

Application of SOUTHERN CALIFORNIA GAS)
COMPANY for authority to update its gas)
revenue requirement and base rates)
effective January 1, 2028 (U 904-G))

Application No.: A.26-06-014

Exhibit No.: (SCG-05-CWP.1)

REVISED CAPITAL WORKPAPERS TO
PREPARED DIRECT TESTIMONY
OF GINA OROZCO
ON BEHALF OF SOUTHERN CALIFORNIA GAS COMPANY

BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF CALIFORNIA

SEPTEMBER 2026



2028 General Rate Case - REVISED
INDEX OF WORKPAPERS

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Overall Summary For Exhibit No. SCG-05-CWP.1

Area:	GAS TRANSMISSION & STORAGE
Witness:	Gina Orozco

- A. Transmission**
- C. Aboveground Storage**
- D. Underground Storage**
- E. SIMP**

In 2025 \$ (000)					
Adjusted-Forecast					
2026	2027	2028	2029	2030	2031
105,631	168,662	213,487	234,726	234,601	235,896
110,425	105,822	141,957	156,051	171,244	189,000
43,775	50,319	70,420	77,457	85,199	93,716
56,282	59,730	89,342	81,051	81,493	74,790
Total	316,113	384,533	549,285	572,537	593,402

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: A. Transmission
Workpaper: VARIOUS

Summary for Category: A. Transmission

	In 2025\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
Labor	15,755	12,682	20,240	25,355	27,553	27,428	27,443
Non-Labor	136,841	92,949	148,422	188,132	207,173	207,173	208,453
NSE	0	0	0	0	0	0	0
Total	152,596	105,631	168,662	213,487	234,726	234,601	235,896
FTE	119.9	94.8	120.4	131.0	135.8	135.6	135.9

Workpapers belonging to this Category:

003010 GT Pipelines New Additions

Labor	153	237	235	234	234	234	234
Non-Labor	357	1,111	1,111	1,111	1,111	1,111	1,111
NSE	0	0	0	0	0	0	0
Total	510	1,348	1,346	1,345	1,345	1,345	1,345
FTE	1.2	1.8	1.8	1.8	1.8	1.8	1.8

Unit Measure: Miles of Pipe

Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
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003020 GT Pipelines Replacements

Labor	4,092	4,152	6,390	9,053	10,784	10,783	10,780
Non-Labor	43,598	30,162	46,826	66,641	79,500	79,500	79,500
NSE	0	0	0	0	0	0	0
Total	47,690	34,314	53,216	75,694	90,284	90,283	90,280
FTE	32.6	32.3	37.5	45.3	51.2	51.4	51.4

Unit Measure: Miles of Pipe

Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
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Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: A. Transmission
Workpaper: VARIOUS

In 2025\$ (000) Incurred Costs							
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
003030 GT Pipeline Relocation - Freeway							
Labor	267	133	132	131	131	131	131
Non-Labor	2,236	1,989	1,989	1,989	1,989	1,989	1,989
NSE	0	0	0	0	0	0	0
Total	2,503	2,122	2,121	2,120	2,120	2,120	2,120
FTE	1.9	0.9	0.9	0.9	0.9	0.9	0.9
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
003040 GT Pipeline Relocation - Franchise/Private/ROW							
Labor	745	736	730	727	726	725	725
Non-Labor	5,092	7,368	7,368	7,368	7,368	7,368	7,368
NSE	0	0	0	0	0	0	0
Total	5,837	8,104	8,098	8,095	8,094	8,093	8,093
FTE	5.7	5.1	5.1	5.1	5.1	5.1	5.1
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
003050 GT Compressor Stations							
Labor	1,588	1,019	2,598	3,141	1,066	1,066	1,065
Non-Labor	20,954	7,405	19,034	23,120	7,858	7,858	7,858
NSE	0	0	0	0	0	0	0
Total	22,542	8,424	21,632	26,261	8,924	8,924	8,923
FTE	11.3	7.9	15.2	15.7	5.1	5.1	5.1
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: A. Transmission
Workpaper: VARIOUS

In 2025\$ (000) Incurred Costs							
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
003060 GT Cathodic Protection							
Labor	1,411	1,372	1,051	983	2,548	2,547	2,547
Non-Labor	18,522	9,966	7,701	7,237	18,781	18,781	18,781
NSE	0	0	0	0	0	0	0
Total	19,933	11,338	8,752	8,220	21,329	21,328	21,328
FTE	11.7	10.7	6.2	4.9	12.1	12.1	12.2
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
003080 GT Measurement & Regulation Stations							
Labor	3,047	673	4,082	6,366	7,562	7,561	7,559
Non-Labor	18,044	4,888	29,917	46,868	55,748	55,748	55,748
NSE	0	0	0	0	0	0	0
Total	21,091	5,561	33,999	53,234	63,310	63,309	63,307
FTE	23.9	5.2	23.9	31.8	35.9	36.0	36.1
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
003090 GT Security and Auxiliary Equipment							
Labor	512	1,369	1,951	2,145	2,278	2,278	2,277
Non-Labor	1,764	9,944	14,296	15,788	16,788	16,788	16,788
NSE	0	0	0	0	0	0	0
Total	2,276	11,313	16,247	17,933	19,066	19,066	19,065
FTE	4.3	10.6	11.4	10.7	10.8	10.9	10.9
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: A. Transmission
Workpaper: VARIOUS

In 2025\$ (000) Incurred Costs							
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
003500 GT Technology & Software							
Labor	2,065	1,284	1,379	891	542	421	444
Non-Labor	9,898	4,086	4,150	1,980	2,000	2,000	3,280
NSE	0	0	0	0	0	0	0
Total	11,963	5,370	5,529	2,871	2,542	2,421	3,724
FTE	15.3	10.0	8.1	4.5	2.6	2.0	2.1
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
006030 GT Buildings & Improvements							
Labor	8	53	52	52	52	52	52
Non-Labor	56	1,251	1,251	1,251	1,251	1,251	1,251
NSE	0	0	0	0	0	0	0
Total	64	1,304	1,303	1,303	1,303	1,303	1,303
FTE	0.1	0.4	0.4	0.4	0.4	0.4	0.4
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357
007060 GT Capital Tools							
Labor	1	0	0	0	0	0	0
Non-Labor	1,665	221	221	221	221	221	221
NSE	0	0	0	0	0	0	0
Total	1,666	221	221	221	221	221	221
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: A. Transmission
Workpaper: VARIOUS

In 2025\$ (000) Incurred Costs							
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
B03020 GT Leak Repair							
Labor	1,866	1,654	1,640	1,632	1,630	1,630	1,629
Non-Labor	14,655	14,558	14,558	14,558	14,558	14,558	14,558
NSE	0	0	0	0	0	0	0
Total	16,521	16,212	16,198	16,190	16,188	16,188	16,187
FTE	11.9	9.9	9.9	9.9	9.9	9.9	9.9
Unit Measure: Miles of Pipe							
Units	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
003010 - GT Pipelines New Additions**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	328	80	275	307	153	237	235	234	234	234	234
Non-Labor	5-YR Average	607	117	713	3,761	357	1,111	1,111	1,111	1,111	1,111	1,111
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		935	197	988	4,069	510	1,348	1,346	1,345	1,345	1,345	1,345
FTE	5-YR Average	2.3	0.6	2.2	2.5	1.2	1.8	1.8	1.8	1.8	1.8	1.8
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

Projects under this workpaper - GT New pipeline additions, are primarily developed in response to customer requests for new or expanded natural gas service. As new residential, commercial, and industrial developments emerge, additional transmission infrastructure may be required to maintain adequate supply to existing customers while providing requested service to growing areas. These investments expand system capacity and enhance reliability and resiliency, supporting the transmission system's ability to safely and effectively meet current and future customer demands .

Physical Description:

Projects included in this workpaper encompass the costs to plan, design, permit, procure materials, construct, commission, and mitigate impacts associated with the replacement of pipelines, fittings, valves, and related pressure regulating stations and service lines. Projects within this category vary in scope and scale, ranging from short pipeline segments of a few feet to installations spanning several miles.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

The activities involved in New Construction Pipeline are necessary to provide a safe and reliable gas transmission system. These costs are being incurred in response to SoCalGas's obligation to meet customer needs.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast methodology developed for GT Pipelines New Additions uses a five-year average based on historical data from 2021 through 2025. Activities within this cost element are primarily driven by external customer requests, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - 5-YR Average

The forecast methodology developed for GT Pipelines New Additions uses a five-year average based on historical data from 2021 through 2025. Activities within this cost element are primarily driven by external customer requests, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	229	229	229	229	229	229	8	6	5	5	5	5	237	235	234	234	234	234
NLbr	1,111	1,111	1,111	1,111	1,111	1,111	0	0	0	0	0	0	1,111	1,111	1,111	1,111	1,111	1,111
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,340	1,340	1,340	1,340	1,340	1,340	8	6	5	5	5	5	1,348	1,346	1,345	1,345	1,345	1,345
FTE	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	8	0	0	8	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	8	0	0	8	0.0	0
2027	6	0	0	6	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	6	0	0	6	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028	5	0	0	5	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	5	0	0	5	0.0	0
2029	5	0	0	5	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	5	0	0	5	0.0	0
2030	5	0	0	5	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	5	0	0	5	0.0	0
2031	5	0	0	5	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	5	0	0	5	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	196	56	225	254	130
Non-Labor	427	96	675	3,603	357
NSE	0	0	0	0	0
Total	623	152	900	3,857	487
FTE	1.9	0.5	1.9	2.1	1.0
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	196	56	225	254	130
Non-Labor	427	96	675	3,603	357
NSE	0	0	0	0	0
Total	623	152	900	3,857	487
FTE	1.9	0.5	1.9	2.1	1.0
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	35	9	36	41	23

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	35	9	36	41	23
FTE	0.4	0.1	0.3	0.4	0.2
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	97	15	15	13	0
Non-Labor	180	21	38	158	0
NSE	0	0	0	0	0
Total	277	36	53	171	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	328	80	275	307	153
Non-Labor	607	117	713	3,761	357
NSE	0	0	0	0	0
Total	935	197	988	4,069	510
FTE	2.3	0.6	2.2	2.5	1.2
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	3,357
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	3,357
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003010**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Workpaper Detail: 003010.001 - GT Pipelines New Additions - Collectible
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Pipelines New Additions - Collectible

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	226	224	223	223	223	223
Non-Labor	1,055	1,055	1,055	1,055	1,055	1,055
NSE	0	0	0	0	0	0
Total	1,281	1,279	1,278	1,278	1,278	1,278
FTE	1.7	1.7	1.7	1.7	1.7	1.7
Units	3,189	3,189	3,189	3,189	3,189	3,189

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00301.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003010 - GT Pipelines New Additions
Workpaper Detail: 003010.002 - Non-Collectible
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

Non-Collectible portion of Workpaper 301.0

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	11	11	11	11	11	11
Non-Labor	56	56	56	56	56	56
NSE	0	0	0	0	0	0
Total	67	67	67	67	67	67
FTE	0.1	0.1	0.1	0.1	0.1	0.1
Units	168	168	168	168	168	168

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
003020 - GT Pipelines Replacements**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	4,011	4,596	4,993	3,672	4,092	4,152	6,390	9,053	10,784	10,783	10,780
Non-Labor	Zero-Based	64,109	95,441	57,291	41,677	43,598	30,162	46,826	66,641	79,500	79,500	79,500
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		68,120	100,037	62,284	45,349	47,690	34,314	53,216	75,694	90,284	90,283	90,280
FTE	Zero-Based	21.2	29.8	35.7	25.3	32.6	32.3	37.5	45.3	51.2	51.4	51.4
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

Natural gas transmission pipelines need to be replaced due to the condition of the pipeline or hazardous conditions affecting the existing pipeline location. Projects may include pipeline replacements to address external damage, loss of soil cover due to erosion or agricultural activities, municipal or right of way constraints, and geohazards, such as slope movement, subsidence, or landslides, and changes in class location resulting from new development.

Physical Description:

Projects in this workpaper include the cost to plan, design, permit, acquire materials, construct, commission, and mitigate impacts for the replacement of pipelines, fittings, valves, and associated pressure regulating stations and service lines. Multiple projects are completed each year, ranging in size and magnitude from a few feet to several miles of replacement. Projects can involve difficult and hazardous access with many logistical challenges caused by weather or physical terrain.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

These projects are undertaken to reduce the potential for pipeline damage, maintain required access for inspection and maintenance, and support continued safe and compliant operation of the transmission system.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GT Pipeline Replacements is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning expenditures with documented pipeline conditions, applicable regulatory requirements, and supporting engineering assessments. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GT Pipeline Replacements is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning expenditures with documented pipeline conditions, applicable regulatory requirements, and supporting engineering assessments. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	4,004	6,216	8,846	10,553	10,553	10,553	148	174	207	231	230	227	4,152	6,390	9,053	10,784	10,783	10,780
NLbr	30,162	46,826	66,641	79,500	79,500	79,500	0	0	0	0	0	0	30,162	46,826	66,641	79,500	79,500	79,500
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	34,166	53,042	75,487	90,053	90,053	90,053	148	174	207	231	230	227	34,314	53,216	75,694	90,284	90,283	90,280
FTE	32.3	37.5	45.3	51.2	51.4	51.4	0.0	0.0	0.0	0.0	0.0	0.0	32.3	37.5	45.3	51.2	51.4	51.4
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	148	0	0	148	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	148	0	0	148	0.0	0
2027	174	0	0	174	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	174	0	0	174	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	207	0	0	207	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	207	0	0	207	0.0	0
2029	231	0	0	231	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	231	0	0	231	0.0	0
2030	230	0	0	230	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	230	0	0	230	0.0	0
2031	227	0	0	227	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	227	0	0	227	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	2,833	4,410	5,435	4,701	5,064
Non-Labor	53,614	90,036	67,410	56,771	58,205
NSE	0	0	0	0	0
Total	56,447	94,446	72,845	61,472	63,269
FTE	21.4	33.3	40.1	32.3	37.4
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-434	-1,192	-1,356	-1,670	-1,586
Non-Labor	-8,487	-11,928	-13,173	-16,848	-14,607
NSE	0	0	0	0	0
Total	-8,921	-13,119	-14,529	-18,518	-16,193
FTE	-3.5	-8.1	-9.6	-10.7	-10.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	2,400	3,218	4,079	3,031	3,478
Non-Labor	45,126	78,109	54,237	39,922	43,598
NSE	0	0	0	0	0
Total	47,526	81,327	58,317	42,954	47,075
FTE	17.9	25.2	30.5	21.6	27.4
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	424	543	648	487	614

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	424	543	648	487	614
FTE	3.3	4.6	5.2	3.7	5.2
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	1,188	835	266	155	0
Non-Labor	18,983	17,332	3,054	1,755	0
NSE	0	0	0	0	0
Total	20,170	18,167	3,320	1,909	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	4,011	4,596	4,993	3,672	4,092
Non-Labor	64,109	95,441	57,291	41,677	43,598
NSE	0	0	0	0	0
Total	68,120	100,037	62,284	45,349	47,690
FTE	21.2	29.8	35.7	25.3	32.6
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-434	-1,192	-1,356	-1,670	-1,586
Non-Labor	-8,487	-11,928	-13,173	-16,848	-14,607
NSE	0	0	0	0	0
Total	-8,921	-13,119	-14,529	-18,518	-16,193
FTE	-3.5	-8.1	-9.6	-10.7	-10.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	-434	-8,487	0	-8,921	-3.5	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2021	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2021 Total	-434	-8,487	0	-8,921	-3.5	3,357
2022	-1,192	-11,928	0	-13,119	-8.1	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: 302 Leak Repairs transferred to workpaper B302						
2022	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2022 Total	-1,192	-11,928	0	-13,119	-8.1	3,357
2023	-1,356	-13,173	0	-14,529	-9.6	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	-1,356	-13,173	0	-14,529	-9.6	3,357
2024	-1,670	-16,848	0	-18,518	-10.7	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	-1,670	-16,848	0	-18,518	-10.7	3,357
2025	-1,586	-14,655	0	-16,241	-10.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: 302 Leak Repairs transferred to workpaper B302						
2025	0	48	0	48	0.0	0
Explanation: Non-CEMA cost adjustment for related change in CEMA data identifier.						
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	-1,586	-14,607	0	-16,193	-10.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003020**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003020 - GT Pipelines Replacements
Workpaper Detail: 003020.001 - GT Pipelines Replacements
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Pipelines Replacements

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	4,152	6,390	9,053	10,784	10,783	10,780
Non-Labor	30,162	46,826	66,641	79,500	79,500	79,500
NSE	0	0	0	0	0	0
Total	34,314	53,216	75,694	90,284	90,283	90,280
FTE	32.3	37.5	45.3	51.2	51.4	51.4
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003020

Southern California Gas Company

2028 GRC - REVISED

Capital Workpapers

WP #: 003020

Workpaper: GT Pipelines Replacements

Description	SCG - 003020 - GT Pipelines Replacements						
Forecast Method		Forecast					
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	4,152	6,390	9,053	10,784	10,783	10,780
NLbr	Zero-Based	30,162	46,826	66,641	79,500	79,500	79,500
NSE	Zero-Based	-	-	-	-	-	-
Total:		34,314	53,216	75,694	90,284	90,283	90,280

FTEs	Zero-Based	32.3	37.5	45.3	51.2	51.4	51.4
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

003020 - GT Pipelines Replacements

Description: More than 180 projects have been identified within this cost category for the 2026-2029 period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning expenditures with documented pipeline conditions, applicable regulatory requirements, and supporting engineering assessments.

Background: GT Pipeline Replacements are driven by the need to proactively maintain the safety, reliability, and integrity of the natural gas transmission system. These investments support the replacement of pipeline segments that have deteriorated due to age, corrosion, or environmental exposure, as well as segments affected by external forces such as erosion, ground movement, or changing site conditions that compromise pipeline stability. In addition, certain replacements are required to address evolving regulatory requirements and inspection findings. Collectively, these capital investments address safety and integrity risks, maintain continued compliance with applicable regulations, and support the long-term, reliable operation of the transmission network.

Projects described below are representative of activities within this workpaper.

