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-27-WP-R-E)

REVISED WORKPAPERS TO PREPARED DIRECT TESTIMONY OF NEENA N. MASTER ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

ERRATA

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

MAY 2023



2024 General Rate Case - REVISED

ERRATA

INDEX OF WORKPAPERS

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Southern California Gas Company 2024 GRC - REVISED ERRATA

Overall Summary For Exhibit No. SCG-27-WP-R-E

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Description
Non-Shared Services
Shared Services
Total

In 2021 \$ (000) Incurred Costs										
Adjusted-Recorded Adjusted-Forecast										
2021	2022	2023	2024							
13,409	16,358	19,533	21,269							
1,908	1,908	2,441	2,385							
15.317	18,266	21.974	23,654							

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Summary of Non-Shared Services Workpapers:

Description
A. SAFETY MANAGEMENT SYSTEMS
B. STRATEGY
C. Risk Management
D. CONTINUOUS IMPROVEMENT
E. SAFETY MANAGEMENT
F. EMERGENCY SERVICES
G. TECHNOLOGY & ANALYTICS
Total

	In 2021 \$ (000) Incurred Costs									
Adjusted- Recorded	Adjusted-Forecast									
2021	2022 2023 2024									
963	2,348	2,348	2,348							
621	621	963	1,109							
3,851	4,181	4,319	4,687							
1,041	1,041	1,723	1,623							
3,750	3,954	4,859	6,456							
1,844	2,598	2,865	2,865							
1,339	1,615	2,456	2,181							
13,409	16,358	19,533	21,269							

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000

Summary for Category: A. SAFETY MANAGEMENT SYSTEMS

	In 2021\$ (000) Incurred Costs								
	Adjusted-Recorded		Adjusted-Forecast						
	2021	2022	2023	2024					
Labor	520	803	803	803					
Non-Labor	443	1,545	1,545	1,545					
NSE	0	0	0	0					
Total	963	2,348	2,348	2,348					
FTE	3.0	4.6	4.6	4.6					

Workpapers belonging to this Category:

2SM000.000 SAFETY MANAGEMENT SYSTEMS

Labor	520	803	803	803
Non-Labor	443	1,545	1,545	1,545
NSE	0	0	0	0
Total	963	2,348	2,348	2,348
FTE	3.0	4.6	4.6	4.6

Beginning of Workpaper 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

Activity Description:

The activities completed within this workgroup is to provide a greater focused concentration in the area of Safety. SMS introduced the role of Chief Safety Officer to provide executive level, safety leadership and strategic direction within SoCalGas. This officer is ultimately responsible and accountable for safety performance of SoCalGas. This includes establishing safety policy, developing, and implementing safety programs and procedures, integrating new/enhanced methods into SoCalGas' safety culture, and guiding short-term and long-term safety performance management.

Reporting to the CSO is the Senior Director who provides leadership and guidance to the entire Safety Management organization, which includes Safety Management, Pipeline Safety & Compliance, Technology & Analytics, Continuous Improvement, Strategy, and Emergency Management. These departments oversee all safety programs, policies, technologies, and initiatives, impacting all SoCalGas employees whether working in a remote, at-home environment or working in an operations capacity in the field.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to more accurately represent this workgroup given a greater focus in the area of Safety by adding support at the executive level. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to more accurately represent this workgroup given a greater focus in the area of Safety by adding support at the executive level. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

	In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor	ded		Ad	justed-Fore	cast		
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	0	0	0	271	520	803	803	803		
Non-Labor	0	0	38	9	443	1,545	1,545	1,545		
NSE	0	0	0	0	0	0	0	0		
Total	0	0	38	280	963	2,348	2,348	2,348		
FTE	0.0	0.0	0.0	1.3	3.0	4.6	4.6	4.6		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecas	t Method	Bas	se Foreca	st	Forec	Forecast Adjustments			Adjusted-Forecast		
Years	s	2022	2023	2024	2022	2022 2023 2024			2023	2024	
Labor	Base YR Rec	520	520	520	283	283	283	803	803	803	
Non-Labor	Base YR Rec	443	443	443	1,102	1,102	1,102	1,545	1,545	1,545	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	963	963	963	1,385	1,385	1,385	2,348	2,348	2,348	
FTE	Base YR Rec	3.0	3.0	3.0	1.6	1.6	1.6	4.6	4.6	4.6	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	283	1,102	0	1,385	1.6	1-Sided Adj	

Explanation:

RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 - Safety Management System – 1 – SMS

Framework: In 2021, SoCalGas introduced the role of Chief Safety Officer (CSO). The SMS costs will address the core duties of the CSO and include labor and non-labor for the CSO, Senior Director and two administrative assistants. SoCalGas intends to add 1.6 FTE positions at a cost of \$291K (\$283k Labor/\$8K Non-Labor) plus \$1,094k for other non-labor costs to support this function.

Calculation:

Labor: 0.6 FTE x \$339k = \$203k; 1.0 FTE x \$80k = \$80k

Non-labor cost: \$1,102k (Employee expenses: 1.6 FTE x \$5k = \$8k; \$620k for Safety Council fees

and \$474k for Other Safety Services)

Note: Labor & non-labor for CSO position is adjusted to reflect it starting during the 2021 Base Year.

2022 Total	283	1,102	0	1,385	1.6		
2023	283	1,102	0	1,385	1.6	1-Sided Adj	

Explanation:

RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 - Safety Management System – 1 – SMS

Framework: In 2021, SoCalGas introduced the role of Chief Safety Officer (CSO). The SMS costs will address the core duties of the CSO and include labor and non-labor for the CSO, Senior Director and two administrative assistants. SoCalGas intends to add 1.6 FTE positions at a cost of \$291K (\$283k Labor/\$8K Non-Labor) plus \$1,094k for other non-labor costs to support this function.

Calculation:

Labor: 0.6 FTE x \$339k = \$203k; 1.0 FTE x \$80k = \$80k

Non-labor cost: \$1,102k (Employee expenses: 1.6 FTE x \$5k = \$8k; \$620k for Safety Council fees

and \$474k for Other Safety Services)

Note: Labor & non-labor for CSO position is adjusted to reflect it starting during the 2021 Base Year.

2023 Total	283	1,102	0	1,385	1.6	
2024	283	1,102	0	1,385	1.6	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	RAMP (CFF6-1): RAM Framework: In 2021, S address the core duties two administrative assi Labor/\$8K Non-Labor) Calculation: Labor: 0.6 FTE x \$339 Non-labor cost: \$1,102 and \$474k for Other Sa Note: Labor & non-labor	oCalGas introduced of the CSO astants. SoCaldiplus \$1,094k for a \$203k; 1.0 k (Employee eafety Services)	duced the role nd include late Gas intends to or other non-le FTE x \$80k = xpenses: 1.6	e of Chief Safe por and non-lal o add 1.6 FTE labor costs to s = \$80k FTE x \$5k = \$	ty Officer (CSO) bor for the CSO, positions at a co support this func- 8k; \$620k for Sa	. The SMS costs will Senior Director and ost of \$291K (\$283k tion.
2024 Total	283	1,102	0	1,385	1.6	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-i	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	224	442
Non-Labor	0	0	36	9	444
NSE	0	0	0	0	0
Total	0	0	36	233	886
FTE	0.0	0.0	0.0	1.1	2.6
Adjustments (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
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	224	442
Non-Labor	0	0	36	8	443
NSE	0	0	0	0	0
Total	0	0	36	232	885
FTE	0.0	0.0	0.0	1.1	2.6
acation & Sick (Nominal \$)					
Labor	0	0	0	39	78
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	39	78
FTE	0.0	0.0	0.0	0.2	0.4
scalation to 2021\$					
Labor	0	0	0	8	0
Non-Labor	0	0	3	1	0
NSE	0	0	0	0	0
Total	0	0	3	8	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constar	nt 2021\$)				
Labor	0	0	0	271	520
Non-Labor	0	0	38	9	443
NSE	0	0	0	0	0
Total		0	38	280	963
FTE	0.0	0.0	0.0	1.3	3.0

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

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	-0.975
NSE		0	0	0	0	0
	Total		0	<u> </u>	-1	-0.975
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	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	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	0	0	0.0	1-Sided Adj		
Explanation:	Adjustment to remove cost related to tickets expense for cost center 2200-0849						
2021 Total	0	-1	0	0.0			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 1

RAMP Line Item Name: SMS Framework

Tranche(/s): Tranche1: NA

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	817	2,202	2,202	2,202	782	946

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM000, 2SM002 and 2SM004).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. SAFETY MANAGEMENT SYSTEMS
Category-Sub: 1. SAFETY MANAGEMENT SYSTEMS

Workpaper: 2SM000.000 - SAFETY MANAGEMENT SYSTEMS

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M05

RAMP Line Item Name: Expanded Safety Culture Assessments

Tranche(/s): Tranche1: Overall

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	146	146	146	146	45	60

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 Surveys	1.00	0.00	0.00	1.00	1.00	1.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	9.000	

RSE Changes from RAMP:

An GRC RSE was not calculated for this activity. Mitigation measure was achieved by other means, specifically the recent 2EC and API external assessments where we have been able to gather information from our employees and contractors related to our Safety Culture.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Workpaper: 2SM004.000

Summary for Category: B. STRATEGY

	In 2021\$ (000) Incurred Costs					
	Adjusted-Recorded		Adjusted-Forecast			
	2021	2022	2023	2024		
Labor	533	533	815	956		
Non-Labor	88	88	148	153		
NSE	0	0	0	0		
Total	621	621	963	1,109		
FTE	3.9	3.9	5.9	6.9		

Workpapers belonging to this Category:

201	Ann.	4 000	CTD	ATEGY
23 1	VIUU4	4.UUU	SIK	AIEGI

Labor	533	533	815	956
Non-Labor	88	88	148	153
NSE	0	0	0	0
Total	621	621	963	1,109
FTE	3.9	3.9	5.9	6.9

Beginning of Workpaper 2SM004.000 - STRATEGY

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

Activity Description:

The activities completed within this workgroup is dedicated to continuously enhance the safety of operations, strengthen the safety culture and improve overall safety performance of SoCalGas. The activities focus on 8 areas that center on the development, implementation, continuous improvement and evaluation of maturity for SoCalGas's Safety Management System (SMS). This is accomplished by establishing appropriate foundational policies, publishing enterprise safety plans, facilitating employee and stakeholder engagement of our SMS, instituting a common management of change process, leading internal and external assessments of SMS maturity, benchmarking and sharing best safety practices with our peers and industry associations, establishing a recognition program that promotes the SMS and engaging with contractors regarding SMS.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments provide a greater emphasis on enhancing safety for our contractors through dedicating resources for our Contractor Management program. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments provide a greater emphasis on enhancing safety for our contractors through dedicating resources for our Contractor Management program. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

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	57	57	32	565	533	533	815	956			
Non-Labor	2	129	110	128	88	88	148	153			
NSE	0	0	0	0	0	0	0	0			
Total	60	185	142	693	621	621	963	1,109			
FTE	0.4	0.4	0.2	4.2	3.9	3.9	5.9	6.9			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

Summary of Adjustments to Forecast:

			In 202	1 \$(000) Ir	ncurred Co	sts				
Forecas	t Method	Base Forecast Forecast Adjustments Ad			Adjus	usted-Forecast				
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	533	533	533	0	282	423	533	815	956
Non-Labor	Base YR Rec	88	88	88	0	60	65	88	148	153
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	621	621	621	0	342	488	621	963	1,109
FTE	Base YR Rec	3.9	3.9	3.9	0.0	2.0	3.0	3.9	5.9	6.9

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	0	0	0	0.0	1-Sided Adj	

Explanation:

Other: SMS Recognition Program - Creation and advancement of SoCalGas's SMS is demanding many employees from throughout the company with expertise in safety and operations areas and pipeline contractors involved in construction activities to support company-wide initiatives, like the external SMS maturity assessment recently completed by API. To incentivize and inspire employees and contractors to support the advancement of SMS, the SMS Strategy group is developing a recognition program for employees and contractors to include symbolic and impactful recognition ways and means. This may include challenge coins, shirts, jackets, awards, trophies, etc.

Calculation:

No incremental cost for this year

2022 Total	0	0	0	0	0.0	
2023	282	10	0	292	2.0	1-Sided Adj

Explanation:

RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 - Safety Management System - 1 - SMS Framework: FTE support for SMS Contractor Engagement - This effort is expected to add additional FTE resources through 2024 to manage this accountability of SoCalGas, as an operator, using contractors who also adopt and adhere to the requirements of API RP 1173. The responsibilities of the FTE resources are as follows:

Two of the FTEs will plan and design the contractor engagement program and develop a strategy for implementation. This strategy will require the FTEs to communicate and educate on the importance of SMS, raise awareness of safety reporting tools, and provide support and feedback to all Class 1 contractors as they draft their own SMS plans. Additionally, we will aid our Class 1 contractors in developing an SMS assessment program and identifying relevant KPIs to measure SMS progress. An early milestone of this program is to mature all Class 1 contractors to a Maturity Level 2 (based on the Pipeline SMS Maturity Model).

Calculation:

Labor cost for Project Manager position: 2.0 FTE X \$140.9K = \$282k Non-labor cost for employee expenses: 2.0 FTE X \$5K = \$10k

2023 0 50 0 50 0.0 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
many employees from the pipeline contractors involventernal SMS maturity as and contractors to support recognition program for eways and means. This may calculation:	roughout the lved in const ssessment re ort the advan- employees a nay include c	company wit ruction activiti cently comple cement of SM nd contractors hallenge coins	h expertise in ses to support of the ted by API. To S, the SMS Strest to include syn	safety and opera ompany-wide ir incentivize and rategy group is nbolic and impa	ations areas and nitiatives, like the I inspire employees developing a ctful recognition
282	60	0	342	2.0	
423	15	0	438	3.0	1-Sided Adj
Framework: FTE suppor FTE resources through 2 contractors who also add	t for SMS Co 2024 to mana opt and adhe	ntractor Enga ige this accou	gement - This intability of SoC	effort is expecte CalGas, as an o	ed to add additional perator, using
	Other: SMS Recognition many employees from the pipeline contractors involvexternal SMS maturity as and contractors to support recognition program for eways and means. This manual contractors to support the contractors to support the contractors and means. This manual contractors are contractors involved and contractors who also additional contractors who also additional contractors involved and contractors who also additional contractors involved and contractors invo	Other: SMS Recognition Program - Comany employees from throughout the pipeline contractors involved in constituent external SMS maturity assessment reand contractors to support the advance recognition program for employees at ways and means. This may include closure contractors to purchase goods: \$5 282 60 423 15 RAMP (CFF6-1): RAMP Incremental; Framework: FTE support for SMS CoffTE resources through 2024 to management of the pipeline contractors in the pipeline contracto	Other: SMS Recognition Program - Creation and a many employees from throughout the company wit pipeline contractors involved in construction activitiexternal SMS maturity assessment recently complete and contractors to support the advancement of SM recognition program for employees and contractors ways and means. This may include challenge coinstruction: Calculation: Non-labor cost to purchase goods: \$50k 282 60 0 423 15 0 RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 Framework: FTE support for SMS Contractor Engagement FTE resources through 2024 to manage this account contractors who also adopt and adhere to the requirements.	Other: SMS Recognition Program - Creation and advancement of many employees from throughout the company with expertise in spipeline contractors involved in construction activities to support cexternal SMS maturity assessment recently completed by API. To and contractors to support the advancement of SMS, the SMS Str recognition program for employees and contractors to include synways and means. This may include challenge coins, shirts, jackets. Calculation: Non-labor cost to purchase goods: \$50k 282 60 0 342 423 15 0 438 RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 - Safety Manageramework: FTE support for SMS Contractor Engagement - This FTE resources through 2024 to manage this accountability of SoC contractors who also adopt and adhere to the requirements of API	Other: SMS Recognition Program - Creation and advancement of SoCalGas's SM many employees from throughout the company with expertise in safety and opera pipeline contractors involved in construction activities to support company-wide in external SMS maturity assessment recently completed by API. To incentivize and and contractors to support the advancement of SMS, the SMS Strategy group is a recognition program for employees and contractors to include symbolic and impa ways and means. This may include challenge coins, shirts, jackets, awards, troph Calculation: Non-labor cost to purchase goods: \$50k 282 60 0 342 2.0 423 15 0 438 3.0 RAMP (CFF6-1): RAMP Incremental; SCG-CFF-6 - Safety Management System Framework: FTE support for SMS Contractor Engagement - This effort is expected FTE resources through 2024 to manage this accountability of SoCalGas, as an ocontractors who also adopt and adhere to the requirements of API RP 1173. The

implementation. This strategy will require the FTEs to communicate and educate on the importance of SMS, raise awareness of safety reporting tools, and provide support and feedback to all Class 1 contractors as they draft their own SMS plans. Additionally, we will aid our Class 1 contractors in developing an SMS assessment program and identifying relevant KPIs to measure SMS progress. An early milestone of this program is to mature all Class 1 contractors to a Maturity Level 2 (based on the Pipeline SMS Maturity Model).

A third FTE will aid in the execution of the contractor engagement program. For the contractors that achieve a Conformance Level 2, support will be provided to implement SMS plans and processes. This includes change management efforts in communicating contractor specific SMS frameworks and developing and conducting SMS training. The intent of this effort is to reach the next significant milestone of achieving a Maturity Level 3.

Calculation:

Labor cost for Project Manager position: 3.0 FTE X \$140.9K = \$423k Non-labor cost for employee expenses: 3.0 FTE X \$5K = \$15k

2024 0 50 0 50 0.0 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Other: SMS Recognition many employees from the pipeline contractors involventernal SMS maturity and contractors to support recognition program for ways and means. This in Calculation: Non-labor to purchase generations.	nroughout the blved in constr ssessment re ort the advanc employees ar nay include cl	company wit ruction activiti cently comple cement of SM nd contractors	h expertise in ses to support of seted by API. To S, the SMS Stores to include syn	safety and opera company-wide in incentivize and rategy group is nbolic and impa	ations areas and nitiatives, like the I inspire employees developing a ctful recognition
2024 Total	423	65	0	488	3.0	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

Determination of Adjusted-Recorded (Incurred Costs):

torrimation of Aujustou	i-Recorded (incurred Cos 2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
corded (Nominal \$)*					
Labor	0	0	0	258	200
Non-Labor	0	0	1	22	107
NSE	0	0	0	0	0
Total	0	0	1	280	307
FTE	0.0	0.0	0.0	1.7	1.2
djustments (Nominal \$) **	•				
Labor	44	45	26	209	253
Non-Labor	2	118	102	97	-18
NSE	0	0	0	0	0
Total	46	163	127	306	235
FTE	0.3	0.3	0.2	1.8	2.1
ecorded-Adjusted (Nomin	nal \$)				
Labor	44	45	26	467	453
Non-Labor	2	118	102	119	88
NSE	0	0	0	0	0
Total	46	163	128	585	542
FTE	0.3	0.3	0.2	3.5	3.3
acation & Sick (Nominal \$	5)				
Labor	7	8	5	82	80
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	7	8	5	82	80
FTE	0.1	0.1	0.0	0.7	0.6
scalation to 2021\$					
Labor	6	4	2	16	0
Non-Labor	0	11	7	9	0
NSE	0	0	0	0	0
Total	6	15	9	25	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Const	ant 2021\$)				
Labor	57	57	32	565	533
Non-Labor	2	129	110	128	88
NSE	0	0	0	0	0
Total	60	185	142	693	621
FTE	0.4	0.4	0.2	4.2	3.9

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs										
	Years	2017	2018	2019	2020	2021					
Labor	-	44	45	26	209	253					
Non-Labor		2	118	102	97	-18					
NSE		0	0	0	0	0					
	Total	46	163	127	306	235					
FTE		0.3	0.3	0.2	1.8	2.1					

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type				
2017	44	2	0	0.3	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	workpaper 2SM00	04.000 where	these activi	ties will be forecasted.				
2017 Total	44	2	0	0.3					
2018	0	1	0	0.0	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	workpaper 2SM00	04.000 where	these activi	ties will be forecasted.				
2018	45	117	0	0.3	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	Transferring to Non-Shared workpaper 2SM004.000 where these activities will be forecasted.							
2018 Total	45	118	0	0.3					
2019	0	1	0	0.0	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	Transferring to Non-Shared workpaper 2SM004.000 where these activities will be forecasted.							
2019	26	101	0	0.2	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	workpaper 2SM00	04.000 where	these activi	ties will be forecasted.				
2019	0	0	0	0.0	1-Sided Adj				
Explanation:	Adjustment to remove cost r	related to dues ex	pense						
2019 Total	26	102	0	0.2					
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	25	0	0	0.3	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	workpaper 2SM00	04.000 where	these activi	ties will be forecasted.				
2020	184	99	0	1.5	CCTR Transf From 2200-2622.000				
Explanation:	Transferring to Non-Shared	workpaper 2SM00	04.000 where	these activi	ties will be forecasted.				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type			
2020	0	-2	0	0.0	1-Sided Adj			
Explanation:	Adjustment to remove cost rela	ated to dues expens	se for cost ce	nter 2200-2	031			
2020 Total	209	97	0	1.8				
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	253	-17	0	2.1	CCTR Transf From 2200-2622.000			
Explanation:	Transferring to Non-Shared wo	orkpaper 2SM004.0	00 where the	se activities	will be forecasted.			
2021	0	-1	0	0.0	1-Sided Adj			
Explanation:	Adjustment to remove cost related to dues expense for cost center 2200-2031							
2021 Total	253	-18	0	2.1				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: B. STRATEGY
Category-Sub: 1. STRATEGY

Workpaper: 2SM004.000 - STRATEGY

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 1

RAMP Line Item Name: SMS Framework

Tranche(/s): Tranche1: NA

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	621	621	913	1,059	782	946

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM000, 2SM002 and 2SM004).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

Unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

NA

Area: SAFETY MANAGEMENT SYSTEMS

Adjusted-Recorded

12.3

Witness: Neena N. Master
Category: C. Risk Management

Workpaper: 2SM006.000

FTE

Summary for Category: C. Risk Management

	2021	2022	2023	2024
Labor	1,694	2,009	2,143	2,496
Non-Labor	2,157	2,172	2,176	2,191
NSE	0	0	0	0
Total	3,851	4,181	4,319	4,687
FTE	12.3	15.0	16.0	19.0
Workpapers belonging	to this Category:			
2SM006.000 Risk Ma	nagement			
Labor	1,694	2,009	2,143	2,496
Non-Labor	2,157	2,172	2,176	2,191
NSE	0	0	0	0
Total	3,851	4,181	4,319	4,687

15.0

In 2021\$ (000) Incurred Costs

Adjusted-Forecast

16.0

19.0

Beginning of Workpaper 2SM006.000 - Risk Management

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Activity Description:

The Risk Management department is organized into three functional activities: (1) Risk Management (RM), (2) Regulatory Compliance (RC), and (3) Risk & Accountability Department (RAD).

