0.0	
2018 Total	0	0	0	0.0	
2019 Total	0	0	0	0.0	
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested for	or recovery through a non-GRC
2020 Total	0	-1	0	0.0	
2021	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested for	or recovery through a non-GRC
2021 Total	0	-1	0	0.0	

Beginning of Workpaper 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub 3. Gas Operations Construction & Maintenance Staff

Cost Center: 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Activity Description:

Gas Operations Construction and Maintenance Staff develop and maintain policies required for gas operations, construction, and maintenance. The staff group focuses on the creation and maintenance of company operations standards for safe and reliable operation, emergency response, construction and maintenance of high and medium pressure pipelines and associated systems. They are responsible for manuals, policies, and Gas Operations Information Bulletins shared between SoCalGas and SDG&E.

Units for this workpaper are the number of policy reviews completed. Units are as follows: 2021 - 45; 2022 - 35; 2023 - 45; 2024 - 40.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the updated Gas Standards to remain in compliance with 49 CFR Part 192, and the base year is representative of our expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This method is most appropriate because this activity has changed in recent years due to new regulatory requirements, such as the updated Gas Standards to remain in compliance with 49 CFR Part 192, and the base year is representative of our expectations for TY 2024.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

[In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor		Ad	cast						
Years	2017	2018	2019	2022	2023	2024						
Labor	582	944	795	704	631	631	631	631				
Non-Labor	727	6	20	22	23	23	23	23				
NSE	0	0	0	0	0	0	0	0				
Total	1,309	951	815	726	654	654	654	654				
FTE	4.8	8.0	6.9	5.8	5.3	5.3	5.3	5.3				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 3. Gas Operations Construction & Maintenance Staff

Cost Center: 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreq

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast						
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE		
55	0	0	55	0.4	55	0	0	55	0.4		
0	0	0	0	0.0	0	0	0	0	0.0		
576	23	0	599	4.9	576	23	0	599	4.9		
631	23	0	654	5.3	631	23	0	654	5.3		
86.62%	86.62%				86.62%	86.62%					
13.38%	13.38%				13.38%	13.38%					
0.00%	0.00%				0.00%	0.00%					
0.00%	0.00%				0.00%	0.00%					

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast			2024 Adjı	sted-Fore	cast	
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
55	0	0	55	0.4	55	0	0	55	0.4
0	0	0	0	0.0	0	0	0	0	0.0
576	23	0	599	4.9	576	23	0	599	4.9
631	23	0	654	5.3	631	23	0	654	5.3
86.62%	86.62%				86.62%	86.62%			
13.38%	13.38%				13.38%	13.38%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2022

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2023

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2024

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 3. Gas Operations Construction & Maintenance Staff

Cost Center: 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs													
Forecast Method Base Forecast				st	Forec	ast Adjust	ments	Adjusted-Forecast						
Years	s	2022	2023	2024	2022	2023	2024	2022 2023 20						
Labor	Base YR Rec	631	631	631	0	0	0	631	631	631				
Non-Labor	Base YR Rec	23	23	23	0	0	0	23	23	23				
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0				
Total		654	654	654	0	0	0	654	654	654				
FTE Base YR Rec		5.3	5.3	5.3	0.0	0.0	0.0	5.3	5.3	5.3				

<u>Year Labor NLbr NSE Total FTE</u>	Adj Type	
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Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 3. Gas Operations Construction & Maintenance Staff

Cost Center: 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-P	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	450	745	632	574	536
Non-Labor	657	6	19	23	25
NSE	0	0	0	0	0
Total	1,107	751	651	597	561
FTE	4.1	6.8	5.8	4.9	4.4
djustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-1	-2
NSE	0	0	0	0	0
Total	0	0	0	-2	-2
FTE	0.0	0.0	0.0	-0.1	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	450	745	632	574	536
Non-Labor	657	6	19	22	23
NSE	0	0	0	0	0
Total	1,107	751	651	595	560
FTE	4.1	6.8	5.8	4.8	4.4
/acation & Sick (Nominal \$)					
Labor	76	128	120	101	95
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	76	128	120	101	95
FTE	0.7	1.2	1.1	1.0	0.9
scalation to 2021\$					
Labor	56	71	43	29	0
Non-Labor	70	0	1	1	0
NSE	0	0	0	0	0
Total	126	72	44	30	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2021\$)				
Labor	582	944	795	704	631
Non-Labor	727	6	20	22	23
NSE	0	0	0	0	0
Total	1,309	951	815	726	654
FTE	4.8	8.0	6.9	5.8	5.3

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 3. Gas Operations Construction & Maintenance Staff

Cost Center: 2200-2345.000 - Gas Operations Construction & Maintenance Staff

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs											
	Years 2017 2018 2019 2020 2021											
Labor		0	0	0	-0.352	0						
Non-Labor		0	0	0	-1	-2						
NSE		0	0	0	0	0						
Total 0 0 0 -2 -2												
FTE		0.0	0.0	0.0	-0.1	0.0						

