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-13-WP-2E)

### WORKPAPERS TO

)

)

)

### PREPARED DIRECT TESTIMONY

### OF EVAN D. GOLDMAN

### ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

SECOND ERRATA

### BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

JUNE 2023



### 2024 General Rate Case - Application ERRATA INDEX OF WORKPAPERS

### Exhibit SCG-13-WP-2E - CIS REPLACEMENT PROGRAM

DOCUMENT	PAGE
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Summary of Non-Shared Services Workpapers	2
Category: A. CS - CIS Replacement Program	3
2CI000.000 - CUSTOMER SERVICES - CIS REPLACEMENT PROGRAM	4
Appendix A: List of Non-Shared Cost Centers	35

### Southern California Gas Company 2024 GRC - APPLICATION ERRATA SECOND ERRATA

### Overall Summary For Exhibit No. SCG-13-WP-2E

	Area: CIS RE	Area: CIS REPLACEMENT PROGRAM				
	Witness: Evan D	Witness: Evan D. Goldman				
	In 2021 \$ (000) Incurred Costs					
	Adjusted-Recorded	Adjusted-Recorded Adjusted-Forecast				
Description	2021	2022	2023	2024		
Non-Shared Services	1,815	2,308	4,696	20,247		
Shared Services	0	0	0	0		
Total	1,815	2,308	4,696	20,247		

Area: CIS REPLACEMENT PROGRAM

Witness: Evan D. Goldman

### Summary of Non-Shared Services Workpapers:

	In 2021 \$ (000) Incurred Costs					
	Adjusted- Recorded		t			
Description	2021	2022	2023	2024		
A. CS - CIS Replacement Program	1,815	2,308	4,696	20,247		
Total	1,815	2,308	4,696	20,247		

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Workpaper:	2CI000.000

### Summary for Category: A. CS - CIS Replacement Program

		In 2021\$ (000) Inc.	urred Costs			
	Adjusted-Recorded	Adjusted-Forecast				
	2021	2022	2023	2024		
Labor	514	558	377	1,802		
Non-Labor	1,301	1,750	4,319	18,445		
NSE	0	0	0	0		
Total	1,815	2,308	4,696	20,247		
FTE	3.4	3.8	2.5	12.2		

### Workpapers belonging to this Category:

### 2CI000.000 Customer Services - CIS Replacement Program

Labor	514	558	377	1,802
Non-Labor	1,301	1,750	4,319	18,445
NSE	0	0	0	0
Total	1,815	2,308	4,696	20,247
FTE	3.4	3.8	2.5	12.2

Beginning of Workpaper 2CI000.000 - Customer Services - CIS Replacement Program

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Category-Sub	1. CS - CIS Replacement Program
Workpaper:	2CI000.000 - Customer Services - CIS Replacement Program

### Activity Description:

The CIS Replacement Program will replace the company's current Customer Information System (CIS) and related subsystems with a modern CIS platform. CIS is the foundational information technology system for the Customer Services organization. It facilitates meter-to-cash transactions (metering/measurement, billing calculation, payment processing, credit & collections activity, etc.) and is the primary system used by Customer Service Representatives (CSRs) when interacting with customers. CIS also provides the underlying data and information in support of the company's Interactive Voice Response (IVR) and other Digital Customer Experience channels ("My Account") and is responsible for the generation of most service orders that are ultimately worked by the Customer Services Field (CSF) team. SoCalGas's current CIS is an outdated, mainframe-based solution that was custom developed and implemented in 1996. The new CIS will provide increased capability, agility, and speed-to-market needed to support company sustainability and climate policy goals, and to help meet evolving regulatory requirements and customer expectations.