Since 2019, the RM department is no longer a shared service between SoCalGas and SDG&E. The division is led by the Vice President of Risk Management and Chief Risk Officer, whose role is to oversee the continued development, implementation, and application of risk management best practices. This includes promoting the integration of risk concepts and analysis in asset management and investment processes to support the strengthening of SoCalGas's safety culture. This role is also responsible for developing and setting risk management policy to assist SoCalGas in managing it's risks through a structured, increasingly data-driven approach that identifies threats and hazards, assesses and prioritizes risks, implements mitigation efforts, and engages in assessments and reviews to understand risk mitigation effectiveness.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis to support Risk Management compliance, accountability, strategic & operational and quantitative activities. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis to support Risk Management compliance, accountability, strategic & operational and quantitative activities. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Summary of Results:

		In 2021\$ (000) Incurred Costs							
		Adjusted-Recorded					Adjusted-Forecast		
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	727	724	1,152	1,465	1,694	2,009	2,143	2,496	
Non-Labor	31	29	77	1,381	2,157	2,172	2,176	2,191	
NSE	0	0	0	0	0	0	0	0	
Total	758	753	1,229	2,847	3,851	4,181	4,319	4,687	
FTE	5.0	5.0	6.7	9.4	12.3	15.0	16.0	19.0	

SAFETY MANAGEMENT SYSTEMS Area:

Witness: Neena N. Master Category: C. Risk Management Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecas	t Method	Bas	se Foreca	st	Forec	ast Adjust	ments	Adjus	Adjusted-Forecast		
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	1,694	1,694	1,694	315	449	802	2,009	2,143	2,496	
Non-Labor	Base YR Rec	2,157	2,157	2,157	15	19	34	2,172	2,176	2,191	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	al	3,851	3,851	3,851	330	468	836	4,181	4,319	4,687	
FTE	Base YR Rec	12.3	12.3	12.3	2.7	3.7	6.7	15.0	16.0	19.0	

FTE	Base YR Rec	12.3	12.3	12.3	2.7	3.7	6.7	15.0	16.0	19.0
Forecast Adjus	stment Details:									
<u>Year</u>	<u>Labo</u>	<u>or</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u> </u>	TE	Adj T	<u>ype</u>	
2022	4	43	2	0	45		0.3	1-Sided	Adj	
Explanation:	Manager will m management in and the develon Calculation: Labor cost for	Other: FTE to support Strategic & Operational Risk Management activities - The Strategic Risk Manager will manage and direct the development and implementation of strategic and operational risk management including identifying strategic and emerging risks, benchmarking industry best practices, and the development of risk frameworks. Calculation: Labor cost for Business Manager position: 0.3 FTE X \$144K = \$43k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k								
2022	ī	78	4	0	82		0.7	1-Sided	Adj	
Explanation:	Other: FTE to a will support the risk-related info business syste also provide buthe ongoing Concordance Calculation: Labor cost for Non-labor cost	e developme ormation. TI ms, busines usiness syste ommission's	nt of inform his position is intelligen ems suppo S-MAP pro nalyst posit	nation techn will provide ce, data vis rt for meetir oceedings.	nology solution of the leadership sualization and changes in E X \$111K =	ons for the and dire and regular in regular \$78k	ne recordi ction on p atory repo	ng and reportion projects for imp rting. This pos	ng of proving sition will	
2022		0	0	0	0		0.0	1-Sided	Adj	
Explanation:	Other: FTE to substitute function. Activition various organizated credit risk SoC credit risk metroscept for the credit risk	ties include zations withi alGas may t	evaluation n SoCalGa pe exposed	and monitons do busine	ring of the cress with. Cressunterparties.	editwort	hiness of a	all counterpart onitor and eval	ies that luate	

Note: Totals may include rounding differences.

2022

Calculation:

No incremental cost for this year

0

0

0

0

0.0

1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper:	2SM006.000 - Risk N	/lanagement						
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	Other: FTE to support Ris implementation of increas assess risks and measure Calculation: No incremental cost for the	ed application e results of its	n of probabilis	stic and quan				
2022	170	8	0	178	1.5	1-Sided Adj		
Explanation:	Other: FTE to support Affiliate Compliance Activities - To support Affiliate Compliance, compliance governance, the annual records retention process and the compilation and refresh of Compliance Frameworks. Calculation:							
	Labor cost for Advisor: 1.0 \$70k				,			
	Non-labor cost for employ Note: The labor and non- the 2021 Base Year.	•						
2022	24	1	0	25	0.2	1-Sided Adj		
Explanation:	Other: FTE to support Organizational Change Management Activities - To support risk-informed decision- making capabilities which include performing research, conducting process mapping and engineering, risk-related training, preparing project-wide and company-wide communications and facilitating information systems changes. Calculation: Labor cost for Project Manager: 0.2 FTE x \$119.3k = \$24k Non-labor cost for employee expenses: 0.2 FTE x \$5k = \$1k Note: The labor and non-labor for the Project Manager position is adjusted to reflect it staring during the 2021 Base Year.							
2022 Total	315	15	0	330	2.7			
2023	144	5	0	149	1.0	1-Sided Adj		
Explanation:	Other: FTE to support Str Manager will manage and management including id- and the development of ri Calculation: Labor cost for Business N Non-labor cost for employ	I direct the de entifying strate sk framework Ianager positi	velopment ar egic and eme s. ion: 1 FTE X s	nd implement rging risks, b \$144K = \$144	ation of strategi enchmarking in	c and operational risk		
2023	111	5	0	116	1.0	1-Sided Adj		

Area: SAFETY MANAGEMENT SYSTEMS
Witness: Neena N. Master

Category: C. Risk Management Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

vvorkpaper.	23W000.000 - NISK W	anagement				
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Other: FTE to support Ris will support the developme risk-related information. T business systems, busines also provide business syst the ongoing Commission's Calculation: Labor cost for Specialist/A Non-labor cost for employ	ent of inform his position as intelligend ems suppor a S-MAP pro	ation technolog will provide lea ce, data visualia t for meeting cl ceedings.	gy solutions for dership and of zation and reg nanges in reg	or the recordin direction on pr gulatory report gulatory reporti	g and reporting of ojects for improving ting. This position will
2023	0	0	0	0	0.0	1-Sided Adj
Explanation:	Other: FTE to support Risi function. Activities include various organizations with credit risk SoCalGas may credit risk metrics such as Calculation:	evaluation a in SoCalGas be exposed potential fut	and monitoring s do business v to from counte	of the creditw	orthiness of a nalyst will mo	ıll counterparties that nitor and evaluate
2222	No incremental cost for the	•		•	0.0	4.001.1.4.11
2023 Explanation:	O Other: FTE to support Risi implementation of increase assess risks and measure Calculation: No incremental cost for the	ed application results of its	n of probabilist	tic and quanti		
2023	170	8	0	178	1.5	1-Sided Adj
Explanation:	Other: FTE to support Affil governance, the annual re Frameworks. Calculation: Labor cost for Advisor: 1.0 \$70k Non-labor cost for employ Note: The labor and non-latte 2021 Base Year.	FTE x \$100	ion process an 0k = \$100k; Lab s: 1.0 FTE x \$5	d the compilation cost for Pik = \$5k; 0.5 F	ntion and refre roject Manage -TE x \$5k = \$3	er: 0.5 FTE x \$140k =
2023	24	1	0	25	0.2	1-Sided Adj
2023	2 4	ı	U	20	0.2	1-Slucu Auj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

	1. Risk Managemer						
Vorkpaper:	2SM006.000 - Risk	Management					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type	
Explanation:	Other: FTE to support C decision- making capable engineering, risk-related facilitating information second Calculation: Labor cost for Project M Non-labor cost for employed Note: The labor and nor the 2021 Base Year.	ilities which in I training, prep ystems chang anager: 0.2 F byee expense	clude perform paring project- es. TE x \$119.3k s: 0.2 FTE x \$	ng research, owide and com = \$24k 5k = \$1k	conducting pro- pany-wide com	cess mapping and imunications and	
2023 Total	449	19	0	468	3.7		
2024	144	5	0	149	1.0	1-Sided Adj	
	Manager will manage as management including i and the development of Calculation: Labor cost for Business Non-labor cost for employed	dentifying stra risk framewor Manager pos	itegic and emeks.	erging risks, be \$144K = \$144	enchmarking in	•	
2024	111	5	0	116	1.0	1-Sided Adj	
Explanation:	Other: FTE to support Risk Management Accountability Activities – The Business Systems Advisor will support the development of information technology solutions for the recording and reporting of risk-related information. This position will provide leadership and direction on projects for improving business systems, business intelligence, data visualization and regulatory reporting. This position will also provide business systems support for meeting changes in regulatory reporting requirements from the ongoing Commission's S-MAP proceedings. Calculation: Labor cost for Specialist/Analyst position: 1 FTE X \$111K = \$111k						
	Calculation:	:/Analyst posit	ion: 1 FTE X \$				
2024	Calculation: Labor cost for Specialist	:/Analyst posit	ion: 1 FTE X \$		2.0	1-Sided Adj	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Workpaper:	2SM006.000 - Risk	Management	İ					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type		
2024	97	5	0	102	1.0	1-Sided Adj		
Explanation:	Other: FTE to support Risk Management Quantitative Activities - To support the development and implementation of increased application of probabilistic and quantitative processes based upon data to assess risks and measure results of its risk management efforts. Calculation: Labor cost for Advisor position: 1 FTE X \$96.65K = \$97k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k							
2024	170	8	0	178	1.5	1-Sided Adj		
Explanation:	Other: FTE to support A governance, the annual Frameworks. Calculation: Labor cost for Advisor: \$70k Non-labor cost for empl Note: The labor and not the 2021 Base Year.	1.0 FTE x \$10	ok = \$100k; Les: 1.0 FTE x	and the compil abor cost for F \$5k = \$5k; 0.5	ation and refre Project Manage FTE x \$5k = \$	esh of Compliance er: 0.5 FTE x \$140k = 3k		
2024	24	1	0	25	0.2	1-Sided Adj		
Explanation:	Other: FTE to support of decision- making capable engineering, risk-related facilitating information support of Calculation: Labor cost for Project Mon-labor cost for employees. The labor and not the 2021 Base Year.	oilities which in d training, prep systems chang Manager: 0.2 F oyee expense	clude perforn paring project les. TE x \$119.3k es: 0.2 FTE x	ning research, -wide and com x = \$24k \$5k = \$1k	conducting pro	ocess mapping and nmunications and		
2024 Total	802	34	0	836	6.7			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-r	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	149	157	167	183	129
Non-Labor	1	2	7	12	5
NSE	0	0	0	0	0
Total	150	159	174	195	134
FTE	1.6	1.6	1.6	1.6	1.2
Adjustments (Nominal \$) **					
Labor	409	412	750	1,027	1,310
Non-Labor	26	24	65	1,271	2,152
NSE	0	0	0	0	0
Total	435	437	815	2,298	3,463
FTE	2.6	2.6	4.0	6.3	9.2
Recorded-Adjusted (Nomina	l \$)				
Labor	557	569	917	1,210	1,440
Non-Labor	28	27	72	1,283	2,157
NSE	0	0	0	0	0
Total	585	595	989	2,493	3,597
FTE	4.2	4.2	5.6	7.9	10.4
/acation & Sick (Nominal \$)					
Labor	94	98	174	213	254
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	94	98	174	213	254
FTE	0.8	0.8	1.1	1.5	1.9
Escalation to 2021\$					
Labor	75	57	61	42	0
Non-Labor	3	2	5	98	0
NSE	0	0	0	0	0
Total	79	59	66	140	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constar	nt 2021\$)				
Labor	727	724	1,152	1,465	1,694
Non-Labor	31	29	77	1,381	2,157
NSE	0	0	0	0	0
Total	758	753	1,229	2,847	3,851
FTE	5.0	5.0	6.7	9.4	12.3

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs							
	Years	2017	2018	2019	2020	2021	
Labor	-	409	412	750	1,027	1,310	
Non-Labor		26	24	65	1,271	2,152	
NSE		0	0	0	0	0	
	Total –	435	437	815	2,298	3,463	
FTE		2.6	2.6	4.0	6.3	9.2	

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type	
2017	0	0	0	0.0	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2017	221	15	0	1.6	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2017	187	11	0	1.0	CCTR Transf From 2200-2216.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2017 Total	409	26	0	2.6		
2018	0	0	0	0.1	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2018	218	16	0	1.5	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2018	194	8	0	1.0	CCTR Transf From 2200-2216.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2018 Total	412	24	0	2.6		
2019	0	9	0	0.0	CCTR Transf From 2200-2235.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2019	256	25	0	2.1	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared wor	kpaper 2SM006.0	00 where the	ese activities	will be forecasted.	
2019	0	-41	0	0.0	CCTR Transf From 2200-2235.000	
Francisco estimati	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
Explanation:						
2019	121	7	0	0.6	CCTR Transf From 2200-2216.000	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	<u>Adj Type</u>	
2019	79	2	0	0.4	CCTR Transf From 2200-2216.000	
Explanation:	Transfer to Non-Shared workpaper 2SM006 where these activities will be forecasted.					
2019	294	28	0	0.9	CCTR Transf From 2200-2235.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2019	0	-4	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost related to tickets expense					
2019	0	-2	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost relate	ed to dues expens	se			
2019	0	41	0	0.0	CCTR Transf To 2200-8000.002	
Explanation:	Transfer non-labor expense to the correct witness area 2200.8000.002					
2019 Total	750	65	0	4.0		
2020	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).					
2020	0	0	0	0.0	CCTR Transf From 2200-2055.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2020	326	26	0	2.7	CCTR Transf From 2200-2547.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2020	205	935	0	1.0	CCTR Transf From 2200-2216.000	
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.					
2020	0	8	0	0.0	CCTR Transf From 2200-2235.000	
Explanation:	Transferring to Non-Shared work	paper 2SM006.0	00 where the	ese activities	will be forecasted.	
2020	1	225	0	0.1	CCTR Transf From 2200-2235.000	
Explanation:	Transferring to Non-Shared work	paper 2SM006.0	00 where the	se activities	will be forecasted.	
2020	188	4	0	1.6	CCTR Transf From 2200-2055.000	
Explanation:	Transferring to Non-Shared work	paper 2SM006.0	00 where the	ese activities	will be forecasted.	
2020	307	73	0	0.9	CCTR Transf From 2200-2235.000	
Explanation:	Transferring to Non-Shared work	paper 2SM006.0	00 where the	se activities	will be forecasted.	
2020	0	0	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost related to dues expense					
2020 Total	1,027	1,271	0	6.3		
2021	0	0	0	0.0	1-Sided Adj	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master
Category: C. Risk Management
Category-Sub: 1. Risk Management

Workpaper: 2SM006.000 - Risk Management

Year	Labor	NLbr	NSE	FTE	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	0	0	0.0	CCTR Transf From 2200-2055.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	403	9	0	3.3	CCTR Transf From 2200-2547.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	213	1,764	0	1.0	CCTR Transf From 2200-2216.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	0	1	0	0.0	CCTR Transf From 2200-2235.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	0	0	0	0.1	CCTR Transf From 2200-2235.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	7	0	0	0.1	CCTR Transf From 2200-2547.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	394	267	0	3.1	CCTR Transf From 2200-2055.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	280	113	0	1.3	CCTR Transf From 2200-2235.000		
Explanation:	Transferring to Non-Shared workpaper 2SM006.000 where these activities will be forecasted.						
2021	0	-1	0	0.0	1-Sided Adj		
Explanation:	Adjustment to remove cost related to dues expense						
2021	13	0	0	0.3	1-Sided Adj		
Explanation:	Adjustment to add 3 months of salary to capture full year cost for employee on medical leave						
2021 Total	1,310	2,152	0	9.2			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000

Summary for Category: D. CONTINUOUS IMPROVEMENT

		In 2021\$ (000) Incu	urred Costs				
	Adjusted-Recorded	Adjusted-Forecast					
	2021	2022	2023	2024			
Labor	1,022	1,022	1,538	1,538			
Non-Labor	19	19	185	85			
NSE	0	0	0	0			
Total	1,041	1,041	1,723	1,623			
FTE	8.5	8.5	12.9	12.9			

Workpapers belonging to this Category:

2SM002.000 CONTINUOUS IMPROVEMENT

Labor	1,022	1,022	1,538	1,538
Non-Labor	19	19	185	85
NSE	0	0	0	0
Total	1,041	1,041	1,723	1,623
FTE	8.5	8.5	12.9	12.9

Beginning of Workpaper 2SM002.000 - CONTINUOUS IMPROVEMENT

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

Activity Description:

Continuous Improvement (CI) is responsible for creating an environment where feedback mechanisms are part of decisions, and processes which result in collective participation and learning from events to achieve the safest outcomes. Centralized incident evaluations, quality management assessments, compliance assurance, and continuous improvement activities help become an impetus necessary to achieving safety excellence by listening, assessing and learning. This group also provides assessments and analyses resulting in recommendations and process improvements to compliance activities (e.g., locate and mark, leak survey and pipeline inspections on bridges spans and unstable earth). CI consists of multiple interconnected departments and cost centers including Continuous Improvement Operations Manager, Safety Assurance, and Continuous Improvement PM.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing our quality management/assessments and data collection capabilities. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing our quality management/assessments and data collection capabilities. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

				In 2021\$ (00	0) Incurred	Costs		
		Adju	ısted-Recor	Adjusted-Forecast				
Years	2017	2018	2019	2020	2021	2022	2023	2024
Labor	830	973	816	864	1,022	1,022	1,538	1,538
Non-Labor	73	67	48	25	19	18	184	84
NSE	0	0	0	0	0	0	0	0
Total	903	1,040	864	889	1,041	1,040	1,722	1,622
FTE	7.7	8.8	7.2	6.9	8.5	8.5	12.9	12.9

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecas	Forecast Method Base Forecast		Forecast Adjustments			Adjusted-Forecast				
Years	s	2022 2023 2024		2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	1,022	1,022	1,022	0	516	516	1,022	1,538	1,538
Non-Labor	Base YR Rec	19	19	19	0	166	66	19	185	85
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	1,041	1,041	1,041	0	682	582	1,041	1,723	1,623
FTE	Base YR Rec	8.5	8.5	8.5	0.0	4.4	4.4	8.5	12.9	12.9

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE	Adj Type	
2022 Total	0	0	0	0	0.0		
2023	258	13	0	271	2.2	1-Sided Adj	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (CFF6-6): RAMP Incremental; SCG-CFF-6 - Safety Management System – 6 - Expand Quality Assessment Program: SoCalGas plans to expand quality assessments and enhance consistent quality oversight across the Company. SoCalGas intends to add 2.2 FTE positions at a cost of \$271K (\$258k Labor/\$13K Non-Labor) to support this function. The efforts to support this function are as follows:

Quality Assessments Leak Surveys - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 223.0100, Leak Surveys. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments Inspection of Pipelines on Bridges & Spans - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 184.12, Inspection of Pipelines on Bridges and Spans. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments Pipeline Patrol & Unstable Earth Inspection - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 223.0065, Pipeline Patrol and Unstable Earth Inspections. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments - Underground Service Alert & Temporary Marking - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 184.0200, Underground Service Alert and Temporary Marking. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Management Major Projects Assessments - Continue to expand/evolve a quality management program for Complex Facility projects. This quality assessment is intended to verify that company policies and procedures are being performed in accordance with governmental requirements, all applicable Gas Standards, and awarded contracts.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
	Calculation: Labor cost for Project M Non-labor cost for empl	• .				
2023	225	151	0	376	1.9	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (CFF6-3): RAMP Incremental; SCG-CFF-6 - Safety Management System – 3 – Continuous Improvement and Quality Assurance: SoCalGas plans to expand efforts in supporting its safety feedback mechanisms through enhancements of its processes for gathering and analyzing safety information. The goal is to continue to support a culture that integrates safety into every activity and process with the help of every SoCalGas employee. SoCalGas intends to add 1.9 FTE positions at a cost of \$236K (\$225k Labor/\$11K Non-Labor) plus \$140k for other non-labor costs to support this function. The efforts to support this function are as follows:

Field & Office Assessment Electronic Data Collection Tool - An electronic data collection tool for field and office assessments to increase efficiency, accuracy, and data sharing capabilities. The data will be gathered and analyzed to identify trends or other insights that will provide information to monitor and enhance internal processes. Evaluate a technology solution that effectively collects data for further analysis.

Calculation:

Non-labor: \$140k (Software cost - \$100k; Annual subscription cost - \$40k)

Operationalize Continuous Improvement Plan - Execute implementation activities to adopt the CI Plan. CI Plan will be disseminated throughout all stakeholders within the company. A set number of different stakeholder groups will meet with each month and information delivered.

Calculation:

Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k

Managing & Tracking Continuous Improvement Opportunities - Manage and systematically track to completion all Continuous Improvement opportunities that are provided to the company by both internal and external sources including contractors and audits. Internal sources include After Action Reports and Quality Management Base Audits. Develop metrics, identify trends and work with stakeholders to improve completion times of continuous improvement opportunities as well as identify pitfalls and other contingencies that delay completion and/or result in repeat offenses.

Calculation:

Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k

Field & Office Assessments Data Collection Tool - Project Manager to oversee the data collection tool for field and office assessments to increase efficiency, accuracy, and data sharing capabilities. The data will be gathered and analyzed to identify trends or other insights that will provide information to monitor and enhance internal processes. Evaluate a technology solution that effectively collects data for further analysis.