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2017 Total	0	0	0	0.0	
2018 Total	0	0	0	0.0	
2019 Total	0	0	0	0.0	
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC
2020	0	0	0	-0.1	CCTR Transf To 2200-2011.002
Explanation:	Transfer costs to GOSI CC	2200-2011.002 re	lated to SB13	871 (BLM) E	missions Strategy Program
2020 Total	0	-1	0	-0.1	
2021	0	-2	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested f	or recovery through a non-GRC
2021 Total	0	-2	0	0.0	

Beginning of Workpaper 2200-2484.000 - Leakage Policy & Technologies

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub 4. Leakage Policy & Technology

Cost Center: 2200-2484.000 - Leakage Policy & Technologies

Activity Description:

Leakage Policy & Technologies develop and maintain policies required for gas operations, maintenance, and emergency response related to leakage detection, identification, mitigation, and pipeline patrol. The staff group focuses on the creation and maintenance of company operations standards for safe and reliable operation, emergency response, and maintenance leak detecting equipment and leak investigation.

Units for this workpaper are the number of policy reviews completed. Units are as follows: 2021 - 16; 2022 - 16; 2023 - 12; 2024 - 12.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Continuous improvement opportunities identified during incident evaluations in recent years have created opportunities to update training material as well as the notice of publication (NOP) courses for the leak mitigation company operations standards. As a result, this forecast method is most appropriate because this activity has changed in recent years and the base year is representative of our expectations for TY 2024. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made to adjust the forecast to accommodate an additional employee that was hired beginning of 2022.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. Continuous improvement opportunities identified during incident evaluations in recent years have created opportunities to update training material as well as the notice of publication (NOP) courses for the leak mitigation company operations standards. As a result, this method is most appropriate because this activity has changed in recent years and the base year is representative of our expectations for TY 2024.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs										
		Adjι	ısted-Recor		Adjusted-Forecast							
Years	2017	2018	2019	2022	2023	2024						
Labor	0	0	0	159	325	426	426	426				
Non-Labor	0	0	0	3	4	4	4	4				
NSE	0	0	0	0	0	0	0	0				
Total	0	0	0	162	329	430	430	430				
FTE	0.0	0.0	0.0	1.4	2.9	3.9	3.9	3.9				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 4. Leakage Policy & Technology

Cost Center: 2200-2484.000 - Leakage Policy & Technologies

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreq

	2021 Adju	sted-Reco	rded			2022 Adjı	usted-Fore	cast	
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
19	1	0	20	0.1	19	1	0	20	0.1
0	0	0	0	0.0	0	0	0	0	0.0
307	3	0	310	2.8	407	3	0	410	3.8
326	4	0	330	2.9	426	4	0	430	3.9
86.62%	86.62%				86.62%	86.62%			
13.38%	13.38%				13.38%	13.38%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

		2023 Adju	sted-Fore	cast			2024 Adjı	usted-Fore	cast	
L	abor .	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
	19	1	0	20	0.1	19	1	0	20	0.1
	0	0	0	0	0.0	0	0	0	0	0.0
	407	3	0	410	3.8	407	3	0	410	3.8
	426	4	0	430	3.9	426	4	0	430	3.9
8	36.62%	86.62%				86.62%	86.62%			
1	13.38%	13.38%				13.38%	13.38%			
	0.00%	0.00%				0.00%	0.00%			
	0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2022

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2023

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Cost Center Allocation Percentage for 2024

All calculations are based on the miles of pipeline in SoCalGas vs. the miles of pipline in SDG&E.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 4. Leakage Policy & Technology

Cost Center: 2200-2484.000 - Leakage Policy & Technologies

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecas	Forecast Method Base Forecast				Forec	ast Adjust	ments	Adjusted-Forecast				
Years	2022 2023 2024			2024	2022	2023	2024	2022	2023	2024		
Labor	Base YR Rec	325	325	325	100	100	100	425	425	425		
Non-Labor	Base YR Rec	4	4	4	0	0	0	4	4	4		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Tota	ıl	329	329	329	100	100	100	429	429	429		
FTE	Base YR Rec	2.9	2.9	2.9	1.0	1.0	1.0	3.9	3.9	3.9		

Forecast Adjustment Details:

Forecast Adjustn	nent Details.						
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	100	0	0	100	1.0	1-Sided Adj	
Explanation:	A labor adjustment was raverage of \$100,000/nev			employees hi	red at the beg	inning of 2022, at an	
2022 Total	100	0	0	100	1.0		
2023	100	0	0	100	1.0	1-Sided Adj	
Explanation:	A labor adjustment was raverage of \$100,000/nev			employees hi	red at the beg	inning of 2022, at an	
2023 Total	100	0	0	100	1.0		
2024	100	0	0	100	1.0	1-Sided Adj	
Explanation:	A labor adjustment was r average of \$100,000/nev			employees hi	red at the beg	inning of 2022, at an	
2024 Total	100	0	0	100	1.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 4. Leakage Policy & Technology