L8109 MLV MP 54.27 - The project is required to address safety and operability risks associated with an outdated main line valve (MLV) and vault that can no longer be operated reliably and presents an increased potential for leakage. The proposed solution is removal of the existing MLV, vault, and associated appurtenances and replacement with modern, reliable equipment. This work mitigates the risk of valve failure, gas leaks, and delayed or ineffective emergency response—particularly given the valve cannot be safely operated by a single person—while restoring safe, dependable isolation capability and improving overall system integrity.

L173 MP 1.55 Drop Section - The project is required to address a pipeline span at Milepost 1.55 on the 10-inch Line 173 that was originally aboveground but has become buried over time, resulting in long-term integrity and scour-related risk identified during a CPUC audit. The proposed solution is installation of a drop section based on hydrology and scour analysis, including removal of approximately 140 feet of existing pipe and installation of approximately 150 feet of new 10 inch pipe beneath the wash. This work mitigates the risk of pipe damage from erosion or hydraulic forces, restores compliance with regulatory expectations, and protects long term pipeline integrity at the crossing.

6916 Exposure Repairs, MP 121.3 Sunnyslope, 29 Palms - The project is required to address safety and reliability risks along a one mile section of the 16 inch Line 6916 in Twentynine Palms, where wind erosion and multiple washouts have resulted in shallow pipeline cover. The proposed solution is to restore adequate cover and install protective armoring over the existing pipeline within the right-of-way across private and BLM lands, based on observed field conditions and prior potholing investigations. This work mitigates the risk of exposure related damage, erosion, and potential loss of pipeline integrity, supporting continued safe operation and long term reliability of the transmission system in a challenging environmental setting.

L-2001 Pipeline exposed in (Wash), West of Eagle Mountain Rd, north of I-10 freeway - The project is required to address a safety and integrity risk created by approximately 30 feet of exposed Line 2001 pipeline within a wash located west of Eagle Mountain Road and north of the I 10 freeway. The proposed solution is to remediate the exposure through excavation, restoration of adequate cover, and any necessary protective measures to stabilize the wash crossing. This work mitigates the risk of pipeline damage from erosion and hydraulic forces, reduces the potential for further exposure, and restores safe, reliable operation of the pipeline.

Other Example Projects: *L1003 Exposure MP 29.09, L85 MP 89.57 Exposure Recoat, L2000 MP 189.50 Concrete Collar Replace*

Beginning of Workpaper Group
003030 - GT Pipeline Relocation - Freeway

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	6	83	232	53	267	133	132	131	131	131	131
Non-Labor	5-YR Average	30	1,737	5,417	527	2,236	1,989	1,989	1,989	1,989	1,989	1,989
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		36	1,820	5,649	580	2,503	2,122	2,121	2,120	2,120	2,120	2,120
FTE	5-YR Average	0.0	0.6	1.4	0.5	1.9	0.9	0.9	0.9	0.9	0.9	0.9
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

This workpaper includes costs associated with pipeline and associated facility relocations necessitated by Caltrans construction projects.

Physical Description:

The work required in this category includes relocating and replacing pipelines and related facilities found to conflict with Caltrans construction projects. Individual projects can vary in complexity, scope, and costs.

Project Justification:

Freeway relocation projects are initiated by Caltrans when planned freeway improvements conflict with existing SoCalGas transmission facilities. SoCalGas must relocate affected pipelines within externally defined schedules , resulting in cost and timing impacts largely outside the company's control.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast method developed for GT Pipeline Relocation – Freeway uses a five-year average based on historical data from 2021 through 2025. Activities within this cost category are primarily driven by Caltrans project schedules and budget cycles, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - 5-YR Average

The forecast method developed for GT Pipeline Relocation – Freeway uses a five-year average based on historical data from 2021 through 2025. Activities within this cost category are primarily driven by Caltrans project schedules and budget cycles, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	128	128	128	128	128	128	5	4	3	3	3	3	133	132	131	131	131	131
NLbr	1,989	1,989	1,989	1,989	1,989	1,989	0	0	0	0	0	0	1,989	1,989	1,989	1,989	1,989	1,989
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	2,117	2,117	2,117	2,117	2,117	2,117	5	4	3	3	3	3	2,122	2,121	2,120	2,120	2,120	2,120
FTE	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	5	0	0	5	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	5	0	0	5	0.0	0
2027	4	0	0	4	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	4	0	0	4	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028	3	0	0	3	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	3	0	0	3	0.0	0
2029	3	0	0	3	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	3	0	0	3	0.0	0
2030	3	0	0	3	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	3	0	0	3	0.0	0
2031	3	0	0	3	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	3	0	0	3	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	4	58	190	44	227
Non-Labor	21	1,421	5,128	505	2,236
NSE	0	0	0	0	0
Total	25	1,479	5,318	548	2,463
FTE	0.0	0.5	1.2	0.4	1.6
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	4	58	190	44	227
Non-Labor	21	1,421	5,128	505	2,236
NSE	0	0	0	0	0
Total	25	1,479	5,318	548	2,463
FTE	0.0	0.5	1.2	0.4	1.6
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	1	10	30	7	40

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1	10	30	7	40
FTE	0.0	0.1	0.2	0.1	0.3
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	2	15	12	2	0
Non-Labor	9	315	289	22	0
NSE	0	0	0	0	0
Total	11	330	301	24	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	6	83	232	53	267
Non-Labor	30	1,737	5,417	527	2,236
NSE	0	0	0	0	0
Total	36	1,820	5,649	580	2,503
FTE	0.0	0.6	1.4	0.5	1.9
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	3,357
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	3,357
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003030**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00303.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003030 - GT Pipeline Relocation - Freeway
Workpaper Detail: 003030.001 - GT Pipeline Relocation - Freeway
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Pipeline Relocation - Freeway

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	133	132	131	131	131	131
Non-Labor	1,989	1,989	1,989	1,989	1,989	1,989
NSE	0	0	0	0	0	0
Total	2,122	2,121	2,120	2,120	2,120	2,120
FTE	0.9	0.9	0.9	0.9	0.9	0.9
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Beginning of Workpaper Group
003040 - GT Pipeline Relocation - Franchise/Private/ROW

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	1,022	700	719	365	745	736	730	727	726	725	725
Non-Labor	5-YR Average	14,614	8,647	6,694	1,794	5,092	7,368	7,368	7,368	7,368	7,368	7,368
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		15,636	9,348	7,413	2,159	5,836	8,104	8,098	8,095	8,094	8,093	8,093
FTE	5-YR Average	6.3	5.0	5.6	3.0	5.7	5.1	5.1	5.1	5.1	5.1	5.1
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

Pipeline Relocation - Franchise/ Private/ ROW includes costs associated with the modification and relocation of transmission pipelines to accommodate planned private property development, municipal public works, street improvements projects, and other work required due to right-of-way, contract and franchise agreements.

Physical Description:

This work includes relocating pipelines and other associated work that is driven by franchise agreements, private property and ROW. Scope can vary significantly depending on the extent of the conflict with existing facilities, the complexity of the municipal or private project, and the physical characteristics of the construction area. Work may involve lowering or shifting pipeline alignments , relocating pipelines out of conflict zones and modifying adjacent appurtenances.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Pipelines are relocated according to the requirements of municipal franchise agreements and agreements with property developers.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast method developed for GT Pipeline Relocation – Franchise/Private/ROW uses a five-year average based on historical data from 2021 through 2025. Activities within this cost element are primarily driven by municipalities, counties, private property owners, and other external entities, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - 5-YR Average

The forecast method developed for GT Pipeline Relocation – Franchise/Private/ROW uses a five-year average based on historical data from 2021 through 2025. Activities within this cost element are primarily driven by municipalities, counties, private property owners, and other external entities, resulting in workload variability from year to year. This approach is appropriate as it captures historical spending patterns while accounting for fluctuations in project timing and scope.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	710	710	710	710	710	710	26	20	17	16	15	15	736	730	727	726	725	725
NLbr	7,368	7,368	7,368	7,368	7,368	7,368	0	0	0	0	0	0	7,368	7,368	7,368	7,368	7,368	7,368
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,078	8,078	8,078	8,078	8,078	8,078	26	20	17	16	15	15	8,104	8,098	8,095	8,094	8,093	8,093
FTE	5.1	5.1	5.1	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	5.1	5.1	5.1	5.1
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	26	0	0	26	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	26	0	0	26	0.0	0
2027	20	0	0	20	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	20	0	0	20	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028	17	0	0	17	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	17	0	0	17	0.0	0
2029	16	0	0	16	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	16	0	0	16	0.0	0
2030	15	0	0	15	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	15	0	0	15	0.0	0
2031	15	0	0	15	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	15	0	0	15	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	612	490	588	302	633
Non-Labor	10,287	7,077	6,337	1,718	5,092
NSE	0	0	0	0	0
Total	10,898	7,567	6,925	2,020	5,725
FTE	5.3	4.2	4.8	2.6	4.8
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	612	490	588	302	633
Non-Labor	10,287	7,077	6,337	1,718	5,092
NSE	0	0	0	0	0
Total	10,898	7,567	6,925	2,020	5,725
FTE	5.3	4.2	4.8	2.6	4.8
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	108	83	93	48	112

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	108	83	93	48	112
FTE	1.0	0.8	0.8	0.4	0.9
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	303	127	38	15	0
Non-Labor	4,327	1,570	357	76	0
NSE	0	0	0	0	0
Total	4,630	1,698	395	91	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	1,022	700	719	365	745
Non-Labor	14,614	8,647	6,694	1,794	5,092
NSE	0	0	0	0	0
Total	15,636	9,348	7,413	2,159	5,836
FTE	6.3	5.0	5.6	3.0	5.7
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2022	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	3,357
2023	0	0	0	0	0.0	0
Explanation: Unit Alignment						
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	3,357
2024	0	0	0	0	0.0	0
Explanation: Unit Alignment						
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	3,357
2025	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003040**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Workpaper Detail: 003040.001 - GT Pipeline Relocation - Franchise/Private/ROW
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Pipeline Relocation - Franchise/Private/ROW

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	235	233	233	232	231	232
Non-Labor	2,358	2,358	2,358	2,358	2,358	2,358
NSE	0	0	0	0	0	0
Total	2,593	2,591	2,591	2,590	2,589	2,590
FTE	1.6	1.6	1.6	1.6	1.6	1.6
Units	1,074	1,074	1,074	1,074	1,074	1,074

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00304.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003040 - GT Pipeline Relocation - Franchise/Private/ROW
Workpaper Detail: 003040.002 - Non-Collectible
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

Non-Collectible

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	501	497	494	494	494	493
Non-Labor	5,010	5,010	5,010	5,010	5,010	5,010
NSE	0	0	0	0	0	0
Total	5,511	5,507	5,504	5,504	5,504	5,503
FTE	3.5	3.5	3.5	3.5	3.5	3.5
Units	2,283	2,283	2,283	2,283	2,283	2,283

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
003050 - GT Compressor Stations**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	2,490	2,959	2,375	2,591	1,588	1,019	2,598	3,141	1,066	1,066	1,065
Non-Labor	Zero-Based	40,512	28,548	36,075	28,089	20,954	7,405	19,034	23,120	7,858	7,858	7,858
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		43,002	31,508	38,450	30,680	22,542	8,424	21,632	26,261	8,924	8,924	8,923
FTE	Zero-Based	14.6	19.4	18.3	18.0	11.3	7.9	15.2	15.7	5.1	5.1	5.1
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

This workpaper includes costs associated with the installation and replacement of compressor station equipment used in operating the transmission system. The nature of compressor station operation requires upgrades or replacement of key engine components and control equipment to sustain the reliability and safety of the facility. To keep operating costs down, reliance is made on automating data gathering systems to monitor performance such as flows, pressures, and temperatures. Upgrading and replacing controls is critical to enable the station to operate efficiently.

Physical Description:

GT Compressor Station capital activities include installing, replacing, refurbishing, constructing, testing, and upgrading compressor engines, turbines, pipelines, valves, control systems, cooling systems, lube oil systems, fuel gas supply systems, instrumentation, PLCs, exhaust systems, and auxiliary mechanical and electrical equipment within station boundaries.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

GT Compressor Station capital projects are required to maintain safe and reliable transmission system operations by addressing regulatory requirements, equipment outages, and aging mechanical and control systems critical to maintaining system pressures and delivery capability.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GT Compressor Stations is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented compressor conditions and applicable regulatory requirements. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GT Compressor Stations is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented compressor conditions and applicable regulatory requirements.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	983	2,527	3,069	1,043	1,043	1,043	36	71	72	23	23	22	1,019	2,598	3,141	1,066	1,066	1,065
NLbr	7,405	19,034	23,120	7,858	7,858	7,858	0	0	0	0	0	0	7,405	19,034	23,120	7,858	7,858	7,858
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	8,388	21,561	26,189	8,901	8,901	8,901	36	71	72	23	23	22	8,424	21,632	26,261	8,924	8,924	8,923
FTE	7.9	15.2	15.7	5.1	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0	7.9	15.2	15.7	5.1	5.1	5.1
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	36	0	0	36	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	36	0	0	36	0.0	0
2027	71	0	0	71	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	71	0	0	71	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	72	0	0	72	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	72	0	0	72	0.0	0
2029	23	0	0	23	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	23	0	0	23	0.0	0
2030	23	0	0	23	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	23	0	0	23	0.0	0
2031	22	0	0	22	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	22	0	0	22	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	1,601	2,294	2,293	2,420	1,877
Non-Labor	30,693	31,281	53,401	39,487	23,269
NSE	0	0	0	0	0
Total	32,295	33,575	55,694	41,907	25,146
FTE	13.4	19.2	18.4	17.3	12.5
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-112	-222	-353	-281	-527
Non-Labor	-2,177	-7,917	-19,249	-12,581	-2,315
NSE	0	0	0	0	0
Total	-2,289	-8,139	-19,601	-12,862	-2,842
FTE	-1.1	-2.8	-2.7	-2.0	-3.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	1,490	2,072	1,940	2,139	1,350
Non-Labor	28,516	23,364	34,152	26,906	20,954
NSE	0	0	0	0	0
Total	30,006	25,436	36,093	29,045	22,304
FTE	12.3	16.4	15.7	15.3	9.5
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	263	350	308	343	238

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	263	350	308	343	238
FTE	2.3	3.0	2.6	2.7	1.8
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	737	537	127	109	0
Non-Labor	11,996	5,184	1,923	1,183	0
NSE	0	0	0	0	0
Total	12,733	5,722	2,049	1,292	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	2,490	2,959	2,375	2,591	1,588
Non-Labor	40,512	28,548	36,075	28,089	20,954
NSE	0	0	0	0	0
Total	43,002	31,508	38,450	30,680	22,542
FTE	14.6	19.4	18.3	18.0	11.3
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-112	-222	-353	-281	-527
Non-Labor	-2,177	-7,917	-19,249	-12,581	-2,315
NSE	0	0	0	0	0
Total	-2,289	-8,139	-19,601	-12,862	-2,842
FTE	-1.1	-2.8	-2.7	-2.0	-3.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021	-112	-2,177	0	-2,289	-1.1	0
Explanation:	2200/92956 BLYTHE COMPRESSOR INTEGRATION - GOGT transfer to GMP					
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	-112	-2,177	0	-2,289	-1.1	3,357
2022	-213	-7,905	0	-8,118	-1.8	0
Explanation:	2200/92956BLYTHE COMPRESSOR INTEGRATION GOGT transfer to GMP					
2022	-9	-12	0	-20	-1.0	0
Explanation:	Transfer Facility Security upgrade costs from Gas Transmission Storage to Facilities					
2022	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	-222	-7,917	0	-8,139	-2.8	3,357
2023	-349	-19,152	0	-19,501	-2.7	0
Explanation:	2200/70752 FACILITIES-BLYTHE-C7100 OVERHAUL 2200/70753BLYTHE PLANT 4 - CRITICAL SPARE GG & PT,2200/92956, BLYTHE COMPRESSOR INTEGRATION - GOGT transfer to GMP					
2023	-4	-97	0	-100	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2023	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2023 Total	-353	-19,249	0	-19,601	-2.7	3,357
2024	-272	-10,583	0	-10,855	-1.9	0
Explanation:	2200/70752 FACILITIES-BLYTHE-C7100 OVERHAUL 2200/70753BLYTHE PLANT 4 - CRITICAL SPARE GG & PT,2200/92956, BLYTHE COMPRESSOR INTEGRATION - GOGT transfer to GMP					
2024	0	0	0	0	0.0	0
Explanation:	Transfer Facility Security Upgrade costs from Gas Transmission and Storage to Facilities					
2024	-9	-1,998	0	-2,007	-0.1	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2024	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2024	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2024 Total	-281	-12,581	0	-12,862	-2.0	3,357
2025	-523	-1,375	0	-1,898	-3.0	0
Explanation:	2200/70752 FACILITIES-BLYTHE-C7100 OVERHAUL 2200/70753 'BLYTHE PLANT 4 - CRITICAL SPARE GG & PT, 2200/92956 BLYTHE COMPRESSOR INTEGRATION - GOGT to GMP					
2025	-4	-940	0	-944	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2025	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2025 Total	-527	-2,315	0	-2,842	-3.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003050**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00305.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003050 - GT Compressor Stations
Workpaper Detail: 003050.001 - GT Compressor Stations
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Compressor Stations

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,019	2,598	3,141	1,066	1,066	1,065
Non-Labor	7,405	19,034	23,120	7,858	7,858	7,858
NSE	0	0	0	0	0	0
Total	8,424	21,632	26,261	8,924	8,924	8,923
FTE	7.9	15.2	15.7	5.1	5.1	5.1
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003050

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #: 003050

Workpaper: GT Compressor Stations

Description	SCG - 003050 - GT Compressor Stations						
Forecast Method		Forecast					
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	1,019	2,598	3,141	1,066	1,066	1,065
NLbr	Zero-Based	7,405	19,034	23,120	7,858	7,858	7,858
NSE	Zero-Based	-	-	-	-	-	-
Total:		8,424	21,632	26,261	8,924	8,924	8,923

FTEs	Zero-Based	7.9	15.2	15.7	5.1	5.1	5.1
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

003050 - GT Compressor Stations

Description: More than 70 projects have been identified within this cost category for the 2026-2029 period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented compressor conditions and applicable regulatory requirements.