### Forecast Explanations:

### Labor - Base YR Rec

The O&M labor forecast for the CIS Replacement Program costs for SoCalGas internal employees are based on the number of required labor hours for each phase of the program. The CIS Replacement Program Phases include; Plan/Analyze Phase, Design/Build & Validate Phase, Test Phase, Deploy Phase, and Post Go-Live Support Phase. Refer to SCG-13-WP-2Cl000.000, Supplemental Workpapers, for details of the non-labor costs within each phase of the CIS Replacement Program. A Base Year forecast methodology was chosen for this budget code and the forecasted labor expenses are based on the incremental program costs above Base Year 2021 recorded labor, that are added to determine total funding requirements. The forecast method developed for the program costs is derived from the cost estimate prepared by personnel experienced in this type of work and with reference to recent programs of similar scope. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000, for labor details and drivers.

### Non-Labor - Base YR Rec

The O&M non-labor forecast for the CIS Replacement Program costs cover System Integrator (SI), 3rd Party Labor and Professional Services resources and related expenses are based on the number of required labor hours for each phase of the program. The CIS Replacement Program Phases include; Plan/Analyze Phase, Design/Build & Validate Phase, Test Phase, Deploy Phase, and Post Go-Live Support Phase. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000, for details of the non-labor costs within each phase of the CIS Replacement Program. A Base Year forecast methodology was chosen for this budget code and the forecasted labor expenses are based on the incremental program costs above Base Year 2021 recorded labor, that are added to determine total funding requirements. The forecast method developed for the program costs is derived from the cost estimate prepared by personnel experienced in this type of work and with reference to recent programs of similar scope. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000, for details of the non-labor costs and drivers

### **NSE - Base YR Rec**

Not Appliable. There are no NSE costs for CIS Replacement.

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Category-Sub	1. CS - CIS Replacement Program
Workpaper:	2CI000.000 - Customer Services - CIS Replacement Program

### Summary of Results:

	In 2021\$ (000) Incurred Costs								
		Adju	sted-Recor	ded		Ad	Adjusted-Forecast		
Years	2017	2018	2019	2020	2021	2022	2023	2024	
Labor	0	0	0	0	514	558	377	1,802	
Non-Labor	0	0	0	0	1,301	1,750	4,319	18,445	
NSE	0	0	0	0	0	0	0	0	
Total	0	0	0	0	1,815	2,308	4,696	20,247	
FTE	0.0	0.0	0.0	0.0	3.4	3.8	2.5	12.2	

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Category-Sub:	1. CS - CIS Replacement Program
Workpaper:	2CI000.000 - Customer Services - CIS Replacement Program

### Summary of Adjustments to Forecast:

	In 2021 \$(000) Incurred Costs									
Forecast	Method	Base Forecast			Forec	ast Adjust	ments	Adjusted-Forecast		
Years	5	2022	2023	2024	2022	2023	2024	2022	2023	2024
Labor	Base YR Rec	514	514	514	44	-137	1,288	558	377	1,802
Non-Labor	Base YR Rec	1,301	1,301	1,301	449	3,018	17,144	1,750	4,319	18,445
NSE	Base YR Rec	0	0	0	0	0	0	0	0	0
Tota	I	1,815	1,815	1,815	493	2,881	18,432	2,308	4,696	20,247
FTE	Base YR Rec	3.4	3.4	3.4	0.4	-0.9	8.8	3.8	2.5	12.2