Cost Center: 2200-2484.000 - Leakage Policy & Technologies

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	34	0	129	277
Non-Labor	0	1	1	4	5
NSE	0	0	0	0	0
Total	0	34	1	134	281
FTE	0.0	0.3	0.0	1.2	2.5
Adjustments (Nominal \$) **					
Labor	0	-34	0	0	0
Non-Labor	0	0	0	-1	-1
NSE	0	0	0	0	0
Total	0	-34	0	<u>-1</u>	<u>-1</u>
FTE	0.0	-0.3	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	129	277
Non-Labor	0	0	0	3	4
NSE	0	0	0	0	0
Total	0	0	0	133	280
FTE	0.0	0.0	0.0	1.2	2.5
/acation & Sick (Nominal \$)					
Labor	0	0	0	23	49
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	23	49
FTE	0.0	0.0	0.0	0.2	0.4
Escalation to 2021\$					
Labor	0	0	0	6	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	nt 2021\$)				
Labor	0	0	0	159	325
Non-Labor	0	0	0	3	4
NSE	0	0	0	0	0
Total	0	0	0	162	329
FTE	0.0	0.0	0.0	1.4	2.9

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: B. Pipeline Policy

Category-Sub: 4. Leakage Policy & Technology

Cost Center: 2200-2484.000 - Leakage Policy & Technologies

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs											
	Years	2017	2018	2019	2020	2021						
Labor		0	-34	0	0	0						
Non-Labor		0	-0.450	-0.200	-0.913	-0.975						
NSE		0	0	0	0	0						
	Total	0	-34	-0.200	-0.913	-0.975						
FTE		0.0	-0.3	0.0	0.0	0.0						

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adi Type						
2017 Total	0	0	0	0.0	7.001 1780						
			•								
2018	-34	0	0	-0.3	CCTR Transf To 2200-0317.000						
Explanation:	Adjustment to transfer costs from GOSI CC 2200-2484 to PSEP CC 2200-0317 (WP 2PS000.001) related to incorrectly coded charges.										
2018 Total	-34	0	0	-0.3							
2019	0	0	0	0.0	CCTR Transf To 2200-0317.000						
Explanation:	Adjustment to transfer costs incorrectly coded charges.	Adjustment to transfer costs from GOSI CC 2200-2484 to PSEP CC 2200-0317 (WP 2PS000.001) related to incorrectly coded charges.									
2019 Total	0	0	0	0.0							
2020	0	-1	0	0.0	1-Sided Adj						
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	requested for	or recovery through a non-GRC						
2020 Total	0	-1	0	0.0							
2021	0	-1	0	0.0	1-Sided Adj						
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).										
2021 Total	0	-1	0	0.0							

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

C. Operator Qualification Category:

2200-2344.000 Cost Center:

Summary for Category: C. Operator Qualification

		In 2021\$ (000) Inci	urred Costs					
	Adjusted-Recorded	Adjusted-Forecast						
	2021	2022	2023	2024				
Labor	1,746	2,002	2,258	2,558				
Non-Labor	166	505	443	485				
NSE	0	0	0	0				
Total	1,912	2,507	2,701	3,043				
FTE	15.8	20.3	21.1	24.1				
ــ Centers belonginç	g to this Category:							
-2344.000 Operate	or Qualification							

Cost C

2200-2344.000 Operator Qualification

Labor	1,746	2,002	2,258	2,558
Non-Labor	166	505	443	485
NSE	0	0	0	0
Total	1,912	2,507	2,701	3,043
FTE	15.8	20.3	21.1	24.1

Beginning of Workpaper 2200-2344.000 - Operator Qualification

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

Activity Description:

The Operator Qualification department is responsible for scheduling qualification activities, reviewing and auditing contractor qualification programs, keeping qualification records, managing qualification records, monitoring records for possible compliance issues, evaluating the program for any deficiencies, and making changes and enhancements to the Operator Qualification Program, as mandated by Title 49 of the Code of Federal Regulations (49 CFR Part 192, subpart N) and G.O. 112-F. The Operator Qualifications Program continues to evolve to better align with industry leading practices, recommendations by Commission auditors and incorporate process improvements which enhance program efficacy and integrity. This includes adding new qualification processes or covered tasks, developing qualification materials, updating the electronic testing and record keeping process. The Operator Qualifications Department (OQ) has initiated 33 task interval changes, reducing the requalification intervals from 5 years to 3 years. OQ is expanding the quantity of identified covered tasks in its OQ program. The Operator Qualification Department is increasing the frequency and quantity of Contractor Oversight initiatives with respect to their qualification programs and requalification of employees when tasks are suspended or disqualified.