Background: The forecast is primarily driven by regulatory compliance, emissions-reduction requirements and the need to modernize aging compressor-station infrastructure to maintain safe, reliable, and environmentally compliant gas transmission operations. These projects address end-of-life equipment and critical integrity risks, replacing obsolete mechanical, electrical, and emissions-control systems needed to meet safety, reliability, and environmental requirements. The work also mitigates operational risks by decommissioning outdated facilities, upgrading vapor-recovery and air/compressor systems, and implementing controls that reduce methane emissions and prevent equipment failures.

Projects described below are representative of activities within this workpaper.

BP4 Methane Sensor Platform Plant 4 at Blythe Compressor Station - The project is required to address a safety and accessibility issue at Plant 4 of the Blythe Compressor Station, where the methane sensor cannot be safely accessed with the existing infrastructure. The proposed solution is installation of a new platform to provide safe and reliable access to the sensor for inspection, maintenance, and monitoring activities. This work mitigates the risk of improper sensor access, supports effective methane detection, and enhances personnel safety while supporting continued reliable emissions monitoring.

South Needles Water Softener Upgrade - The project is required to address long term operational and environmental issues at the South Needles Compressor Station caused by the existing salt based water softening system, which has led to recurring salt accumulation in retention ponds and ongoing maintenance challenges. The proposed solution is to replace the current system with a reverse osmosis (RO) water treatment system, along with associated upgrades to the salt brine pit, following completion of engineering and design activities. This work mitigates the risk of continued salt buildup, environmental impacts, and ongoing remediation costs, while improving water system reliability, supporting regulatory and capital commitments, and providing a sustainable long term solution for station operations.

Wheeler Ridge Compressor Station - Risk Mitigation/T401 Upgrades - The project is required to address critical safety, reliability, and compliance risks identified during inspections of multiple compressor units, with deficiencies affecting Unit 401 and the ammonia system. The proposed solution is targeted execution of upgrades on Unit 401, including installation of a seal gas supply pressure electric booster and air inlet collector, along with installation of control, isolation, and relief valves on the ammonia system. This work mitigates the risk of unit failure, dry seal contamination, and ammonia system non-compliance, restoring safe and reliable compressor operation.

Other Example Projects: *South Needles Static & CECO (Compressor Engineering Corporation) Low E-Pak, Plant 2 Jacket Water cooling Fans Catwalk Upgrade, Blythe Plant 2 Fire & Gas Detectors*

**Beginning of Workpaper Group
003060 - GT Cathodic Protection**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	1,071	885	780	1,286	1,411	1,372	1,051	983	2,548	2,547	2,547
Non-Labor	Zero-Based	16,683	9,038	8,809	8,228	18,522	9,966	7,701	7,237	18,781	18,781	18,781
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		17,753	9,924	9,590	9,514	19,933	11,338	8,752	8,220	21,329	21,328	21,328
FTE	Zero-Based	7.0	6.5	6.8	7.0	11.7	10.7	6.2	4.9	12.1	12.1	12.2
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

This workpaper includes costs associated with the installation of cathodic protection equipment used to preserve the integrity of transmission pipelines by protecting them from external corrosion. These projects support the protection of company equipment and are mandated by federal and state pipeline safety regulations.

Physical Description:

Expenditures forecast in this category are for cathodic protection applied to existing steel mains and service lines. Forecasted projects include the replacement or installation of surface anode beds, deep well anodes, rectifier systems, and cathodic protection stations. Cathodic protection projects often include the installation of new remote satellite communication technology which allows for more efficient operation and monitoring of the cathodic protection system. The work also encompasses AC modeling, field surveys, and the design and installation of AC mitigation measures—such as gradient control mats and grounding systems—to address induced AC interference from nearby electric transmission facilities and maintain corrosion control and safety compliance.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Project Justification:

The application of cathodic protection provides greater system protection against corrosion. This allows SoCalGas to meet safety compliance requirements that help to sustain reliability of the gas transmission system.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GT CP is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included if the project need has been identified; however, because many future activities remain undefined at this long planning horizon, the overall forecasts for those years are aligned to the 2029 forecast level. For this category, zero-based forecasting provides a more accurate depiction of future capital requirements by directly aligning projected expenditures with documented cathodic protection needs, applicable regulatory requirements, and supporting engineering evaluations. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GT CP is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included if the project need has been identified; however, because many future activities remain undefined at this long planning horizon, the overall forecasts for those years are aligned to the 2029 forecast level. For this category, zero-based forecasting provides a more accurate depiction of future capital requirements by directly aligning projected expenditures with documented cathodic protection needs, applicable regulatory requirements, and supporting engineering evaluations.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,323	1,022	961	2,493	2,493	2,493	49	29	22	55	54	54	1,372	1,051	983	2,548	2,547	2,547
NLbr	9,966	7,701	7,237	18,781	18,781	18,781	0	0	0	0	0	0	9,966	7,701	7,237	18,781	18,781	18,781
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,289	8,723	8,198	21,274	21,274	21,274	49	29	22	55	54	54	11,338	8,752	8,220	21,329	21,328	21,328
FTE	10.7	6.2	4.9	12.1	12.1	12.2	0.0	0.0	0.0	0.0	0.0	0.0	10.7	6.2	4.9	12.1	12.1	12.2
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	49	0	0	49	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	49	0	0	49	0.0	0
2027	29	0	0	29	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	29	0	0	29	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	22	0	0	22	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	22	0	0	22	0.0	0
2029	55	0	0	55	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	55	0	0	55	0.0	0
2030	54	0	0	54	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	54	0	0	54	0.0	0
2031	54	0	0	54	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	54	0	0	54	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	641	620	637	1,061	1,199
Non-Labor	11,743	7,397	8,340	7,882	18,522
NSE	0	0	0	0	0
Total	12,384	8,017	8,977	8,943	19,722
FTE	5.9	5.5	5.8	6.0	9.8
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	641	620	637	1,061	1,199
Non-Labor	11,743	7,397	8,340	7,882	18,522
NSE	0	0	0	0	0
Total	12,384	8,017	8,977	8,943	19,722
FTE	5.9	5.5	5.8	6.0	9.8
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	113	105	101	170	212

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	113	105	101	170	212
FTE	1.1	1.0	1.0	1.0	1.9
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	317	161	42	54	0
Non-Labor	4,940	1,641	470	346	0
NSE	0	0	0	0	0
Total	5,257	1,802	511	401	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	1,071	885	780	1,286	1,411
Non-Labor	16,683	9,038	8,809	8,228	18,522
NSE	0	0	0	0	0
Total	17,753	9,924	9,590	9,514	19,933
FTE	7.0	6.5	6.8	7.0	11.7
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	3,357
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	3,357
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	3,357
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003060**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00306.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003060 - GT Cathodic Protection
Workpaper Detail: 003060.001 - GT Cathodic Protection
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Cathodic Protection

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,372	1,051	983	2,548	2,547	2,547
Non-Labor	9,966	7,701	7,237	18,781	18,781	18,781
NSE	0	0	0	0	0	0
Total	11,338	8,752	8,220	21,329	21,328	21,328
FTE	10.7	6.2	4.9	12.1	12.1	12.2
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003060

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #: 003060	Workpaper: GT Cathodic Protection
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Description	SCG - 003060 - GT Cathodic Protection						
Forecast Method		Forecast					
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	1,372	1,051	983	2,548	2,547	2,547
NLbr	Zero-Based	9,966	7,701	7,237	18,781	18,781	18,781
NSE	Zero-Based	-	-	-	-	-	-
Total:		11,338	8,752	8,220	21,329	21,328	21,328

FTEs	Zero-Based	10.7	6.2	4.9	12.1	12.1	12.2
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

003060 - GT Cathodic Protection	
Description: More than 70 projects have been identified within this cost category for the 2026-2029 period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides a more accurate depiction of future capital requirements by directly aligning projected expenditures with documented cathodic protection needs, applicable regulatory requirements, and supporting engineering evaluations.	
Background: The forecast is primarily driven by the need to restore and maintain adequate cathodic protection levels across the transmission system, addressing out-of-tolerance pipe-to-soil readings, shorted insulation, failed or depleted deep-well anode beds, obsolete rectifiers, and corrosion threats. Much of the work consists of installing or replacing CP stations, deep wells, rectifiers, insulating kits, interference bonds, and replacing or redrilling failing anode beds to maintain continued compliance with PHMSA 49 CFR 192 Subpart I requirements for external corrosion control. Additionally, several sites require remediation of AC interference, grounding issues, and structural anchor point degradation to prevent coating damage, reduce corrosion risk, and maintain system integrity and safety.	
Projects described below are representative of activities within this workpaper. <u>Out of Tolerance Annual L-6001-M.P.55.345-P -</u> The project is required to correct an out of tolerance cathodic protection condition on Line 41 6001 2 at Milepost 55.345 that poses a long term corrosion and integrity risk if not addressed. The primary driver is the need to meet company CP performance standards and regulatory compliance requirements, as the location is on the Out of Tolerance (OOT) compliance schedule with a mandated completion date of October 2026. The scope of work includes completing engineering and design updates, securing required permits, procuring CP materials, and constructing and installing a new cathodic protection system, followed by project closeout. Completion of this work will restore effective corrosion protection, reduce the risk of pipeline degradation, and support continued safe, compliant operation of the pipeline. <u>L2000 MP 96.52 - Dillion Rd -</u> The project is required to address electrical safety and pipeline integrity risks at the new main line valves on Line 2000, where AC interference mitigation is necessary. The primary driver is the need to protect the pipeline and valve facilities from alternating current corrosion and voltage hazards associated with nearby electrical sources. The proposed scope includes activities to qualify the solution, including scoping, surveys, initial environmental assessments, and development of a contractor cost estimate, followed by installation of a new AC mitigation well equipped with an AC decoupler. This work will mitigate AC related corrosion and safety risks, support reliable operation of the new MLVs, and maintain compliance with electrical mitigation and pipeline integrity requirements. <u>L1180 MP 0.00 – Deep Well Anode Rectifier -</u> The project is required to improve corrosion protection and maintain pipeline integrity on Line 1180 at Milepost 0.00. The scope of work includes installation of a new 500-foot deep well anode and rectifier system, trenching for anode wires and conduits, completion of associated aboveground work, and connection of structure wiring. This work mitigates corrosion-related risk by restoring effective cathodic protection, supports regulatory compliance, and supports long-term safe and reliable operation of the pipeline. Other Example Projects: L3000 MP 37.60 New Cathodic Protection System, L3000 MP 1.95 Deep Well Anode Redrill, L-7000 MP 14.75 Deep Well Anode & Rectifier	

Beginning of Workpaper Group
003080 - GT Measurement & Regulation Stations

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	6,166	5,643	2,829	4,601	3,047	673	4,082	6,366	7,562	7,561	7,559
Non-Labor	Zero-Based	93,242	63,241	32,271	51,261	18,044	4,888	29,917	46,868	55,748	55,748	55,748
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		99,408	68,884	35,101	55,861	21,092	5,561	33,999	53,234	63,310	63,309	63,307
FTE	Zero-Based	36.0	38.2	21.5	31.4	23.9	5.2	23.9	31.8	35.9	36.0	36.1
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

GT Measurement and Regulation Station projects support the safe and reliable operation of the transmission system by installing , reconstructing, and modernizing measurement and pressure-limiting stations. These facilities regulate gas flow, control pipeline pressures, support regulatory compliance, and accommodate evolving system and customer demands. Asset replacements are driven primarily by aging infrastructure, changes in use patterns and population encroachment, and the need to enhance the transmission system to address gas quality and capacity requirements. This capital investment sustains the reliable operation of critical transmission assets.

Physical Description:

Forecasted expenditures include instrumentation necessary for the metering and regulation of natural gas in support of transmission operations. This includes advanced metering equipment to monitor gas flow and quality, as well as remote monitoring devices that provide real-time operational data. The forecast for this category encompasses costs related to the addition or replacement of station piping, valves, regulators, shelters and enclosures, PLC upgrades, instrumentation and communication modules, SCADA interfaces, power supply systems, and gas quality monitoring equipment. Projects also include the installation and replacement of critical valves at large pressure regulating stations to comply with federal class

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

location requirements. In addition, the forecast includes local projects to replace or upgrade customer metering sites and large pressure regulating equipment due to age and obsolescence.

Project Justification:

Periodic replacement and upgrades are necessary due to aging equipment, population encroachment, and evolving operational requirements. These projects enable accurate measurement, safe pressure control, and compliance with maximum allowable operating pressure standards. They also support system integrity and long-term reliability.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GT M&R is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this long planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented measurement and regulation asset conditions and applicable regulatory requirements. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GT M&R is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this long planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented measurement and regulation asset conditions and applicable regulatory requirements.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	649	3,971	6,221	7,400	7,400	7,400	24	111	145	162	161	159	673	4,082	6,366	7,562	7,561	7,559
NLbr	4,888	29,917	46,868	55,748	55,748	55,748	0	0	0	0	0	0	4,888	29,917	46,868	55,748	55,748	55,748
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5,537	33,888	53,089	63,148	63,148	63,148	24	111	145	162	161	159	5,561	33,999	53,234	63,310	63,309	63,307
FTE	5.2	23.9	31.8	35.9	36.0	36.1	0.0	0.0	0.0	0.0	0.0	0.0	5.2	23.9	31.8	35.9	36.0	36.1
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	24	0	0	24	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	24	0	0	24	0.0	0
2027	111	0	0	111	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	111	0	0	111	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	145	0	0	145	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	145	0	0	145	0.0	0
2029	162	0	0	162	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	162	0	0	162	0.0	0
2030	161	0	0	161	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	161	0	0	161	0.0	0
2031	159	0	0	159	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	159	0	0	159	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	3,689	3,952	2,311	3,798	2,590
Non-Labor	65,633	51,756	30,551	49,103	18,044
NSE	0	0	0	0	0
Total	69,322	55,708	32,863	52,900	20,634
FTE	30.3	32.3	18.4	26.7	20.1
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	3,689	3,952	2,311	3,798	2,590
Non-Labor	65,633	51,756	30,551	49,103	18,044
NSE	0	0	0	0	0
Total	69,322	55,708	32,863	52,900	20,634
FTE	30.3	32.3	18.4	26.7	20.1
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	651	667	367	610	458

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	651	667	367	610	458
FTE	5.7	5.9	3.1	4.7	3.8
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	1,826	1,025	151	194	0
Non-Labor	27,609	11,485	1,720	2,158	0
NSE	0	0	0	0	0
Total	29,435	12,509	1,871	2,352	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	6,166	5,643	2,829	4,601	3,047
Non-Labor	93,242	63,241	32,271	51,261	18,044
NSE	0	0	0	0	0
Total	99,408	68,884	35,101	55,861	21,092
FTE	36.0	38.2	21.5	31.4	23.9
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	3,357
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	3,357
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	3,357
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003080**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00308.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003080 - GT Measurement & Regulation Stations
Workpaper Detail: 003080.001 - GT Measurement & Regulation Stations
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Measurement & Regulation Stations

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	673	4,082	6,366	7,562	7,561	7,559
Non-Labor	4,888	29,917	46,868	55,748	55,748	55,748
NSE	0	0	0	0	0	0
Total	5,561	33,999	53,234	63,310	63,309	63,307
FTE	5.2	23.9	31.8	35.9	36.0	36.1
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003080

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #: 003080	Workpaper: GT Measurement & Regulation Station
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Description	SCG - 003080 - GT Measurement & Regulation Station						
Forecast Method	Forecast						
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	673	4,082	6,366	7,562	7,561	7,559
NLbr	Zero-Based	4,888	29,917	46,868	55,748	55,748	55,748
NSE	Zero-Based	-	-	-	-	-	-
Total:		5,561	33,999	53,234	63,310	63,309	63,307

FTEs	Zero-Based	5.2	23.9	31.8	35.9	36.0	36.1
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

003080 - GT Measurement & Regulation Station	
Description: More than 60 projects have been identified within this cost category for the 2026-2029 period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented measurement and regulation asset conditions and applicable regulatory requirements.	
Background: The forecast is primarily driven by regulatory compliance, system integrity, and safety requirements, including the need to meet PHMSA/CPUC standards, replace aging or obsolete infrastructure, and address corrosion, leaks, and end-of-life equipment. They also support operational reliability through upgrades to measurement systems, pressure-limiting stations, scrubbers, SCADA/communication systems, and station components that support accurate metering and stable system pressures.	
Projects described below are representative of activities within this workpaper. <u>Fontana Station / Line-4000 scrubber</u> - The project is driven by safety and operational concerns related to abnormal mechanical noise and pressure control risks associated with the Line 4000 scrubber. The scope of work includes opening and servicing the scrubber to troubleshoot and correct the source of a clanking sound occurring during operation, as well as installing an over pressure control on the scrubber bypass valve (#4002 76.62 13). Completion of this work will mitigate the risk of scrubber damage or failure, improve pressure control and operating reliability, and support continued safe operation of the pipeline system. <u>Moreno Large L2000 Downstream Flow Meter Replacement Project</u> - The project is required to address an operability and reliability risk caused by an obsolete ultrasonic meter currently installed in a vault, which is no longer supported and requires replacement. The primary driver is the need to maintain accurate flow measurement used by Gas Control to calculate system throughput. The scope of work includes evaluating whether the existing vault can accommodate a replacement clamp on ultrasonic meter or if a new vault is required, followed by replacement of the obsolete meter. This work will support continued accurate flow measurement, support system monitoring and operational decision making, and reduce the risk of data loss or equipment failure due to outdated instrumentation. <u>GNN1402 - MSA (RTU72) Upgrade</u> - The project is driven by aging and obsolete meter set assembly (MSA) equipment installed in 1989, including piping, block valves, and pressure regulators that are no longer supported with spare parts and limit the Cogen customer's feed gas flow due to pressure control constraints. The scope of work includes a two phase upgrade to the MSA, gas chromatograph (GC), and remote terminal unit (RTU) infrastructure, starting with preliminary engineering, followed by demolition of existing MSA, RTU, and GC facilities; installation of new aboveground piping, supports, valves, filtration, a turbine flow meter with bypass; and construction of new climate controlled RTU and GC sheds with modern flow measurement and control equipment. Completion of this project will restore maintainability, remove flow restrictions, improve measurement accuracy and remote monitoring, and support reliable operations while allowing the customer to receive full line pressure and maximize throughput. Other Example Projects: <i>Yorba Station SCADA Cabinet Upgrade, Toprock/Kramer Junction Intertie Over Pressure Protection, SCADA Upgrade, Hellman Properties LLC</i>	

Beginning of Workpaper Group
003090 - GT Security and Auxiliary Equipment

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	925	636	655	631	512	1,369	1,951	2,145	2,278	2,278	2,277
Non-Labor	Zero-Based	10,507	5,822	4,112	5,227	1,764	9,944	14,296	15,788	16,788	16,788	16,788
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		11,432	6,457	4,767	5,858	2,276	11,313	16,247	17,933	19,066	19,066	19,065
FTE	Zero-Based	8.1	5.2	6.0	4.9	4.3	10.6	11.4	10.7	10.8	10.9	10.9
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

This category includes capital expenditures that support essential investments to protect critical gas transmission facilities, mitigate safety and operational risks, and support reliable system operations. Funding addresses required physical security enhancements, auxiliary facility upgrades, and geohazard mitigation necessary to safeguard key assets, maintain system integrity, and support the safe and reliable delivery of natural gas.