### Forecast Adjustment Details:

Year	<u>Labor</u>	<u>NLbr</u>	<u>NSE</u>	<u>Total</u>	<u>FTE</u>	<u>Adj Type</u>			
2022	44	449	0	493	0.4	1-Sided Adj			
Explanation:	Adjustment of 0.4 FTE O&M labor at an average rate of \$150K per FTE, for program management support, and additional adjustment made for forecasted 3rd-party labor and non-labor activities for the CIS Replacement Pre-Planning Phase. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2CI000.000 for 2022 CIS Replacement Pre-Planning Phase cost forecast details.								
2022 Total	44	449	0	493	0.4				
2023	-137	3,018	0	2,881	-0.9	1-Sided Adj			
Explanation:	Adjustment out to shift O&M labor resources of .9 FTE at an average rate of \$150K per FTE, associated with Capital expenses for program management support. Additional adjustment made for forecasted 3rd-party labor and non-labor activities for the CIS Replacement Pre-Planning Phase. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000 for 2023 CIS Replacement Pre-Planning Phase cost forecast details.								
2023 Total	-137	3,018	0	2,881	-0.9				
2024	1,288	17,144	0	18,432	8.8	1-Sided Adj			
Explanation:	Adjustment to account for normalization of labor and non-labor O&M forecast derived from the TY2024 through 2027, 4 year average cost for CIS Replacement O&M expense comprised The CIS Replacement Program Phases: Plan/Analyze Phase, Design/Build & Validate Phase, Test Phase, Deploy Phase, and Post Go-Live Support Phase. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000 for CIS Replacement annual and program phase details. Non-labor forecast is associated with Program Implementation Resourcing & Expenses; 3rd Party Labor & Professional Services; Program QA and Controls; Operational Assurance; and Transformational GPs. Refer to Exhibit SCG-13-WP, Supplemental Workpaper 2Cl000.000 for cost forecast details.								
2024 Total	1 288	17 144	0	18 /32	8.8				

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Category-Sub:	1. CS - CIS Replacement Program
Workpaper:	2CI000.000 - Customer Services - CIS Replacement Program

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

	2017 (\$000)	2018 (\$000)	2019 (\$000)	2020 (\$000)	2021 (\$000)
Recorded (Nominal \$)*					
Labor	0	0	0	0	437
Non-Labor	0	0	0	0	1,302
NSE	0	0	0	0	0
Total	0	0	0	0	1,739
FTE	0.0	0.0	0.0	0.0	2.9
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	-1
NSE	0	0	0	0	0
Total	0	0	0	0	-1
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Nominal \$)	1				
Labor	0	0	0	0	437
Non-Labor	0	0	0	0	1,301
NSE	0	0	0	0	0
Total	0	0	0	0	1,738
FTE	0.0	0.0	0.0	0.0	2.9
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	77
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	77
FTE	0.0	0.0	0.0	0.0	0.5
Escalation to 2021\$					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Recorded-Adjusted (Constant 2	.021\$)				
Labor	0	0	0	0	514
Non-Labor	0	0	0	0	1,301
NSE	0	0	0	0	0
Total	0	0	0	0	1,815
FTE	0.0	0.0	0.0	0.0	3.4

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

\*\* Refer to "Detail of Adjustments to Recorded" page for line item adjustments *Note: Totals may include rounding differences.* 

Area:	CIS REPLACEMENT PROGRAM
Witness:	Evan D. Goldman
Category:	A. CS - CIS Replacement Program
Category-Sub:	1. CS - CIS Replacement Program
Workpaper:	2CI000.000 - Customer Services - CIS Replacement Program