Units for this cost center are the number of operator qualification evaluations performed on or for both employees and contractors. Units are as follows: 2019 - 3,300; 2020 - 3,041; 2021 - 3,644; 2022 - 3739; 2023 - 5,254; 2024 - 6,189.

Forecast Explanations:

Labor - 3-YR Average

The forecast method developed for this cost category is 3-year average. This method is most appropriate because there are many types of work being performed in this activity that individually consist of different labor rates, tools, and materials and is significantly influenced by external factors such as the number of evaluations needed and compliance requirements. Therefore, an average is the most appropriate forecast method. Recently, the Operator Qualification Department has initiated 33 task interval changes, reducing the requalification intervals from 5 years to 3 years. This significant change requires additional incremental employees to manage the increase in requalification frequencies for the respective covered tasks. As such, a 3-year average forecasting method is more accurate than a 5-year since the task interval changes have taken place in recent years. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A labor adjustment was made for additional incremental employees, including additional evaluators, SMEs, and oversight specialists to accommodate for increasing workloads.

Non-Labor - 3-YR Average

The forecast method developed for this cost category is 3-year average. This method is most appropriate because there are many types of work being performed in this activity that individually consist of different labor rates, tools, and materials and is significantly influenced by external factors such as the number of evaluations needed and compliance requirements. Therefore, an average is the most appropriate forecast method. Recently, the Operator Qualification Department has initiated 33 task interval changes, reducing the requalification intervals from 5 years to 3 years. This significant change requires additional incremental employees to manage the increase in requalification frequencies for the respective covered tasks. As such, a 3-year average forecasting method is more accurate than a 5-year since the task interval changes have taken place in recent years. Adjustments were made to the forecast to accommodate anticipated growth between the base year and test year. A non-labor adjustment was made to accommodate for a new Operator Qualification IT system subscription fee and the estimated non-labor expenses for employee development, training, office equipment, and computers for incremental employees.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

NSE - 3-YR Average

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs										
		Adju	ısted-Recor		Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024				
Labor	1,309	1,255	1,606	1,324	1,746	2,002	2,258	2,558				
Non-Labor	149	388	167	401	166	504	442	484				
NSE	0	0	0	0	0	0	0	0				
Total	1,458	1,643	1,773	1,725	1,912	2,506	2,700	3,042				
FTE	12.4	11.4	14.8	11.6	15.8	20.3	21.1	24.1				

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2021 Adju	sted-Reco	rded		2022 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
85	17	0	102	0.8	28	35	0	63	0.3	
0	0	0	0	0.0	0	0	0	0	0.0	
1,661	149	0	1,810	15.0	1,974	469	0	2,443	20.0	
1,746	166	0	1,912	15.8	2,002	504	0	2,506	20.3	
86.62%	86.62%				86.62%	86.62%				
13.38%	13.38%				13.38%	13.38%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast		2024 Adjusted-Forecast					
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
28	35	0	63	0.3	28	35	0	63	0.3	
0	0	0	0	0.0	0	0	0	0	0.0	
2,230	407	0	2,637	20.8	2,530	449	0	2,979	23.8	
2,258	442	0	2,700	21.1	2,558	484	0	3,042	24.1	
86.62%	86.62%				86.62%	86.62%				
13.38%	13.38%				13.38%	13.38%				
0.00%	0.00%			·	0.00%	0.00%			·	
0.00%	0.00%				0.00%	0.00%				

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the miles of pipe covered between SoCalGas and SDG&E Distribution and Transmission.

Cost Center Allocation Percentage for 2022

All calculations are based on the miles of pipe covered between SoCalGas and SDG&E Distribution and Transmission.

Cost Center Allocation Percentage for 2023

All calculations are based on the miles of pipe covered between SoCalGas and SDG&E Distribution and Transmission.

Cost Center Allocation Percentage for 2024

All calculations are based on the miles of pipe covered between SoCalGas and SDG&E Distribution and Transmission.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecast Method Base Forecast			Forec	ast Adjust	ments	Adjusted-Forecast						
Years	Years 2022 2023 2024			2024	2022	2023	2024	2022	2023	2024		
Labor	3-YR Average	1,558	1,558	1,558	444	700	1,000	2,002	2,258	2,558		
Non-Labor	3-YR Average	245	245	245	260	198	240	505	443	485		
NSE	3-YR Average	0	0	0	0	0	0	0	0	0		
Tota	ıl	1,803	1,803	1,803	704	898	1,240	2,507	2,701	3,043		
FTE	3-YR Average	14.1	14.1	14.1	6.2	7.0	10.0	20.3	21.1	24.1		

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	400	56	0	456	4.0	1-Sided Adj	

Explanation:

A labor adjustment was made for the incremental Operator Qualification evaluators . 4 incremental employees are planned to be hired in 2022, 3 incremental employees planned to be hired in 2023, and 3 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor.