Physical Description:

This work category includes the installation, replacement, and modernization of physical security systems and auxiliary equipment at gas transmission facilities. Typical activities include constructing protective shelters and enclosures ; installing or upgrading fencing, access-control systems, and surveillance cameras; deploying motion-detection and monitoring equipment; and upgrading auxiliary infrastructure such as cooling, water, air, pumping, and structural support systems, as well as geohazard and erosion mitigation features.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

These projects are required to protect critical gas transmission facilities, reduce safety and operational risks, and maintain reliable system operations. Investments address evolving security threats, aging and obsolete equipment, auxiliary system reliability needs, and geohazard risks, supporting continued protection of assets, compliance with internal and industry standards, and safe operation of the transmission system.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GT Security and Auxiliary Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. The forecasted increase comparative to a 5- yr average in GT Security and Auxiliary Equipment capital expenditure is driven by the identification and scheduling of a significantly larger number of defined , high-cost projects in the current planning cycle compared to historical periods. Prior-year spending reflects limited and uneven activity, as many security upgrades, auxiliary system replacements, geohazard mitigations, and structural repairs were under evaluation, or not yet formally scoped. In contrast, the current forecast captures a concentration of known projects addressing physical security vulnerabilities at critical transmission facilities, replacement of aging auxiliary equipment essential to system reliability, and site-specific civil and structural risks identified through updated assessments. These activities are capital-intensive and episodic rather than recurring, making historical spending levels a poor indicator of future needs. As a result, the forecast represents a step-change driven by project timing and maturity, not a fundamental increase in baseline spending, and reflects a more complete alignment of forecasted costs with identified asset condition, security, and risk mitigation requirements. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with known projects and current equipment conditions. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GT Security and Auxiliary Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. The forecasted increase comparative to a 5- yr average in GT Security and Auxiliary Equipment capital expenditure is driven by the identification and scheduling of a significantly larger number of defined , high-cost projects in the current planning cycle compared to historical periods. Prior-year spending reflects limited and uneven activity, as many security upgrades, auxiliary system replacements, geohazard mitigations, and structural repairs were under evaluation, or not yet formally scoped. In contrast, the current forecast captures a concentration of known projects addressing physical security vulnerabilities at critical transmission facilities, replacement of aging auxiliary equipment essential to system reliability, and site-specific civil and structural risks identified through updated assessments. These activities are capital-intensive and episodic rather than recurring, making historical spending levels a poor indicator of future needs. As a result, the forecast represents a step-change driven by project timing and maturity, not a fundamental increase in baseline spending, and reflects a more complete alignment of forecasted costs with identified asset condition, security, and risk mitigation requirements.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with known projects and current equipment conditions.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,320	1,898	2,096	2,229	2,229	2,229	49	53	49	49	49	48	1,369	1,951	2,145	2,278	2,278	2,277
NLbr	9,944	14,296	15,788	16,788	16,788	16,788	0	0	0	0	0	0	9,944	14,296	15,788	16,788	16,788	16,788
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	11,264	16,194	17,884	19,017	19,017	19,017	49	53	49	49	49	48	11,313	16,247	17,933	19,066	19,066	19,065
FTE	10.6	11.4	10.7	10.8	10.9	10.9	0.0	0.0	0.0	0.0	0.0	0.0	10.6	11.4	10.7	10.8	10.9	10.9
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	49	0	0	49	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	49	0	0	49	0.0	0
2027	53	0	0	53	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	53	0	0	53	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	49	0	0	49	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	49	0	0	49	0.0	0
2029	49	0	0	49	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	49	0	0	49	0.0	0
2030	49	0	0	49	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	49	0	0	49	0.0	0
2031	48	0	0	48	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	48	0	0	48	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	661	463	535	521	435
Non-Labor	10,025	4,949	4,082	5,010	1,766
NSE	0	0	0	0	0
Total	10,686	5,412	4,618	5,531	2,201
FTE	5.8	4.6	5.1	4.2	3.6
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-107	-18	0	0	0
Non-Labor	-2,630	-184	-190	-3	-2
NSE	0	0	0	0	0
Total	-2,737	-202	-190	-3	-2
FTE	1.0	-0.2	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	554	445	535	521	435
Non-Labor	7,396	4,764	3,893	5,007	1,764
NSE	0	0	0	0	0
Total	7,949	5,209	4,428	5,528	2,199
FTE	6.8	4.4	5.1	4.2	3.6
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	98	75	85	84	77

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	98	75	85	84	77
FTE	1.3	0.8	0.9	0.7	0.7
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	274	115	35	27	0
Non-Labor	3,111	1,057	219	220	0
NSE	0	0	0	0	0
Total	3,385	1,173	254	247	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	925	636	655	631	512
Non-Labor	10,507	5,822	4,112	5,227	1,764
NSE	0	0	0	0	0
Total	11,432	6,457	4,767	5,858	2,276
FTE	8.1	5.2	6.0	4.9	4.3
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-107	-18	0	0	0
Non-Labor	-2,630	-184	-190	-3	-2
NSE	0	0	0	0	0
Total	-2,737	-202	-190	-3	-2
FTE	1.0	-0.2	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	-107	-2,630	0	-2,737	1.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	-107	-2,630	0	-2,737	1.0	3,357
2022	-18	-184	0	-202	-0.2	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	-18	-184	0	-202	-0.2	3,357
2023	-0.407	-190	0	-190	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2023	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2023 Total	-0.407	-190	0	-190	0.0	3,357
2024	0	-3	0	-3	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2024	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2024 Total	0	-3	0	-3	0.0	3,357
2025	0	-2	0	-2	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2025	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2025 Total	0	-2	0	-2	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003090**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00309.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003090 - GT Security and Auxiliary Equipment
Workpaper Detail: 003090.001 - GT Security & Auxiliary Equipment
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Security & Auxiliary Equipment

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,369	1,951	2,145	2,278	2,278	2,277
Non-Labor	9,944	14,296	15,788	16,788	16,788	16,788
NSE	0	0	0	0	0	0
Total	11,313	16,247	17,933	19,066	19,066	19,065
FTE	10.6	11.4	10.7	10.8	10.9	10.9
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003090

Southern California Gas Company

2028 GRC - REVISED

Capital Workpapers

WP #: 003090	Workpaper: GT Security & Auxiliary Equipment
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Description	SCG - 003090 - GT Security & Auxiliary Equipment						
Forecast Method	Forecast						
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	1,369	1,951	2,145	2,278	2,278	2,277
NLbr	Zero-Based	9,944	14,296	15,788	16,788	16,788	16,788
NSE	Zero-Based	-	-	-	-	-	-
Total:		11,313	16,247	17,933	19,066	19,066	19,065

FTEs	Zero-Based	10.6	11.4	10.7	10.8	10.9	10.9
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

003090 - GT Security & Auxiliary Equipment							
Description: More than 60 projects have been identified within this cost category for the 2026-2029 period. For 2030 and 2031, specific projects are included where a defined need has been identified; however, given that many future activities remain undefined over this longer planning horizon, forecasted expenditures for those years are aligned to the 2029 forecast level. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with known projects and current equipment conditions.							
Background: The forecast is primarily driven by enhanced security upgrades at major stations and critical sites, improvements to right-of-way access and earthwork to maintain safe operational corridors, and structural work to address spans, bridges, and erosion risks. In addition, targeted upgrades to auxiliary systems—such as cooling, air, and other support equipment—help sustain reliability across key facilities. Together, these efforts strengthen system integrity, safety, and long-term operability.							
Projects described below are representative of activities within this workpaper.							
<u>Victorville Valve Sites Security</u> - The project is driven by recurring theft and vandalism at three main line valve (MLV) sites in Victorville that have compromised the operability and reliability of critical valve equipment. The scope of work includes deploying a standardized security and power solution at each site, consisting of Qnergy electrical generators and integrated security systems with cameras, infrared capability, and audio deterrence, all connected to the SoCalGas Corporate Security Operations Center. These upgrades will mitigate the risk of equipment damage and service disruptions, improve real time monitoring and response, and restore reliable, secure operation of the MLV sites. <u>L-8105 MP 20.74 Span Support Repairs</u> - The project is driven by identified integrity risks on four pipeline spans along Line 8105 where existing supports are not in contact with the pipe, creating potential for future deformation or deflection due to earth movement. The scope of work focuses on investigating the affected spans at Mileposts 20.74, 21.31, 22.40, and 24.17 through environmental and land coordination, surveys, geotechnical evaluations, and engineering and design to determine the most appropriate remediation approach, including necessary permitting and biological considerations. The benefit of this effort is the development of safe, compliant, and constructible remediation solutions that reduce long term integrity risk and position the project for effective future construction to support pipeline stability and reliable operation. <u>Right Of Way L-4000 Grading HWY 138 to MLV 15</u> - The project is required to address significant erosion that has closed the forestry right of way on Line 4000 between Highway 138 and Main Line Valve 15, limiting safe access and creating integrity and reliability concerns. The scope of work includes grading and restoration of the affected right of way to stabilize eroded areas and re-establish safe, reliable access along the pipeline corridor. Completion of this work will mitigate erosion related risks, restore access for operations and maintenance, and support the continued safe and reliable operation of the pipeline system. Other Example Projects: <i>MLV16 L235 Security Upgrade, AC Power Installation at MLV 11B Date Palm</i>							

**Beginning of Workpaper Group
003500 - GT Technology & Software**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	11	2,011	3,671	2,687	2,065	1,284	1,379	891	542	421	444
Non-Labor	Zero-Based	122	10,461	22,272	8,157	9,898	4,086	4,150	1,980	2,000	2,000	3,280
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		133	12,472	25,943	10,844	11,963	5,370	5,529	2,871	2,542	2,421	3,724
FTE	Zero-Based	0.1	13.8	27.7	20.0	15.3	10.0	8.1	4.5	2.6	2.0	2.1
Units	Zero-Based	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

The Gas Transmission Technology & Software element consists of enhancing various Operational Technology (OT) and Information Technology (IT) systems within the Gas Control and the broader Gas Transmission (GT) organization. The investments also establish new enterprise-level capabilities that improve field asset data collection, increase real-time visibility into system conditions, and enhance the presentation of operational information to the control room.

Physical Description:

OT enhancement initiatives include developing Message Queuing Telemetry Transport (MQTT) infrastructure used to enable reliable delivery of data to Gas Control, and a SCADA system upgrade. IT enhancement initiatives include enhancing Transmission's MAXIMO application, which is an asset management and industrial operations data management platform; enhancing various control room applications such as Gas Control's Electronic Logging System and Outage Management platforms; developing advanced analytical/predictive models of gas consumption and outage detection; carrying out a data cloud migration; implementing enterprise data governance improvements; and modernizing audiovisual systems within the control room environment to support decision-making and situational awareness.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Project Justification:

GT technology and software improvements are necessary to support future operational capabilities , strengthen cybersecurity, and enable the continued integration of advanced data and monitoring tools. These projects are also necessary to meet TSA and industry security standards for critical infrastructure, and Control Room Management regulations defined in PHMSA Rule 49 CFR 192.631 (c) and (f).

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - Zero-Based

The forecast methodology developed for GT Technology and Software is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach is appropriate because forecasted expenditures are developed from a baseline of current assumptions that best reflect known operating conditions, system configurations, and regulatory requirements, rather than relying on historical averages. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast methodology developed for GT Technology and Software is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach is appropriate because forecasted expenditures are developed from a baseline of current assumptions that best reflect known operating conditions, system configurations, and regulatory requirements, rather than relying on historical averages.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Due to the diversity of projects captured under GT Technology and Software that include the replacement and addition of new software and hardware applications, it is not feasible to reliably track the units of each upgrade completed historically or the number anticipated in future periods. Accordingly, miles of pipeline within the service territory was selected as the unit of measure to provide a consistent basis for reporting.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,238	1,341	871	530	412	435	46	38	20	12	9	9	1,284	1,379	891	542	421	444
NLbr	4,086	4,150	1,980	2,000	2,000	3,280	0	0	0	0	0	0	4,086	4,150	1,980	2,000	2,000	3,280
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	5,324	5,491	2,851	2,530	2,412	3,715	46	38	20	12	9	9	5,370	5,529	2,871	2,542	2,421	3,724
FTE	10.0	8.1	4.5	2.6	2.0	2.1	0.0	0.0	0.0	0.0	0.0	0.0	10.0	8.1	4.5	2.6	2.0	2.1
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	0	0	0	0	0.0	0
Explanation:						
2026	0	0	0	0	0.0	0
Explanation:						
2026	46	0	0	46	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	46	0	0	46	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2027	0	0	0	0	0.0	0
Explanation:						
2027	0	0	0	0	0.0	0
Explanation:						
2027	38	0	0	38	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2027 Total	38	0	0	38	0.0	0
2028	0	0	0	0	0.0	0
Explanation:						
2028	0	0	0	0	0.0	0
Explanation:						
2028	20	0	0	20	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	20	0	0	20	0.0	0
2029	0	0	0	0	0.0	0
Explanation:						
2029	0	0	0	0	0.0	0
Explanation:						

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2029	12	0	0	12	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	12	0	0	12	0.0	0
2030	0	0	0	0	0.0	0
Explanation:						
2030	0	0	0	0	0.0	0
Explanation:						
2030	9	0	0	9	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	9	0	0	9	0.0	0
2031	0	0	0	0	0.0	0
Explanation:						
2031	0	0	0	0	0.0	0
Explanation:						
2031	9	0	0	9	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	9	0	0	9	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	7	1,408	2,999	2,218	1,902
Non-Labor	86	8,562	19,389	9,509	14,915
NSE	0	0	0	0	0
Total	92	9,970	22,388	11,727	16,817
FTE	0.1	11.7	23.7	17.0	13.9
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	-147
Non-Labor	0	0	1,696	-1,696	-5,017
NSE	0	0	0	0	0
Total	0	0	1,696	-1,696	-5,164
FTE	0.0	0.0	0.0	0.0	-1.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	7	1,408	2,999	2,218	1,755
Non-Labor	86	8,562	21,085	7,814	9,898
NSE	0	0	0	0	0
Total	92	9,970	24,084	10,031	11,653
FTE	0.1	11.7	23.7	17.0	12.9
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	1	238	476	356	310

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	1	238	476	356	310
FTE	0.0	2.1	4.0	3.0	2.4
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	3	365	196	113	0
Non-Labor	36	1,900	1,187	343	0
NSE	0	0	0	0	0
Total	39	2,265	1,383	457	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	11	2,011	3,671	2,687	2,065
Non-Labor	122	10,461	22,272	8,157	9,898
NSE	0	0	0	0	0
Total	133	12,472	25,943	10,844	11,963
FTE	0.1	13.8	27.7	20.0	15.3
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	0	0	0	0	-147
Non-Labor	0	0	1,696	-1,696	-5,017
NSE	0	0	0	0	0
Total	0	0	1,696	-1,696	-5,164
FTE	0.0	0.0	0.0	0.0	-1.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	3,357
2022	0	0	0	0	0.0	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	3,357
2023	0	1,696	0	1,696	0.0	0
Explanation: WOA 2200/89180 COLLIBRA SCG GI - WAVE 1 transfered to EN07560.000						
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	0	1,696	0	1,696	0.0	3,357
2024	0	-1,696	0	-1,696	0.0	0
Explanation: WOA 2200/89180 COLLIBRA SCG GI - WAVE 1 transfered to EN07560.000						
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	0	-1,696	0	-1,696	0.0	3,357
2025	-147	-5,252	0	-5,399	-1.0	0
Explanation: SA COPPERLEAF SAAS LICENSE PARENT '2200/72511 & '2200/72512 'SA ASSET INVESTMENT MGMT R4 PH2 transfer to EN7650						

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2025	0	235	0	235	0.0	0
Explanation: WOA 89376 MAXIMO Enhancement						
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	-147	-5,017	0	-5,164	-1.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 003500**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00350.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 003500 - GT Technology & Software
Workpaper Detail: 003500.001 - GT Software
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Software

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,284	1,379	891	542	421	444
Non-Labor	4,086	4,150	1,980	2,000	2,000	3,280
NSE	0	0	0	0	0	0
Total	5,370	5,529	2,871	2,542	2,421	3,724
FTE	10.0	8.1	4.5	2.6	2.0	2.1
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 003500

Southern California Gas Company

2028 GRC - REVISED

Capital Workpapers

WP #: 003500

Workpaper:

GT Technology & Software

Description SCG - 003500 - GT Technology & Software

Forecast Method		Forecast					
Work Paper Title	Forecast Methodology	Year 2026	Year 2027	Year 2028	Year 2029	Year 2030	Year 2031
Labor	Zero-Based	1,284	1,379	891	542	421	444
NLbr	Zero-Based	4,086	4,150	1,980	2,000	2,000	3,280
NSE	Zero-Based	-	-	-	-	-	-
Total:		5,370	5,529	2,871	2,542	2,421	3,724
FTEs	Zero-Based	10.0	8.1	4.5	2.6	2.0	2.1
Units	Miles of Pipe	3,357	3,357	3,357	3,357	3,357	3,357

The tables below presents the GT Technology & Software capital forecast for the Transmission, SCADA, and Gas Control organizations. In total, there are 11 projects identified for the 2026-2031 period.