### Summary of Adjustments to Recorded:

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

### Detail of Adjustments to Recorded:

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

2021 Total 0 -1 0 0.0

Supplemental Workpapers for Workpaper 2Cl000.000

CIS Replacement Program - Supplemental Workpaper\_01 - Forecast Details

CIS Replacement Program Forecast - By Year

	SoCalGas	2022		2023		TY2024		PTY2025		PTY2026		PTY2027	'	GRC Total (2022	2-2027)
CIS Replaceme (\$ in thousands)	ent Program	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Total	FTE
Capital															
	SoCalGas Labor	\$1,026	6.8	\$1,053	7.0	\$3,701	34.0	\$6,362	65.0	\$3,672	50.4	\$0	-	\$15,814	32.65
	Contingency	\$0	-	\$0	-	\$815	7.5	\$815	8.3	\$612	8.4	\$0	-	\$2,242	4.84
	V&S	\$181	1.3	\$186	1.3	\$797	6.4	\$1,267	12.3	\$756	9.5	\$0	-	\$3,187	6.15
Labor	Sub-Total	\$1,207	8.1	\$1,239	8.3	\$5,313	47.8	\$8,444	85.6	\$5,040	68.3	\$0	-	\$21,243	43.65
	Third Party Contractors	\$3,705		\$1,484		\$31,179		\$54,856		\$33,473		\$0	-	\$124,697	
	Software	\$0		\$0		\$45,925		\$0		\$0		\$0		\$45,925	
	Contingency	\$0		\$0		\$10,833		\$10,833		\$8,124		\$0		\$29,789	
Non-Labor	Sub-Total	\$3,705		\$1,484		\$87,937		\$65,688		\$41,597		\$0		\$200,411	
Capital Total		\$4,913	8.1	\$2,723	8.3	\$93,250	47.8	\$74,133	85.6	\$46,637	68.3	\$0	-	\$221,655	43.6
	•														
	SoCalGas	2022		2023		TY2024		PTY2025		PTY2026		PTY2027	7	GRC Total (2024	-2027)
CIS Replaceme (\$ in thousands)	ent Program	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Forecast	FTE	Total	FTE
O&M															
	SoCalGas Labor	\$474	3.2	\$320	2.1	\$765	5.8	\$2,194	12.1	\$2,490	16.3	\$0	-	\$5,448	8.54
	Contingency	\$0	-	\$0	-	\$206	1.6	\$206	1.1	\$241	1.6	\$22	2.7	\$676	1.8
	V&S	\$84	0.6	\$57	0.4	\$171	1.4	\$424	2.5	\$482	3.4	\$4	0.5	\$1,081	1.9
Labor	· Sub-Total	\$558	3.8	\$377	2.5	\$1,142	8.8	\$2,824	15.7	\$3,213	21.2	\$26	3.2	\$7,205	12.2
	Third Party Contractors	\$1,750		\$4,319		\$11,118		\$17,018		\$35,194		\$1,959		\$65,290	
	Software	\$0		\$0		\$64		\$64		\$48		\$0		\$175	
	Contingency	\$0		\$0		\$2,706		\$2,706		\$2,726		\$180		\$8,318	
Non-Labor	Sub-Total	\$1,750		\$4,319		\$13,888		\$19,787		\$37,968		\$2,140		\$73,782	
O&M Total		\$2,308	3.8	\$4,696	2.5	\$15,030	8.8	\$22,611	15.7	\$41,181	21.2	\$2,166	3.2	\$80,988	12.2
														Total Reque	st
CIS Replaceme	ent Program	TY2024-2027	AVG											\$302,642	

CIS Replaceme	TY2024-2027	AVG	
O&M (NORMALI	(\$ in thousand	ds)	
Labor	\$1,801	12.2	
	Third Party Contractors	\$16,322	
	Software	\$44	
	Contingency	\$2,079	
Non-Labor	Sub-total	\$18,446	
O&M Total		\$20,247	12.2

CIS Replacement Program - Supplemental Workpaper\_01 - Section: Phase Forecast Summary