2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000

Non-labor expenses for new operator qualification evaluators. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, travel expenses, office equipment, computers, etc. These costs average \$14,000 annually per employee with a rental vehicle based on historical incurred costs for the evaluators.

2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000 2024: 12 * \$14k = \$140,000

2022	91	10	0	101	0.9	1-Sided Adj		
Explanation:	RAMP mitigation: Locate and Mark Operator Qualification (MP)							
2022	22	2	0	24	2.0	1-Sided Adj		
Explanation:	RAMP mitigation: Locate and Mark Operator Qualification (HP)							
2022	-91	-10	0	-101	-0.9	1-Sided Adj		
Explanation:	RAMP dollar removal associated with: Locate and Mark Operator Qualification (MP)							
2022	22	2	0	24	0.2	1-Sided Adj		
Explanation:	RAMP dollar removal associated with: Locate and Mark Operator Qualification (HP)							
2022	0	200	0	200	0.0	1-Sided Adj		
Explanation:	Third party Operator Qualification IT system subscription fee							
2022 Total	444	260	0	704	6.2			
2023	700	98	0	798	7.0	1-Sided Adj		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

2200-2344.000 - Operator Qualification							
<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
A labor adjustment was made for the incremental Operator Qualification evaluators. 4 incremental employees are planned to be hired in 2022, 3 incremental employees planned to be hired in 2023, and 3 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. 2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000 Non-labor expenses for new operator qualification evaluators. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, travel expenses, office equipment, computers, etc. These costs average \$14,000 annually per employee with a rental vehicle based on historical incurred costs for the evaluators. 2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000							
					1-Sided Adj		
			•				
		•		0.9	1-Sided Adj		
_			, ,	0.2	1-Sided Adj		
				0.2	1-Sided Adj		
_	•		, ,	_n a	1-Sided Adj		
		•			•		
			•		1-Sided Adj		
		stem subscri					
700	198	0	898	7.0			
1 000	140	0	1 140	10.0	1-Sided Adj		
A labor adjustment was made for the incremental Operator Qualification evaluators . 4 incremental employees are planned to be hired in 2022, 3 incremental employees planned to be hired in 2023, and 3 incremental employees planned to be hired in 2024, at an average of \$100,000/new employee in labor. 2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000 Non-labor expenses for new operator qualification evaluators. Expenses include rental vehicles, fuel for rental vehicles, employee development, training, travel expenses, office equipment, computers, etc. These costs average \$14,000 annually per employee with a rental vehicle based on historical incurred costs for the evaluators. 2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000 2024: 12 * \$14k = \$140,000							
	Labor A labor adjustment was a employees are planned a sincremental employees labor. 2022: 4 * \$100k = \$400,02023: 7 * \$100k = \$700,02024: 10 * \$100k = \$1,000 Non-labor expenses for a rental vehicles, employees the evaluators. 2022: 4 * \$14k = \$56,000,02023: 7 * \$14k = \$98,000,02024: 12 * \$14k = \$140,000 RAMP dollar removal as 91 RAMP mitigation: Locate 91 RAMP dollar removal as 0 Third party Operator Quantity Operator Oper	Labor NLbr A labor adjustment was made for the in employees are planned to be hired in 2 3 incremental employees planned to be labor. 2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000 Non-labor expenses for new operator of rental vehicles, employee development These costs average \$14,000 annually costs for the evaluators. 2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000 2024: 12 * \$14k = \$140,000 -22	A labor adjustment was made for the incremental O employees are planned to be hired in 2022, 3 increr 3 incremental employees planned to be hired in 2022 labor. 2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000 Non-labor expenses for new operator qualification erental vehicles, employee development, training, tra These costs average \$14,000 annually per employer costs for the evaluators. 2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000 2024: 12 * \$14k = \$140,000 -22 -3 0 RAMP dollar removal associated with: Locate and I 91 10 0 RAMP mitigation: Locate and Mark Operator Qualification: Locate and I 0 100 0 RAMP dollar removal associated with: Locate and I 0 100 0 A labor adjustment was made for the incremental Operator Qualification: Locate and I 1000 0 140 0 A labor adjustment was made for the incremental Operator Qualification: Locate and I 1000 0 140 00 A labor adjustment was made for the incremental Operator Qualification: Locate and I 1000 0 1000	A labor adjustment was made for the incremental Operator Qualificemployees are planned to be hired in 2022, 3 incremental employes 3 incremental employees planned to be hired in 2024, at an averal labor. 2022: 4 * \$100k = \$400,000 2023: 7 * \$100k = \$700,000 2024: 10 * \$100k = \$1,000,000 Non-labor expenses for new operator qualification evaluators. Exprental vehicles, employee development, training, travel expenses, These costs average \$14,000 annually per employee with a rental costs for the evaluators. 2022: 4 * \$14k = \$56,000 2023: 7 * \$14k = \$98,000 2024: 12 * \$14k = \$140,000 -22	A labor adjustment was made for the incremental Operator Qualification evaluate employees are planned to be hired in 2022, 3 incremental employees planned to 1 2022, 3 incremental employees planned to 1 2022; 4 * \$100k = \$400,000 2023; 7 * \$100k = \$700,000 2024; 10 * \$100k = \$700,000 2024; 10 * \$100k = \$1,000,000 2024; 10 * \$100k = \$14,000 annually per employee with a rental vehicle base costs for the evaluators. 2022; 4 * \$14k = \$56,000 2023; 7 * \$14k = \$98,000 2024; 12 * \$14k = \$140,000 2022; 20 2024; 12 * \$14k = \$140,000 2022; 20 2024; 12 * \$14k = \$140,000 2022; 20 2024;		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
2024	-91	-10	0	-101	-0.9	1-Sided Adj		
Explanation:	RAMP dollar removal associated with: Locate and Mark Operator Qualification (MP)							
2024	91	10	0	101	0.9	1-Sided Adj		
Explanation:	RAMP mitigation: Locate and Mark Operator Qualification (MP)							
2024	22	2	0	24	0.2	1-Sided Adj		
Explanation:	RAMP mitigation: Locate and Mark Operator Qualification (HP)							
2024	-22	-2	0	-24	-0.2	1-Sided Adj		
Explanation:	RAMP dollar removal associated with: Locate and Mark Operator Qualification (HP)							
2024	0	100	0	100	0.0	1-Sided Adj		
Explanation:	Third party Operator Qualification IT system subscription fee							
2024 Total	1,000	240	0	1,240	10.0			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-N	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,012	990	1,277	1,081	1,484
Non-Labor	134	359	158	391	171
NSE	0	0	0	0	0
Total	1,146	1,349	1,435	1,472	1,655
FTE	10.5	9.7	12.4	9.8	13.3
djustments (Nominal \$) **					
Labor	0	0	0	-1	0
Non-Labor	0	0	0	-6	-5
NSE	0	0	0	0	0
Total	0	0	0	-7	-5
FTE	0.0	0.0	0.0	-0.1	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	1,012	990	1,277	1,079	1,484
Non-Labor	134	359	158	385	166
NSE	0	0	0	0	0
Total	1,146	1,349	1,435	1,464	1,650
FTE	10.5	9.7	12.4	9.7	13.3
acation & Sick (Nominal \$)					
Labor	171	170	242	190	262
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	171	170	242	190	262
FTE	1.9	1.7	2.4	1.9	2.5
scalation to 2021\$					
Labor	126	95	87	54	0
Non-Labor	14	29	9	16	0
NSE	0	0	0	0	0
Total	140	124	96	71	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2021\$)				
Labor	1,309	1,255	1,606	1,324	1,746
Non-Labor	149	388	167	401	166
NSE	0	0	0	0	0
Total	1,458	1,643	1,773	1,725	1,912
FTE	12.4	11.4	14.8	11.6	15.8