Calculation:

Labor cost for Project Manager: 1 FTE x \$126k = \$126k Non-labor cost for employee expenses: 1 FTE x \$5k = \$5k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type				
	PMO Structure Development and Implementation for Continuous Improvement Safety Projects - FTE support to help achieve SMS goals and optimize processes as well as tracking and metrics for consistent alignment of those projects. The FTE will also provide advisory services in regard to safety to share insight and experience and help facilitate change management. Calculation: Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k									
2023	33	2	0	35	0.3	1-Sided Adj				
Explanation:	RAMP (CFF6-1): RAMP Framework: FTE support of the ASC and track and meetings. The Advisory advisory role on Safety re meets quarterly and revie Preparedness, as well as Calculation: Labor cost for Project Ma Non-labor cost for emplo	for Advisory drive all con Safety Counce elated items. ews, in depth, s visiting vario	Safety Councitinuous improbil is a council They advise safety related bus company	cil (ASC) - Assi evement opport I made up of ex exthe COO and ed topics, such facilities.	ist with the dev tunities that ste kternal experts designated de	relopment and growth em from the ASC , which acts in an legates. The ASC				

2023 Total	516	166	0	682	4.4	
2024	258	13	0	271	2.2	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (CFF6-6): RAMP Incremental; SCG-CFF-6 - Safety Management System – 6 - Expand Quality Assessment Program: SoCalGas plans to expand quality assessments and enhance consistent quality oversight across the Company. SoCalGas intends to add 2.2 FTE positions at a cost of \$271K (\$258k Labor/\$13K Non-Labor) to support this function. The efforts to support this function are as follows:

Quality Assessments Leak Surveys - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 223.0100, Leak Surveys. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments Inspection of Pipelines on Bridges & Spans - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 184.12, Inspection of Pipelines on Bridges and Spans. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments Pipeline Patrol & Unstable Earth Inspection - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 223.0065, Pipeline Patrol and Unstable Earth Inspections. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Assessments - Underground Service Alert & Temporary Marking - This quality assessment is intended to verify that company leakage policies and procedures are being performed in accordance with governmental requirements and GS 184.0200, Underground Service Alert and Temporary Marking. This Gas Standard complies with 49 CFR 192.605 (b8) (c4).

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Quality Management Major Projects Assessments - Continue to expand/evolve a quality management program for Complex Facility projects. This quality assessment is intended to verify that company policies and procedures are being performed in accordance with governmental requirements, all applicable Gas Standards, and awarded contracts.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type	
	Calculation: Labor cost for Project M Non-labor cost for emplo						
2024	225	51	0	276	1.9	1-Sided Adj	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year</u> <u>Labor</u> <u>NLbr</u> <u>NSE</u> <u>Total</u> <u>FTE</u> <u>Adj_Type</u>

Explanation:

RAMP (CFF6-3): RAMP Incremental; SCG-CFF-6 - Safety Management System – 3 – Continuous Improvement and Quality Assurance: SoCalGas plans to expand efforts in supporting its safety feedback mechanisms through enhancements of its processes for gathering and analyzing safety information. The goal is to continue to support a culture that integrates safety into every activity and process with the help of every SoCalGas employee. SoCalGas intends to add 1.9 FTE positions at a cost of \$236K (\$225k Labor/\$11K Non-Labor) plus \$40k for other non-labor costs to support this function. The efforts to support this function are as follows:

Field & Office Assessment Electronic Data Collection Tool - An electronic data collection tool for field and office assessments to increase efficiency, accuracy, and data sharing capabilities. The data will be gathered and analyzed to identify trends or other insights that will provide information to monitor and enhance internal processes. Evaluate a technology solution that effectively collects data for further analysis.

Calculation:

Non-labor: \$40k (Annual subscription cost - \$40k)

Operationalize Continuous Improvement Plan - Execute implementation activities to adopt the CI Plan. CI Plan will be disseminated throughout all stakeholders within the company. A set number of different stakeholder groups will meet with each month and information delivered.

Calculation:

Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k

Managing & Tracking Continuous Improvement Opportunities - Manage and systematically track to completion all Continuous Improvement opportunities that are provided to the company by both internal and external sources including contractors and audits. Internal sources include After Action Reports and Quality Management Base Audits. Develop metrics, identify trends and work with stakeholders to improve completion times of continuous improvement opportunities as well as identify pitfalls and other contingencies that delay completion and/or result in repeat offenses.

Calculation:

Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k

Field & Office Assessments Data Collection Tool - Project Manager to oversee the data collection tool for field and office assessments to increase efficiency, accuracy, and data sharing capabilities. The data will be gathered and analyzed to identify trends or other insights that will provide information to monitor and enhance internal processes. Evaluate a technology solution that effectively collects data for further analysis.

Calculation:

Labor cost for Project Manager: 1 FTE x 126k = 126kNon-labor cost for employee expenses: 1 FTE x 5k = 5k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type			
	PMO Structure Development and Implementation for Continuous Improvement Safety Projects - FTE support to help achieve SMS goals and optimize processes as well as tracking and metrics for consistent alignment of those projects. The FTE will also provide advisory services in regard to safety to share insight and experience and help facilitate change management. Calculation: Labor cost for Project Manager: 0.3 FTE x \$111.25k = \$33k Non-labor cost for employee expenses: 0.3 FTE x \$5k = \$2k								
2024	33	2	0	35	0.3	1-Sided Adj			
Explanation:	RAMP (CFF6-1): RAMP Framework: FTE support of the ASC and track and meetings. The Advisory advisory role on Safety remets quarterly and revipreparedness, as well a Calculation: Labor cost for Project Manual Calculation cost for employed and c	t for Advisory d drive all con Safety Counce lated items. ews, in depth, s visiting vario	Safety Councitinuous improvidus a council They advise safety related ous company f	il (ASC) - Ass vement oppor made up of ex the COO and d topics, such facilities.	ist with the deve tunities that ster xternal experts, designated del	elopment and growth m from the ASC which acts in an egates. The ASC			
2024 Total	516	66	0	582	4.4				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	200	337	328	363	418
Non-Labor	47	28	8	496	20
NSE	0	0	0	0	0
Total	247	364	337	859	437
FTE	2.1	2.9	2.7	2.8	3.3
djustments (Nominal \$) **					
Labor	437	428	322	350	451
Non-Labor	18	34	36	-473	0
NSE	0	0	0	0	0
Total	455	462	358	-123	451
FTE	4.4	4.5	3.3	3.1	3.9
Recorded-Adjusted (Nomina	al \$)				
Labor	636	765	650	713	869
Non-Labor	65	62	45	23	19
NSE	0	0	0	0	0
Total	701	827	694	736	888
FTE	6.5	7.4	6.0	5.8	7.2
acation & Sick (Nominal \$)					
Labor	108	132	123	126	153
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	108	132	123	126	153
FTE	1.2	1.4	1.2	1.1	1.3
scalation to 2021\$					
Labor	86	76	43	25	0
Non-Labor	8	6	3	2	0
NSE	0	0	0	0	0
Total	94	82	47	27	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	nt 2021\$)				
Labor	830	973	816	864	1,022
Non-Labor	73	67	48	25	19
NSE	0	0	0	0	0
Total	903	1,040	864	889	1,041
FTE	7.7	8.8	7.2	6.9	8.5

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs											
	Years	2017	2018	2019	2020	2021						
Labor	-	437	428	322	350	451						
Non-Labor		18	34	36	-473	-0.462						
NSE		0	0	0	0	0						
	Total –	455	462	358	-123	451						
FTE		4.4	4.5	3.3	3.1	3.9						

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	NLbr	<u>NSE</u>	<u>FTE</u>	Adj Type	
2017	0	1	0	0.0	CCTR Transf From 2200-2360.000	
Explanation:	Transferring to Non-Shared	l workpaper 2SM0	02.000 where	these activi	ties will be forecasted.	
2017	1	0	0	0.1	CCTR Transf From 2200-2360.000	
Explanation:	Transferring to Non-Shared	l workpaper 2SM0	02.000 where	these activi	ties will be forecasted.	
2017	436	18	0	4.3	CCTR Transf From 2200-2360.000	
Explanation:	Transferring to Non-Shared	l workpaper 2SM0	02.000 where	these activi	ties will be forecasted.	
2017	0	-1	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost	related to tickets	expense for co	ost center 22	200-2530	
2017	0	0	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost	related to dues ex	pense for cos	t center 220	0-2530	
2017 Total	437	18	0	4.4		
2018	428	34	0	4.5	CCTR Transf From 2200-2360.000	
Explanation:	Transferring to Non-Shared	l workpaper 2SM0	02.000 where	these activi	ties will be forecasted.	
2018 Total	428	34	0	4.5		
2019	322	36	0	3.3	CCTR Transf From 2200-2360.000	
Explanation:	Transferring to Non-Shared	l workpaper 2SM0	02.000 where	these activi	ties will be forecasted.	
2019 Total	322	36	0	3.3		
2020	0	-489	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related Catastrophic Event Memor		•	requested f	or recovery through a non-GRC	
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).					

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

2020	<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type	
2020	2020	0	0	0	0.0	CCTR Transf From 2200-2360.000	
Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2020 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). 2020 350 19 0 3.0 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2020 0 0 -2 0 0.0 1-Sided Adj Explanation: Adjustment to remove cost related to dues expense for cost center 2200-2030 2020 Total 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 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 8 3 3 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 9 0 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -1 0 0.0 1-Sided Adj Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -1 0 0.0 1-Sided Adj Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 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 1 0 -1 0 0.0 CTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 2 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 Acc	Explanation:	n: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted.					
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Catastrophic Event Memorandum Account (CEMA). 2021 8 3 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 9 0 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 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 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	2021	0	-1	0	0.0	1-Sided Adj	
Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 9 0 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 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 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	Explanation:		•		quested for re	ecovery through a non-GRC	
2021 9 0 0 0.1 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 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 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	2021	8	3	0	0.1	CCTR Transf From 2200-2360.000	
Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 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 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	Explanation:	Transferring to Non-Shared work	paper 2SM002.0	00 where the	ese activities	will be forecasted.	
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 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	2021	9	0	0	0.1	CCTR Transf From 2200-2360.000	
Explanation: Incremental COVID-related costs that are anticipated to be requested for recovery through a non-GRC Catastrophic Event Memorandum Account (CEMA). 2021 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	Explanation:	Transferring to Non-Shared work	paper 2SM002.0	00 where the	ese activities	will be forecasted.	
Catastrophic Event Memorandum Account (CEMA). 2021 434 19 0 3.7 CCTR Transf From 2200-2360.000 Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	2021	0	-1	0	0.0	1-Sided Adj	
Explanation: Transferring to Non-Shared workpaper 2SM002.000 where these activities will be forecasted. 2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	Explanation:		•		quested for re	ecovery through a non-GRC	
2021 0 -21 0 0.0 1-Sided Adj Explanation: Remove one time, non-recurring charges.	2021	434	19	0	3.7	CCTR Transf From 2200-2360.000	
Explanation: Remove one time, non-recurring charges.	Explanation:	Transferring to Non-Shared work	paper 2SM002.0	00 where the	ese activities	will be forecasted.	
	2021	0	-21	0	0.0	1-Sided Adj	
2021 Total 451 0 0 3.9	Explanation:	Remove one time, non-recurring	charges.				
	2021 Total	451	0	0	3.9		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: C06

RAMP Line Item Name: After Action Review Program

Tranche(/s): Tranche1: NA

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	39	39	39	39	315	385

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 3

RAMP Line Item Name: Continuous Improvement and Quality Assurance

Tranche(/s): Tranche1: NA

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	475	475	851	751	1,940	2,349

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM002, 2SM005 and 2200-2551.000).

Herita of	2021 Historical	2022	2023	2024	2024 RA	
Unit of Measure	Embedded Activities	Forecast Activities	Forecast Activities	Forecast Activities	Range Act Low	High_
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT
Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

RAMP Item # 3

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 1

RAMP Line Item Name: SMS Framework

Tranche(/s): Tranche1: NA

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	39	39	74	74	782	946

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM000, 2SM002 and 2SM004).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: D. CONTINUOUS IMPROVEMENT Category-Sub: 1. CONTINUOUS IMPROVEMENT

Workpaper: 2SM002.000 - CONTINUOUS IMPROVEMENT

RAMP Item # 4

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 6

RAMP Line Item Name: Expand Quality Assessment Program

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R: (2020 Incu	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	338	338	609	609	113	164

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT

Workpaper: 2SM003.000

Summary for Category: E. SAFETY MANAGEMENT

		In 2021\$ (000) Incu	rred Costs	
	Adjusted-Recorded		Adjusted-Forecast	
	2021	2022	2023	2024
Labor	1,998	2,097	2,922	3,203
Non-Labor	1,752	1,857	1,937	3,253
NSE	0	0	0	0
Total	3,750	3,954	4,859	6,456
FTE	18.1	19.0	27.3	30.0
Workpapers belonging	to this Category:			
2SM003.000 SAFETY	MANAGEMENT			
Labor	1,998	2,097	2,922	3,203
Non-Labor	1,752	1,857	1,937	3,253
NSE	0	0	0	0
Total	3,750	3,954	4,859	6,456
FTE	18.1	19.0	27.3	30.0

Beginning of Workpaper 2SM003.000 - SAFETY MANAGEMENT

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Activity Description:

Safety Management (SM) is responsible for positioning SoCalGas employees to perform their duties and responsibilities in a safe and productive manner. The services provided by SM include but are not limited to safety and industrial hygiene education and compliance, incident preventing training, incident analysis, and incident reporting.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing safety for our employee and contractors through such programs as defensive driving refresher training, industrial hygiene and environmental & safety compliance management. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing safety for our employee and contractors through such programs as defensive driving refresher training, industrial hygiene and environmental & safety compliance management. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

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	1,628	2,064	2,108	2,266	1,998	2,097	2,922	3,203			
Non-Labor	1,679	1,613	1,526	1,848	1,752	1,857	1,937	3,253			
NSE	0	0	0	0	0	0	0	0			
Total	3,306	3,677	3,634	4,114	3,750	3,954	4,859	6,456			
FTE	13.0	16.6	17.4	20.7	18.1	19.0	27.3	30.0			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecas	Forecast Method Base Forecast Forecast Adjustments			ments	Adjusted-Forecast						
Years	s	2022	2023	3 2024 2022 2023 2024			2022	2023	2024		
Labor	Base YR Rec	1,998	1,998	1,998	99	924	1,205	2,097	2,922	3,203	
Non-Labor	Base YR Rec	1,752	1,752	1,752	105	185	1,501	1,857	1,937	3,253	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	3,750	3,750	3,750	204	1,109	2,706	3,954	4,859	6,456	
FTE	Base YR Rec	18.1	18.1	18.1	0.9	9.2	11.9	19.0	27.3	30.0	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	55	103	0	158	0.5	1-Sided Adj	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (R5-C1): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee - C1 – Employee Health and Safety Programs and Standardized Policies: SoCalGas plans to continue to support its proactive measures via extensive employee training to prevent a safety incident from occurring. SoCalGas intends to add 0.5 FTE position at a cost of \$58K (\$55k Labor/\$3K Non-Labor) plus \$100k for other non-labor cost to support this function. The efforts to support this function are as follows:

Injury & Illness Prevention Program (IIPP): IIPP is a written plan for preventing injury and illness that includes procedures which are contained within manuals, for managers, supervisors, and employees to assist in establishing and sustaining a safe and healthy work environment. The plan is comprehensive and covers all aspects of employee health and safety requirements and expectations of the workforce.

Calculation:

Labor cost for Advisor positions: 0.2 FTE X \$111.25K = \$22k Non-labor cost for employee expenses: 0.2 FTE X \$5K = \$1k

Employee Safety Standards - Additional resources needed for compliance with increasing number of policies and programs being proposed by Cal/OSHA and implemented at SoCalGas. Enhanced client support and a more proactive approach to identifying and addressing safety and health issues. Safety Advisors are responsible for monitoring regulations, creating policies and procedures to match changes in safety and health regulations, developing internal safety policies and procedures to promote compliance with the applicable regulations, and managing Company-wide implementation of safety programs, such as Fall Protection Program, Incident Evaluations and Job Observations.

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Serious Injury and Fatality (SIF) Identification Vendor Support. Exposure Based Safety is the latest evolution that engages safety at the front-line and includes recent advances in SIF identification, leading measures, and identification. SoCalGas will develop a comprehensive approach to managing exposures at the working interface. The first step is to conduct a critical assessment needed to determine the current state of existing programs and data. The second phase is the implementation of the program. Total cost including assessment and implementation is \$100k. This cost will include planning and analysis, project team orientation and tool customization, site readiness/field testing/strategic recommendations, tactical plan, consulting services, license for implementation of EBS.B.S. process, workshops, and sustainability services.

Calculation: Non-labor: \$100k

2022 22 1 0 23 0.2 1-Sided Adj

SAFETY MANAGEMENT SYSTEMS Area:

Witness: Neena N. Master

E. SAFETY MANAGEMENT Category: Category-Sub: 1. SAFETY MANAGEMENT

Workpaper:	2SM003.000 - SAFETY MANAGEMENT								
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type			
Explanation:	RAMP (R5-C7): RAMP I C7 - Near Miss, Stop the Program - SoCalGas material personnel. Job observations and health manage cause of both minor and to reduce the occurrence feedback, and positive in provided feedback and calculation: Labor cost for Advisor personnel.	e Job and Jobs aintains a qualicervations and rinciples. SoC gement, focusi serious injurice of at-risk beinterventions ai coaching so the position: 0.2 FT	site Safety Fity assurance field rides and alGas's jobing on princies. The purphaviors by med at deveat their work	Programs: FTE to be program to as re conducted by observation pro- ples that recogn cose of the job of nodifying an indi- eloping safe wo of conforms to po	to manage the Jossess the work of management pogram is a proactive at-risk behabbservation and ividual's actions rk habits. Emplo	ob Observation quality of many of its personnel based upon stive approach to aviors as a frequent field ride process is through observation, byees are also			
2022	22	1	0	23	0.2	1-Sided Adj			
Explanation:	RAMP (R5-C4): RAMP I C4 – Employee Safety training and education its SoCalGas believes safe occurring. SoCalGas int to support this function. Safety Essentials for Su for new and existing sup leadership for supervisor training is mandatory for Calculation: Labor cost for Advisor po Non-labor cost for emplo	r Training and a s employees to ty starts with p tends to add 0 The effort to s pervisors Train ervisors to pro- rs to effectively all new super	Awareness of support a proactive up: 2 FTE positions are program ovide a comply manage so visors and in the E X \$111.25	Programs: SoC strong Injury an stream measure tion at a cost of function is as form – This program prehensive under a fety programs soffered as a result.	alGas plans to ad Illness Preverses to prevent a standard	continue its efforts to ntion Program. safety incident from por/\$1K Non-Labor) workshop developed at safety culture and we work location . This			
2022 Total	99	105	0	204	0.9				

Note: Totals may include rounding differences.

580

30

2023

0

610

6.0

1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Workpaper:	2SM003.000 - SAFE	TY MANAG	EMENT						
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type			
Explanation:	RAMP (R5-C5): RAMP Incremental (Employee Training); SCG-Risk-5 - Incident Involving and Employee - C5 - Safe Driving Programs: FTE support for the Defensive Driving Refresher Training Program - The SoCal Gas defensive driving program teaches employees safe techniques that help them proactively anticipate and react to numerous driving hazards. These techniques help protect company drivers from the careless actions of other drivers, poor road and weather conditions, and react accordingly during challenging situations. The defensive driving program also minimizes costs associated with vehicle maintenance and fuel because the principles are based on smooth and steady driving. SoCalGas plan to hire six (6) FTEs to receive DriverTrainer™ certification and train our required company drivers full-time daily. Based on historical data, approximately 6,800 employees will need								
	this training. To fulfill the classes taught each busir FTE will serve as a backtwo years. Calculation:	demand of these day of	training 6,800 (the year. Five	employees pe (5) FTEs will I	r year, we will r be driving instru	need to have five (5) uctors and one (1)			
	Labor cost for Specialist/ Non-labor for employee e				0k				
2023 Explanation:	·								
	Additional resources will be comply with the Cal/OSH, employees, and new programmers (R.M.I.) by can focus on Office Ergor	A regulation grams/techn / adding one	, manage the o	demands of ex ce the program	rpanded workfo to reduce inci	orce, new remote office dence of Repetitive			
	Calculation: Labor cost for Advisor pos Non-labor cost for employ								

Note: Totals may include rounding differences.

55

3

2023

0

58

0.5

1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper:	2SM003.000 - SAI	ETY MANAGE	EMENT			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	RAMP (R5-C1): RAMP - C1 - Employee Healt to support its proactive occurring. SoCalGas i to support this function Injury & Illness Prevent includes procedures who assist in establishing comprehensive and co of the workforce. Calculation: Labor cost for Advisor Non-labor cost for employee Safety Stand policies and programs support and a more proaction of the workforce and programs support and a more proaction of the workforce. Calculation: Labor cost for Advisor years are responsible changes in safety and promote compliance we safety programs, such Calculation: Labor cost for Advisor	h and Safety P measures via ntends to add (. The efforts to tion Program (I nich are contain y and sustaining vers all aspects cositions: 0.2 F loyee expense dards - Additior being proposed beactive approact le for monitorir health regulation as Fall Protecti	rograms and sextensive emple. 5 FTE position of support this for the property of the program	standardized Floyee training on at a cost of unction are as written plan for unals, for managealthy work enhealth and safe \$22k 5K = \$1k The eded for cortain and implement and address creating policing internal safe and managin incident Evaluation and safe and managin incident Evaluation and incident Evaluation and managin incident Evaluation and incident Evalua	Policies: SoCal to prevent a si \$58K (\$55k La follows: or preventing in agers, supervis vironment. Th fety requireme Inpliance with in ented at SoCal ing safety and es and proced ty policies and g Company-wi	Gas plans to continue afety incident from abor/\$3K Non-Labor) njury and illness that sors, and employees e plan is nts and expectations ncreasing number of Gas. Enhanced client health issues. Safety lures to match procedures to de implementation of
	Non-labor cost for emp	loyee expense	s: 0.3 FTE X \$	5K = \$2k		
2023	0	50	0	50	0.0	1-Sided Adj
Explanation:	RAMP (R5-M4): RAMF Employee – M4 – Crealibrary. The cost driver date Cal-OSHA complito all employees and with the Company. Videos wirtual library will allow safety video library will library will be accessible includes hiring a 3rd pasafety topics identified Calculation: Non-labor cost: \$50k (Non-labor cost)	tion of a Safety behind the cre ant safety reso ill consist of top will provide relia the capability t also provide tr e 24/7. The co arty vendor to p by the Compar	Video Library ation of a virtuation of a virtuation of a virtuation of a virtuation of the virtuation of virtuation of the virtuation of virtuation of the virtuation of virtuation	e: SoCal Gas vial safety videong and aware elevant to work up-to date, concess at remote of for supervisor safety video	will create a vir to library is to honess. The libration that is being compliant safety off-site locations conducting library is \$50,0	tual safety video ave a reliable up to ary will be accessible conducted throughout r information. The ons. Availability of the training since the 000 a year and
2023	0	60	0	60	0.0	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year</u> <u>Labor</u> <u>NLbr</u> <u>NSE</u> <u>Total</u> <u>FTE</u> <u>Adj_Type</u>

Explanation: RAMP (R5-M3): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee

– M3 – Proactive Monitoring for Indoor Air Quality and Chemicals of Concern: SoCalGas plans to continue to support safety concerns raised by employees regarding indoor air quality (IAQ). SoCalGas has adopted a new Proactive Monitoring program to conduct annual IAQ assessments at the six large headquarters facilities in its service territory as a mitigation measure. This measure along with other existing and new mitigation measures is expected to reduce SoCalGas's occupational injury rates based on the last five years' historical trend. SoCalGas intends to spend \$60K (non-Labor) to support this function. The effort to support this function is as follows:

Proactive monitoring for Indoor Air Quality and Chemicals of Concern - Industrial hygiene consultants are needed to conduct this new Proactive Monitoring program for annual Indoor Air Quality (IAQ) assessments at the six large headquarters facilities in our service territory. Our office-based employees at these key locations depend on healthy air quality to be productive at work. Many past instances of indoor air quality concerns or problems have been managed with a reactive approach. This causes interruption and concern by employees, and a great deal of time and resources. A proactive approach benefits all involved.