Capital by Phase			Design, Build &	Test	Test		Post Go Live	Total
(Dollars in thousands)	Pre-Planning	Plan & Analyze	Validate	Test	Deployment	Stabilization	(2022-2026)	
Direct Labor	\$2,079	\$2,074	\$4,730	\$4,890	\$3,058	\$1,226	\$18,056	
Non-Labor	\$5,189	\$34,439	\$58,518	\$45,360	\$44,903	\$12,003	\$200,411	
Total Direct	\$7,269	\$36,512	\$63,248	\$50,250	\$47,961	\$13,228	\$218,468	
V&S	\$367	\$366	\$835	\$863	\$540	\$216	\$3,187	
Grand Total	\$7,636	\$36,878	\$64,083	\$51,113	\$48,501	\$13,444	\$221,655	
O&M by Phase	Pre-Planning	Dian & Analyza	Design, Build &	Test	Danloymont	Post Go Live	Total	
<b>O&amp;M by Phase</b> (Dollars in thousands)	Pre-Planning (2022-2023)	Plan & Analyze	Design, Build & Validate	Test	Deployment	Post Go Live Stabilization	Total (TY2024-2027)	
<b>O&amp;M by Phase</b> (Dollars in thousands) Direct Labor	Pre-Planning (2022-2023) \$794	Plan & Analyze \$505	Design, Build & Validate \$858	<b>Test</b> \$2,009	Deployment \$2,481	Post Go Live Stabilization \$272	Total (TY2024-2027) \$6,124	
<b>O&amp;M by Phase</b> (Dollars in thousands) Direct Labor Non-Labor	Pre-Planning (2022-2023) \$794 \$6,070	Plan & Analyze \$505 \$7,566	Design, Build & Validate \$858 \$11,641	<b>Test</b> \$2,009 \$14,468	<b>Deployment</b> \$2,481 \$23,400	Post Go Live Stabilization \$272 \$16,708	<b>Total</b> (TY2024-2027) \$6,124 \$73,782	
<b>O&amp;M by Phase</b> (Dollars in thousands) Direct Labor Non-Labor <b>Total Direct</b>	Pre-Planning (2022-2023) \$794 \$6,070 \$6,864	Plan & Analyze \$505 \$7,566 \$8,071	Design, Build & Validate \$858 \$11,641 \$12,498	<b>Test</b> \$2,009 \$14,468 \$16,477	<b>Deployment</b> \$2,481 \$23,400 \$25,881	Post Go Live Stabilization \$272 \$16,708 \$16,980	<b>Total</b> (TY2024-2027) \$6,124 \$73,782 \$79,907	
O&M by Phase (Dollars in thousands) Direct Labor Non-Labor Total Direct V&S	Pre-Planning (2022-2023) \$794 \$6,070 \$6,864 \$140	Plan & Analyze \$505 \$7,566 \$8,071 \$89	Design, Build & Validate \$858 \$11,641 \$12,498 \$151	<b>Test</b> \$2,009 \$14,468 \$16,477 \$355	<b>Deployment</b> \$2,481 \$23,400 \$25,881 \$438	Post Go Live Stabilization \$272 \$16,708 \$16,980 \$48	<b>Total</b> (TY2024-2027) \$6,124 \$73,782 \$79,907 \$1,081	

### CIS Replacement Program Forecast - By Phase

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# SoCalGas CIS Replacement Assessment Final Report

October 2021

A GRC - APPLICATION ERRA

Document Purpose This document summaria Accenture to identify a s Customer Information Sy Estimation Frameworks, results of the assessment CIS Replacement progra This document summarizes the results of the collaborative study between SoCalGas and Accenture to identify a solution, estimated timeline, and estimated costs to replace SoCalGas's Customer Information System. The study leveraged Accenture's CIS Assessment and CIS Estimation Frameworks, which have been applied at multiple North American utilities. The results of the assessment will serve as the basis for pre-planning activities required to launch the CIS Replacement program.

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# **Our Assessment**

Southern California Gas Company 2024 GRC - APPLICATION ERRATA Non-Shared Service Workpapers

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# Capability Maturity Assessment Overview We assessed the maturity of our existing capabilities (across Channels and CIS) using a strategic assessment framework. New capabilities were identified



# **Findings from B**it/Gap **Ä**ssessment

Capabilities that make up some of the most impactful customer experiences are <u>not</u> ຼື ອັ້ງອຸ່ງ ອັ້ງອັssible with the existing system given the current atchitecture and data model.

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Goldman

### **CIS Replacement Customer Experiences and Example of Capabilities**



Accessing, updating, and sharing customer history in realtime through centralized system



**More Proactive** Communications **Across Channels** 

**New Alternate Payment Options** 

- Ability to integrate data among various channels. Store date centrally or available on a real-time basis to all the departments, systems and processes via APIs or other automated integrations.
- Ability to provide a single screen to view/edit data on customer accounts. This screen would include contact history, view usage data and behavioral trends, across all channels for customer service representatives and account executives Ability to have a centralized platform to manage customer communications/notifications and customer channel preferences. Ability to store centralized payment information the customer (e.g., in CIS) so that customer can useA customer accounts. This screen would include
- - the customer (e.g., in CIS) so that customer can  $use_{\forall}$ same payment info stored to make a payment in channel of their choice.
- Ability for customers to have a single view to manage payments across multiple accounts (across multiple residential and commercial locations).