Table 1: Sub Forecast for: WP 003500 - GT Technology & Software - MAXIMO Upgrade

MAXIMO is an enterprise asset management and industrial operations data platform. Planned upgrades include automating aerial leak survey data processing, automating work order creation in Aveva, and configuring MAXIMO to serve as the system of record for OT assets across the transmission system. These enhancements are necessary to improve data accuracy, improve asset traceability, and enhance regulatory reporting.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 283	\$ 872	2.2	\$ 1,155

Table 2: Sub Forecast for: WP 003500 - GT Technology & Software - SCADA Upgrade

SCADA is a supervisory control and data acquisition computer-based system used by a controller in a control room that collects and displays information about a pipeline facility and has the ability to send commands back to the pipeline facility. The project includes: hardware upgrades to servers, workstations, backup solutions, and the Storage Area Network (SAN); license renewal; and, enhancements to multi-factor authentication systems for secure SCADA access. These enhancements are necessary to maintain a secure operating environment, preserve system functionality, and prevent technical obsolescence.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 146	\$ 1,780	3.6	\$ 1,926
2027	\$ 290	\$ 2,740	4.4	\$ 3,030
2028	\$ 289	\$ 880	1.8	\$ 1,169
2029	\$ 0	\$ 0	0.0	\$ 0
2030	\$ 0	\$ 0	0.0	\$ 0
2031	\$ 144	\$ 1,780	1.1	\$ 1,924

Table 3: Sub Forecast for: WP 003500 - GT Technology & Software - MQTT Infrastructure

Message Queuing Telemetry Transport (MQTT) communication infrastructure provides secure and reliable transmission of field data to SCADA. This project is to develop and deploy this communication infrastructure for High-Consequence Area (HCA) methane sensors and Electronic Pressure Monitors (EPM). This is necessary to support real-time information availability and accurate system visualization that strengthens situational awareness and maintains secure, resilient system operations.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 83	0.4	\$ 205

Table 4: Sub Forecast for: WP 003500 - GT Technology & Software - MaCRoM Update

MaCRoM is Gas Control's Electronic Logging System (ELS) used to document and record system operations including dispatch orders, response to abnormal operating conditions, and change management. Enhancements include developing controller workload analysis and shift scheduling modules and continuing the customization of existing modules based on operator need. These enhancements are necessary to maintain operational efficiency and stay compliant with control room management regulatory requirements.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 641	1.4	\$ 763
2027	\$ 121	\$ 250	0.5	\$ 371
2028	\$ 0	\$ 0	0.0	\$ 0
2029	\$ 120	\$ 500	0.6	\$ 620
2030	\$ 120	\$ 500	0.5	\$ 620

Southern California Gas Company

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Capital Workpapers

Table 5: Sub Forecast for: WP 003500 - GT Technology & Software - SCADA Data Intake Form

This is a change management application used to provide the SCADA department with information needed to create new SCADA point tags, and generate point tag names based on a standardized naming convention. This project includes updates and enhancements to the platform to support bulk data uploads and provide communication upgrades.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 200	0.6	\$ 322
2027	\$ 121	\$ 300	0.6	\$ 421

Table 6: Sub Forecast for: WP 003500 - GT Technology & Software - ATLAS Enhancements

The Activity Tracking Log for All Systems (ATLAS) is a change management application used by the Gas Control and Gas Transmission Planning departments to coordinate planned pipeline system outages. The project includes migrating this system from a Microsoft PowerApps platform to a cloud-based platform.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 75	0.4	\$ 197
2027	\$ 242	\$ 250	0.7	\$ 492
2028	\$ 60	\$ 0	0.1	\$ 60

Table 7: Sub Forecast for: WP 003500 - GT Technology & Software - GCRP Enhancements

The Gas Control Request Portal (GCRP) is a change management application used by Gas Control to assure that changes that could affect control room operations are coordinated with and approved by the Gas Control department. The project includes migrating this system from a Microsoft PowerApps platform to a cloud-based platform.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 75	0.4	\$ 197
2027	\$ 242	\$ 250	0.7	\$ 492
2028	\$ 60	\$ 0	0.1	\$ 60

Table 8: Sub Forecast for: WP 003500 - GT Technology & Software - Customer Outage Model

The Customer Outage Model is an analytical model developed for emergency personnel to identify and predict customer outages based on impacts to facilities. Such enhancements strengthen situational awareness and help support operational decision-making to maintain operational continuity.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 180	0.6	\$ 302
2027	\$ 121	\$ 180	0.4	\$ 301

Table 9: Sub Forecast for: WP 003500 - GT Technology & Software - Gas Consumption Analytical Model

The Gas Consumption Analytical Model is a next-generation advanced analytical/predictive modeling tool allowing for on-demand forecast predictions based on user inputs to model parameters, which will help control room operators forecast gas consumption patterns and conduct ad-hoc analyses of gas consumption trends.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 122	\$ 180	0.6	\$ 302
2027	\$ 121	\$ 180	0.4	\$ 301
2028	\$ 241	\$ 100	0.5	\$ 341

Table 10: Sub Forecast for: WP 003500 - GT Technology & Software - Data Governance Refresh

Data Governance defines clear standards, accountability measures, and ownership roles for all data assets with Gas Control, promoting responsibility and traceability. It also defines processes to assure data accuracy and validity. Gas Control's Data Governance system uses a Microsoft PowerApps platform. The project includes migrating this system to a cloud-based platform.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 0	\$ 0	0.0	\$ 0
2027	\$ 121	\$ 0	0.2	\$ 121
2028	\$ 241	\$ 1,000	1.9	\$ 1,241
2029	\$ 241	\$ 1,000	1.3	\$ 1,241

Table 11: Sub Forecast for: WP 003500 - GT Technology & Software - AV System Modernization

The Audio-Visual (AV) System is an integrated network of hardware and software in the Gas Control Room and SCADA Pipeline Simulator used by operators to display and share operational information on a video wall. The project includes hardware and software upgrades to the audio-visual system. Such enhancements support the continued integration of advanced data and monitoring tools into the control room that strengthen situational awareness and help support operational decision-making.

Year	Forecast Labor	Forecast Non-Labor	Forecast FTE	Total Labor and Non-Labor
2026	\$ 0	\$ 0	0.0	\$ 0
2027	\$ 0	\$ 0	0.0	\$ 0
2028	\$ 0	\$ 0	0.0	\$ 0
2029	\$ 181	\$ 500	0.7	\$ 681
2030	\$ 301	\$ 1,500	1.5	\$ 1,801
2031	\$ 300	\$ 1,500	1.0	\$ 1,800

Beginning of Workpaper Group
006030 - GT Buildings & Improvements

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	32	76	61	77	8	53	52	52	52	52	52
Non-Labor	5-YR Average	3,127	2,094	613	362	56	1,251	1,251	1,251	1,251	1,251	1,251
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		3,160	2,170	675	439	64	1,304	1,303	1,303	1,303	1,303	1,303
FTE	5-YR Average	0.3	0.6	0.5	0.6	0.1	0.4	0.4	0.4	0.4	0.4	0.4
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

GT Buildings and Improvements provides funding for construction, replacement or upgrades to structures used by GasTransmission to contain, shelter and/or protect Transmission equipment. Such protection is necessary to protect equipment that are often located in remote locations and to comply with Federal or local laws.

Physical Description:

GT Buildings and Improvements provides funding to construct, upgrade, and maintain structures that house, shelter, and protect transmission equipment, including meter stations, pressure-regulating equipment, critical valves, and control systems.

Project Justification:

This work is justified by the need to construct, replace, and upgrade buildings and protective structures that house critical gas transmission equipment. These facilities protect high-value assets from environmental exposure, vandalism, and physical damage, support reliable system

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

operations, and address site-specific construction, safety, and compliance requirements.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast method developed for GT Pipeline Buildings and Improvements uses a five-year average based on historical data from 2021 through 2025. Activities within this cost category are primarily driven by the need to replace and upgrade structures that house and protect critical GT equipment, resulting in year-to-year variability. This approach is most appropriate because it captures historical spending patterns while accounting for fluctuations in project timing and scope. Base year and zero-based methodologies are not suitable, given the variety of projects included in this work category. Accordingly, the five-year average provides the most representative basis for forecasting expected costs. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.

Non-Labor - 5-YR Average

The forecast method developed for GT Pipeline Buildings and Improvements uses a five-year average based on historical data from 2021 through 2025. Activities within this cost category are primarily driven by the need to replace and upgrade structures that house and protect critical GT equipment, resulting in year-to-year variability. This approach is most appropriate because it captures historical spending patterns while accounting for fluctuations in project timing and scope. Base year and zero-based methodologies are not suitable, given the variety of projects included in this work category. Accordingly, the five-year average provides the most representative basis for forecasting expected costs.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	51	51	51	51	51	51	2	1	1	1	1	1	53	52	52	52	52	52
NLbr	1,251	1,251	1,251	1,251	1,251	1,251	0	0	0	0	0	0	1,251	1,251	1,251	1,251	1,251	1,251
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,302	1,302	1,302	1,302	1,302	1,302	2	1	1	1	1	1	1,304	1,303	1,303	1,303	1,303	1,303
FTE	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	2	0	0	2	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	2	0	0	2	0.0	0
2027	1	0	0	1	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	1	0	0	1	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028	1	0	0	1	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	1	0	0	1	0.0	0
2029	1	0	0	1	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	1	0	0	1	0.0	0
2030	1	0	0	1	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	1	0	0	1	0.0	0
2031	1	0	0	1	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	1	0	0	1	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	33	69	73	96	10
Non-Labor	2,448	1,757	966	810	98
NSE	0	0	0	0	0
Total	2,481	1,826	1,038	907	108
FTE	0.3	0.6	0.6	0.9	0.1
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-14	-15	-23	-33	-4
Non-Labor	-247	-44	-385	-463	-42
NSE	0	0	0	0	0
Total	-261	-59	-408	-496	-46
FTE	-0.1	-0.1	-0.2	-0.3	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	19	53	50	64	6
Non-Labor	2,201	1,714	581	347	56
NSE	0	0	0	0	0
Total	2,221	1,767	631	411	62
FTE	0.2	0.5	0.4	0.6	0.1
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	3	9	8	10	1

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	3	9	8	10	1
FTE	0.1	0.1	0.1	0.0	0.0
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	10	14	3	3	0
Non-Labor	926	380	33	15	0
NSE	0	0	0	0	0
Total	936	394	36	19	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	32	76	61	77	8
Non-Labor	3,127	2,094	613	362	56
NSE	0	0	0	0	0
Total	3,160	2,170	675	439	64
FTE	0.3	0.6	0.5	0.6	0.1
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-14	-15	-23	-33	-4
Non-Labor	-247	-44	-385	-463	-42
NSE	0	0	0	0	0
Total	-261	-59	-408	-496	-46
FTE	-0.1	-0.1	-0.2	-0.3	0.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	-14	-247	0	-261	-0.1	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2021	0	0	0	0	0.0	0
Explanation:	Unit Alignment					
2021	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	-14	-247	0	-261	-0.1	3,357
2022	-15	-44	0	-59	-0.1	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	-15	-44	0	-59	-0.1	3,357
2023	-23	-385	0	-408	-0.2	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2023	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2023 Total	-23	-385	0	-408	-0.2	3,357
2024	-33	-463	0	-496	-0.3	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2024	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2024 Total	-33	-463	0	-496	-0.3	3,357
2025	-4	-42	0	-46	0.0	0
Explanation:	Transfer facility security upgrade costs from Gas Transmission Storage to Facilities					
2025	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2025 Total	-4	-42	0	-46	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 006030**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00603.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 006030 - GT Buildings & Improvements
Workpaper Detail: 006030.001 - GT Buildings & Improvements
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Buildings & Improvements

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	53	52	52	52	52	52
Non-Labor	1,251	1,251	1,251	1,251	1,251	1,251
NSE	0	0	0	0	0	0
Total	1,304	1,303	1,303	1,303	1,303	1,303
FTE	0.4	0.4	0.4	0.4	0.4	0.4
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
007060 - GT Capital Tools**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	4	-9	0	0	1	0	0	0	0	0	0
Non-Labor	5-YR Average	-1,466	462	139	305	1,665	221	221	221	221	221	221
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		-1,463	453	139	305	1,666	221	221	221	221	221	221
FTE	5-YR Average	0.0	-0.2	-0.1	-0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

Requested funding in this category provides essential tools required to support the safe, reliable, and compliant operation of gas facilities. These investments enable routine maintenance, equipment repairs, integration of new assets, and replacement of worn or obsolete tools necessary to sustain operational integrity and system reliability.

Physical Description:

This work category includes the procurement and replacement of capitalized tools used at gas facilities to support maintenance, repair, and operational activities. Assets consist of specialized hand tools, power tools, diagnostic and measurement equipment, and advanced tools designed for use in harsh outdoor and industrial environments, including those required for compressor and equipment overhauls.

Project Justification:

These projects are justified by the need to replace worn and obsolete tools, support employee safety, maintain compliance, and support reliable gas

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

operations. Capital tool investments address harsh field conditions, enable efficient maintenance and repairs, and support the adoption of advanced technologies necessary to sustain operational readiness and system reliability.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast method developed for GT Capital Tools uses a five-year average based on historical data from 2021 through 2025. This approach is appropriate because capital tool requirements vary from year to year depending on condition-based replacements, and the introduction of new tools to support evolving field work. The historical 5-year spending pattern captures this variability and reflects the recurring, but non-uniform nature of capital tool needs.

Non-Labor - 5-YR Average

The forecast method developed for GT Capital Tools uses a five-year average based on historical data from 2021 through 2025. This approach is appropriate because capital tool requirements vary from year to year depending on condition-based replacements, and the introduction of new tools to support evolving field work. The historical 5-year spending pattern captures this variability and reflects the recurring, but non-uniform nature of capital tool needs.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	-1	-1	-1	-1	-1	-1	1	1	1	1	1	1	0	0	0	0	0	0
NLbr	221	221	221	221	221	221	0	0	0	0	0	0	221	221	221	221	221	221
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	220	220	220	220	220	220	1	1	1	1	1	1	221	221	221	221	221	221
FTE	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						
2026 Total	1	0	0	1	0.1	0
2027	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						
2027 Total	1	0	0	1	0.1	0
2028	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028 Total	1	0	0	1	0.1	0
2029	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						
2029 Total	1	0	0	1	0.1	0
2030	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						
2030 Total	1	0	0	1	0.1	0
2031	1	0	0	1	0.1	0
Explanation: No labor credit is anticipated in the forecast years.						
2031 Total	1	0	0	1	0.1	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	3	-6	0	1	1
Non-Labor	-926	478	259	358	3,003
NSE	0	0	0	0	0
Total	-923	472	259	359	3,004
FTE	0.1	-0.1	0.0	0.0	0.0
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-1	0	0	-1	0
Non-Labor	-106	-100	-127	-65	-1,339
NSE	0	0	0	0	0
Total	-107	-101	-127	-66	-1,339
FTE	-0.1	-0.1	-0.1	-0.1	0.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	2	-6	0	0	1
Non-Labor	-1,032	378	131	292	1,665
NSE	0	0	0	0	0
Total	-1,030	372	131	292	1,665
FTE	0.0	-0.2	-0.1	-0.1	0.0
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	0	-1	0	0	0

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	-1	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	1	-2	0	0	0
Non-Labor	-434	84	7	13	0
NSE	0	0	0	0	0
Total	-433	82	7	13	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	4	-9	0	0	1
Non-Labor	-1,466	462	139	305	1,665
NSE	0	0	0	0	0
Total	-1,463	453	139	305	1,666
FTE	0.0	-0.2	-0.1	-0.1	0.0
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-1	0	0	-1	0
Non-Labor	-106	-100	-127	-65	-1,339
NSE	0	0	0	0	0
Total	-107	-101	-127	-66	-1,339
FTE	-0.1	-0.1	-0.1	-0.1	0.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	-0.967	-106	0	-107	-0.1	0
Explanation: Aviation Services Transferred from WKP 350 to WKP 343.						
2021	0	0	0	0	0.0	0
Explanation: Unit Alignment						
2021	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	-0.967	-106	0	-107	-0.1	3,357
2022	-0.298	-100	0	-101	-0.1	0
Explanation:	Aviation Services Transferred from WKP 350 to WKP 343.					
2022	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2022 Total	-0.298	-100	0	-101	-0.1	3,357
2023	-0.101	-127	0	-127	-0.1	0
Explanation:	Aviation Services Transferred from WKP 350 to WKP 343.					
2023	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2023 Total	-0.101	-127	0	-127	-0.1	3,357
2024	-1	-65	0	-66	-0.1	0
Explanation:	Aviation Services Transferred from WKP 350 to WKP 343.					
2024	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
2024 Total	-1	-65	0	-66	-0.1	3,357
2025	0	-1,339	0	-1,339	0.0	0
Explanation:	Aviation Services Transferred from WKP 350 to WKP 343.					
2025	0	0	0	0	0.0	3,357
Explanation:	Unit Alignment					
2025 Total	0	-1,339	0	-1,339	0.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 007060**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00726.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: 007060 - GT Capital Tools
Workpaper Detail: 007060.001 - GT Capital Tools
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

GT Capital Tools

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	0	0	0	0	0	0
Non-Labor	221	221	221	221	221	221
NSE	0	0	0	0	0	0
Total	221	221	221	221	221	221
FTE	0.0	0.0	0.0	0.0	0.0	0.0
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
B03020 - GT Leak Repair**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	725	1,702	1,659	2,023	1,866	1,654	1,640	1,632	1,630	1,630	1,629
Non-Labor	5-YR Average	12,057	14,574	13,915	17,589	14,655	14,558	14,558	14,558	14,558	14,558	14,558
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		12,782	16,276	15,574	19,612	16,521	16,212	16,198	16,190	16,188	16,188	16,187
FTE	5-YR Average	4.2	9.6	11.2	12.6	11.9	9.9	9.9	9.9	9.9	9.9	9.9
Units	5-YR Average	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357	3,357

Business Purpose:

GT Leak Repair projects address conditions that cause leakage in the transmission system . These conditions often require immediate or near-term action to maintain compliance with state and federal safety regulations and to reduce the likelihood of transmission service interruptions.