Calculation:

Non-labor: \$60k (6 Headquarter locations x \$10k per location)

2023 22 1 0 23 0.2 1-Sided Adj

Explanation: RAMP (R5-C7): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee

- C7 - Near Miss, Stop the Job and Jobsite Safety Programs: FTE support to manage the Job Observation Program - SoCalGas maintains a quality assurance program to assess the work quality of many of its field personnel. Job observations and field rides are conducted by management personnel based upon behavior-based safety principles. SoCalGas's job observation program is a proactive approach to safety and health management, focusing on principles that recognize at-risk behaviors as a frequent cause of both minor and serious injuries. The purpose of the job observation and field ride process is to reduce the occurrence of at-risk behaviors by modifying an individual's actions through observation, feedback, and positive interventions aimed at developing safe work habits. Employees are

also provided feedback and coaching so that their work conforms to policy and procedure.

Calculation:

Labor cost for Advisor position: 0.2 FTE X \$111.25K = \$22k Non-labor cost for employee expenses: 0.1 FTE X \$5K = \$1k

2023 9 1 0 10 0.1 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type
planation:	RAMP (R7-C1): RAM – C1 – Contractor Sar commitment to safety Contractor Safety Ove SoCalGas employees SoCalGas intends to this function. The effet Contractor Safety Stat Company Operations applies to SoCalGas Company. The standa contractor safety, requently employees who work inspections, and invest Calculation: Labor cost for Special Non-labor cost for employees who work	fety Oversight: Sofocuses in the ersight consists and contractor add 0.1 FTE poort to support the employees who ard establishes uirements for provide contractors stigations of contractors ist/Analyst: 0.1	SoCalGas pla areas of empl of contractor s are expecte sition at a cos is function is a - SoCalGas h ntractor Safet oversee Clas the policy, soc equalification s, and expecta ntractor safety	ans to continue aloyee safety, cursafety program and to adhere to state of \$10K (\$9k as follows: The safety program are to safety program. The safety program. The safety program approaches of contractors, ations on contractors, at a safety contract	to support its lor stomer safety a policies and pre SoCalGas's con Labor/\$1K Non- ets contractor sage standard is for and subcontract ach used by Soc roles and respo	ngstanding and public safety. Decedures that all amitment to safety. Labor) to support fety program in the internal use only and ctors on behalf of the CalGas to manage ansibilities for various
2023	85	5	0	90	1.0	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (R7-C2): RAMP Incremental (Enhancing User Experience); SCG-Risk-7 - Incident Involving a Contractor – C2 – Third-Party Administration Tools: SoCalGas plans to continue to utilize best-in-class third-party tools to manage various aspects of its contractor safety. SoCalGas intends to add 1.0 FTE position at a cost of \$90K (\$85k Labor/\$5K Non-Labor) to support this function. The efforts to support this function are as follows:

ISNetworld -The ISNetworld platform is used to pre-qualify, vet, and monitor Class 1 contractors for safety. ISNetworld is an online contractor and supplier management platform of data-driven products and services that help manage risk through data collected across the contractors' operations nationally. There is an annual subscription costs to utilize the ISN platform. SoCalGas will utilize the Safety Advisor position to manage this program.

Calculation:

Labor cost for Specialist/Analyst position: 0.6 FTE X \$85.5K = \$51k Non-labor cost for employee expenses: 0.6 FTE X \$5K = \$3k

Veriforce - SoCalGas utilizes Veriforce® to monitor contractors' compliance with the Pipeline and Hazardous Materials Safety Administration/Department of Transportation (PHMSA/DOT) Drug and Alcohol (D&A) program requirements. Veriforce® delivers a comprehensive solution for D &A compliance, combining software with audit services to help streamline management of the contractor D&A compliance program and drive improvements that mitigate contractor risk. The purpose of utilizing the Veriforce® platform is to streamline Operator Qualification (OQ) program administration and facilitate compliance with PHMSA OQ Rule requirements for Class 1 contractors who work on safety sensitive tasks. Veriforce® delivers a comprehensive solution for DOT/PHMSA OQ Rule compliance that supports OQ processes from end to end, uniting software with audit, consulting, and training services to support the management of SoCalGas's OQ program.

Calculation:

Labor cost for Specialist/Analyst position: 0.4 FTE X \$85.5K = \$34k Non-labor cost for employee expenses: 0.4 FTE X \$5.0K = \$2k

2023 22 29 0 51 0.2 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type	
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Explanation:

RAMP (R5-C4): RAMP Incremental (Employee Training); SCG-Risk-5 - Incident Involving an Employee – C4 – Employee Safety Training and Awareness Programs: SoCalGas plans to continue its efforts to training and education its employees to support a strong Injury and Illness Prevention Program. SoCalGas believes safety starts with proactive upstream measures to prevent a safety incident from occurring. SoCalGas intends to add 0.2 FTE position at a cost of \$23K (\$22k Labor/\$1K Non-Labor) plus \$28k for other non-labor costs to support this function. The efforts to support this function are as follows:

Safety Essentials for Supervisors Training Program – This program is a one-day workshop developed for new and existing supervisors to provide a comprehensive understanding about safety culture and leadership for supervisors to effectively manage safety programs at their respective work location. This training is mandatory for all new supervisors and is offered as a refresher to existing supervisors.

Calculation:

Labor cost for Advisor position: 0.2 FTE X \$111.25K = \$22k Non-labor cost for employee expenses: 0.2 FTE X \$5K = \$1k

On-line subscription for Safety Training Materials - Subscription to third-party online streaming service provider to get access to the latest safety training materials from a reputable training source. Inclusive of Cal Osha trainings, support for ongoing/continuous meetings.

Calculation:

Non-labor: 28k (on-line subscription fee)

2023 Total	924	185	0	1,109	9.2	
2024	580	30	0	610	6.0	1-Sided Adj

Explanation:

RAMP (R5-C5): RAMP Incremental (Employee Training); SCG-Risk-5 - Incident Involving and Employee - C5 - Safe Driving Program: FTE support for the Defensive Driving Refresher Training Program - The SoCal Gas defensive driving program teaches employees safe techniques that help them proactively anticipate and react to numerous driving hazards. These techniques help protect company drivers from the careless actions of other drivers, poor road and weather conditions, and react accordingly during challenging situations. The defensive driving program also minimizes costs associated with vehicle maintenance and fuel because the principles are based on smooth and steady driving.

SoCalGas plan to hire six (6) FTEs to receive DriverTrainer™ certification and train our required company drivers full-time daily. Based on historical data, approximately 6,800 employees will need this training. To fulfill the demand of training 6,800 employees per year, we will need to have five (5) classes taught each business day of the year. Five (5) FTEs will be driving instructors and one (1) FTE will serve as a back-up instructor and program coordinator. The certification would cost \$9k every two years.

1-Sided Adj

Calculation:

Labor cost for Specialist/Analyst position: 6 FTE X \$96.65K = \$580k

Non-labor for employee expenses: 6 FTE X \$5.0K = \$30k

2024 151 6 0 157 1.2

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

workpaper.									
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type			
Explanation:	RAMP (R5-C8): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee – C8 – Safety Culture Programs: SoCalGas plans to continue to promote a vigilant focus among all employees by investing in regular events on safety issues and facilitating discussion on safety practices. SoCalGas intends to add 1.2 FTE positions at a cost of \$157K (\$151k Labor/\$6K Non-Labor) to support this function. The effort to support this function is as follows: Ergonomics Program - SoCalGas recognizes the need to continue to provide a systematic process								
that communicates information to ensure that adequate and feasible solutions are available to mitigate the ergonomic risks in the workplace. There is a growing demand on SoCal Gas cu ergonomics program especially with the increase in remote workplaces needing ergonomic and assessments.									
	Additional resources will be needed for this program, which consists of only one ergonomist, to comply with the Cal/OSHA regulation, manage the demands of expanded workforce, new remote office employees, and new programs/technology. Enhance the program to reduce incidence of Repetitive Motion Injuries (R.M.I.) by adding one ergonomist so that one can focus on Field Ergonomics, and one can focus on Office Ergonomics.								
Calculation: Labor cost for Advisor positions: 1.2 FTE X \$126K = \$151k Non-labor cost for employee expenses:1.2 FTE X \$5.0K = \$6k									
2024	55	3	0	58	0.5	1-Sided Adj			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Category-Sub.	1. SAFETT WANAGEMENT							
Workpaper:	2SM003.000 - SAFETY MANAGEMENT							
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	RAMP (R5-C1): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee - C1 - Employee Health and Safety Programs and Standardized Policies: SoCalGas plans to continue to support its proactive measures via extensive employee training to prevent a safety incident from occurring. SoCalGas intends to add 0.5 FTE positions at a cost of \$58K (\$55k Labor/\$3K Non-Labor) to support this function. The efforts to support this function are as follows: Injury & Illness Prevention Program (IIPP): IIPP is a written plan for preventing injury and illness that includes procedures which are contained within manuals, for managers, supervisors, and employees to assist in establishing and sustaining a safe and healthy work environment. The plan is comprehensive and covers all aspects of employee health and safety requirements and expectations of the workforce. Calculation: Labor cost for Advisor positions: 0.2 FTE X \$111.25K = \$22k Non-labor cost for employee expenses: 0.2 FTE X \$5K = \$1k Employee Safety Standards - Additional resources needed for compliance with increasing number of policies and programs being proposed by Cal/OSHA and implemented at SoCalGas. Enhanced client support and a more proactive approach to identifying and addressing safety and health issues. Safety Advisors are responsible for monitoring regulations, creating policies and procedures to match changes in safety and health regulations, developing internal safety policies and procedures to promote compliance with the applicable regulations, and managing Company-wide implementation of safety programs, such as Fall Protection Program, Incident Evaluations and Job Observations. Calculation: Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k							
Explanation:	Employee – M4 – Cr library. The cost driv date Cal-OSHA comp to all employees and the Company. Video virtual library will allo safety video library w library will be access	eation of a Safet er behind the creation safety resolvent will consist of to swill provide relieve the capability will also provide to party vendor to put d by the Compa	ry Video Libra eation of a vilources for train emploration train emploration to train emploration to the virtus for virtus for the virtus for vir	ary: SoCal Gas virtual safety vide ining and aware relevant to work te, up-to date, copyees at remote lity for supervisoual safety video	will create a vir o library is to h ness. The librated that is being of compliant safety off-site location ors conducting library is \$50,0	ave a reliable up to ary will be accessible conducted throughout information. The area. Availability of the training since the		
2024	0	971	0	971	0.0	1-Sided Adj		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year</u> <u>Labor</u> <u>NLbr</u> <u>NSE</u> <u>Total</u> <u>FTE</u> <u>Adj_Type</u>

Explanation:

RAMP (R5-M2): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee - M2 - Industrial Hygiene Program Refresh: Industrial Hygiene consulting services are needed to conduct air monitoring exposure assessments to update data and ensure controls are in place to protect employees. Existing data is aging and incomplete in some areas. The air monitoring data is used to make decisions about tasks employees can safely do. It is essential that this data be current and correct as it impacts employee health. Exposure assessments have been conducted for over four decades to establish appropriate mitigation measures and controls and to comply with Cal/ OSHA regulations. Some elements that require updated exposure assessments include lead, chromium, welding training, welding field, asbestos, spray paint, hydrogen sulfide, wildfire smoke, acrolein, benzene, new products, NORMS/Radon, noise, and legionella.

Calculation:

Non-labor: \$971k (Consulting Services)

61

13

2024 **Explanation**:

RAMP (R5-M3): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee – M3 – Proactive Monitoring for Indoor Air Quality and Chemicals of Concern: SoCalGas plans to continue to support safety concerns raised by employees regarding indoor air quality (IAQ). SoCalGas has adopted a new Proactive Monitoring program to conduct annual IAQ assessments at the six large headquarters facilities in its service territory as a mitigation measure. This measure along with other existing and new mitigation measures is expected to reduce SoCalGas's occupational injury rates based on the last five years' historical trend. SoCalGas intends to add 0.1 FTE position at a cost of \$14K (\$13k Labor/\$1K Non-Labor) plus \$60k for other non-labor costs to support this function. The efforts to support this function are as follows:

74

0.1

1-Sided Adj

Proactive monitoring for Indoor Air Quality and Chemicals of Concern - Industrial hygiene consultants are needed to conduct this new Proactive Monitoring program for annual Indoor Air Quality (IAQ) assessments at the six large headquarters facilities in our service territory. Our office-based employees at these key locations depend on healthy air quality to be productive at work. Many past instances of indoor air quality concerns or problems have been managed with a reactive approach. This causes interruption and concern by employees, and a great deal of time and resources. A proactive approach benefits all involved.

Calculation:

Non-labor: \$60k (6 Headquarter locations x \$10k per location)

Indoor Air Quality & Chemicals of Concern Assessment - SoCalGas treats indoor air quality (IAQ) issues that are raised by employees as safety concerns. Such issues have been addressed in the past at large headquarters facilities, where employees work indoors on a full-time basis. To evaluate and address IAQ concerns, SoCalGas adopted a new Proactive Monitoring program to conduct annual IAQ assessments at the six large headquarters facilities in its service territory. This mitigation measure, in combination with other existing and new mitigation measures, is expected to reduce SoCalGas's occupational injury rates based on the last five years' historical trend.

Calculation:

Labor cost for Advisor position: 0.1 FTE x \$126k = \$13k Non-labor cost for employee expenses: 0.1 FTE x \$5k = \$1k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Workpaper:	25MUU3.UUU - SAFETY MANAGEMENT							
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type		
2024	22	1	0	23	0.2	1-Sided Adj		
Explanation:	RAMP (R5-C7): RAMP I - C7 - Near Miss, Stop the C7 - Near Miss, Stop the C7 - Near Miss, Stop the C8 - Stop of C8 - Stop of C8 - Stop of C8 - C8	ne Job and Job SoCalGas manel. Job observated safety properties of the contract of the contrac	obsite Safety Pintains a qualivations and fie inciples. SoCaement, focusirerious injuries. If at-risk behaviterventions air so that their was a so that their was so the so the so their was so the so the so their was so the so	Programs: FTE ty assurance peld rides are coalGas's job obs ng on principle The purpose viors by modify med at develovork conforms (= \$22k	support to ma program to assonducted by m servation progra s that recognize of the job observing an individu ping safe work	anage the Job sess the work quality of sanagement personnel ram is a proactive ze at-risk behaviors as ervation and field ride ual's actions through k habits. Employees are		
2024	86	6	0	92	1.0	1-Sided Adj		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (R7-C1): RAMP Incremental (Support Programs); SCG-Risk-7 - Incident Involving a Contractor – C1 – Contractor Safety Oversight: SoCalGas plans to continue to support its longstanding commitment to safety focuses in the areas of employee safety, customer safety and public safety. Contractor Safety Oversight consists of contractor safety program policies and procedures that all SoCalGas employees and contractors are expected to adhere to SoCalGas's commitment to safety. SoCalGas intends to add 1.0 FTE positions at a cost of \$92K (\$86k Labor/\$6K Non-Labor) to support this function. The efforts to support this function are as follows:

Contractor Safety Standard Program - SoCalGas has formalized its contractor safety program in the Company Operations Standard – Contractor Safety Program. The standard is for internal use only and applies to SoCalGas employees who oversee Class 1 contractors and subcontractors on behalf of the Company. The standard establishes the policy, scope, and approach used by SoCalGas to manage contractor safety, requirements for prequalification of contractors, roles and responsibilities for various employees who work with contractors, and expectations on contractor oversight, periodic safety inspections, and investigations of contractor safety incidents.

Calculation:

Labor cost for Specialist/Analyst: 0.1 FTE X \$85.5K = \$9k Non-labor cost for employee expenses: 0.1 FTE X \$5K = \$1k

Contractor Safety Manual - Contractor Safety Manual for Class 1 Contractors: In 2017, SoCalGas issued a contractor safety manual for use by all SoCalGas approved Pipeline Construction Contractors and their subcontractors. This manual consolidated in one place all the safety requirements and expectations SoCalGas has established for contractors working for SoCalGas. The manual provides guidelines on the process to be followed in managing safety construction projects, including reviewing applicable compliance requirements, providing appropriate oversight on contractor work, and reporting safety incidents.

Calculation:

Labor cost for Specialist/Analyst positions: 1.0 FTE X \$85.5K = \$86k Non-labor cost for employee expenses: 1.0 FTE X \$5K = \$5k

2024 139 14

153 1.1 1-Sided Adj

Explanation:

RAMP (R5-M6): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee - M6 - Industrial Hygiene Program Expansion: FTE support for managing the Industrial Hygiene Program - The Industrial Hygiene team will add two new initiatives, NIOSH Total Worker Health® and real-time Air Quality Index (AQI) monitoring for Wildfire Smoke Protection. Each of these programs includes developing policies and practices that integrate protection from work-related safety and health hazards and promotion of injury and illness-prevention efforts to advance worker well-being. The Wildfire Smoke Protection compliance includes data collection/management, smoke monitors and technical support to Facilities.

0

Calculation:

Labor cost for Advisor position: 1.1 FTE X \$126K = \$139k

Non-labor cost for employee expenses: 1.1 FTE X \$5.0K = \$6k; Other non-labor expenses: 32 smoke

monitors x \$250 = 8k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type
2024	137	8	0	145	1.6	1-Sided Adj

Explanation:

RAMP (R7-C2): RAMP Incremental (Enhancing User Experience); SCG-Risk-7 - Incident Involving a Contractor – C2 – Third-Party Administration Tools: SoCalGas plans to continue to utilize best-in-class third-party tools to manage various aspects of its contractor safety. SoCalGas intends to add 1.6 FTE positions at a cost of \$145K (\$137k Labor/\$8K Non-Labor) to support this function. The efforts to support this function are as follows:

ISNetworld -The ISNetworld platform is used to pre-qualify, vet, and monitor Class 1 contractors for safety. ISNetworld is an online contractor and supplier management platform of data-driven products and services that help manage risk through data collected across the contractors' operations nationally. There is an annual subscription costs to utilize the ISN platform. SoCalGas will utilize the Safety Advisor position to manage this program.

Calculation:

Labor cost for Specialist/Analyst position: 1.2 FTE X \$85.5K = \$103k Non-labor cost for employee expenses: 1.2 FTE X \$5K = \$6k

Veriforce - SoCalGas utilizes Veriforce® to monitor contractors' compliance with the Pipeline and Hazardous Materials Safety Administration/Department of Transportation (PHMSA/DOT) Drug and Alcohol (D&A) program requirements. Veriforce® delivers a comprehensive solution for D&A compliance, combining software with audit services to help streamline management of the contractor D&A compliance program and drive improvements that mitigate contractor risk. SoCalGas will utilize the Safety Advisor position to manage this program.

Calculation:

Labor cost for Specialist/Analyst position: 0.4 FTE X \$85.5K = \$34k Non-labor cost for employee expenses: 0.4 FTE X \$5.0K = \$2k

2024 0 350 0 350 0.0 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Year Labor NLbr NSE Total FTE Adj_Type

Explanation:

RAMP (R5-C3): RAMP Incremental (Support Programs); SCG-Risk-5 - Incident Involving an Employee – C3 – Employee Wellness Programs: Occupational Health Nurse Program - The drivers for adding additional Occupational Health Nurse (OHN) services include the scarcity of industrial clinics in remote areas such as the Bakersfield area and an increase request for OHN services in higher employee populated Company sites such as Monterey Park and Pico Rivera. The Company would like to expand the program to provide OHN support services at Bakersfield Base as well as the SCG.C.G. Monterey Park and Pico Rivera training sites. SoCalGas does not have an OHN supporting the northernmost service territory which includes Bakersfield, Visalia, Porterville, Valencia and Hanford bases.

SoCalGas would also like to add an additional shared OHN for Monterey Park and the Pico Rivera site. The closest OHN active site to these two sites is Compton HQ which is 13 miles away. Having closer access to an OHN would be beneficial for injury care and injury management. Pico Rivera houses on average 430 employees and with the approval and construction of the new Gas Control building, the sites capacity will increase to an additional 200 employees. Pico Rivera is a training hub, physical activities that take place during training have a high potential for harm and minor injuries. Monterey Park houses on average 350 employees and with current site renovations and improvements the capacity will also increase by an additional 200 employees. Between these Pico Rivera and Monterey Park there are 1,150 employees.