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Ability to split bills among multiple customers (for self-serve functions and with CSR)

We found that the capabilities that make up the most impactful customer experiences would **not be** Ppossible with the existing systems or would require Ppossible with the existing system Ensignificant effort to implement. With ess: E. Gold man



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	Value Levers	<b>Opportunities and Challenges</b>	<b>Enabling Capabilities</b>	
ഷ്	Technical Landscape Support	Adopt an architecture that lowers maintenance and enhances supportability to reduce the overall technical debt.	MODERN & FLEXIBLE ARCHITECTURE COMPLEXITY REDUCED TEST/TRAINING ENVIRONMENTS MAINTENANCE & COMPLEXITY	Non
ক	System Complexity	Reduce the complexity of the overall system in order to shorten the development/testing cycle and be flexible/agile to meet regulatory requirements or business demands. Using standard solutions with modernized programming tools and languages will increase the pool of available resources with the necessary skills and knowledge for future development. There is a high risk of resources retiring with the in-depth institutional knowledge of a highly customized solution.	STANDARD INDUSTRY SIMPLIFIED TEST DATA CREATION   SOLUTIONS & A   AUTOMATED TESTING SIMPLIFIED   SIMPLIFIED MODERN PROGRAMMING TOOLS & LANGUAGE	-Shared Service Workpapers
☆	Data Management	Provide cross organizational and workstream data intelligence with real- time data visibility and alerts to create improved situational awareness and data quality.	SINGLE SOURCE OF TRUTH CUSTOMER PRIVACY	DATA GOVERNANCE
Ŝ	Security	Provide a more flexible/configurable solution that supports enforcement of security roles and access reporting.	CONFIGURABLE SECURITY ROLES ACCOUNTABILITY & AUDIT TRACKING	CYBERSECURITY



# Solution Plan/Summary

Southern California Gas Company 2024 GRC - APPLICATION ERRATA Non-Shared Service Workpapers

# CIS Solution Plan Recommendation

### **ENABLING THE CAPABILITIES OF THE FUTURE**

Supporting the development of transformative decarbonization, diversification, and digitalization goals set in Aspire 2045

### **AGILITY**

Reducing system complexity and technical debt while integrating agility into SoCalGas business operations to foster innovation and enable new capabilities for our customers

### RESILIENCE

Maintaining an ever-improving resilient infrastructure that prevents, withstands, adapts to, and guickly recovers from disruption



### IMPROVED CUSTOMER AND EMPLOYEE EXPERIENCE

Enabling modern Customer Experiences (e.g., 360-degree view of customer, more personalized customer interactions, omni-channel experience)

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### REGULATORY COMPLIANCE

Agility and adaptability to respond to and implement cost effective business changes and regulatory requirements to support the CS business and regulators.

### SAFETY

Continued support of safe operations, company safety culture, and overall safety performance within SoCalGas's workplace and communities



Within SAP projects it is recommended to use the SAP standard functionalities for each SAP module whenever possible. The business processes can be managed via Configuration.

If business requirements results in additional developments (e.g. unique regulatory rules), additional developments may be necessary. A development object for SAP is called a RICEFW



## **CIS RICEFW Inventory Forecast**

Activity: forecast the total number of SAP developments [RICEFWs] that will be required to enable the future solution to meet SoCalGas's requirements and 4 uture capabilities list. RICEFWs are applicable to S4HANA, C4C, MKT Cloud. The RICEFW forecasts made can be drilled down to RICEFW Type, Complexity, 🛱 nd Workstream.