Physical Description:

GT Leak repair activities involve the planning , installation, construction, and closeout processes necessary to remediate leaks on transmission pipelines and associated appurtenances.

Project Justification:

The forecasted capital expenditures for GT Leak Repair are required to support the safety and integrity of the transmission system by repairing leaks to meet regulatory obligations governed by CPUC GO 112-F.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Forecast Methodology:

Labor - 5-YR Average

The forecast methodology developed for GT Leak Repair uses a five-year average based on historical data from 2021 through 2025. Activities within this category are reactive in nature, as leak occurrences cannot be predicted in advance. Because the workload is driven by unplanned system conditions and regulatory requirements for timely repair, year-to-year activity levels naturally fluctuate. Accordingly, the five-year average provides the most representative basis for forecasting expected costs over the GRC period. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.

Non-Labor - 5-YR Average

The forecast methodology developed for GT Leak Repair uses a five-year average based on historical data from 2021 through 2025. Activities within this category are reactive in nature, as leak occurrences cannot be predicted in advance. Because the workload is driven by unplanned system conditions and regulatory requirements for timely repair, year-to-year activity levels naturally fluctuate. Accordingly, the five-year average provides the most representative basis for forecasting expected costs over the GRC period.

NSE - 5-YR Average

Not Applicable.

Units - 5-YR Average

Miles of pipeline.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,595	1,595	1,595	1,595	1,595	1,595	59	45	37	35	35	34	1,654	1,640	1,632	1,630	1,630	1,629
NLbr	14,558	14,558	14,558	14,558	14,558	14,558	0	0	0	0	0	0	14,558	14,558	14,558	14,558	14,558	14,558
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	16,153	16,153	16,153	16,153	16,153	16,153	59	45	37	35	35	34	16,212	16,198	16,190	16,188	16,188	16,187
FTE	9.9	9.9	9.9	9.9	9.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	9.9	9.9	9.9	9.9	9.9	9.9
Units	3,357	3,357	3,357	3,357	3,357	3,357	0	0	0	0	0	0	3,357	3,357	3,357	3,357	3,357	3,357

Forecast Adjustment Details:

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026	59	0	0	59	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2026 Total	59	0	0	59	0.0	0
2027	45	0	0	45	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2027 Total	45	0	0	45	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2028	37	0	0	37	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	37	0	0	37	0.0	0
2029	35	0	0	35	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	35	0	0	35	0.0	0
2030	35	0	0	35	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	35	0	0	35	0.0	0
2031	34	0	0	34	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	34	0	0	34	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	434	1,192	1,356	1,670	1,586
Non-Labor	8,487	11,928	13,173	16,848	14,655
NSE	0	0	0	0	0
Total	8,921	13,119	14,529	18,518	16,241
FTE	3.5	8.1	9.6	10.7	10.0
Units	3,357	3,357	3,357	3,357	3,357
Recorded-Adjusted (Nominal \$)					
Labor	434	1,192	1,356	1,670	1,586
Non-Labor	8,487	11,928	13,173	16,848	14,655
NSE	0	0	0	0	0
Total	8,921	13,119	14,529	18,518	16,241
FTE	3.5	8.1	9.6	10.7	10.0
Units	3,357	3,357	3,357	3,357	3,357
Vacation & Sick (Nominal \$)					
Labor	77	201	215	268	280

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	77	201	215	268	280
FTE	0.7	1.5	1.6	1.9	1.9
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	215	309	88	85	0
Non-Labor	3,570	2,647	742	740	0
NSE	0	0	0	0	0
Total	3,785	2,956	830	826	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	725	1,702	1,659	2,023	1,866
Non-Labor	12,057	14,574	13,915	17,589	14,655
NSE	0	0	0	0	0
Total	12,782	16,276	15,574	19,612	16,521
FTE	4.2	9.6	11.2	12.6	11.9
Units	3,357	3,357	3,357	3,357	3,357

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	434	1,192	1,356	1,670	1,586
Non-Labor	8,487	11,928	13,173	16,848	14,655
NSE	0	0	0	0	0
Total	8,921	13,119	14,529	18,518	16,241
FTE	3.5	8.1	9.6	10.7	10.0
Units	3,357	3,357	3,357	3,357	3,357

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	434	8,487	0	8,921	3.5	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2021	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2021 Total	434	8,487	0	8,921	3.5	3,357
2022	1,192	11,928	0	13,119	8.1	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: 302 Leak Repairs transferred to workpaper B302						
2022	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2022 Total	1,192	11,928	0	13,119	8.1	3,357
2023	1,356	13,173	0	14,529	9.6	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2023	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2023 Total	1,356	13,173	0	14,529	9.6	3,357
2024	1,670	16,848	0	18,518	10.7	0
Explanation: 302 Leak Repairs transferred to workpaper B302						
2024	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2024 Total	1,670	16,848	0	18,518	10.7	3,357
2025	1,586	14,655	0	16,241	10.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Unit Measure: Miles of Pipe

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: 302 Leak Repairs transferred to workpaper B302						
2025	0	0	0	0	0.0	3,357
Explanation: Unit Alignment						
2025 Total	1,586	14,655	0	16,241	10.0	3,357

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group B03020**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: B0302.0
Category: A. Transmission
Category-Sub: 1. Transmission
Workpaper Group: B03020 - GT Leak Repair
Workpaper Detail: B03020.001 - Leak Repair
Unit Measure: Miles of Pipe

In-Service Date: Not Applicable

Description:

Leak Repair

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,654	1,640	1,632	1,630	1,630	1,629
Non-Labor	14,558	14,558	14,558	14,558	14,558	14,558
NSE	0	0	0	0	0	0
Total	16,212	16,198	16,190	16,188	16,188	16,187
FTE	9.9	9.9	9.9	9.9	9.9	9.9
Units	3,357	3,357	3,357	3,357	3,357	3,357

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: C. Aboveground Storage
Workpaper: VARIOUS

Summary for Category: C. Aboveground Storage

	In 2025\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
Labor	6,748	7,164	6,917	7,754	8,034	8,346	8,708
Non-Labor	78,691	103,261	98,905	134,203	148,017	162,898	180,292
NSE	0	0	0	0	0	0	0
Total	85,439	110,425	105,822	141,957	156,051	171,244	189,000
FTE	48.2	51.1	50.6	53.7	54.7	55.7	56.7

Workpapers belonging to this Category:

004010 GS Compressor Stations

Labor	789	1,031	382	780	703	1,445	2,401
Non-Labor	9,085	14,822	5,465	13,475	12,940	28,171	49,653
NSE	0	0	0	0	0	0	0
Total	9,874	15,853	5,847	14,255	13,643	29,616	52,054
FTE	5.2	7.3	2.8	5.4	4.8	9.6	15.6

Unit Measure: Storage Fields

Units	4	4	4	4	4	4	4
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004030 GS Pipelines

Labor	2,255	1,805	1,865	1,417	2,175	2,573	2,504
Non-Labor	32,091	25,969	26,617	24,491	40,008	50,159	51,783
NSE	0	0	0	0	0	0	0
Total	34,346	27,774	28,482	25,908	42,183	52,732	54,287
FTE	16.4	12.9	13.6	9.8	14.8	17.2	16.3

Unit Measure: Storage Fields

Units	4	4	4	4	4	4	4
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Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: C. Aboveground Storage
Workpaper: VARIOUS

In 2025\$ (000) Incurred Costs							
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
004040 GS Purification Equipment							
Labor	985	1,102	790	853	994	1,166	821
Non-Labor	5,569	15,862	11,264	14,753	18,295	22,726	16,992
NSE	0	0	0	0	0	0	0
Total	6,554	16,964	12,054	15,606	19,289	23,892	17,813
FTE	7.0	7.9	5.8	5.9	6.8	7.8	5.4
Unit Measure: Storage Fields							
Units	4	4	4	4	4	4	4
004090 GS Auxiliary Equipment							
Labor	2,719	3,226	3,880	4,704	4,162	3,162	2,982
Non-Labor	31,719	46,420	55,371	81,296	76,586	61,654	61,676
NSE	0	0	0	0	0	0	0
Total	34,438	49,646	59,251	86,000	80,748	64,816	64,658
FTE	19.6	23.0	28.4	32.6	28.3	21.1	19.4
Unit Measure: Storage Fields							
Units	4	4	4	4	4	4	4
007080 GS Capital Tools							
Labor	0	0	0	0	0	0	0
Non-Labor	227	188	188	188	188	188	188
NSE	0	0	0	0	0	0	0
Total	227	188	188	188	188	188	188
FTE	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Unit Measure: Storage Fields							
Units	4	4	4	4	4	4	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
004010 - GS Compressor Stations**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	1,687	1,403	930	884	789	1,031	382	780	703	1,445	2,401
Non-Labor	Zero-Based	15,063	20,839	10,277	14,746	9,085	14,822	5,465	13,475	12,940	28,171	49,653
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		16,749	22,242	11,207	15,629	9,873	15,853	5,847	14,255	13,643	29,616	52,054
FTE	Zero-Based	8.1	8.2	6.3	5.8	5.2	7.3	2.8	5.4	4.8	9.6	15.6
Units	Zero-Based	4	4	4	4	4	4	4	4	4	4	4

Business Purpose:

The GS Compressor Stations Workpaper captures costs associated with routine capital improvements for compressor units located at gas storage fields and scope varies depending on compressor availability and needs. These compressor units are critical for increasing the pressure of natural gas to enable injection into underground reservoirs. Work in this workpaper includes but is not limited to overhauls, rebuilds, major equipment replacements and upgrades to assets such as critical instrumentation, power turbines, gear boxes, compressors and engines.

Physical Description:

Equipment within this category includes engines, high-pressure gas compressors, electric drive compressors, compressed air systems, fire suppression systems, and related control instrumentation. This capital work encompasses replacements, overhauls, and upgrades necessary to maintain and enhance reliability, extend equipment life, achieve environmental compliance, and meet required injection capacity standards.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

The GS Compressor Stations work involves routine capital improvements that extend the useful life of compressor units and associated systems, enhance operational reliability, and comply with environmental and safety regulations. These activities such as equipment replacements, overhauls, and upgrades provide long-term benefits to the gas storage infrastructure. These improvements maintain system integrity, and support required injection capacity over multiple years.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GS Compressor Stations is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented compressor station conditions and applicable regulatory requirements. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GS Compressor Stations is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented compressor station conditions and applicable regulatory requirements.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

The GS Compressor Stations Workpaper utilizes storage facilities as the unit of measure. All capital improvement activities described within this workpaper are performed across four facilities: Aliso Canyon, Honor Rancho, La Goleta, and Playa del Rey.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	994	372	762	688	1,414	2,350	37	10	18	15	31	51	1,031	382	780	703	1,445	2,401
NLbr	14,822	5,465	13,475	12,940	28,171	49,653	0	0	0	0	0	0	14,822	5,465	13,475	12,940	28,171	49,653
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	15,816	5,837	14,237	13,628	29,585	52,003	37	10	18	15	31	51	15,853	5,847	14,255	13,643	29,616	52,054
FTE	7.3	2.8	5.4	4.8	9.6	15.6	0.0	0.0	0.0	0.0	0.0	0.0	7.3	2.8	5.4	4.8	9.6	15.6
Units	4	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	4

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	37	0	0	37	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	37	0	0	37	0.0	0
2027	10	0	0	10	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	10	0	0	10	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	18	0	0	18	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	18	0	0	18	0.0	0
2029	15	0	0	15	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	15	0	0	15	0.0	0
2030	31	0	0	31	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	31	0	0	31	0.0	0
2031	51	0	0	51	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	51	0	0	51	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	1,009	983	759	729	670
Non-Labor	10,603	17,055	9,729	14,125	9,085
NSE	0	0	0	0	0
Total	11,612	18,037	10,489	14,854	9,755
FTE	6.8	6.9	5.4	4.9	4.4
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4
Recorded-Adjusted (Nominal \$)					
Labor	1,009	983	759	729	670
Non-Labor	10,603	17,055	9,729	14,125	9,085
NSE	0	0	0	0	0
Total	11,612	18,037	10,489	14,854	9,755
FTE	6.8	6.9	5.4	4.9	4.4
Units	4	4	4	4	4
Vacation & Sick (Nominal \$)					
Labor	178	166	121	117	118

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	178	166	121	117	118
FTE	1.3	1.3	0.9	0.9	0.8
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	499	255	50	37	0
Non-Labor	4,460	3,784	548	621	0
NSE	0	0	0	0	0
Total	4,960	4,039	597	658	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	1,687	1,403	930	884	789
Non-Labor	15,063	20,839	10,277	14,746	9,085
NSE	0	0	0	0	0
Total	16,749	22,242	11,207	15,629	9,873
FTE	8.1	8.2	6.3	5.8	5.2
Units	4	4	4	4	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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	4	4	4	4	4

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2021 Total	0	0	0	0	0.0	4
2022	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	4
2024	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	4
2025	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004010**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00401.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004010 - GS Compressor Stations
Workpaper Detail: 004010.001 - GS Compressor Stations
Unit Measure: Storage Fields

In-Service Date: Not Applicable

Description:

GS Compressor Station upgrades overhauls and replacements.

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,031	382	780	703	1,445	2,401
Non-Labor	14,822	5,465	13,475	12,940	28,171	49,653
NSE	0	0	0	0	0	0
Total	15,853	5,847	14,255	13,643	29,616	52,054
FTE	7.3	2.8	5.4	4.8	9.6	15.6
Units	4	4	4	4	4	4

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004010

Southern California Gas Company

2028 GRC - REVISED

Capital Workpapers

WP #: 004010

Workpaper Name: **GS Compressor Stations**

Zero-Based Forecast

Table 1: WP 004010 - GS Compressor Stations

The adjacent table 1 to the right is the aggregate total of the GS Compressor Stations workpaper. The tables below present the GS Compressor Stations capital forecast, organized by four storage fields: Aliso Canyon, Goleta, Honor Rancho, and Playa Del Rey. This includes over 30 projects. Project costs vary widely based on scope and complexity, ranging from thousands to millions of dollars. Project forecasts are in various stages of development, including planning, construction, and closeout. Although this supplemental workpaper identifies a subset of projects currently planned for the 2026–2031, project scope, timing, and priority may change as asset conditions, system needs, or other information evolve. Projects may be added or reprioritized to promote the continued safety, reliability, and affordability of Gas Storage Operations.

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,031	14,822	-	15,853	7.3	4
2027	382	5,465	-	5,847	2.8	4
2028	780	13,475	-	14,255	5.4	4
2029	703	12,940	-	13,643	4.8	4
2030	1,445	28,171	-	29,616	9.6	4
2031	2,401	49,653	-	52,054	15.6	4

Table 2: Sub Forecast for: WP 004010 - GS Compressor Stations - Aliso Canyon

This table (Table 2) identifies the capital forecast for GS Compressor Stations – Aliso Canyon (AC).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	67	965	-	1,032	0.5	1
2027	74	1,058	-	1,132	0.5	1
2028	294	5,077	-	5,371	2.0	1
2029	459	8,443	-	8,902	3.1	1
2030	540	10,524	-	11,064	3.6	1
2031	709	14,370	-	15,369	4.6	1

004010 - GS Compressor Stations - Aliso Canyon Projects

Projects described below are representative of activities within this workpaper at Aliso Canyon:

The **AC-Electric Driven Compressor (EDC) Vorecon Unit (K-1120) Rebuild** is for an EDC that has developed significant tolerance wear that is now impacting reliability, efficiency, and operational readiness for sustained 600 MMSCF injection service. As critical rotating equipment, continued operation with degraded internal tolerances increases the risk of performance instability, unplanned downtime, and potential secondary damage to the associated compressor train. Rebuilding the Vorecon is necessary to restore proper mechanical clearances, dependable torque conversion, and maintaining the high availability required to support EDC injection demands. This rebuild will improve reliability, extend equipment life, and reduce the likelihood of costly forced outages.

The **AC - KVS Heat Exchanger Cooling System Upgrade** implements the replacement and upgrade of the Ingersoll-Rand KVS compressors 1–3 heat exchanger cooling systems to address aging and obsolete fin-fan coolers and support structures that no longer meet reliability, performance, or maintainability requirements. As both the structures and cooling coils are degrading, the risk of structure failure could cause injury to personnel and/or property and coil failure could result in a high pressure gas leak. The upgrade replaces the existing coolers and reconstructs the cooler support structure, including construction of the K1, K2, and K3 support structures and installation of new fin-fan coolers. Each new cooling bundle is designed to handle engine jacket water, lubrication oil water, and air manifold cooling water, providing improved heat rejection, operational stability, and efficiency.