Calculation:

Non-labor: \$350k (2 Occupational Health Nurses)

Explanation:

2024

22 1 0 23 0.2 1-Sided Adj
RAMP (R5-C4): RAMP Incremental (Employee Training); SCG-Risk-5 - Incident Involving an Employee

– C4 – Employee Safety Training and Awareness Programs: SoCalGas plans to continue its efforts to training and education its employees to support a strong Injury and Illness Prevention Program. SoCalGas believes safety starts with proactive upstream measures to prevent a safety incident from occurring. SoCalGas will also enhance its safety training department by centralizing the training responsibility under one full-time position. SoCalGas intends to add 0.2 FTE positions at a cost of \$23K (\$22k Labor/\$1K Non-Labor) to support this function. The efforts to support this function is as

follows:

Safety Essentials for Supervisors Training Program – This program is a one-day workshop developed for new and existing supervisors to provide a comprehensive understanding about safety culture and leadership for supervisors to effectively manage safety programs at their respective work location. This training is mandatory for all new supervisors and is offered as a refresher to existing supervisors.

Calculation:

Labor cost for Advisor position: 0.2 FTE X \$111.25K = \$22k Non-labor cost for employee expenses: 0.2 FTE X \$5K = \$1k

2024 Total 1,205 1,501 0 2,706 11.9

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,409	1,622	1,678	1,872	1,926
Non-Labor	1,518	1,673	1,475	4,934	2,957
NSE	0	0	0	0	0
Total	2,927	3,295	3,153	6,807	4,883
FTE	12.4	14.2	14.6	17.4	17.2
Adjustments (Nominal \$) **					
Labor	-161	0	0	-2	-228
Non-Labor	-27	-194	-52	-3,217	-1,205
NSE	0	0	0	0	0
Total	-188	-194	-52	-3,219	-1,433
FTE	-1.4	0.0	0.0	-0.1	-1.9
Recorded-Adjusted (Nomina	al \$)				
Labor	1,248	1,622	1,678	1,871	1,698
Non-Labor	1,492	1,479	1,423	1,717	1,752
NSE	0	0	0	0	0
Total	2,740	3,101	3,101	3,588	3,450
FTE	11.0	14.1	14.6	17.3	15.3
/acation & Sick (Nominal \$)	1				
Labor	212	279	318	330	300
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	212	279	318	330	300
FTE	2.0	2.5	2.8	3.4	2.8
scalation to 2021\$					
Labor	168	162	112	65	0
Non-Labor	187	134	103	131	0
NSE	0	0	0	0	0
Total	355	296	214	197	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	nt 2021\$)				
Labor	1,628	2,064	2,108	2,266	1,998
Non-Labor	1,679	1,613	1,526	1,848	1,752
NSE	0	0	0	0	0
Total	3,306	3,677	3,634	4,114	3,750
FTE	13.0	16.6	17.4	20.7	18.1

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Summary of Adjustments to Recorded:

		In Nominal	\$ (000) Incurred Co	osts		
	Years	2017	2018	2019	2020	2021
Labor	-	-161	0	0	-2	-228
Non-Labor		-27	-194	-52	-3,217	-1,205
NSE		0	0	0	0	0
	Total	-188	-194	-52	-3,219	-1,433
FTE		-1.4	0.0	0.0	-0.1	-1.9

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2017	-161	-22	0	-1.4	CCTR Transf To 2200-2270.000
Explanation:	Transfer from 2SM003.000 to	2SM001.000 to co	nsolidate Eme	rgency Mar	nagement activities.
2017	0	-1	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for cost ce	nter 2200-2	157
2017	0	-3	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for cost ce	nter 2200-2	267
2017 Total	-161	-27	0	-1.4	
2018	0	-7	0	0.0	1-Sided Adj
Explanation:	Incremental costs that are ant Memorandum Account (CEMA	•	ested for recov	very througl	n a non-GRC Catastrophic Event
2018	0	-177	0	0.0	1-Sided Adj
Explanation:	Incremental costs that are ant Memorandum Account (CEMA	•	lested for recov	very througl	n a non-GRC Catastrophic Event
2018	0	-8	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for cost ce	nter 2200-2	157
2018	0	-2	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for cost ce	nter 2200-2	267
2018 Total	0	-194	0	0.0	
2019	0	-64	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for 2200-2	157	
2019	0	-2	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost rel	lated to dues expe	nse for cost ce	nter 2200-2	267
2019	0	15	0	0.0	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Year	Labor	NLbr	NSE	FTE	Adj Type
Explanation:	Transfer non-labor expense to the co			_	AG 1700
2019 Total	0	-52	0	0.0	
2020	-2	-6	0	-0.1	1-Sided Adj
Explanation:	Incremental COVID-related costs tha Catastrophic Event Memorandum Ac	-	-	uested for re	ecovery through a non-GRC
2020	0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs tha Catastrophic Event Memorandum Ac	-	-	uested for re	covery through a non-GRC
2020	0	-2,855	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that Catastrophic Event Memorandum Ac	-	-	uested for re	covery through a non-GRC
2020	0	-349	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that Catastrophic Event Memorandum Ac	•	-	uested for re	covery through a non-GRC
2020	0	-5	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost related to	dues expense	for cost cei	nter 2200-20	036
2020	0	-1	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost related to				
2020	0 Adjustment to remove cost related to	-2	0	0.0	1-Sided Adj
Explanation:					
2020 Total		-3,217	0	-0.1	
2021	0	-1 t are entisinate	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs tha Catastrophic Event Memorandum Ac	-	-		covery infough a non-GRC
2021	0	0	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs tha Catastrophic Event Memorandum Ac	•	•	uested for re	covery through a non-GRC
2021	0	-1,098	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs tha Catastrophic Event Memorandum Ac	•	•	uested for re	covery through a non-GRC
2021	0	-1	0	0.0	1-Sided Adj
Explanation:	Incremental COVID-related costs that Catastrophic Event Memorandum Ac	-	-	uested for re	covery through a non-GRC
2021	0	-25	0	0.0	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

Year	Labor	NLbr	NSE	FTE	Adj Type
Explanation:	Incremental COVID-related c				
	Catastrophic Event Memoran	dum Account (CEN	/IA).		
2021	-228	-3	0	-1.9	CCTR Transf To 2200-2270.000
Explanation:	Transfer from 2SM003.000 to	2SM001.000 to co	onsolidate Eme	rgency Man	agement activities.
2021	0	-5	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost re	lated to dues expe	nse		
2021	0	-1	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost re	lated to dues expe	nse		
2021	0	-3	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost re	lated to dues expe	nse		
2021	0	-68	0	0.0	1-Sided Adj
Explanation:	Remove one time, non-recurr	ring charges.			
2021 Total	-228	-1,205	0	-1.9	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C01

RAMP Line Item Name: Employee Health and Safety Programs and Standardized Policies

Tranche(/s): Tranche1: Overall

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast			2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	807	965	865	865	838	1,015

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with another witness (HR: SCG-28) and fall within the RAMP range.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	18.00	18.50	18.50	20.30	17.00	21.00

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 activ	ity.		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C08

RAMP Line Item Name: Safety Culture Programs

Tranche(/s): Tranche1: Overall

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	495	495	652	652	814	977

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 FTE	18.00	18.10	19.60	20.60	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	11.000	7.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item #3

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C07

RAMP Line Item Name: Near Miss, Stop the Job and Jobsite Safety Program

Tranche(/s): Tranche1: Overall

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	304	327	327	327	416	504

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 FTE	18.00	18.20	18.20	18.20	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	47.000	41.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT 1. SAFETY MANAGEMENT Category-Sub:

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item #4

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M03

RAMP Line Item Name: Proactive monitoring for indoor air quality and chemicals of concern

Tranche(/s): Tranche1: Non-Vehicle

GRC Forecast Cost Estima	<u>tes (\$000)</u>					
	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	0	0	60	74	59	78

Cost Estimate Changes from RAMP:

GRC forecast fall within the RAMP range.

GRC Work Unit/Activity Lev	el 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 Assessments	0.00	0.00	6.00	6.00	6.00	8.00
Work Unit Changes from RA	/MP·					

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Diale	C	Efficiency	(DCE)
KISK	Spena	ETTICIENCY	(KSE)

	GRC RSE	RAMP RSE	
Tranche 1	10.000	17 000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 5

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C05

RAMP Line Item Name: Safe Driving Programs

Tranche(/s): Tranche1: Vehicle

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	304	304	914	914	1,120	1,356

Cost Estimate Changes from RAMP:

GRC is outside RAMP range due to being one of several workpapers and/or witness areas that contributed dollars to this mitigation.

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 FTE	18.00	18.00	24.00	24.00	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Risk Spend Efficiency (RSE)

 GRC RSE
 RAMP RSE

 Tranche 1
 19.000
 11.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 6

RAMP Activity

RAMP Chapter: SCG-Risk-7 Incident Involving a Contractor

RAMP Line Item ID: C02

RAMP Line Item Name: Third Party Administration Tools

Tranche(/s): Tranche1: Non-Vehicle

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Ra (2020 Incu	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	188	188	278	333	47	57

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 License	3.00	3.00	3.00	3.00	3.00	3.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	14.000	182.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item #7

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C04

RAMP Line Item Name: Employee Safety Training and awareness programs

Tranche(/s): Tranche1: Overall

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	685	708	736	708	416	504

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with another witness (HR: SCG-28).

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 FTE	18.00	18.20	18.20	20.20	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	29.000	43.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item #8

RAMP Activity

RAMP Chapter: SCG-Risk-7 Incident Involving a Contractor

RAMP Line Item ID: C01

RAMP Line Item Name: Contractor Safety Oversight

Tranche(/s): Tranche1: Overall

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	188	188	198	280	1,586	1,920

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 FTE	2.00	2.10	2.10	3.40	2.00	2.00

Work Unit Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	71.000	11.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item #9

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C06

RAMP Line Item Name: Personal Protection Equipment (PPE)

Tranche(/s): Tranche1: Non-Vehicle Incident

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	304	304	304	304	1,082	1,309

Cost Estimate Changes from RAMP:

GRC is outside RAMP range due to being one of several workpapers and/or witness areas that contributed dollars to this mitigation.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	18.00	18.00	18.00	18.00	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall 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.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 10

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C09

RAMP Line Item Name: Utilizing Industry Best Practices and Benchmarking

Tranche(/s): Tranche1: Overall

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	191	191	191	191	1,012	1,225

Cost Estimate Changes from RAMP:

GRC is outside RAMP range due to being one of several workpapers and/or witness areas that contributed dollars to this mitigation.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	18.00	18.00	18.00	18.00	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

 GRC RSE
 RAMP RSE

 Tranche 1
 5.000

 5.000
 5.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 11

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M01

SCG-03/SDG&E-03, Chapter 2)

RAMP Line Item Name: OSHA Construction Certification Training

Tranche(/s): Tranche1: Non-Vehicle Incident

GRC Forecast Cost Estima	tes (\$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	0	0	0	0
Cost Estimate Changes fro GRC forecast fall within the						

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 Attendees	0.00	0.00	0.00	0.00	50.00	65.00

Risk Spend Efficiency (RSE)		
	GRC RSE	RAMP RSE
Tranche 1	0.000	33.000
U	or RSE values are primarily due to change: C Integration testimony of R. Scott Pearso	37 /

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 12

RAMP Activity

RAMP Chapter: SCG-Risk-7 Incident Involving a Contractor

RAMP Line Item ID: C03

RAMP Line Item Name: Contractor Engagement

Tranche(/s): Tranche1: Overall

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	94	94	94	94	10	13

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 Events	5.00	5.00	5.00	5.00	5.00	5.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	25.000	202.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 13

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M02

RAMP Line Item Name: Industrial Hygiene Program Refresh

Tranche(/s): Tranche1: Non-Vehicle

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	0	0	971	961	1,262

Cost Estimate Changes from RAMP:

GRC forecast fall 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 FTE	0.00	0.00	0.00	0.00	19.00	25.00

Work Unit Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update. The plan is to use consultants.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.340	0.400	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 14

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M06

RAMP Line Item Name: Industrial Hygiene Program Expansion

Tranche(/s): Tranche1: Non-Vehicle

GRC Forecast Cost Estima	ites (\$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	0	0	0	153	149	195
Cost Estimate Changes from						

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	0.00	0.00	0.00	1.50	2.00	3.00

Risk Spend Efficiency (RSE)									
	GRC RSE	RAMP RSE							
Tranche 1	45.000	60.000							
_									

SCG-03/SDG&E-03, Chapter 2)

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 15

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: M04

RAMP Line Item Name: Creation of a Safety Video Library

Tranche(/s): Tranche1: Overall

GRC Forecast Cost Estimates (\$000)					
				202	24
2021 Historical	2022	2023	2024	RAMP F	Range
Embedded Cost	Forecast	Forecast	Forecast	(2020 Inc	curred \$)
(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High

50 65 Tranche 1 Cost Estimate 0 0 50 50

Cost Estimate Changes from RAMP:

GRC forecast fall withing RAMP range.

GRC W	Vork U	nit/Activity	Level	Estimates
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Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	0.00	0.00	0.00	0.00	1.00	1.00

Work Unit Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Risk Spend Efficiency (RSE)

	GRC RSE	RAIVIP RSE
Tranche 1	25.000	22.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: E. SAFETY MANAGEMENT
Category-Sub: 1. SAFETY MANAGEMENT

Workpaper: 2SM003.000 - SAFETY MANAGEMENT

RAMP Item # 16

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C03

RAMP Line Item Name: Employee Wellness Programs

Tranche(/s): Tranche1: Overall

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	191	191	191	541	2,516	3,045	

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with another witness (HR: SCG-28)

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	6.00	6.00	6.00	6.00	6.00	7.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	5.000	2.000

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES

Workpaper: 2SM001.000

Summary for Category: F. EMERGENCY SERVICES

	Adjusted-Recorded		Adjusted-Forecast	
	2021	2022	2023	2024
Labor	1,620	2,195	2,547	2,547
Non-Labor	224	403	318	318
NSE	0	0	0	0
Total	1,844	2,598	2,865	2,865
FTE	14.9	20.7	23.7	23.7
Workpapers belonging	to this Category:			
2SM001.000 EMERGE	NCY SERVICES			
Labor	1,620	2,195	2,547	2,547
Non-Labor	224	403	318	318
NSE	0	0	0	0
Total	1,844	2,598	2,865	2,865
FTE	14.9	20.7	23.7	23.7

In 2021\$ (000) Incurred Costs

Beginning of Workpaper 2SM001.000 - EMERGENCY SERVICES

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

Activity Description:

The activities completed within this workgroup is dedicated to support the business operations with first responder outreach and emergency response, preparedness and recovery. The activities focus in the area of Emergency Response Training, Emergency Response Exercises and Drills, Stakeholder Outreach, Incident Command System, Mutual Assistance, Crisis Communications Technologies, Watch Desk, and Expert Advisory Services.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on expanding our emergency response/management planning processes. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on expanding our emergency response/management planning processes. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

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	1,748	1,454	1,268	1,193	1,620	2,195	2,547	2,547		
Non-Labor	335	829	1,470	628	224	402	317	317		
NSE	0	0	0	0	0	0	0	0		
Total	2,083	2,282	2,739	1,821	1,844	2,597	2,864	2,864		
FTE	12.8	10.6	10.8	12.4	14.9	20.7	23.7	23.7		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecast Method		Bas	se Foreca	st	Forec	ast Adjust	ments	Adjusted-Forecast			
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	1,620	1,620	1,620	575	927	927	2,195	2,547	2,547	
Non-Labor	Base YR Rec	224	224	224	179	94	94	403	318	318	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ı	1,844	1,844	1,844	754	1,021	1,021	2,598	2,865	2,865	
FTE	Base YR Rec	14.9	14.9	14.9	5.8	8.8	8.8	20.7	23.7	23.7	

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	483	25	0	508	5.0	1-Sided Adj	

Explanation:

Explanation:

RAMP (CFF3-8): RAMP Incremental; SCG-CFF-3 - Emergency Preparedness and Response and Pandemic - 8 - Watch Desk: Five FTE to support 24/7 Watch Office - SoCalGas has established a daily Watch Desk that provides real-time data to increase situational awareness of hazards, create executive notifications, and provide predictive analytics capabilities to help anticipate where a future disruption may arise. This capability has enhanced response capability and allows SoCalGas to address potential risks before they happen and take a forward-leaning posture for our emergency response.

Calculation:

Labor cost for Specialist/Analyst positions: 5 FTE x \$96.65k = \$483k

Non-labor cost for employee expenses: 5 FTE x \$5k = \$25k

2022 0 150 0 150 0.0 1-Sided Adj

RAMP (CFF3-3): RAMP Incremental; SCG-CFF-3 - Emergency Preparedness and Response and Pandemic - 3 - Stakeholder Outreach: Development of safety training video for First Responders Gas Related Safety Training Program- This program would provide safety and basic operational information

about gas and SoCalGas' facilities as they relate to First Responder operations and activities.

Calculation:

Non-labor cost: \$150k (Safety training video development cost)

2022 92 4 0 96 0.8 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

/Vorkpaper:	25M001.000 - EME	RGENCY SE	RVICES					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type		
Explanation:	Other: 2 FTE to support Regulatory Planning. S Safety Management System and consulting with impact and consulting with impact abor cost for Business Non-labor cost for employ (Note: Labor & non-labor Labor cost for Business Labor cost for Business	r. Business A stems team. acted stakeho Planner posi- byee expense or adjusted to	nalysts will be The Sr. Busin olders. tion (1): (0.8 F e: 0.8 FTE X \$ reflect FTE sta	acting in the ress Analysts w TE x \$ 115k) = 5K = \$4k arting employn	ole of Financial vill be leading d \$92k nent during the	Planner for the ata gathering efforts		
2022 Total	575	179	0	754	5.8			
2023 Explanation:	483 RAMP (CFF3-8): RAMP Pandemic - 8 - Watch D	esk: Five FTE	E to support 24	4/7 Watch Office	ce - SoCalGas	has established a		
	daily Watch Desk that provides real-time data to increase situational awareness of hazards, create executive notifications, and provide predictive analytics capabilities to help anticipate where a future disruption may arise. This capability has enhanced response capability and allows SoCalGas to address potential risks before they happen and take a forward-leaning posture for our emergency response.							
	Calculation:	t/Analyst nosi	tions: 5 FTF v	\$96 65k = \$49	3.2.k			

Labor cost for Specialist/Analyst positions: 5 FTE x \$96.65k = \$483k

Non-labor cost for employee expenses: 5 FTE x \$5k = \$25k

2023 111 5 0 116 1.0 1-Sided Adj

RAMP (CFF3-2): RAMP Incremental; SCG-CFF-3- Emergency Preparedness and Response and Pandemic - 2 - Training, Exercises and Drills: FTE support for ICS Response Structure Training - SoCal Gas is developing an implementation strategy/curriculum that will lead ICS response structure trainings. ICS response structure trainings and exercises will include expert instructors leading and facilitating such activities. There will also be the roll-out of web-based proficiency trainings and certifications. A training team will also develop exercise scenario/materials and facilitate ICS response

structure exercises.

Calculation:

Explanation:

Labor cost for Advisor positons: 1 FTE X \$111.25K = \$111k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

2023 111 5 0 116 1.0 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

лиоткрарет.	251V100 1.000 - LIVILI	NOLIVOT OLIV	VIOLO			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	RAMP (CFF3-3): RAMP Pandemic - 3 - Stakeholo Program - This program SoCalGas' facilities as the Calculation: Labor cost for Project Ma Non-labor cost for emplo	der Outreach: would provide wey relate to Fin	FTE support is safety and barst Responde	for First Responsic operations of roperations and the state of the sta	onders Gas Re al information	elated Safety Training
2023	222	9	0	231	1.8	1-Sided Adj
Explanation:	Other: 2 FTE to support Regulatory Planning. Sr Safety Management Sys and consulting with impact Calculation: Labor cost for Business Non-labor cost for Emplo	Business Anatems team. The cted stakehold Planner position yee expense: adjusted to reconstruction and the control of the con	alysts will be a ne Sr. Busine lers. on (1): (0.8 FT 0.8 FTE X \$5 flect FTE sta n (2): 1 FTE 3	acting in the ross Analysts w E x \$ 115k) = K = \$4k rting employm x \$126k = \$12	ole of Financia vill be leading d \$92k nent during the	I Planner for the lata gathering efforts
2023	0	50	0	50	0.0	1-Sided Adj
Explanation:	RAMP (CFF3-7): RAMP Pandemic - 7: Crisis Corduring a crisis are critical stakeholders. Current call Communication Program The Mobile Command Tracene of an emergency of facilitate communication support to our frontline element Command Trailers. Sood third-party vendor in order Calculation: Non-labor: \$50k (Emergence South Communication)	nmunication Tell to organizing, pabilities include. railer is a spector several day between responsible alGas plan to the to maintain response the complex of the complex	echnologies - establishing de technologi falized trailer s. It can be u onse crews, c ng a major ev provide on-go eadiness in c	SoCal Gas repriorities and for Mobile Control of that can be deserted as an Inciporation of the command staffent. SoCalGabing maintenal ase of an unformation of the control of the contro	ecognizes that sharing inform command Trailed eployed to and ident Comman f and external as currently has note for these torseen emerged	communications nation to key ers and a Satellite stationed at the nd Post (ICP) to agencies and provide s three Mobile railers through a ency.
2023 Total	927	94	0	1,021	8.8	
2024	483	25	0	508	5.0	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper:	2SM001.000 - EMEF	RGENCY SER	RVICES			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	RAMP (CFF3-8): RAMP I Pandemic - 8 - Watch De daily Watch Desk that pro executive notifications, and disruption may arise. This address potential risks be response. Calculation: Labor cost for Specialist/A Non-labor cost for employed	sk: Five FTE povides real-timent of provide pressed and provide pressed and provide pressed and provide they hap the provide analyst position of the provide p	to support 24 ne data to incedictive analytical enhanced upen and take	/7 Watch Office rease situation rease situation rease situation rease capponse cappa forward-lease \$96.65k = \$48	e - SoCalGas nal awareness s to help antici ability and allo ning posture fo	has established a of hazards, create pate where a future ws SoCalGas to
2024	111	5	0	116	1.0	1-Sided Adj
Explanation:	RAMP (CFF3-2): RAMP I Pandemic - 2 - Training E SoCal Gas is developing trainings. ICS response s facilitating such activities certifications. A training te structure exercises. Calculation: Labor cost for Advisor po Non-labor cost for employ	exercises and an implement structure train. There will also cam will also can will be	Drills: FTE so tation strategy ings and exercise be the roll-develop exercise X \$111.25k	upport for ICS //curriculum the cises will inche out of web-basise scenario/	Response Stronat will lead ICS ude expert instance sed proficiency	ucture Training - S response structure ructors leading and r trainings and
2024	111	5	0	116	1.0	1-Sided Adj
Explanation:	RAMP (CFF3-3): RAMP I Pandemic - 3 - Stakehold Program - This program v SoCalGas' facilities as th Calculation: Labor cost for Project Ma Non-labor cost for employ	er Outreach: would provide ey relate to Fi nager position	FTE support safety and barst Responde	for First Resp asic operation r operations a 11k = \$111k	onders Gas Re al information	elated Safety Training
2024	222	9	0	231	1.8	1-Sided Adj
Explanation:	Other: 2 FTE to support to Regulatory Planning. Sr. Safety Management System and consulting with impact and consulting with impact abor cost for Business F. Non-labor cost for employ (Note: Labor & non-labor Labor cost for Business A.	Business And the state of the stakehold	alysts will be the Sr. Busineders. on (1): (0.8 FT 0.8 FTE X \$5 effect FTE starn (2): 1 FTE :	acting in the ress Analysts w TE x \$115k) = K = \$4k rting employn x \$126k = \$12	ole of Financial ill be leading d \$92k nent during the	l Planner for the ata gathering efforts
Mata. T ()	Non-labor cost for employ	-	: 1 FTE x \$5k	: = \$5k		
ivote: Totals ma	ay include rounding differen	ces.				