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RICEFW Forecast	Simple (S)	Medium (M)	Complex (C)	Total
Reports (R)	12	47	21	80
Interface (I)	75	142	57	274
Conversion (C)	11	26	9	46
Enhancement (E)	22	95	87	204
Form (F)	17	20	4	41
Workflow (W)	0	2	2	4
Total Cou	nt 137	332	180	649
Total	<b>%</b> 21%	51%	28%	100%

### **CIS Process Inventory Assessment**

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Activity: analyzed all key SCG business processes and compared whether each process was implemented at SDG&E during their CIS Replacement. If so, what was the primary CIS sub-system(s) at SDG&E where the requirement was implemented [S4, C4C, SSA]. The process scope includes the Billing & Collections, Field & Dispatch, and Customer Contact Center business areas.

**Objective**: perform a high-level assessment on implementation feasibility leveraging the recommended SAP solution and ensure key SCG business processes are accounted for.



CIS Process Inventory Assessment SAP. While business rules and requirements will determine the level of configuration and enhancements required for each solution, the assessment's process mapping/comparison effort indicates that the recommended CIS solution (with 89 in-Scope Business Processes) can provide coverage for the required functionality to cover SoCalGas's key as-is customer Service business processes.

	Services Business	Processes (for ma	pping/con	nparison	to To-Be Proc	ess Inven	tory)
Business Area	Customer Contact Cen	iter Field & Dis	ispatch Billing & G		g & Collections		TOTAL
# of Business Processes Analyzed	27	25			54		106
CIS Replacement P	rogram Business Pr	ocesses (confirme	d – via pr	ocess ma	apping – to ful	y cover A	As-Is processe
Functional Area	Customer Engagement	Device Management	Consun Manag	nption ement	Revenue Managemen	t	TOTAL
# of Business Processes	45	10	1	Λ	20		80

Functional Area	Customer Engagement	Device Management	Consumption Management	Revenue Management	TOTAL
# of Business Processes Analyzed	45	10	14	20	89

# CIS Forecasting Approach

Southern California Gas Company 2024 GRC - APPLICATION ERRATA Non-Shared Service Workpapers

## **CIS Implementation Plan Forecast**

 $\widehat{G}$  he following diagram details the key forecasting factors used in determining the implementation plan costs.



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# CIS Estimated Resources, Hours, and Costs Resources Hours by

Workstream	Role Count
P Functional	72
dechnical	118
Change & Training	98
Project Mgt.	21
P Presting	34
æ ≨egacy Apps □	44
v □ Total	387

	Plan & Analyze	Design, Build & Validate	Test	Deploy	Post Go-live Support	Total Hours	202
SoCalGas Hours	33,040	80,350	103,630	83,804	18,750	319,574 Sh	4 GR
Contractor Hours	106,263	295,852	348,364	242,849	73,097	1,066,425 are	- Al
Tota	ls 139,303	376,202	451,994	326,653	91,847	1,385,999 Service	

**Hours by Phase** 

Cost Forecast Total forecasted program costs are approximately \$300 million. Specific forecasts for O&M and Capital will be included in the TY2024 GRC.

ATION ERRATE Gas Company

# CIS DISPOSITION SUMMARY

### SYSTEMS TO BE REPLACED: 21

 Includes Legacy CIS, Major Markets Customer Billing applications, legacy Data Warehouses, front office applications, and other CRM systems

### SYSTEMS TO BE REMEDIATED: 6

• Multiple Reporting & Analytics systems require remediation due to changes in the data model

SYSTEMS TO BE INTEGRATED WITH NEW CIS: 55

- Examples Include:
- Customer Contact Center (CCC) technology
- Digital Channel technology, including MyAccount
- Existing enterprise SAP subsystems
- Advanced Metering systems
- Customer Services Workforce Management (WFM) systems
- Payment processing & collections management systems

Area: CIS REPLACEMENT PROGRAM

Witness: Evan D. Goldman

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

Cost Center	Sub	<b>Description</b>
2200-0804	000	CIS - WORK MANAGEMENT SYSTEM
2200-0853	000	CIS-WMS-VISTA
2200-8940	000	Customer Services – Vista