Other Example Projects: **AC- Compressor Overhaul of Unit K1 , AC- Compressor Overhaul of Unit K3 , AC- Compressor Overhaul of Unit K4 Overhaul.**

*KVS identifies an integral frame, meaning the engine and compressor cylinders are built on a single crankshaft and crankcase. V" indicates a V-type engine arrangement. The "S" denotes slow-speed operation, EDC - Electric Driven Compressor, MMSCF - Million Standard Cubic Feet., "K" is engineering equipment type for compressor

Table 3: Sub Forecast for: WP 004010 - GS Compressor Stations - Goleta

This table (Table 3) identifies the capital forecast for GS Compressor Stations – La Goleta (LG).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	239	3,438	-	3,677	1.7	1
2027	142	2,032	-	2,174	1.0	1
2028	142	2,462	-	2,604	1.0	1
2029	120	2,201	-	2,320	0.8	1
2030	98	1,918	-	2,017	0.7	1
2031	139	2,827	-	3,023	0.9	1

004010 - GS Compressor Stations - Goleta - Projects

The projects described below are representative of the types of activities included within this workpaper for the La Goleta Storage:

The **Main Unit #7 Overhaul** is required to restore and sustain the compressor's design efficiency, throughput capacity, and mechanical reliability. Main Unit #7 has reached the end of its service life, and an overhaul is necessary to avoid premature failure and the significantly higher cost associated with a full unit replacement. Equipment overhauls are a fundamental component of lifecycle asset management and are executed when accumulated wear and degradation dictate corrective action. This project is necessary to maintain safe operation, restore and sustain unit efficiency and delivery capacity, support continued compliance with environmental requirements, and support long term system reliability. As part of the overhaul, a new compressor lube oil heater will be installed to support proper oil temperature and viscosity during shutdown and startup conditions. Maintaining adequate lube oil temperature reduces internal wear on critical components such as crankshaft bearings, connecting rods, and related rotating assemblies, thereby extending the interval to the next major overhaul. Without installation of new lube oil heaters, increased internal wear would accelerate component degradation, shorten equipment life, and reduce the time between future overhauls.

The **Compressor Flywheel Barring Upgrade** eliminates the manual use of crowbars to rotate flywheels during startup and maintenance activities by installing pneumatic barring systems on eight main injection compressors. The automated barring systems provide controlled and repeatable shaft rotation, improve startup reliability, significantly reduce personnel exposure to stored energy hazards, and remove workers from high risk zones during maintenance and operational activities.

Other Example Projects: **Main Unit Engine and Compressor Overhaul Program**

Table 4: Sub Forecast for: WP 004010 - GS Compressor Stations - Honor Rancho

This table (Table 4) outlines the capital forecast for GS Compressor Stations – Honor Rancho (HR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	725	10,419	-	11,144	5.2	1
2027	90	1,288	-	1,378	0.7	1
2028	233	4,028	-	4,261	1.6	1
2029	112	2,057	-	2,169	0.8	1
2030	745	14,530	-	15,275	5.0	1
2031	1,541	31,237	-	33,409	10.0	1

004010 - GS Compressor Stations - Honor Rancho - Projects

Projects described below are representative of types of activities within this workpaper at Honor Rancho

The **Main Unit #4 Overhaul** project entails a comprehensive rebuild of a reciprocating natural gas compressor engine #4. Following extended operating hours, critical inspection findings identified deficiencies in the engine's internal components. Documented excessive wear, material degradation, and conditions exceeding acceptable limits have established a risk of mechanical failure and unplanned outages and will require a full engine overhaul.

The **Air Compression & Instrument Air** project involves the replacement and upgrade of existing air compression equipment to support the instrument air needs of the Honor Rancho facility. The existing air compression system is aging, undersized, and no longer provides sufficient reliability or capacity to support operations. The upgraded system will improve service to the wet gas compressors, generators, dehydration units, well sites, and the tank farm, by providing a properly sized and more reliable supply of instrument and starting air. Addressing these deficiencies is necessary to maintain safe, reliable, and continuous plant operations.

Other Example Projects: **Overhaul Unit 2 , Plant 1 Decommission**

SCG/GAS TRANSMISSION & STORAGE/Exh No:SCG-05-CWP.1/Witness: G. Orozco

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Table 5: Sub Forecast for: WP 004010 - GS Compressor Stations - Playa del Rey

This table (Table 5) outlines the capital forecast for GS Compressor Stations – Playa Del Rey (PDR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	0	0	-	0	-	1
2027	76	1,087	-	1,163	0.6	1
2028	110	1,908	-	2,019	0.8	1
2029	13	239	-	252	0.1	1
2030	61	1,199	-	1,260	0.4	1
2031	12	236	-	252	0.1	1

004010 - GS Compressor Stations - Playa del Rey - Projects

Projects described below are representative of activities within this workpaper at Playa Del Rey

The **Main Unit Panel Upgrades** project will replace the obsolete control panels for the three main unit compressors with modern control panels for continued reliable operation of these critical assets. The existing panels have reached their end of life and are no longer fully supported by the vendor, creating increased risk of control system failure, extended downtime, and limited ability to respond to operational or maintenance needs. Without these panels, the main compressor units cannot be run for injection. Upgrading the panels will mitigate cybersecurity risks, restore long-term maintainability and vendor support, and improve system diagnostics, monitoring, and protection functions. The replacement will enhance compressor reliability, reduce unplanned outages and maintenance costs, and support safe, stable, and efficient facility operations.

Other Example Project: **Main Unit Compressor Overhaul Program**

**Beginning of Workpaper Group
004030 - GS Pipelines**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	3,587	3,623	3,013	2,437	2,255	1,805	1,865	1,417	2,175	2,573	2,504
Non-Labor	Zero-Based	44,607	46,698	29,631	23,730	32,091	25,969	26,617	24,491	40,008	50,159	51,783
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		48,193	50,321	32,644	26,167	34,346	27,774	28,482	25,908	42,183	52,732	54,287
FTE	Zero-Based	20.8	24.1	21.8	16.9	16.4	12.9	13.6	9.8	14.8	17.2	16.3
Units	Zero-Based	4	4	4	4	4	4	4	4	4	4	4

Business Purpose:

GS Pipelines workpaper supports the development, installation, modification, and retrofitting of pipelines, laterals, surface facilities, and associated equipment necessary to support new and existing gas storage well operations.

Physical Description:

These activities include constructing, connecting, modifying, and retrofitting pipelines and laterals to integrate new wells, enhance system capacity, and improve operational efficiency. Additionally, this work encompasses the implementation or upgrade of well automation systems, enabling remote monitoring, control, and optimization of well performance. All activities are executed in accordance with applicable industry standards, regulatory requirements, and best practices for safe, reliable, and efficient operations.

Project Justification:

The activities described in the GS Pipelines Workpaper such as constructing, modifying, and retrofitting subsurface pipelines and associated

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

facilities are improvements that extend the useful life of the gas storage infrastructure and enhance system capacity and operational efficiency .
These projects provide long-term benefits, including integration of new wells and implementation of automation systems for remote monitoring and control, which improve reliability and compliance with regulatory standards.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GS Pipelines is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning the pipeline and surface facilities infrastructure required for upcoming new wells, current operating conditions, system configurations, and regulatory requirements. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GS Pipelines is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning the pipeline and surface facilities infrastructure required for upcoming new wells, current operating conditions, system configurations, and regulatory requirements.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

The GS Pipelines Workpaper utilizes storage facilities as the unit of measure. All capital improvement activities described within this workpaper are performed across four facilities: Aliso Canyon, Honor Rancho, La Goleta, and Playa del Rey.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,741	1,814	1,385	2,128	2,518	2,451	64	51	32	47	55	53	1,805	1,865	1,417	2,175	2,573	2,504
NLbr	25,969	26,617	24,491	40,008	50,159	51,783	0	0	0	0	0	0	25,969	26,617	24,491	40,008	50,159	51,783
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	27,710	28,431	25,876	42,136	52,677	54,234	64	51	32	47	55	53	27,774	28,482	25,908	42,183	52,732	54,287
FTE	12.9	13.6	9.8	14.8	17.2	16.3	0.0	0.0	0.0	0.0	0.0	0.0	12.9	13.6	9.8	14.8	17.2	16.3
Units	4	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	4

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	64	0	0	64	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	64	0	0	64	0.0	0
2027	51	0	0	51	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	51	0	0	51	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	32	0	0	32	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	32	0	0	32	0.0	0
2029	47	0	0	47	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	47	0	0	47	0.0	0
2030	55	0	0	55	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	55	0	0	55	0.0	0
2031	53	0	0	53	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	53	0	0	53	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	2,146	2,537	2,461	2,011	1,916
Non-Labor	31,399	38,218	28,052	22,731	32,091
NSE	0	0	0	0	0
Total	33,545	40,754	30,513	24,743	34,007
FTE	17.5	20.4	18.6	14.4	13.8
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4
Recorded-Adjusted (Nominal \$)					
Labor	2,146	2,537	2,461	2,011	1,916
Non-Labor	31,399	38,218	28,052	22,731	32,091
NSE	0	0	0	0	0
Total	33,545	40,754	30,513	24,743	34,007
FTE	17.5	20.4	18.6	14.4	13.8
Units	4	4	4	4	4
Vacation & Sick (Nominal \$)					
Labor	379	428	391	323	339

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	379	428	391	323	339
FTE	3.3	3.7	3.2	2.5	2.6
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	1,062	658	161	103	0
Non-Labor	13,208	8,480	1,579	999	0
NSE	0	0	0	0	0
Total	14,270	9,138	1,740	1,102	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	3,587	3,623	3,013	2,437	2,255
Non-Labor	44,607	46,698	29,631	23,730	32,091
NSE	0	0	0	0	0
Total	48,193	50,321	32,644	26,167	34,346
FTE	20.8	24.1	21.8	16.9	16.4
Units	4	4	4	4	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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	4	4	4	4	4

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	4
Explanation:	Unit Alignment					
2021 Total	0	0	0	0	0.0	4
2022	0	0	0	0	0.0	4
Explanation:	Unit Alignment					
2022 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	4
2024	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	4
2025	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004030**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00403.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004030 - GS Pipelines
Workpaper Detail: 004030.001 - GS Pipelines
Unit Measure: Storage Fields

In-Service Date: Not Applicable

Description:

GS Pipelines upgrades retrofits replacements and installations

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,805	1,865	1,417	2,175	2,573	2,504
Non-Labor	25,969	26,617	24,491	40,008	50,159	51,783
NSE	0	0	0	0	0	0
Total	27,774	28,482	25,908	42,183	52,732	54,287
FTE	12.9	13.6	9.8	14.8	17.2	16.3
Units	4	4	4	4	4	4

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004030

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #: 004030

Workpaper: GS Pipelines

Zero-Based Forecast

Table 1: WP 004030 - GS Pipelines

The adjacent table 1 to the right is the aggregate total of the GS Pipelines workpaper. The tables below present the GS Pipelines capital forecast, organized by four storage fields—Aliso Canyon, Goleta, Honor Rancho, and Playa Del Rey—as well as storage-wide programs. This includes over 60 projects, including three large lateral projects. Project costs vary widely based on scope and complexity, ranging from thousands to millions of dollars. Project forecasts are in various stages of development, including planning, construction, and closeout. Although this supplemental workpaper identifies a subset of projects currently planned for the 2026–2031, project scope, timing, and priority may change as asset conditions, system needs, or other information evolve. Projects may be added or reprioritized to promote the continued safety, reliability, and affordability of Gas Storage Operations.

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,805	25,969	-	27,774	12.9	4
2027	1,865	26,617	-	28,482	13.6	4
2028	1,417	24,491	-	25,908	9.8	4
2029	2,175	40,008	-	42,183	14.8	4
2030	2,573	50,159	-	52,732	17.2	4
2031	2,504	51,783	-	54,287	16.3	4

Table 2: Sub Forecast for: WP 004030 - GS Pipelines - Aliso Canyon

This table (Table 2) identifies the capital forecast for GS Compressor Stations – Aliso Canyon (AC).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	193	2,775	-	2,968	1.4	1
2027	100	1,434	-	1,534	0.7	1
2028	218	3,769	-	3,987	1.5	1
2029	594	10,931	-	11,525	4.0	1
2030	1,037	20,212	-	21,249	6.9	1
2031	1,497	30,967	-	32,464	9.8	1

004030 - GS Pipelines - Aliso Canyon Projects

Projects described below are representative of types of activities within this workpaper at Aliso Canyon

Water Disposal Wells This project will install and connect new pipelines to support two new water disposal wells at the Aliso Canyon Storage Facility. The pipelines will provide dedicated conveyance of produced brine water generated during withdrawal operations from the storage reservoir. The new pipeline infrastructure is required to safely and reliably transport continuous brine water flows from production facilities (Porter and Sesnon Gathering Plants) to the disposal wells, supporting proper water management and uninterrupted gas withdrawal operations. Water disposal management is critical in preventing upstream upset conditions, operational interruptions, adverse impacts, and costly transportation and handling of liquids.

Porter 72 Well Lateral Modifications This project is required to address physical and dimensional changes to well laterals, tubing, and wellhead configurations identified through integrity reassessments. The project will modify affected laterals and platforms, inspect and pressure-test lateral piping, and restore code-compliant configurations in accordance with CalGEM and DOT requirements. Localized lead-based paint abatement will be performed on well access platforms where cutting and welding of existing structures is necessary. This work supports compliance with Cal/OSHA Title 8, Section 3203 (Injury and Illness Prevention Program), which requires identification and correction of workplace hazards; Title 8, Section 3328 (Machinery and Equipment), which requires piping systems and equipment to be maintained in safe operating condition; and Title 8, Sections 1532.1 and 5208 (Lead Exposure and Lead-Based Paint Abatement) for protection of personnel during disturbance of lead-containing coatings.

8 Injection and Withdrawal Wells Laterals and Surface Facilities This project will install laterals and associated surface facilities for eight new gas storage wells to connect the wells to the existing field piping system and enable full storage injection and withdrawal operations. The scope includes surface piping, civil infrastructure, two phase separator and automated well control features, including well-specific injection and withdrawal block and choke valves operated by pneumatic actuators and controlled through localized Programmable Logic Controllers (PLCs). These surface facilities provide the critical infrastructure required to safely monitor, control, separate, and protect produced fluids and gases while integrating the new wells into existing operations. Implementing automated control and protection systems improves operational reliability, enhances safety, and allows precise well management, while supporting compliance with applicable operational, safety, and regulatory requirements. This project is essential for placing the new wells into service and restoring long-term storage field capacity, reliability, and operational flexibility.

Other Example Projects: AC - Main Plant Utility Upgrades, AC - Porter 72 Well Lateral Modifications, AC - Porter 68A Well Lateral Modifications, AC - Pressure Safety Valves (PSV) Porter Gathering Plant, AC - P-44 Kill Network Retrofit

Table 3: Sub Forecast for: WP 004030 - GS Pipelines - Goleta

This table (Table 3) identifies the capital forecast for GS Compressor Stations – La Goleta (LG).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	110	1,578	-	1,687	0.8	1
2027	1,104	15,762	-	16,866	8.1	1
2028	737	12,738	-	13,475	5.1	1
2029	367	6,745	-	7,112	2.5	1
2030	39	767	-	807	0.3	1
2031	9	192	-	202	0.1	1

004030 - GS Pipelines - Goleta Projects

Projects described below are representative of types of activities within this workpaper at La Goleta

Laterals for 6 New Wells This project scope includes the design, install, and commission of new lateral lines, instrumentation, civil work, and transmission headers, and fittings to connect six (6) wells scheduled for drilling in 2026 at the Goleta Storage Field to the major gas transmission lines supplying the Dehydration plant. These new pipelines will support gas withdrawal during the peak demand season and will also serve as injection lines during the storage injection season. Goleta Storage originally operated 18 injection/withdrawal wells but currently has only eight (8) active wells. The added infrastructure for the new wells will restore the field's maximum production capacity, improving reliability, redundancy, and operational flexibility.

Valve & Actuator Replacement Program This program will replace aging isolation, control, and choke valves on wellheads and pipelines as part of a planned lifecycle replacement effort. Over time, valves and actuators degrade due to erosive gas conditions—particularly sand—and continuous environmental exposure, increasing the risk of mechanical failure, gas leakage, and emissions. Choke valves will be upgraded to modern, engineered assemblies with trim designed for high velocity, erosive gas service. Implementing this program will reduce erosion related failures, improve containment integrity, enhance safety and reliability, support stable production, minimize unplanned maintenance, and reduce fugitive gas emissions.

Other Example Projects: LG - Well Choke Valves Replacement

Table 4: Sub Forecast for: WP 004030 - GS Pipelines - Honor Rancho

This table (Table 4) outlines the capital forecast for GS Compressor Stations – Honor Rancho (HR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,273	18,309	-	19,581	9.1	1
2027	227	3,243	-	3,471	1.7	1
2028	105	1,823	-	1,929	0.7	1
2029	264	4,862	-	5,126	1.8	1
2030	237	4,618	-	4,855	1.6	1
2031	216	4,473	-	4,690	1.4	1

004030 - GS Pipelines - Honor Rancho Projects

Projects described below are representative of types of activities within this workpaper at Honor Rancho

WEZU 24 D,E,F,G,H Wells Surface Facilities This project will install laterals and associated surface facilities for five new gas storage wells to connect the wells to the existing field piping system and enable full storage injection and withdrawal operations. The scope includes surface piping, civil infrastructure, two phase separator and automated well control features, including well-specific injection and withdrawal block and choke valves operated by pneumatic actuators and controlled through localized Programmable Logic Controllers (PLCs). These surface facilities provide the critical infrastructure required to safely monitor, control, separate, and protect produced fluids and gases while integrating the new wells into existing operations. Implementing automated control and protection systems improves operational reliability, enhances safety, and allows precise well management, while maintaining compliance with applicable operational, safety, and regulatory requirements. This project is essential for placing the new wells into service and restoring long-term storage field capacity, reliability, and operational flexibility.

Other Example Projects: HR - WEZU 25D Well Surface Facilities, HR - Plant 2 Pipeline Integration, HR - Field and Plant Valve, HR - Line 225 Tap and Pipe Installation(Fuel and Blowdown), HR - Field Water Supply Upgrade

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Table 5: Sub Forecast for: WP 004030 - GS Pipelines - Playa del Rey

This table (Table 5) outlines the capital forecast for GS Compressor Stations – Playa Del Rey (PDR).	Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
	2026	230	3,308	-	3,537	1.6	1
	2027	367	5,232	-	5,599	2.7	1
	2028	246	4,253	-	4,499	1.7	1
	2029	815	14,983	-	15,797	5.5	1
	2030	1,132	22,069	-	23,201	7.6	1
	2031	660	13,651	-	14,311	4.3	1

004030 - GS Pipelines - Playa del Rey Projects

Projects described below are representative of types of activities within this workpaper at Playa Del Rey

Laterals for 6 New Wells: This project will install laterals and associated surface facilities for six new gas storage wells to connect the wells to the existing field piping system and enable full storage injection and withdrawal operations. The scope includes surface piping, civil infrastructure, and automated well control features, including well-specific injection and withdrawal block and choke valves operated by pneumatic actuators and controlled through localized Programmable Logic Controllers (PLCs). These surface facilities provide the critical infrastructure required to safely monitor and control the new wells, while integrating them into existing operations. Implementing automated control and protection systems improves operational reliability, enhances safety, and allows precise well management, while supporting compliance with applicable operational, safety, and regulatory requirements. This project is essential for placing the new wells into service and restoring long-term storage field capacity, reliability, and operational flexibility.