SAFETY MANAGEMENT SYSTEMS Area:

Neena N. Master Witness:

F. EMERGENCY SERVICES Category: 1. EMERGENCY SERVICES Category-Sub:

Workpaper:	2SM001.000 - EM	ERGENCY SE	RVICES			
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type
2024	0	50	0	50	0.0	1-Sided Adj
Explanation:	RAMP (CFF3-7): RAMI Pandemic - 7: Crisis Coduring a crisis are critic stakeholders. Current of Communication Progration of the Mobile Command scene of an emergency facilitate communication support to our frontline Command Trailers. So third-party vendor in or Calculation: Non-labor: \$50k (Emerplus \$5k for miscellane	ommunication al to organizin capabilities inc m. Trailer is a spe r for several da n between res employees du CalGas plan to der to maintair	Technologies g, establishir lude technologies ecialized traile ays. It can be ponse crews ring a major o provide on readiness ir	s - SoCal Gas reng priorities and ogy for Mobile Corer that can be do used as an Inc., command staff event. SoCalGagoing maintenant case of an unf	ecognizes that sharing inform command Trail eployed to and ident Comman if and external as currently had ince for these forseen emerg	d stationed at the agencies and provide staties and provide staties and provide trailers through a
2024 Total	927	94	0	1,021	8.8	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusted	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	1,180	1,143	1,010	990	1,150
Non-Labor	300	1,083	1,389	749	422
NSE	0	0	0	0	0
Total	1,480	2,226	2,398	1,739	1,572
FTE	9.5	8.9	9.0	10.4	10.7
djustments (Nominal \$) **					
Labor	161	0	0	-5	227
Non-Labor	-2	-323	-17	-166	-198
NSE	0	0	0	0	0
Total	159	-323	-17	-171	29
FTE	1.4	0.0	0.0	-0.1	1.8
Recorded-Adjusted (Nomin	al \$)				
Labor	1,340	1,143	1,010	985	1,377
Non-Labor	298	760	1,371	584	224
NSE	0	0	0	0	0
Total	1,638	1,902	2,381	1,569	1,601
FTE	10.9	9.0	9.0	10.3	12.5
acation & Sick (Nominal \$)				
Labor	227	197	191	174	243
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	227	197	191	174	243
FTE	1.9	1.6	1.8	2.1	2.4
scalation to 2021\$					
Labor	181	114	67	34	0
Non-Labor	37	69	99	45	0
NSE	0	0	0	0	0
Total	218	183	166	79	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	ant 2021\$)				
Labor	1,748	1,454	1,268	1,193	1,620
Non-Labor	335	829	1,470	628	224
NSE	0	0	0	0	0
Total	2,083	2,282	2,739	1,821	1,844
FTE	12.8	10.6	10.8	12.4	14.9

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

Summary of Adjustments to Recorded:

	In Nominal \$ (000) Incurred Costs									
	Years	2017	2018	2019	2020	2021				
Labor		161	0	0	-5	227				
Non-Labor		-2	-323	-17	-166	-198				
NSE		0	0	0	0	0				
	Total	159	-323	-17	-171	29				
FTE		1.4	0.0	0.0	-0.1	1.8				

Detail of Adjustments to Recorded:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>FTE</u>	Adj Type
2017	0	-8	0	0.0	1-Sided Adj
Explanation:	Incremental costs that are an Memorandum Account (CEM		ested for reco	very through	a non-GRC Catastrophic Event
2017	161	22	0	1.4	CCTR Transf From 2200-2241.000
Explanation:	Transfer from 2SM003.000 to	2SM001.000 to cor	nsolidate Eme	ergency Man	agement activities.
2017	0	-16	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost re	lated to dues exper	se for cost ce	enter 2200-0	313
2017	0	-1	0	0.0	1-Sided Adj
Explanation:	Adjustment to remove cost re	lated to dues expen	se for cost ce	enter 2200-22	270
2017 Total	161	-2	0	1.4	
2018	0	-298	0	0.0	1-Sided Adj
Explanation:	Incremental costs that are an Memorandum Account (CEM		ested for reco	very through	a non-GRC Catastrophic Event
2018	0	-24	0	0.0	1-Sided Adj
	•		U	0.0	1 Oldod 7 tdj
Explanation:	Adjustment to remove cost re	lated to dues expen	•		•
Explanation: 2018	•	lated to dues expen	•		•
2018	Adjustment to remove cost re	-2	se for cost ce	enter 2200-00 0.0	613 1-Sided Adj
2018	Adjustment to remove cost re	-2	se for cost ce	enter 2200-00 0.0	613 1-Sided Adj
2018 Explanation:	Adjustment to remove cost re 0 Adjustment to remove cost re	-2 lated to dues expen	se for cost ce 0 se for cost ce	0.0 0.0 enter 2200-2	613 1-Sided Adj
2018 Explanation: 2018 Total 2019	Adjustment to remove cost re 0 Adjustment to remove cost re 0 0	-2 lated to dues expen -323 -1 ticipated to be reque	ose for cost ce 0 se for cost ce 0 0	0.0 enter 2200-22 0.0 0.0 0.0	513 1-Sided Adj 270
2018 Explanation: 2018 Total	Adjustment to remove cost re 0 Adjustment to remove cost re 0 0 Incremental costs that are an	-2 lated to dues expen -323 -1 ticipated to be reque	ose for cost ce 0 se for cost ce 0 0	0.0 enter 2200-22 0.0 0.0 0.0	1-Sided Adj 1-Sided Adj 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>FTE</u>	Adj Type
2019	0	-62	0	0.0	1-Sided Adj
xplanation:	Adjustment to remove cost relate	d to dues exper	se for cost ce	enter 2200-22	270
2019	0	29	0	0.0	1-Sided Adj
xplanation:	Transfer non-labor expense to th	e correct witnes	s area 2200.8	000.002	
2019	0	35	0	0.0	1-Sided Adj
xplanation:	Transfer non-labor expense to th	e correct witnes	s area 2200.8	000.002	
2019 Total	0	-17	0	0.0	
2020	0	0	0	0.0	1-Sided Adj
xplanation:	Incremental costs that are anticip Memorandum Account (CEMA).	ated to be requ	ested for reco	very through	a non-GRC Catastrophic Event
2020	-5	-143	0	-0.1	1-Sided Adj
explanation:	Incremental COVID-related costs Catastrophic Event Memorandum			quested for re	ecovery through a non-GRC
2020	0	0	0	0.0	1-Sided Adj
xplanation:	Incremental COVID-related costs Catastrophic Event Memorandum	•		quested for re	ecovery through a non-GRC
2020	0	-22	0	0.0	1-Sided Adj
xplanation:	Adjustment to remove cost relate	d to dues exper	ise for cost ce	enter 2200-06	313
2020 Total	-5	-166	0	-0.1	
2021	-1	-17	0	-0.1	1-Sided Adj
xplanation:	Incremental COVID-related costs Catastrophic Event Memorandun			quested for re	ecovery through a non-GRC
2021	0	0	0	0.0	1-Sided Adj
explanation:	Incremental COVID-related costs Catastrophic Event Memorandun			quested for re	ecovery through a non-GRC
2021	0	-21	0	0.0	1-Sided Adj
xplanation:	Adjustment to remove cost relate	d to dues exper	se for cost ce	enter 2200-06	613
2021	0	-163	0	0.0	1-Sided Adj
xplanation:	Remove one time, non-recurring	charges.			
2021	228	3	0	1.9	CCTR Transf From 2200-2241.000
xplanation:	Transfer from 2SM003.000 to 2S	M001.000 to co	nsolidate Eme	ergency Man	agement activities.
2021 Total	227	-198	0	1.8	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 8

RAMP Line Item Name: Response: Watch Desk

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	508	508	508	760	1,100

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update (Decrease in headcount; Job scope was reclassified).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 09

RAMP Line Item Name: Expert Advisory Support

Tranche(/s): Tranche1: NA

<u>GRC</u>	Forecast	Cost	Estimates	<u>(\$000)</u>

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R: (2020 Incu	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	80	80	80	80	175	255

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 3

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 3

RAMP Line Item Name: Stakeholder Outreach

Tranche(/s): Tranche1: NA

<u>GRC</u>	Forecast	Cost	<u>Estimates</u>	<u>(\$000)</u>

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP R: (2020 Incu	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	161	311	277	277	105	130

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk	Snend	Efficiency	(RSF)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 4

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 7

RAMP Line Item Name: Crisis Communication Technologies

Tranche(/s): Tranche1: NA

<u>GRC</u>	<u>Forecast</u>	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	310	310	360	360	315	385

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 5

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 2

RAMP Line Item Name: Training, Exercises and Drills

Tranche(/s): Tranche1: NA

<u>GRC</u>	Forecast	Cost	Estimates	<u>(\$000)</u>

	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	161	161	277	277	105	130

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 6

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 1

RAMP Line Item Name: Policies & Procedures

Tranche(/s): Tranche1: NA

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	161	161	161	161	105	130

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

GRC Work Unit/Activit	v 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 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 7

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 4

RAMP Line Item Name: Incident Command Structure

Tranche(/s): Tranche1: NA

Tranche 1 Cost Estimate

GRC Forecast Cost Estimates (\$000)					
				202	=
2021 Historical	2022	2023	2024	RAMP R	lange
Embedded Cost	Forecast	Forecast	Forecast	(2020 Inc	urred \$)
(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High

435

435

290

435

355

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

435

GRC Work Unit/Activity Level Estimates							
Unit of Measure	2021 Historical Embedded Activities	2022 Forecast Activities	2023 Forecast Activities	2024 Forecast Activities	2024 RA Range Act Low		
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00	
Work Unit Changes from RAMP: A unit range description was not provided in RAMP.							

Risk Spend Efficiency (RSE)				
	GRC RSE	RAMP RSE		
Tranche 1	0.000	0.000		
RSE Changes from RAMP: A RSE range description was not p	provided in RAMP.			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

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RAMP Item #8

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 5

RAMP Line Item Name: Mutual Assistance

Tranche(/s): Tranche1: NA

<u>GRC</u>	<u>Forecast</u>	Cost	Estimates	<u>(\$000)</u>

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast	2024 Forecast	2024 RAMP Ra (2020 Incu	ange
	(2021 \$)	(2021 \$)	(2021 \$)	(2021 \$)	Low	High
Tranche 1 Cost Estimate	38	38	38	38	20	20

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 Membership Fee	1.00	0.00	0.00	1.00	1.00	1.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE		
Tranche 1	0.000	0.000		

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 9

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 6

RAMP Line Item Name: After Action Review Program

Tranche(/s): Tranche1: NA

	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	473	473	473	473	315	385

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

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 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: F. EMERGENCY SERVICES
Category-Sub: 1. EMERGENCY SERVICES

Workpaper: 2SM001.000 - EMERGENCY SERVICES

RAMP Item # 10

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: 11

RAMP Line Item Name: Emergency Management Technology

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estima	ites (\$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	0	0	0	0	700	910
Cost Estimate Changes fro GRC forecast is outside the		forecast update.				

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	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:								
A RSE range description was not	provided in RAMP.							

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

G. TECHNOLOGY & ANALYTICS Category:

Workpaper: 2SM005.000

Summary for Category: G. TECHNOLOGY & ANALYTICS

		In 2021\$ (000) Incu	urred Costs	
	Adjusted-Recorded	· · ·	Adjusted-Forecast	
	2021	2022	2023	2024
Labor	524	642	1,292	1,292
Non-Labor	815	973	1,164	889
NSE	0	0	0	0
Total	1,339	1,615	2,456	2,181
FTE	5.3	6.4	12.3	12.3
apers belonging	to this Category:			
005.000 TECHNO	LOGY & ANALYTICS			

Workpa

2SM0

Labor	524	642	1,292	1,292
Non-Labor	815	973	1,164	889
NSE	0	0	0	0
Total	1,339	1,615	2,456	2,181
FTE	5.3	6.4	12.3	12.3

Beginning of Workpaper 2SM005.000 - TECHNOLOGY & ANALYTICS

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Activity Description:

The Safety Management System Technology and Analytics Group (SMS TAG) consist of two groups under one cost center, the SMS Technology Advancement and the Metrics and Analytics groups. These groups are responsible for supporting the SMS organization by using data and technology to identify key performance indicators and associated risk factors from various data sources to maintain, promote and enhance the efficiency and effectiveness of SMS programs and initiatives. Additionally, these groups focus on establishing and maintaining data integrity and record-keeping programs and systems for the SMS organization.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing our various quality management and safety data related reporting & analytics dashboards. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis on enhancing our various quality management and safety data related reporting & analytics dashboards. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group which require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

		In 2021\$ (000) Incurred Costs									
		Adju	ısted-Recor	ded		Ad	justed-Fore	cast			
Years	2017	2018	2019	2020	2021	2022	2023	2024			
Labor	0	0	0	560	524	642	1,292	1,292			
Non-Labor	0	0	50	749	815	973	1,164	889			
NSE	0	0	0	0	0	0	0	0			
Total	0	0	50	1,309	1,339	1,615	2,456	2,181			
FTE	0.0	0.0	0.0	5.2	5.3	6.4	12.3	12.3			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Summary of Adjustments to Forecast:

			In 202	1 \$(000) li	ncurred Co	sts				
Forecas	t Method	Bas	se Foreca	st	Forec	Forecast Adjustments Adjusted-Forecast			ast	
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	524	524	524	118	768	768	642	1,292	1,292
Non-Labor	Base YR Rec	815	815	815	158	349	74	973	1,164	889
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	ıl	1,339	1,339	1,339	276	1,117	842	1,615	2,456	2,181
FTE	Base YR Rec	5.3	5.3	5.3	1.1	7.0	7.0	6.4	12.3	12.3

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj Type	
2022	85	156	0	241	0.8	1-Sided Adj	

Explanation:

RAMP (CFF6-4): RAMP Incremental; SCG-CFF-6 - Safety Management System – 4 – Technology & Analytics: SoCalGas plans to continue to find ways to link key performance indicators, data and technology to enhance safety performance and safety culture across the Company. SoCalGas intends to add 0.8 FTE positions at a cost of \$90K (\$85k Labor/\$5K Non-Labor) plus \$151k for other non-labor to support this function. The efforts to support this function are as follows:

Environmental Health and Safety Management (EHSM) Program – Metrics and Analytics Team supports and approves the transition of safety applications, including Safety Incident Management System (SIMS) Support, system administration, reporting and maintenance. This initiative will consolidate various environmental, health and safety applications and allow a centralized database to process safety analytics and enhance reporting and business processes.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

FTE support for On-Call Application - On-Call Application is a new application in development to support On-Call Services. This application will automate manual on-call processes for various business units and will enhance emergency safety operations. Technology Advancement will be responsible for the system administration, access controls, reporting, communications and troubleshooting.

Calculation:

Labor cost for Specialist/Analyst position: 0.3 FTE X \$96.65K = \$29k

Non-Labor cost for employee expenses: 0.3 FTE X \$5K = \$2k; Other non-labor: \$16k (maintenance fee)

Dashboard enhancements – Consultant support to perform new and existing dashboard enhancements to increase executive visibility to safety KPI and compliance metrics.

Calculation: Non-labor: \$135k (Consulting Services)

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

2023

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

624

219

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type
2022	33	2	0	35	0.3	1-Sided Adj
Explanation:	Other: FTE support for available via SharePoin resources, training, info Calculation: Labor cost for Advisor p Non-labor cost for empl	t for employee rmation and re osition: 0.3 F	es and contrace eporting for er	ctors. It will en nployees. K = \$33k		
2022 Total	118	158	0	276	1.1	

0

843

5.7

1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

Explanation:

RAMP (CFF6-4): RAMP Incremental; SCG-CFF-6 - Safety Management System – 4 – Technology & Analytics: SoCalGas plans to continue to find ways to link key performance indicators, data and technology to enhance safety performance and safety culture across the Company. SoCalGas intends to add 5.7 FTE positions at a cost of \$657K (\$624k Labor/\$33K Non-Labor) plus \$186k for other non-labor costs to support this function. The efforts to support this function are as follows:

Noggin System - Noggin System is used for Emergency Management. The system includes two modules, the Incident Management System (IMS) and the Situational Management Platform (SPS). The Noggin system is used for incident, emergency, and situational management, including communications via message center reports (MCRs). The Technology advancement team is responsible for enhancing the Emergency Management system by implementing system changes, communicating outages or updates, and managing system integrations. In addition to the support functions mentioned, report automation and system access controls will be implemented. Technology Advancement supports other Emergency Management technology, including satellite phones, laptops, technical and reporting support.

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Enhancements to Employee Safety Data Reporting – The Metrics and Analytics Team is responsible for various reports, including new processes for report automation, evaluating reporting synergies, and process improvement to enhance safety reporting operations.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

Safety Performance Metrics Reporting System (SPMR) - SPMR is used to collect metrics. The Metrics and Analytics team administers, supports reporting, data governance, maintenance, training, stakeholder engagement, and enhancements.

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Environmental Health and Safety Management (EHSM) Program – Metrics and Analytics Team supports and approves the transition of safety applications, including Safety Incident Management System (SIMS) Support, system administration, reporting and maintenance. This initiative will consolidate various environmental, health and safety applications and allow a centralized database to process safety analytics and enhance reporting and business processes.

Calculation:

Labor cost for Advisor position: 0.5 FTE X 111.25K = 56k Non-labor cost for employee expenses: 0.5 FTE X 5K = 3k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

<u>Year Labor NLbr NSE Total FTE Adj_Type</u>

KPI Analysis Governance – The Metrics and Analytics Team supports Key Performance Indicators (KPI) Analysis and Governance. This includes data validation, trend analysis to measure the effectiveness of our operations, risk management and adequacy of our SMS.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

Enhancements to the Employee Safety Data Analytics - The Metrics and Analytics team supports the maintenance and enhancements of various safety data-related dashboards. The initiative includes enhancing current and implementing new analytical processes. New analytical processes will support the SMS goals by providing new insights into employee safety. In addition, the Metrics and Analytics team supports the maintenance and enhancement of various Safety data-related dashboards.

Calculation:

Labor cost for 1 Advisor position: 1 FTE X \$111.25K = \$111k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

Employee Safety Data Governance – This initiative will improve the safety data collection process and data integrity and governance.

Calculation:

Labor cost for Advisor position: 0.8 FTE X \$111.25K = \$89k Non-labor cost for employee expenses: 0.8 FTE X \$5K = \$4k

Consultant Support for Development of a Centralized Database for Incident Evaluation - Common database for incident investigation documentation, causes, contributing factors and remedial corrective actions across divisions.

Calculation:

Non-labor: \$125k (Consultant fees: \$20.8k x 6 months)

FTE support for On-Call Application - On-Call Application is a new application in development to support On-Call Services. This application will automate manual on-call processes for various business units and will enhance emergency safety operations. Technology Advancement will be responsible for the system administration, access controls, reporting, communications and troubleshooting.

Calculation:

Labor cost for Specialist/Analyst position: 0.3 FTE X \$96.65K = \$29k Non-Labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Dashboard enhancements – Consultant support to perform new and existing dashboard enhancements to increase executive visibility to safety KPI and compliance metrics.

Calculation: Non-labor: \$45k (Consulting Services)

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Year Labor NLbr NSE Total FTE Adj_Type FTE support for Contractor Safety Data Reporting and Analytics Enhancements - The Metrics and Analytics Team support the maintenance and enhancements of contractor safety data-related dashboards. Initiatives include incorporating analytical processes in existing and new safety data to enhance contractor safety operations and improve safety metrics. Calculation: Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k FTE for Predictive Safety Analytics System Application - This is a new application in development to support predictive safety analytics for controllable motor vehicle incidents (CMVI). The application will provide insights to proactively coach employees on preventing Motor Vehicle Incidents. Calculation:

Labor cost for Specialist/Analyst position: 0.5 FTE X \$96.65K = \$48k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

FTE to support Root Cause Training Program – The Root Cause Training Program will promote effective and consistency incident investigation across the company. The Metrics and Analytics Team will be responsible for system administration, maintenance and enhancements.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

2023 111 128 0 239 1.0 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Workpaper:	2SM005.000 - TEC	CHNOLOGY 8	& ANALYTICS				
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	Adj_Type	
Explanation:	RAMP (CFF6-3): RAMF Improvement and Quali information in the areas to these efforts will contilearning from events to cost of \$116k (\$111k Lafunction. The efforts to Implement a formalized and consistency incider Calculation: Non-labor: \$123k (Roof Maintenance Fee = \$18 FTE support for Develo - The Metrics and Analy Quality Management dareporting and identifying Distribution Pipeline Paragraphic Compressor Station Proceeds & Mark, Transmoperator Qualifications Checks for 30/60/90 Darojects and Distribution Calculation: Labor cost for Advisor procedulation:	ity Assurance of incidents, tinue to build achieve the sabor/\$5k Nonsupport this fall Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the cause Analy 3k) I Root Cause of the investigation of the investi	E SoCalGas profeedback and and support professed outcome Labor) plus \$ function are as Analysis Train across the converse Train-the-concements & More Profession Bridge & Lation Pipeline Profession Bridge & Lation Bri	lan to enhance of the performance of the performanc	the capability to neasurement. If esult in collective intends to add 1 non-labor costs in the Quality Mannaintaining and gy that allows truclude Distributions PSEP Closent, PSEP Closen	o gather safety related Resources dedicated re participation and 1.0 FTE position at a to support this ill promote effective ee = \$105K and Annual agement Dashboards reporting various recking, analyzing, on Bridge & Span, Patrol, Gas Handling, Construction eout, Transmission on Leak Survey and No Gas, Squad	
2023	33	2	0	35	0.3	1-Sided Adj	
Explanation:	ation: Other: FTE support for SMS SharePoint Redesign - This initiative will enhance safety resources available via SharePoint for employees and contractors. It will enhance our SMS by providing resources, training, information and reporting for employees. Calculation: Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k						
2023 Total	768	349	0	1,117	7.0		

Note: Totals may include rounding differences.