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		0	0	0	-1	0
Non-Labor		0	0	0	-6	-5
NSE		0	0	0	0	0
	Total	0	0	0 -	-7	-5
FTE		0.0	0.0	0.0	-0.1	0.0

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	
2017 Total	0	0	0	0.0		
2018 Total	0	0	0	0.0		
2019 Total	0	0	0	0.0		
2020	0	-6	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memora		•	e requested t	for recovery through a non-GRC	
2020	-1	0	0	-0.1	CCTR Transf To 2200-2011.000	
Explanation:	Transfer costs to GOSI CC	2200-2011.000 re	lated to SB13	871 (BNE) E	missions Strategy Program	
2020 Total	-1	-6	0	-0.1		
2021	0	-5	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA).					
2021 Total	0	-5	0	0.0		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C07

RAMP Line Item Name: Locate and Mark Operator Qualification (MP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

					2024	4
	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	RAMP R	ange
					(2020 Inc	urred \$)
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	101	101	101	101	120	145

Cost Estimate Changes from RAMP:

The GRC forecast is outside the RAMP range due to forecast updates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of employees or contractors supported	1.00	1.00	1.00	1.00	1.00	1.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

An RSE was not calculated for this activity. General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2)

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: C. Operator Qualification
Category-Sub: 1. Operator Qualification

Cost Center: 2200-2344.000 - Operator Qualification

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-2 Excavation Damage (Dig-In) on the Gas System

RAMP Line Item ID: C08

RAMP Line Item Name: Locate and Mark Operator Qualification (HP)

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estimates (\$000)

					2024	ı
	2021 Historical	2022	2023	2024	RAMP R	ange
	Embedded Cost	Forecast	Forecast	Forecast	(2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	24	24	24	24	22	28

Cost Estimate Changes from RAMP:

GRC forecast is within the RAMP range

GRC Work Unit/Activity Level Estimates

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 # of employees or contractors supported	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

GRC forecast is within the RAMP range. The units for this control are included in SCG-Risk-2: C07 - Locate and Mark Operator Qualification (MP)

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

An RSE was not calculated for this activity. General changes to risks scores or RSE values are primarily due to changes in the MAVF and RSE methodology, as discussed in the RAMP to GRC Integration testimony of R. Scott Pearson and Gregory S. Flores (Ex. SCG-03/SDG&E-03, Chapter 2)

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Cost Center: 2200-2144.000

Summary for Category: D. Gas Systems Staff

	In 2021\$ (000) Incurred Costs					
	Adjusted-Recorded	Adjusted-Forecast				
	2021	2022	2023	2024		
Labor	149	149	149	149		
Non-Labor	19	19	19	19		
NSE	0	0	0	0		
Total	168	168	168	168		
FTE	1.0	1.0	1.0	1.0		

Cost Centers belonging to this Category:

2200-2144	000 6	as Si	/stems	Staff
2200-2144		יט ססי	voleilio	Jian

Labor	149	149	149	149
Non-Labor	19	19	19	19
NSE	0	0	0	0
Total	168	168	168	168
FTE	1.0	1.0	1.0	1.0

Beginning of Workpaper 2200-2144.000 - Gas Systems Staff

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Category: D. Gas Systems Staff

Category-Sub 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

Activity Description:

This cost center includes the salaries for the Gas System Integrity Staff & Programs Director, the Administrative Associate, and relevant support staff who support this organization at both SoCalGas and SDG&E. This cost center also includes the associated employee expenses, as well as miscellaneous supplies, materials, and training and development for employees.

No units are available for this cost center as it comprises a large variety of costs types, such as labor, contractors, software license fees, supplies, training, etc that change over the years as needs change. As a result, units cannot be calculated.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This cost center was changed due to a reorganization at the end of 2020 and does not have a long expense history. The base year forecast is representative of expectations for TY 2024.

Non-Labor - Base YR Rec

The forecast method developed for this cost category is base year 2021. This cost center was changed due to a reorganization at the end of 2020 and does not have a long expense history. The base year forecast is representative of expectations for TY 2024.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs						
		Adju	sted-Recor	Adjusted-Forecast				
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	286	145	145	134	149	149	149	149
Non-Labor	93	25	27	35	19	19	19	19
NSE	0	0	0	0	0	0	0	0
Total	379	170	173	169	168	168	168	168
FTE	2.2	1.0	0.8	0.7	1.0	1.0	1.0	1.0

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Category-Sub: 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

Cost Center Allocations (Incurred Costs):

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreq

	2021 Adjusted-Recorded					2022 Adju	usted-Fore	cast	
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
0	0	0	0	0.0	0	0	0	0	0.0
0	0	0	0	0.0	0	0	0	0	0.0
149	19	0	168	1.1	149	19	0	168	1.1
149	19	0	168	1.0	149	19	0	168	1.0
86.63%	86.63%				86.63%	86.63%			
13.37%	13.37%				13.37%	13.37%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Directly Retained
Directly Allocated
Subj. To % Alloc.
Total Incurred
% Allocation
Retained
SEU
CORP
Unreg

	2023 Adju	sted-Fore	cast		2024 Adjusted-Forecast				
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
0	0	0	0	0.0	0	0	0	0	0.0
0	0	0	0	0.0	0	0	0	0	0.0
149	19	0	168	1.1	149	19	0	168	1.1
149	19	0	168	1.0	149	19	0	168	1.0
86.63%	86.63%				86.63%	86.63%			
13.37%	13.37%				13.37%	13.37%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2022

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2023

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Cost Center Allocation Percentage for 2024

All calculations are based on the ratio of SDG&E miles of pipe to SoCalGas miles of pipe.

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Category-Sub: 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecast	t Method	Bas	se Foreca	st	Forecast Adjustments			Adjusted-Forecast		
Years	5	2022	2022 2023 2024		2022	2023 2024		2022	2023	2024
Labor	Base YR Rec	149	149	149	0	0	0	149	149	149
Non-Labor	Base YR Rec	19	19	19	0	0	0	19	19	19
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ı	168	168	168	0	0	0	168	168	168
FTE	Base YR Rec	1.0	1.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0