624

49

2024

0

673

5.7

1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Year Labor <u>NLbr</u> <u>NSE</u> <u>Total</u> <u>FTE</u> <u>Adj_Type</u>

Explanation:

RAMP (CFF6-4): RAMP Incremental; SCG-CFF-6 - Safety Management System – 4 – Technology & Analytics: SoCalGas plans to continue to find ways to link key performance indicators, data and technology to enhance safety performance and safety culture across the Company. SoCalGas intends to add 5.7 FTE positions at a cost of \$657K (\$624k Labor/\$33K Non-Labor) plus \$16k for other non-labor costs to support this function. The efforts to support this function are as follows:

Noggin System - Noggin System is used for Emergency Management. The system includes two modules, the Incident Management System (IMS) and the Situational Management Platform (SPS). The Noggin system is used for incident, emergency, and situational management, including communications via message center reports (MCRs). The Technology advancement team is responsible for enhancing the Emergency Management system by implementing system changes, communicating outages or updates, and managing system integrations. In addition to the support functions mentioned, report automation and system access controls will be implemented. Technology Advancement supports other Emergency Management technology, including satellite phones, laptops, technical and reporting support.

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Enhancements to Employee Safety Data Reporting – The Metrics and Analytics Team is responsible for various reports, including new processes for report automation, evaluating reporting synergies, and process improvement to enhance safety reporting operations.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

Safety Performance Metrics Reporting System (SPMR) - SPMR is used to collect metrics. The Metrics and Analytics team administers, supports reporting, data governance, maintenance, training, stakeholder engagement, and enhancements.

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

Environmental Health and Safety Management (EHSM) Program – Metrics and Analytics Team supports and approves the transition of safety applications, including Safety Incident Management System (SIMS) Support, system administration, reporting and maintenance. This initiative will consolidate various environmental, health and safety applications and allow a centralized database to process safety analytics and enhance reporting and business processes.

Calculation:

Labor cost for Advisor position: 0.5 FTE X 111.25K = 56k Non-labor cost for employee expenses: 0.5 FTE X 5K = 3k

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

Year Labor NLbr NSE Total FTE Adj_Type

KPI Analysis Governance – The Metrics and Analytics Team supports Key Performance Indicators (KPI) Analysis and Governance. This includes data validation, trend analysis to measure the effectiveness of our operations, risk management and adequacy of our SMS.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

Enhancements to the Employee Safety Data Analytics - The Metrics and Analytics team supports the maintenance and enhancements of various safety data-related dashboards. The initiative includes enhancing current and implementing new analytical processes. New analytical processes will support the SMS goals by providing new insights into employee safety. In addition, the Metrics and Analytics team supports the maintenance and enhancement of various Safety data-related dashboards.

Calculation:

Labor cost for 1 Advisor position: 1FTE X \$111.25K = \$111k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

Employee Safety Data Governance – This initiative will improve the safety data collection process and data integrity and governance.

Calculation:

Labor cost for Advisor position: 0.8 FTE X \$111.25K = \$89k Non-labor cost for employee expenses: 0.8 FTE X \$5K = \$4k

FTE support for On-Call Application - On-Call Application is a new application in development to support On-Call Services. This application will automate manual on-call processes for various business units and will enhance emergency safety operations. Technology Advancement will be responsible for the system administration, access controls, reporting, communications and troubleshooting.

Calculation:

Labor cost for Specialist/Analyst position: 0.3 FTE X \$96.65K = \$29k

Non-Labor cost for employee expenses: 0.3 FTE X \$5K = \$2k, Other non-labor: \$16k (Annual maintenance fee)

FTE support for Contractor Safety Data Reporting and Analytics Enhancements – The Metrics and Analytics Team support the maintenance and enhancements of contractor safety data-related dashboards. Initiatives include incorporating analytical processes in existing and new safety data to enhance contractor safety operations and improve safety metrics.

Calculation:

Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

FTE for Predictive Safety Analytics System Application – This is a new application in development to

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

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NLbr NSE FTE Year <u>Labor</u> **Total** Adj_Type support predictive safety analytics for controllable motor vehicle incidents (CMVI). The application will provide insights to proactively coach employees on preventing Motor Vehicle Incidents. Calculation: Labor cost for Specialist/Analyst position: 0.5 FTE X \$96.65K = \$48k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k FTE to support Root Cause Training Program - The Root Cause Training Program will promote effective and consistency incident investigation across the company. The Metrics and Analytics Team will be responsible for system administration, maintenance and enhancements. Calculation: Labor cost for Advisor position: 0.5 FTE X \$111.25K = \$56k Non-Labor cost for employee expenses: 0.5 FTE X \$5K = \$3k

0

Explanation:

2024

RAMP (CFF6-3): RAMP Incremental; SCG-CFF-6 - Safety Management System - 3 – Continuous Improvement and Quality Assurance: SoCalGas plan to enhance the capability to gather safety related information in the areas of incidents, feedback and performance measurement. Resources dedicated to these efforts will continue to build and support processes that result in collective participation and learning from events to achieve the safest outcomes. SoCalGas intends to add 1.0 FTE position at a cost of \$116k (\$111k Labor/\$5k Non-Labor) plus \$18k for other non-labor costs to support this function. The efforts to support this function are as follows:

134

1.0

1-Sided Adj

Implement a formalized Root Cause Analysis Training Program - This program will promote effective and consistency incident investigation across the company.

Calculation:

Non-labor: \$18k (Root Cause Analysis Maintenance Fee)

23

FTE support for Development, Enhancements & Maintenance of the Quality Management Dashboards - The Metrics and Analytics Team is responsible for developing, maintaining and reporting various Quality Management datasets. The data is used to build technology that allows tracking, analyzing, reporting and identifying trends. Quality Management programs include Distribution Bridge & Span, Distribution Pipeline Patrol, Transmission Bridge & Span, Transmission Pipeline Patrol, Gas Handling, Construction Major Projects, Construction Pipeline Integrity, Transmission GTTS, Construction Compressor Station Projects Maintenance, PSEP Field Assessment, PSEP Closeout, Transmission Locate & Mark, Transmission Leak Survey, Distribution Locate & Mark, Distribution Leak Survey and Operator Qualifications Data Requests. In addition, the support includes Ad-hoc, No Gas, Squad Checks for 30/60/90 Days Drawings report, Welding Element Checklist, Transmission Construction Projects and Distribution/Transmission Valve Inspections reports.

Calculation:

Labor cost for Advisor position: 1.0 FTE X \$111.25k = \$111K

Non-labor: 1.0 FTE X \$5K = \$5k

2024 33 2 0 35 0.3 1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type
Explanation:	Other: FTE support for available via SharePoil resources, training, information: Labor cost for Advisor Non-labor cost for emp	nt for employee ormation and re position: 0.3 F	es and contra eporting for e	actors. It will en mployees. 5K = \$33k		•
2024 Tota	l 768	74	0	842	7.0	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

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	462	446
Non-Labor	0	0	47	769	824
NSE	0	0	0	0	0
Total	0	0	47	1,231	1,270
FTE	0.0	0.0	0.0	4.4	4.6
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-72	-10
NSE	0	0	0	0	0
Total	0	0	0	-72	-10
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nomina	al \$)				
Labor	0	0	0	462	446
Non-Labor	0	0	47	696	815
NSE	0	0	0	0	0
Total	0	0	47	1,158	1,260
FTE	0.0	0.0	0.0	4.4	4.5
acation & Sick (Nominal \$))				
Labor	0	0	0	81	79
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	81	79
FTE	0.0	0.0	0.0	8.0	0.8
Escalation to 2021\$					
Labor	0	0	0	16	0
Non-Labor	0	0	3	53	0
NSE	0	0	0	0	0
Total	0	0	3	69	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Consta	int 2021\$)				
Labor	0	0	0	560	524
Non-Labor	0	0	50	749	815
NSE	0	0	0	0	0
Total	0	0	50	1,309	1,339
FTE	0.0	0.0	0.0	5.2	5.3

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

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	-72	-10	
NSE		0	0	0	0	0	
	Total		0 -	<u> </u>	-72	-10	
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	0	-72	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	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost	related to dues ex	pense for cos	st center 220	0-2042	
2020 Total	0	-72	0	0.0		
2021	0	-10	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	-10	0	0.0		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 4

RAMP Line Item Name: Technology & Analytics

Tranche(/s): Tranche1: N/A

GRC	Forecast	Cost	Estimates	(\$000)
\circ	I UI CCASL	OUSL	Louinateo	140001

	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	945	1,186	1,788	1,618	525	636

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

GRC Work Unit/Activit	v 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 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-Risk-5 Incident Involving an Employee

RAMP Line Item ID: C05

RAMP Line Item Name: Safe Driving Programs

Tranche(/s): Tranche1: Vehicle

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	79	79	79	79	1,120	1,356

Cost Estimate Changes from RAMP:

GRC is outside RAMP range due to being one of several workpapers and/or witness areas that contributed dollars to this mitigation.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 FTE	18.00	18.00	18.00	18.00	17.00	21.00

Work Unit Changes from RAMP:

GRC forecast fall within the RAMP range.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE
Tranche 1	19.000	11.000

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)

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

RAMP Item #3

RAMP Activity

RAMP Chapter: SCG-CFF-3 Emergency Preparedness and Response and Pandemic

RAMP Line Item ID: C11

RAMP Line Item Name: Emergency Management Technology

Tranche(/s): Tranche1: NA

<u>GRC</u>	<u>Forecast</u>	Cost Estimates (\$0	<u>(00</u>

	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	79	79	79	79	700	910

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

RAMP Item #4

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: C02

RAMP Line Item Name: Pipeline Safety & Compliance Oversight

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)				Low	High
Tranche 1 Cost Estimate	79	79	79	79	682	825

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2200-2473 and 2200-2551). GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: G. TECHNOLOGY & ANALYTICS
Category-Sub: 1. TECHNOLOGY & ANALYTICS

Workpaper: 2SM005.000 - TECHNOLOGY & ANALYTICS

RAMP Item # 5

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 3

RAMP Line Item Name: Continuous Improvement and Quality Assurances

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast (2021 \$)	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)				Low	High
Tranche 1 Cost Estimate	158	158	397	292	1,940	2,349

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM002, 2SM005 and 2200-2551.000).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA	
Measure	Activities	Activities	Activities	Activities	Range Act Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Summary of Shared Services Workpapers:

Description

A. PIPELINE SAFETY & COMPLIANCE

B. PIPELINE SAFETY OVERSIGHT

C. COMPLIANCE ASSURANCE

Total

In 2021 \$ (000) Incurred Costs								
Adjusted- Recorded	Adjusted-Forecast							
2021	2022 2023 2024							
882	882	1,010	1,010					
627	627	901	845					
399	399	530	530					
1,908	1,908	2,441	2,385					

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000

Summary for Category: A. PIPELINE SAFETY & COMPLIANCE

		In 2021\$ (000) Incurred Costs									
	Adjusted-Recorded	Adjusted-Forecast									
	2021	2022	2023	2024							
Labor	819	819	941	941							
Non-Labor	63	63	69	69							
NSE	0	0	0	0							
Total	882	882	1,010	1,010							
FTE	7.2	7.2	8.3	8.3							

Cost Centers belonging to this Category:

2200-2473.000 PIPELINE SAFETY & COMPLIANCE

Labor	819	819	941	941
Non-Labor	63	63	69	69
NSE	0	0	0	0
Total	882	882	1,010	1,010
FTE	7.2	7.2	8.3	8.3

Beginning of Workpaper 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Activity Description:

Pipeline Safety and Compliance (PS&C) is responsible for supporting the company to meet and exceed compliance in regulatory and safety regulations. PS&C oversees a robust compliance system that demonstrates SoCalGas' commitment to pipeline safety and shapes essential enhancements for our employees, processes, and technologies. PS&C consists of multiple interconnected departments and cost centers including Pipeline Safety & Compliance Director; Pipeline Safety and Compliance Group; Major Projects Regulatory Compliance and Controls; Operator Qualification.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to more accurately represent this workgroup given the significant increase in Commission oversight. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to more accurately represent this workgroup given the significant increase in Commission oversight. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Summary of Results:

Г	In 2021\$ (000) Incurred Costs									
		Adjι	ısted-Recor	ded		Ad	justed-Fore	cast		
Years	2017	2018	2019	2020	2021	2022	2023	2024		
Labor	626	646	655	716	819	819	941	941		
Non-Labor	90	100	62	43	63	63	69	69		
NSE	0	0	0	0	0	0	0	0		
Total	715	746	717	759	882	882	1,010	1,010		
FTE	5.4	5.7	5.7	6.1	7.2	7.2	8.3	8.3		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

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 Adjı	usted-Fore	ecast	
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
819	63	0	882	7.2	819	63	0	882	7.2
819	63	0	882	7.2	819	63	0	882	7.2
80.00%	80.00%				80.00%	80.00%			
20.00%	20.00%				20.00%	20.00%			
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				
ı	Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
ı	0	0	0	0	0.0	0	0	0	0	0.0
ı	0	0	0	0	0.0	0	0	0	0	0.0
	941	69	0	1,010	8.3	941	69	0	1,010	8.3
	941	69	0	1,010	8.3	941	69	0	1,010	8.3
	80.00%	80.00%				80.00%	80.00%			
Ī	20.00%	20.00%				20.00%	20.00%			
ı	0.00%	0.00%				0.00%	0.00%			
ı	0.00%	0.00%				0.00%	0.00%			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2022

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2023

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2024

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE
Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

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	3	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	819	819	819	0	122	122	819	941	941
Non-Labor	Base YR Rec	63	63	63	0	6	6	63	69	69
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	882	882	882	0	128	128	882	1,010	1,010
FTE	Base YR Rec	7.2	7.2	7.2	0.0	1.1	1.1	7.2	8.3	8.3

Forecast Adjustment Details:

Year	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	FTE	Adj Type	
2022 Total	0	0	0	0	0.0		
2023	89	4	0	93	0.8	1-Sided Adi	

Explanation:

RAMP (CFF6-2): RAMP Incremental; SCG-CFF-6 - Safety Management System - 2 - Pipeline Safety & Compliance Oversight: FTE support for PS&C - CPUC Inspections (Construction & Operations) - An additional FTE resource needed for increasing CPUC SED compliance field visits at SoCalGas. The CPUC is ramping up its regional construction division over the next 3 years. This will create a need for additional time in the field and resulting data requests response efforts.

Calculation:

Labor cost for Advisor position: 0.8 FTE X \$111.25K = \$89k Non-labor cost for employee expenses: 0.8 FTE X \$5K = \$4k

2023

33

2

35

0.3

1-Sided Adj

Explanation:

RAMP (CFF6-8): RAMP Incremental; SCG-CFF-6 - Safety Management System - 8 - Pipeline Safety Self Assessments: FTE support for PS&C - Pipeline Safety Self Assessments - Pipeline Safety and Compliance group has implemented a new self-assessment program focusing on pipeline safety compliance. The program includes field pre-audits and inspections for operations groups to review compliance items in a proactive manner.

Under this program, staff performs Odor Intensity Tests, pre-audit dry runs, and other inspection types with the employees to increase their comfort while completing their tasks in front of an audience of assessors who are attempting to proactively identify and mitigate hazards, risks, and safety incidents. Utilizing the PDCA tool, this program is designed to reveal and mitigate risks in a proactive manner to continue to improve SoCalGas's pipeline safety performance. For compliance with 49CFR and GO112F

Calculation:

Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k Non-labor cost for employee expenses: 0.3 FTE X \$5K = \$2k

2023 Total	122	6	0	128	1.1	
2024	89	4	0	93	0.8	1-Sided Adj

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Jost Center:	2200-2473.000 - PII	FELINE SAFE	IT & COMPL	ANGE					
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type			
Explanation:	RAMP (CFF6-2): RAMP Incremental; SCG-CFF-6 - Safety Management System - 2 - Pipeline Safety & Compliance Oversight: FTE support for PS&C - CPUC Inspections (Construction & Operations) - An additional FTE resource needed for increasing CPUC SED compliance field visits at SoCalGas. The CPUC is ramping up its regional construction division over the next 3 years. This will create a need for additional time in the field and resulting data requests response efforts. Calculation: Labor cost for Advisor position: 0.8 FTE X \$111.25K = \$89k Non-labor cost for employee expenses: 0.8 FTE X \$5K = \$4k								
2024	33	2	0	35	0.3	1-Sided Adj			
Explanation:	RAMP (CFF6-8): RAMP Incremental; SCG-CFF-6 - Safety Management System - 8 - Pipeline Safety Self Assessments: FTE support for PS&C - Pipeline Safety Self Assessments - Pipeline Safety and Compliance group has implemented a new self-assessment program focusing on pipeline safety compliance. The program includes field pre-audits and inspections for operations groups to review compliance items in a proactive manner. Under this program, staff performs Odor Intensity Tests, pre-audit dry runs, and other inspection types with the employees to increase their comfort while completing their tasks in front of an audience of assessors who are attempting to proactively identify and mitigate hazards, risks, and safety incidents. Utilizing the PDCA tool, this program is designed to reveal and mitigate risks in a proactive manner to continue to improve SoCalGas's pipeline safety performance. For compliance with 49CFR and GO112F Calculation: Labor cost for Advisor position: 0.3 FTE X \$111.25K = \$33k								
	Non-labor cost for emplo	yee expense	s: 0.3 FTE X \$						

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Determination of Adjusted-Recorded (Incurred Costs):

Determination of Aujusteu-r	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	483	509	521	584	696
Non-Labor	81	92	59	44	66
NSE	0	0	0	0	0
Total	565	602	579	628	762
FTE	4.6	4.9	4.7	5.1	6.1
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 (Nominal	l \$)				
Labor	483	509	521	584	696
Non-Labor	81	92	59	41	63
NSE	0	0	0	0	0
Total	565	602	579	625	759
FTE	4.6	4.8	4.8	5.1	6.1
acation & Sick (Nominal \$)					
Labor	82	88	99	103	123
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	82	88	99	103	123
FTE	0.8	0.9	0.9	1.0	1.1
scalation to 2021\$					
Labor	60	49	35	29	0
Non-Labor	9	8	3	2	0
NSE	0	0	0	0	0
Total	69	56	39	31	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Constar	nt 2021\$)				
Labor	626	646	655	716	819
Non-Labor	90	100	62	43	63
NSE	0	0	0	0	0
Total	715	746	717	759	882
FTE	5.4	5.7	5.7	6.1	7.2

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs						
	Years	2017	2018	2019	2020	2021
Labor		0	0	0	0	0
Non-Labor		-0.120	0	0	-3	-3
NSE		0	0	0	0	0
	Total	-0.120	0	0 -	-3	-3
FTE		0.0	0.0	0.0	0.0	0.0

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adi Type	
2017	0	0	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost re	elated to dues ex	pense			
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	0	0	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove cost re	elated to dues ex	pense			
2020 Total	0	-3	0	0.0		
2021	0	-3	0	0.0	1-Sided Adj	
Explanation:	Incremental COVID-related of Catastrophic Event Memoral			requested f	or recovery through a non-GRC	
2021	0	0	0	0.0	1-Sided Adj	
Explanation:	Adjustment to remove costs	related to dues e	expense			
2021 Total	0	-3	0	0.0		

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE
Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 2

RAMP Line Item Name: Pipeline Safety & Compliance Oversight

Tranche(/s): Tranche1: NA

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	441	441	534	534	682	825

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with other workpapers in my witness area (2200-2042 & 2200-2551.000).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: A. PIPELINE SAFETY & COMPLIANCE
Category-Sub: 1. PIPELINE SAFETY & COMPLIANCE

Cost Center: 2200-2473.000 - PIPELINE SAFETY & COMPLIANCE

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 8

RAMP Line Item Name: Pipeline Safety Self-Assessment

Tranche(/s): Tranche1: NA

<u>GRC</u>	Forecast	Cost	Estimates	<u>(\$000)</u>

	2021 Historical	Forecast Foreca	2023		2024 RAMP Range	
	Embedded Cost (2021 \$)		Forecast (2021 \$)		(2020 Inci Low	urred \$) High
Tranche 1 Cost Estimate	441	441	476	476	300	434

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk	Snend	Efficiency	(RSF)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000

Summary for Category: B. PIPELINE SAFETY OVERSIGHT

		In 2021\$ (000) Incu	irred Costs				
	Adjusted-Recorded	rded Adjusted-Forecast					
	2021	2022	2023	2024			
Labor	608	608	816	816			
Non-Labor	19	19	85	29			
NSE	0	0	0	0			
Total	627	627	901	845			
FTE	5.3	5.3	7.3	7.3			

Cost Centers belonging to this Category:

2200-2551.000 PIPELINE SAFETY OVERSIGHT

Labor	608	608	816	816
Non-Labor	19	19	85	29
NSE	0	0	0	0
Total	627	627	901	845
FTE	5.3	5.3	7.3	7.3

Beginning of Workpaper 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Activity Description:

The Pipeline Safety Oversight department pursues continuous improvement on incident investigation, evaluation and lessons learned by providing objective analysis, identifying opportunities and tracking mitigations that leads to enterprise process improvements and minimizing the possibility of recurrence. The department conduct effectiveness reviews to gauge the corrective actions achieving their intended purpose for risk assessment and continual opportunity.

The Compliance Improvement Oversight Process (CIOP) group is a sub-team of the Pipeline Safety Oversight group. CIOP team is responsible for coordinating and tracking the Corrective Action items through completion for items with significant risk. The action items resulted from the Incident Evaluations Process (IEP) Corrective Actions, compliance audits, field inspections, gas incidents, safety citations programs among others. The CIOP team is responsible for leading and supporting the Effectiveness Reviews and Lessons Learned sharing and documentation.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus on a continued emphasis to support the Federal Code of Regulation §192.617 Investigation of Failures through planned enhancements of incident investigations, evaluations and lessons learned across the company. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus on a continued emphasis to support the Federal Code of Regulation §192.617 Investigation of Failures through planned enhancements of incident investigations, evaluations and lessons learned across the company. Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Summary of Results:

		In 2021\$ (000) Incurred Costs										
		Adju	sted-Recor	Ad	Adjusted-Forecast							
Years	2017	2018	2019	2020	2021	2022	2023	2024				
Labor	357	688	589	616	608	608	816	816				
Non-Labor	8	23	44	12	19	19	85	29				
NSE	0	0	0	0	0	0	0	0				
Total	364	711	633	628	627	627	901	845				
FTE	2.7	5.8	5.0	5.4	5.3	5.3	7.3	7.3				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

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	
608	19	0	627	5.3	608	19	0	627	5.3	
608	19	0	627	5.3	608	19	0	627	5.3	
80.00%	80.00%				80.00%	80.00%				
20.00%	20.00%				20.00%	20.00%				
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	ısted-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
816	85	0	901	7.3	816	29	0	845	7.3
816	85	0	901	7.3	816	29	0	845	7.3
80.00%	80.00%				80.00%	80.00%			
20.00%	20.00%				20.00%	20.00%			
0.00%	0.00%				0.00%	0.00%			
0.00%	0.00%				0.00%	0.00%			

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2022

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2023

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Cost Center Allocation Percentage for 2024

Labor - Each employee was reviewed individually by the cost center manager to determine the amount of time each employee dedicates to SDG&E and SCG in the performance of routine activities. The individual amounts per employee were rolled up into a cost center. Non-Labor - Incidental administrative office supplies and employee support expenses such as telephones, computers, travel, etc are the only shared SDG&E non-labor expenses and are shared in direct proportion as labor.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT
Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs											
Forecast	t Method	Base Forecast			Forecast Adjustments			Adjus	Adjusted-Forecast			
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024		
Labor	Base YR Rec	608	608	608	0	208	208	608	816	816		
Non-Labor	Base YR Rec	19	19	19	0	66	10	19	85	29		
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0		
Total		627	627	627	0	274	218	627	901	845		
FTE	Base YR Rec	5.3	5.3	5.3	0.0	2.0	2.0	5.3	7.3	7.3		

Forecast Adjustment Details:

<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj Type
2022 Total	0	0	0	0	0.0	
2023	97	5	0	102	1.0	1-Sided Adj

Explanation:

RAMP (CFF6-2): RAMP Incremental; SCG-CFF-6 - Safety Management System - 2: Pipeline Safety & Compliance Oversight: Incremental FTE to support enhancing the reporting in the Compliance Improvement Oversight Process (CIOP). CIOP is responsible for coordinating and tracking across departments the Corrective Actions in response to reports on compliance audits, construction inspections and incident investigations, among others, through completion.

Calculation:

Labor cost for Specialist/Analyst: 1 FTE X \$96.65K = \$97k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

2023 **Explanation**:

111 5 0 116 1.0

RAMP (CFF6-5): RAMP Incremental; SCG-CFF-6 - Safety Management System – 5 – Develop Incident Evaluation Central Database and Further Enhance Causal Analysis Training: Incremental FTE to support enhancing the Incident Evaluation Process - The incident evaluation process identifies corrective actions from a systematic perspective that lead to enterprise-wide process improvement to

minimize the possibility of a recurrence.

Calculation:

Labor cost for Advisor position: 1 FTE X \$111.25K = \$111k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

2023

0

56

0

0.0

56

1-Sided Adj

1-Sided Adj

Explanation: RAMP (CFF6-3): RAMP Incremental; SCG-CFF-6 - Safety Management System - 3 – Continuous

Improvement and Quality Assurance: Implement a formalized Root Cause Analysis Training Program - This program will promote effective and consistency incident investigation across the company.

Calculation:

Non-labor: \$56k (Root Cause Analysis 5-day Training = \$34.5K, 3-day Train-the-Trainer Program =

\$21.5k)

2023 Total 208 66 0 274 2.0

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Cost Center:	2200-2551.000 - PIPELINE SAFETY OVERSIGHT										
<u>Year</u>	<u>Labor</u>	<u>NLbr</u>	NSE	<u>Total</u>	<u>FTE</u>	Adj_Type					
2024	97	5	0	102	1.0	1-Sided Adj					
Explanation:	RAMP (CFF6-2): RAMP Incremental; SCG-CFF-6 - Safety Management System - 2 - Pipeline Safety & Compliance Oversight: Incremental FTE to support enhancing the reporting in the Compliance Improvement Oversight Process (CIOP). CIOP is responsible for coordinating and tracking across departments the Corrective Actions in response to reports on compliance audits, construction inspections and incident investigations, among others, through completion. Calculation: Labor cost for Specialist/Analyst: 1 FTE X \$96.65K = \$97k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k										
2024	111	5	0	116	1.0	1-Sided Adj					
Explanation:	RAMP (CFF6-5): RAMP Incremental; SCG-CFF-6 - Safety Management System – 5 – Develop Incident Evaluation Central Database and Further Enhance Causal Analysis Training: Incremental FTE to support enhancing the Incident Evaluation Process - The incident evaluation process identifies corrective actions from a systematic perspective that lead to enterprise-wide process improvement to minimize the possibility of a recurrence. Calculation: Labor cost for Advisor position: 1 FTE X \$111.25K = \$111k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k										
2024 Total	208	10	0	218	2.0						

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

Determination of Adjusted-Recorded (Incurred Costs):

retermination of Aujusteu-N	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	276	543	469	502	516
Non-Labor	7	22	42	14	21
NSE	0	0	0	0	0
Total	283	565	510	517	538
FTE	2.3	4.9	4.2	4.5	4.5
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	-3	-2
NSE	0	0	0	0	0
Total	0	0	0	-3	-2
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal	\$)				
Labor	276	543	469	502	516
Non-Labor	7	22	42	12	19
NSE	0	0	0	0	0
Total	283	564	510	514	536
FTE	2.3	4.9	4.2	4.5	4.5
/acation & Sick (Nominal \$)					
Labor	47	93	89	88	91
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	47	93	89	88	91
FTE	0.4	0.9	0.8	0.9	0.8
Escalation to 2021\$					
Labor	34	52	32	25	0
Non-Labor	1	2	2	0	0
NSE	0	0	0	0	0
Total	35	54	34	26	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constan	t 2021\$)				
Labor	357	688	589	616	608
Non-Labor	8	23	44	12	19
NSE	0	0	0	0	0
Total	364	711	633	628	627
FTE	2.7	5.8	5.0	5.4	5.3

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

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	-0.315	0	-3	-2						
NSE		0	0	0	0	0						
	Total		-0.315	0	-3	-2						
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>	<u>Adj Type</u>			
2017 Total	0	0	0	0.0				
2018	0	0	0	0.0	1-Sided Adj			
Explanation:	Adjustment to remove cost	related to dues ex	xpense					
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 Catastrophic Event Memora		-	requested f	or recovery through a non-GRC			
2020	0	0	0	0.0	1-Sided Adj			
Explanation:	Adjustment to remove cost	related to dues ex	xpense					
2020 Total	0	-3	0	0.0				
2021	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).							
2021 Total	0	-2	0	0.0				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 5

RAMP Line Item Name: Develop Incident Evaluation Central Database and Further Enhance Causal Analysis

Training

Tranche(/s): Tranche1: N/A

GRC Forecast Cost Estima	tes (\$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	209	209	325	325	100	145

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	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: A RSE range description was not provided in RAMP.				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

RAMP Item # 2

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 2

RAMP Line Item Name: Pipeline Safety & Compliance Oversight

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost	2022 Forecast	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
	(2021 \$)	(2021 \$)			Low	High
Tranche 1 Cost Estimate	209	209	311	311	682	825

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with another workpapers in my witness area (2200-2473).

GRC W	Vork U	nit/Activity	Level	Estimates
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Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: B. PIPELINE SAFETY OVERSIGHT Category-Sub: 1. PIPELINE SAFETY OVERSIGHT

Cost Center: 2200-2551.000 - PIPELINE SAFETY OVERSIGHT

RAMP Item # 3

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 3

RAMP Line Item Name: Continuous Improvement and Quality Assurance

Tranche(/s): Tranche1: NA

GRC Forecast Cost Estimates (\$000)

	2021 Historical Embedded Cost (2021 \$)	ed Cost Forecast	2023 Forecast (2021 \$)	2024 Forecast (2021 \$)	2024 RAMP Range (2020 Incurred \$)	
					Low	High
Tranche 1 Cost Estimate	209	209	265	209	1,940	2,349

Cost Estimate Changes from RAMP:

The GRC forecast for this mitigation is split with several workpapers in my witness area (2SM002, 2SM005 and 2200-2551.000).

Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000

Summary for Category: C. COMPLIANCE ASSURANCE

	In 2021\$ (000) Incurred Costs					
	Adjusted-Recorded	Adjusted-Forecast				
	2021	2022	2023	2024		
Labor	393	393	519	519		
Non-Labor	6	6	11	11		
NSE	0	0	0	0		
Total	399	399	530	530		
FTE	3.6	3.6	4.6	4.6		

Cost Centers belonging to this Category:

2200-2409.000 COMPLIANCE ASSURANCE

Labor	393	393	519	519
Non-Labor	6	6	11	11
NSE	0	0	0	0
Total	399	399	530	530
FTE	3.6	3.6	4.6	4.6

Beginning of Workpaper 2200-2409.000 - COMPLIANCE ASSURANCE

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Activity Description:

The Compliance Assurance team supports the data accuracy of maintenance and inspection records for SCG Gas Distribution, which also contributes to records management. Specifically, this group creates data validation tools to identify missing or incorrect information.

This Compliance Assurance team develops and manages SAP custom user interfaces used by five SCG Gas Distribution organizations (Gas Distribution Operations, Field Operation Supervisors, Leakage Clerical and Supervisor, System Protection Clerical and Supervisors, District Operations Clerks and Dispatch). These custom user interfaces provide the users with standardized methods of managing Gas Distribution assets maintained in SAP as well has order management for those assets. This team also manages 23 M&I Compliance reports which supports SCG Gas Distribution through the CPUC auditing process. Moreover, this team provides ad-hoc data support for many special projects, including those within the SB1371 project scope including Large Leak Prioritization, Leak Abatement, and Aerial Methane Mapping, the Transforming Our Business initiative, the Electronic Leak Survey project team, and Gas Distribution Managers and Directors.

Forecast Explanations:

Labor - Base YR Rec

The forecast method developed for this cost category to labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis to support enhancements to the Compliance Assurance Program activities and remain compliant per Gas Standards and Federal Code of Regulations (49 CFR Part 192). Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

Non-Labor - Base YR Rec

The forecast method developed for this cost category to non-labor expense is the base year method because this forecasting methodology serves to represent this workgroup growth and historical spend more accurately. Incremental adjustments will focus a greater emphasis to support enhancements to the Compliance Assurance Program activities and remain compliant per Gas Standards and Federal Code of Regulations (49 CFR Part 192). Therefore, SoCalGas anticipates increasing mitigation programs to be implemented within this group and require additional staffing and resources. An average or linear trend could not account for anticipated growth in the activities for this cost category.

NSE - Base YR Rec

NSE is not applicable to this workgroup.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Summary of Results:

		In 2021\$ (000) Incurred Costs							
		Adju	sted-Recor	Ad	cast				
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	923	588	508	370	393	393	519	519	
Non-Labor	35	34	-5	5	6	6	11	11	
NSE	0	0	0	0	0	0	0	0	
Total	959	622	503	375	399	399	530	530	
FTE	8.5	5.7	4.7	3.4	3.6	3.6	4.6	4.6	

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Cost Center Allocations (Incurred Costs):

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

	2021 Adjusted-Recorded					2022 Adjı	usted-Fore	cast	
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE
5	0	0	5	0.0	5	0	0	5	0.0
0	0	0	0	0.0	0	0	0	0	0.0
388	6	0	394	3.6	388	6	0	394	3.6
393	6	0	399	3.6	393	6	0	399	3.6
87.00%	87.00%				90.00%	90.00%			
13.00%	13.00%				10.00%	10.00%			
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	23 Adjusted-Forecast				2024 Adjusted-Forecast				
Labor	Non-Labor	NSE	Total	FTE	Labor	Non-Labor	NSE	Total	FTE	
5	0	0	5	0.0	5	0	0	5	0.0	
0	0	0	0	0.0	0	0	0	0	0.0	
514	11	0	525	4.6	514	11	0	525	4.6	
519	11	0	530	4.6	519	11	0	530	4.6	
90.00%	90.00%				90.00%	90.00%				
10.00%	10.00%				10.00%	10.00%				
0.00%	0.00%				0.00%	0.00%				
0.00%	0.00%				0.00%	0.00%				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Cost Center Allocation Percentage Drivers/Methodology:

Cost Center Allocation Percentage for 2021

Compliance Assurance supports the data accuracy of maintenance and inspection records for SCG and SDG&E Gas Distribution, which also contributes to records management. Specifically, this group creates data validation tools to identify missing or incorrect information. Shared service dollars were allocated based on the ratio of number of miles of pipe within each utility.

Cost Center Allocation Percentage for 2022

Compliance Assurance supports the data accuracy of maintenance and inspection records for SCG and SDG&E Gas Distribution, which also contributes to records management. Specifically, this group creates data validation tools to identify missing or incorrect information. Historically, these shared service dollars were allocated based on the ratio of number of miles of pipe within each utility. With the recent introduction of a new SDG&E dedicated Compliance team (2100-3990), the support responsibilities of Compliance Assurance (2200-2409) has been reduced and is reflected in the change of percentage allocated to each utility.

Cost Center Allocation Percentage for 2023

Compliance Assurance supports the data accuracy of maintenance and inspection records for SCG and SDG&E Gas Distribution, which also contributes to records management. Specifically, this group creates data validation tools to identify missing or incorrect information. Historically, these shared service dollars were allocated based on the ratio of number of miles of pipe within each utility. With the recent introduction of a new SDG&E dedicated Compliance team (2100-3990), the support responsibilities of Compliance Assurance (2200-2409) has been reduced and is reflected in the change of percentage allocated to each utility.

Cost Center Allocation Percentage for 2024

Compliance Assurance supports the data accuracy of maintenance and inspection records for SCG and SDG&E Gas Distribution, which also contributes to records management. Specifically, this group creates data validation tools to identify missing or incorrect information. Historically, these shared service dollars were allocated based on the ratio of number of miles of pipe within each utility. With the recent introduction of a new SDG&E dedicated Compliance team (2100-3990), the support responsibilities of Compliance Assurance (2200-2409) has been reduced and is reflected in the change of percentage allocated to each utility.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs										
Forecas	t Method	Bas	Base Forecast			Forecast Adjustments			Adjusted-Forecast		
Years	s	2022	2023	2024	2022	2023	2024	2022	2023	2024	
Labor	Base YR Rec	393	393	393	0	126	126	393	519	519	
Non-Labor	Base YR Rec	6	6	6	0	5	5	6	11	11	
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0	
Tota	ıl	399	399	399	0	131	131	399	530	530	
FTE	Base YR Rec	3.6	3.6	3.6	0.0	1.0	1.0	3.6	4.6	4.6	

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	126	5	0	131	1.0	1-Sided Adj

Explanation:

RAMP (CFF6-7): RAMP Incremental; SCG-CFF-6 - Safety Management System - 7 - Expand Compliance Assurance Program: FTE to support enhancements to the Compliance Assurance Program - As we continue to mature the Compliance Assurance program, we anticipate a need to increase the capability to (1) automate all maintenance planning activities for Gas Distribution asset types; (2) implement new and enhance existing Inspection Forecasting reports for all Gas Distribution asset types; (3) produce new asset exception reports to identify potential data concerns; and (4) create new custom user interfaces in asset management system for additional user groups.

Calculation:

Labor cost for Advisor position: 1 FTE X \$126K = \$126k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

2023 Total	126	5	0	131	1.0	
2024	126	5	0	131	1.0	1-Sided Adj

Explanation:

RAMP (CFF6-7): RAMP Incremental; SCG-CFF-6 - Safety Management System - 7 - Expand Compliance Assurance Program: FTE to support enhancements to the Compliance Assurance Program - As we continue to mature the Compliance Assurance program, we anticipate a need to increase the capability to (1) automate all maintenance planning activities for Gas Distribution asset types; (2) implement new and enhance existing Inspection Forecasting reports for all Gas Distribution asset types; (3) produce new asset exception reports to identify potential data concerns; and (4) create new custom user interfaces in asset management system for additional user groups.

Calculation:

Labor cost for Advisor position: 1 FTE X \$126K = \$126k Non-labor cost for employee expenses: 1 FTE X \$5K = \$5k

	2024 Total	126	5	0	131	1.0	
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Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Determination of Adjusted-Recorded (Incurred Costs):

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	714	464	404	318	336
Non-Labor	32	31	-5	8	8
NSE	0	0	0	0	0
Total	745	495	399	326	344
FTE	7.2	4.8	4.0	3.0	3.1
djustments (Nominal \$) **					
Labor	0	0	0	-16	-2
Non-Labor	0	0	0	-3	-2
NSE	0	0	0	0	0
Total	0	0	0	-19	-4
FTE	0.0	0.0	0.0	-0.2	-0.1
Recorded-Adjusted (Nomina	ıl \$)				
Labor	714	464	404	302	334
Non-Labor	32	31	-5	4	6
NSE	0	0	0	0	0
Total	745	495	399	306	340
FTE	7.2	4.8	4.0	2.8	3.0
acation & Sick (Nominal \$)					
Labor	121	80	77	53	59
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	121	80	77	53	59
FTE	1.3	0.9	0.7	0.6	0.6
scalation to 2021\$					
Labor	89	44	27	15	0
Non-Labor	3	3	0	0	0
NSE	0	0	0	0	0
Total	92	47	27	15	0
FTE	0.0	0.0	0.0	0.0	0.0
ecorded-Adjusted (Constar	nt 2021\$)				
Labor	923	588	508	370	393
Non-Labor	35	34	-5	5	6
NSE	0	0	0	0	0
Total	959	622	503	375	399
FTE	8.5	5.7	4.7	3.4	3.6

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

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

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

Summary of Adjustments to Recorded:

In Nominal \$ (000) Incurred Costs							
	Years	2017	2018	2019	2020	2021	
Labor		0	0	0	-16	-2	
Non-Labor		0	0	0	-3	-2	
NSE		0	0	0	0	0	
	Total		0 -		-19	-4	
FTE		0.0	0.0	0.0	-0.2	-0.1	

Detail of Adjustments to Recorded:

Year	Labor	NLbr	NSE	FTE	Adi 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:								
2020	-16	0	0	-0.2	CCTR Transf To 2200-2011.001			
Explanation:	on: Transfer costs to GOSI CC 2200-2011.001 related to SB1371 (BLP) Emissions Strategy Program							
2020 Total	-16	-3	0	-0.2				
2021	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).							
2021	-2	0	0	-0.1	1-Sided Adj			
Explanation:	Adjustment to remove non-GRC costs related to the SB1371 Emissions Strategy Program that are being recovered through a separate regulatory process.							
2021 Total	-2	-2	0	-0.1				

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Category: C. COMPLIANCE ASSURANCE
Category-Sub: 1. COMPLIANCE ASSURANCE

Cost Center: 2200-2409.000 - COMPLIANCE ASSURANCE

RAMP Item # 1

RAMP Activity

RAMP Chapter: SCG-CFF-6 Safety Management System

RAMP Line Item ID: 7

RAMP Line Item Name: Expand Compliance Assurance Program

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	399	399	530	530	300	434

Cost Estimate Changes from RAMP:

GRC forecast is outside the RAMP range due to a forecast update.

GRC Work Unit/Activit	v Level Estimates
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Unit of	2021 Historical Embedded	2022 Forecast	2023 Forecast	2024 Forecast	2024 RA Range Act	
Measure	Activities	Activities	Activities	Activities	Low	High
Tranche 1 NA	0.00	0.00	0.00	0.00	0.00	0.00

Work Unit Changes from RAMP:

A unit range description was not provided in RAMP.

Risk Spend Efficiency (RSE)

	GRC RSE	RAMP RSE	
Tranche 1	0.000	0.000	

RSE Changes from RAMP:

A RSE range description was not provided in RAMP.

Area: SAFETY MANAGEMENT SYSTEMS

Witness: Neena N. Master

Appendix A: List of Non-Shared Cost Centers

Cost Center	Sub	<u>Description</u>
2200-0050	000	DIRECTOR OF SAFETY MANAGEMENT SYSTEMS
2200-0613	000	EMERGENCY SRVCS
2200-0849	000	CHIEF SAFETY OFFICER
2200-0978	000	DIRECTOR OF SFTY CULTURE IMPRV PGRM
2200-0979	000	PLANNING AND PERFORMANCE
2200-1128	000	CONTRACTOR SAFETY PROGRAM
2200-1132	000	CONTRACTOR SAFETY PROGRAMS
2200-2030	000	SMS CONTINOUS IMPROVEMENT
2200-2031	000	SMS STRATEGY
2200-2036	000	SAFETY MANAGEMENT
2200-2037	000	SMS TRAINING & EXECUTION
2200-2042	000	SMS TECHNOLOGY & ANALYTICS
2200-2157	000	SCG FIELD SAFETY
2200-2161	000	INCIDENT CLAIMS
2200-2202	000	AFFILIATE COMPLIANCE - NORTH
2200-2241	000	DIR PIPELINE SAFETY & COMPLIANCE
2200-2267	000	SAFETY PROGRAMS NORTH
2200-2270	000	DIR SAFETY, WELLNESS & EMERGENCY SRVCS
2200-2530	000	QUALITY RISK & COMPLIANCE MGMT
2200-7240	000	QUALITY RISK & COMPLIANCE MGMT - from 2200-2530