Year	Labor	NLbr	NSE	Total	FTE	Adj Type	
<u>i cai</u>		ITEDI	INOL	Iotai			

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Category-Sub: 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Adjusted-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	221	115	85	107	91
Non-Labor	84	23	8	36	3
NSE	0	0	0	0	0
Total	305	138	93	143	95
FTE	1.9	0.8	0.5	0.6	0.5
Adjustments (Nominal \$) **					
Labor	0	0	30	2	35
Non-Labor	0	0	18	-3	16
NSE	0	0	0	0	0
Total	0	0	48	-1	<u></u> 51
FTE	0.0	0.0	0.2	0.0	0.3
Recorded-Adjusted (Nomina	al \$)				
Labor	221	115	116	109	126
Non-Labor	84	23	26	33	19
NSE	0	0	0	0	0
Total	305	138	141	142	145
FTE	1.9	0.8	0.7	0.6	0.8
acation & Sick (Nominal \$)					
Labor	37	20	22	19	22
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	37	20	22	19	22
FTE	0.3	0.2	0.1	0.1	0.2
scalation to 2021\$					
Labor	28	11	8	5	0
Non-Labor	9	2	1	1	0
NSE	0	0	0	0	0
Total	36	13	9	7	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	nt 2021\$)				
Labor	286	145	145	134	149
Non-Labor	93	25	27	35	19
NSE	0	0	0	0	0
Total	379	170	173	169	168
FTE	2.2	1.0	0.8	0.7	1.0

^{*} After company-wide exclusions of Non-GRC costs

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

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Category-Sub: 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		0	0	30	2	35
Non-Labor		0	0	18	-3	16
NSE		0	0	0	0	0
	Total	0	0	48	-0.648	51
FTE		0.0	0.0	0.2	0.0	0.3

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type		
2017 Total	0	0	0	0.0			
2018 Total	0	0	0	0.0			
2019	30	3	0	0.2	CCTR Transf From 2200-2011.000		
Explanation:		Transfer of departmental costs relating to GSS&T Full-Time Employees from 2200-2011 to 2200-2144 to align costs to where they are being forecasted.					
2019	0	15	0	0.0	CCTR Transf To 2200-8000.002		
Explanation:	Transfer Comp & Benefits LTIP a	mounts from 220	0-2144 to 22	200-8000.002	2.		
2019 Total	30	18	0	0.2			
2020	0	-2	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs Catastrophic Event Memorandun	•		uested for re	ecovery through a non-GRC		
2020	-13	-3	0	-0.1	CCTR Transf To 2200-2011.002		
Explanation:	Transfer costs to GOSI CC 2200-	-2011.002 related	to SB1371	(BLM) Emiss	sions Strategy Program		
2020	15	3	0	0.1	CCTR Transf From 2200-2011.000		
Explanation:	Transfer of departmental costs realign costs to where they are being	•	Full-Time Er	nployees fro	m 2200-2011 to 2200-2144 to		
2020 Total	2	-3	0	0.0			
2021	0	0	0	0.0	1-Sided Adj		
Explanation:	Incremental COVID-related costs Catastrophic Event Memorandun	•		uested for re	ecovery through a non-GRC		
2021	-2	0	0	-0.1	1-Sided Adj		
Explanation:	Adjustment to remove non-GRC recovered through a separate rec		ne SB1371 E	Emissions St	rategy Program that are being		

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls
Category: D. Gas Systems Staff
Category-Sub: 1. Gas Systems Staff

Cost Center: 2200-2144.000 - Gas Systems Staff

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2021	0	1	0	0.0	CCTR Transf From 2100-4143.000
Explanation:	Transfer of departmental co- align costs to where they are	_		e Employees	from 2100-4143 to 2200-2144 to
2021	37	15	0	0.4	CCTR Transf From 2200-2011.000
Explanation:	Transfer of departmental coalign costs to where they are	_		e Employees	from 2200-2011 to 2200-2144 to
2021 Total	35	16	0	0.3	

Area: GAS SYSTEM STAFF & TECHNOLOGY

Witness: Wallace E. Rawls

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	<u>Description</u>
2200-0247	000	GAS OPERATIONS TECHNOLOGY
2200-0307	000	WEB/DATABASE/SERVER SUPPORT
2200-0313	000	EGIS DATA MAINTENANCE
2200-0325	000	ENTERPRISE ASSET MANAGEMENT
2200-0614	000	GAS OPS TRAINING AND DEVELOPMENT
2200-0974	000	Operations Data Strategy
2200-0976	000	HIGH PRESSURE PROJECT RECORD CLOSEOUT
2200-1831	000	INTEGRITY MANAGEMENT TECHNOLOGY SYSTEMS
2200-2213	000	SCG PUBLIC AWARENESS
2200-2297	000	GIS MGMT & DATA COLLECTION
2200-2325	000	INT MGMT HPPD MAINTENANCE & COMPLIANCE
2200-2361	000	RECORDS MANAGEMENT
2200-2500	000	TRAINING - TRANSMISSION/STORAGE/HP/M&R
2200-2501	000	TRAINING - OFFICE
2200-2502	000	TRAINING - WELDING
2200-2533	000	GIS - DATA ACCEPTANCE & STANDARDS
2200-2603	000	IM PROGRAM CONTROLS
2200-2618	000	GIS DATA ACCEPTANCE - PACKAGE & DATA QC