Other Example Projects: PDR - 24-2 Lateral Modification, PDR - Well Kill Header Valve Upgrade

Table 6: Sub Forecast for: WP 004030 - GS Pipelines - Storage Wide (4 Fields) Programs/Projects

Table 5 outlines the capital forecast for GS Pipelines – Storage-wide programs. The programs focus on seismic remediations requiring upgrades and replacements of pipe supports, and pipeline replacement and retrofit activities across all four storage fields.	Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
	2026	-	-	-	-	-	4
	2027	66	945	-	1,011	0.5	4
	2028	110	1,908	-	2,019	0.8	4
	2029	135	2,488	-	2,623	0.9	4
	2030	128	2,494	-	2,622	0.9	4
	2031	121	2,499	-	2,620	0.8	4

**Beginning of Workpaper Group
004040 - GS Purification Equipment**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	600	953	1,300	1,394	985	1,102	790	853	994	1,166	821
Non-Labor	Zero-Based	8,943	7,024	9,567	11,890	5,569	15,862	11,264	14,753	18,295	22,726	16,992
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		9,543	7,977	10,867	13,284	6,553	16,964	12,054	15,606	19,289	23,892	17,813
FTE	Zero-Based	3.3	6.3	9.5	9.6	7.0	7.9	5.8	5.9	6.8	7.8	5.4
Units	Zero-Based	4	4	4	4	4	4	4	4	4	4	4

Business Purpose:

The GS Purification Equipment Workpaper addresses capital investment needs for upgrades and improvements to gas purification facilities . These projects are critical to maintain system deliverability and to comply with pipeline gas quality standards.

Physical Description:

Aging infrastructure has increased the need for enhancements to complex equipment such as dehydration systems, which are critical for controlling water content and preventing operational issues, including corrosion and hydrate formation. The scope of work includes improvements to dehydrators, coolers, scrubbers, boilers, pumps, valves, piping, power supply, controls, and instrumentation. These upgrades are designed to enhance system reliability, improve operational efficiency, and comply with applicable regulatory and operational requirements.

Project Justification:

The upgrades to purification equipment are necessary to address aging infrastructure and maintain safe, reliable gas delivery. Dehydration systems

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

and related components play a critical role in controlling water content, preventing corrosion, and avoiding hydrate formation, which can lead to operational failures and safety hazards. Without these improvements, the risk of equipment failure increases, potentially resulting in service interruptions, regulatory non-compliance, and higher maintenance costs. Modernizing these systems enhances operational efficiency, maintains compliance with pipeline gas quality standards, and supports long-term system integrity.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GS Purification Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented operating conditions of purification equipment, dehydration system configurations, and regulatory requirements. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex.

SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GS Purification Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented operating conditions of purification equipment, dehydration system configurations, and regulatory requirements.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

The GS Purification Equipment Workpaper utilizes storage facilities as the unit of measure. All capital improvement activities described within this workpaper are performed across four facilities: Aliso Canyon, Honor Rancho, La Goleta, and Playa del Rey.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,063	768	834	973	1,141	804	39	22	19	21	25	17	1,102	790	853	994	1,166	821
NLbr	15,862	11,264	14,753	18,295	22,726	16,992	0	0	0	0	0	0	15,862	11,264	14,753	18,295	22,726	16,992
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	16,925	12,032	15,587	19,268	23,867	17,796	39	22	19	21	25	17	16,964	12,054	15,606	19,289	23,892	17,813
FTE	7.9	5.8	5.9	6.8	7.8	5.4	0.0	0.0	0.0	0.0	0.0	0.0	7.9	5.8	5.9	6.8	7.8	5.4
Units	4	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	4

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	39	0	0	39	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	39	0	0	39	0.0	0
2027	22	0	0	22	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	22	0	0	22	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	19	0	0	19	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	19	0	0	19	0.0	0
2029	21	0	0	21	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	21	0	0	21	0.0	0
2030	25	0	0	25	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	25	0	0	25	0.0	0
2031	17	0	0	17	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	17	0	0	17	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	359	667	1,062	1,151	837
Non-Labor	6,295	5,748	9,057	11,389	5,569
NSE	0	0	0	0	0
Total	6,654	6,415	10,119	12,540	6,405
FTE	2.8	5.3	8.1	8.2	5.9
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4
Recorded-Adjusted (Nominal \$)					
Labor	359	667	1,062	1,151	837
Non-Labor	6,295	5,748	9,057	11,389	5,569
NSE	0	0	0	0	0
Total	6,654	6,415	10,119	12,540	6,405
FTE	2.8	5.3	8.1	8.2	5.9
Units	4	4	4	4	4
Vacation & Sick (Nominal \$)					
Labor	63	113	169	185	148

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	63	113	169	185	148
FTE	0.5	1.0	1.4	1.4	1.1
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	178	173	69	59	0
Non-Labor	2,648	1,275	510	501	0
NSE	0	0	0	0	0
Total	2,826	1,449	579	559	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	600	953	1,300	1,394	985
Non-Labor	8,943	7,024	9,567	11,890	5,569
NSE	0	0	0	0	0
Total	9,543	7,977	10,867	13,284	6,553
FTE	3.3	6.3	9.5	9.6	7.0
Units	4	4	4	4	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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	4	4	4	4	4

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	4
Explanation:	Unit Alignment.					
2021 Total	0	0	0	0	0.0	4
2022	0	0	0	0	0.0	4
Explanation:	Unit Alignment.					
2022 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	4
Explanation: Unit Alignment.						
2023 Total	0	0	0	0	0.0	4
2024	0	0	0	0	0.0	4
Explanation: Unit Alignment.						
2024 Total	0	0	0	0	0.0	4
2025	0	0	0	0	0.0	4
Explanation: Unit Alignment.						
2025 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004040**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00404.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004040 - GS Purification Equipment
Workpaper Detail: 004040.001 - GS Purification Equipment
Unit Measure: Storage Fields

In-Service Date: Not Applicable

Description:

GS Purification Equipment

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	1,102	790	853	994	1,166	821
Non-Labor	15,862	11,264	14,753	18,295	22,726	16,992
NSE	0	0	0	0	0	0
Total	16,964	12,054	15,606	19,289	23,892	17,813
FTE	7.9	5.8	5.9	6.8	7.8	5.4
Units	4	4	4	4	4	4

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004040

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #: 004040

Workpaper Name: GS Purification Equipment

Zero-Based Forecast

Table 1: WP 004040 - GS Purification Equipment

The adjacent table 1 to the right is the aggregate total of the GS Purification Equipment workpaper. The tables below present the GS Purification Equipment capital forecast, organized by four storage fields—Also Canyon, La Goleta, Honor Rancho, and Playa Del Rey. This includes over 20 projects. Project costs vary widely based on scope and complexity, ranging from thousands to millions of dollars. Project forecasts are in various stages of development, including planning, construction, and closeout. Although this supplemental workpaper identifies a subset of projects currently planned for the 2026–2031, project scope, timing, and priority may change as asset conditions, system needs, or other information evolve. Projects may be added or reprioritized to promote the continued safety, reliability, and affordability of Gas Storage Operations.

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,102	15,862	-	16,964	7.9	4
2027	790	11,264	-	12,054	5.8	4
2028	853	14,753	-	15,606	5.9	4
2029	994	18,295	-	19,289	6.8	4
2030	1,166	22,726	-	23,892	7.8	4
2031	821	16,992	-	17,813	5.4	4

Table 2: Sub Forecast for: WP 004040 - GS Purification Equipment - Also Canyon

This table (Table 2) identifies the capital forecast for GS Compressor Stations – Also Canyon (AC).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	730	10,503	-	11,232	5.2	1
2027	66	938	-	1,003	0.5	1
2028	203	3,508	-	3,711	1.4	1
2029	307	5,642	-	5,948	2.1	1
2030	432	8,412	-	8,843	2.9	1
2031	604	12,498	-	13,101	3.9	1

004040 - GS Purification Equipment - Also Canyon Projects

Projects described below are representative of types of activities within this workpaper at Also Canyon.

AC - Thermal Oxidizer Upgrade: This project is to replace the existing flare system with a new Thermal Oxidizer, driven by environmental considerations to manage emissions of hydrocarbon vapors released during truck loading of crude oil and light hydrocarbon condensate liquids displaced from the above ground storage tanks. Project scope includes engineering and design for the Thermal Oxidizer system, installation of two (2) 10-horsepower compressor skids and two (2) associated air coolers that will serve the Thermal Oxidizer, and two (2) 40-horsepower compressor skids that will serve the Dehy-1 area, along with all associated piping, electrical and instrumentation (E&I), and civil/structural infrastructure. Work associated with this project will adhere to California Public Utilities Commission (CPUC) gas storage safety oversight requirements, PHMSA 49 CFR Part 192, applicable ASME codes for pressure systems, NFPA 54 and NFPA 850 for gas facilities, and Cal/OSHA (CCR Title 8) workplace safety standards.

AC - Dehydration 2 Redundant Hot Oil Heater Upgrade: This project includes the installation of a hot oil heater, required for Dehy-2 to increase operational reliability and improve throughput capacity, particularly in anticipation of additional production inflow from potential future withdrawal wells. The entire Dehy is at risk of service availability if the current aging hot oil heater at Dehy-2 fails, which would result in a loss of 740 MCF per day of withdrawal capability. Work associated with this project will adhere to California Public Utilities Commission (CPUC) General Order 95 (GO-95) safety and construction requirements and GO-95 Rule 44.2.

AC - New Gas Blowdown System Installation: This project includes the installation of a new gas blowdown system that is necessary for safe pressure regulation, controlled gas flow, and protection of downstream equipment in accordance with the California Code of Regulations (CCR) Title 8. The new system will replace manual blowdown practices at the EDC and KVS compressor areas by maintaining released gas within piping systems, reducing the risk of over-pressurization and atmospheric release. Work associated with this project will adhere to Cal/OSHA safety requirements, General Industry and Construction Safety Orders (Title 8 §1500–1962, §3200–6184), Piping Standards (Title 8 §536), and the California Department of Industrial Relations mandates for pressure-system integrity and hazard mitigation.

Other Example Projects: **AC - Dehydration Facility 2 Upgrade**, **AC - Dehydration 1 TEG Pump Upgrade**

Table 3: Sub Forecast for: WP 004040 - GS Purification Equipment - Goleta

This table (Table 3) identifies the capital forecast for GS Compressor Stations – La Goleta (LG).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	23	331	-	354	0.2	1
2027	84	1,200	-	1,285	0.6	1
2028	276	4,771	-	5,047	1.9	1
2029	312	5,741	-	6,052	2.1	1
2030	443	8,632	-	9,075	3.0	1
2031	139	2,884	-	3,023	0.9	1

004040 - GS Purification Equipment - Goleta Projects

Projects described below are representative of types of activities within this workpaper at La Goleta.

Coalescer Installation F-101: This project will complete the remaining installation activities required to place the Absolute Filter Coalescer (F-101) into full service. The coalescer is designed to remove entrained particulate solids and free liquid droplets from the gas stream, reducing water content and that processed gas meets SoCalGas Rule 30 requirements. Currently, filtration is not being performed for the gas stream, resulting in periodic spikes in gas moisture content. Completing the installation will integrate the coalescer into the existing gas processing system, allowing for proper filtration and moisture control during operations, improve gas quality, support regulatory compliance, and reduce the risk of downstream equipment impacts caused by liquids or solids carryover.

Glycol System Replacement: This project will replace the existing glycol regeneration system with a modern, high-efficiency regeneration unit designed to improve thermal performance, reduce reboiler energy consumption, and optimize glycol purity for enhanced dehydration efficiency. The current system has reached the end of its useful life, resulting in increased downtime, reduced throughput, and higher emissions, which prevents reliable operation at design rates. The new regeneration package—including reboiler, separator column, heat-exchanger train, and filtration components—will reduce operational losses, improve system reliability, and provide capacity needed to support future plant expansion to 420 MMSCFD, the plant's original gas processing capacity. This upgrade is critical to long-term compliance, as it restores effective gas dehydration and supports consistent compliance with moisture specifications and emissions requirements.

Other Example Projects: **LG - Compressor Air Fuel Ratio Controllers**

Table 4: Sub Forecast for: WP 004040 - GS Purification Equipment - Honor Rancho

This table (Table 4) outlines the capital forecast for GS Compressor Stations – Honor Rancho (HR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	46	662	-	708	0.3	1
2027	80	1,144	-	1,224	0.6	1
2028	266	4,604	-	4,870	1.8	1
2029	251	4,616	-	4,867	1.7	1
2030	151	2,949	-	3,100	1.0	1
2031	3	72	-	76	0.0	1

004040 - GS Purification Equipment - Honor Rancho Projects

Projects described below are representative of types of activities within this workpaper at Honor Rancho.

Sand Tank Replacement: This project consists of the removal of existing sand separation equipment and the installation of a new, engineered sand trap/desander system. These upgrades are a proactive initiative designed to optimize the efficiency of the natural gas withdrawal process and the longevity of the storage system, as the current sand tanks do not have enough retention time and cannot handle high withdrawal rate/surges. Sand, proppant, and debris are a by-product of the gas withdrawal process. These by-products, flowing at high pressure, cause internal damage to piping and equipment. The upgraded sand tanks capture these by-products, aiding with a cleaner flow before entering oil settling tanks, downstream brine filters, and disposal wells, thereby reducing maintenance costs, preventing premature equipment failure, and reducing the risk of environmental downtime.

Other Example Projects: **HR - Dehydration System Upgrade**, **HR - V224 Vessel Upgrade**

Table 5: Sub Forecast for: WP 004040 - GS Purification Equipment - Playa del Rey

This table (Table 5) outlines the capital forecast for GS Compressor Stations – Playa Del Rey (PDR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	303	4,366	-	4,669	2.2	1
2027	560	7,982	-	8,542	4.1	1
2028	108	1,870	-	1,978	0.7	1
2029	125	2,296	-	2,421	0.8	1
2030	140	2,733	-	2,874	0.9	1
2031	74	1,538	-	1,612	0.5	1

004040 - GS Purification Equipment - Playa del Rey Projects

Projects described below are representative of types of activities within this workpaper at Playa del Rey.

Free Water Knockout Process Vessel Replacement: This project will replace the existing Free Water Knockout (FWKO) separation system that supports continued liquid production from the PDR storage reservoir, which is experiencing increasing liquid encroachment. Due to increasing liquid production from the storage field (wellsite) and planned drilling of additional wells, overall production volumes are expected to continue rising. The current FWKO configuration consists of two aging separators and a withdrawal separator that is undersized and no longer provide effective phase separation for the present process conditions. The project scope includes engineering, design, and procurement in addition to the decommissioning of the two FWKO vessels and replacing them with a single, properly sized, modern three-phase separator vessel designed to handle current and anticipated liquid production profiles. The new three-phase separator will provide improved process performance, increased operational reliability, and a simplified separation system that supports sustained liquid production. Without replacement, continued operation risks production interruptions, increased maintenance, and potential impacts to the tank farm.

Tri-Ethylene Glycol (TEG) Tank Installation: This project will install a dedicated tri-ethylene glycol (TEG) storage tank to maintain an adequate on-site supply required for reliable operation of the Gas Dehydration System. Currently, PDR relies on available TEG transported from AC, HR, LG storage facilities. Tri-ethylene glycol is a critical component used to remove water vapor from natural gas to comply with pipeline gas quality specifications. The new storage tank will provide sufficient capacity to support continuous dehydration operations, accommodate operational variability, and provide uninterrupted availability of glycol for normal and extreme system demand conditions. The scope for this project includes engineering, design, procurement, installation, commissioning, and permitting.

Other Example Projects: **PDR - Desulfurizing System Replacement**

**Beginning of Workpaper Group
004090 - GS Auxiliary Equipment**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	3,034	3,102	3,134	3,462	2,719	3,226	3,880	4,704	4,162	3,162	2,982
Non-Labor	Zero-Based	52,494	53,126	46,009	41,969	31,719	46,420	55,371	81,296	76,586	61,654	61,676
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		55,528	56,228	49,142	45,430	34,438	49,646	59,251	86,000	80,748	64,816	64,658
FTE	Zero-Based	19.2	20.3	22.2	24.1	19.6	23.0	28.4	32.6	28.3	21.1	19.4
Units	Zero-Based	4	4	4	4	4	4	4	4	4	4	4

Business Purpose:

The GS Auxiliary Equipment Workpaper addresses critical system support needs essential for safe and reliable operations . Auxiliary equipment and activities are integral to powering, supporting, and enabling the operation of compressors, wells, pipelines, purification systems. These upgrades and improvements enable access and power to facilities, allow for operational integrity, and support compliance with regulatory requirements.

Physical Description:

The GS Auxiliary Equipment Workpaper scope includes upgrades and improvements for electrical systems , generators for power, utility upgrades such as water and power, instrumentation, equipment controls, field air compressors, odorization systems, site drainage, site infrastructure, tank farms, access roads, and communication systems. Enhancements will comply with operational standards and strengthen system resilience against aging infrastructure and evolving cybersecurity requirements.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Upgrades to auxiliary systems and associated equipment are necessary to address aging infrastructure and evolving operational requirements. Failure to maintain and modernize these systems increases the risk of equipment failure, inaccurate data, and operational disruptions which could compromise safety, reliability, and regulatory compliance. These upgrades and improvements enable compressors, wells, pipelines, and purification systems are operational and maintain compliance with pipeline-quality standards. These improvements are essential to maintain safety, security, deliverability, and reliability in providing pipeline-quality natural gas. Proactive investment reduces the likelihood of costly emergency repairs and service interruptions, supporting long-term system integrity and customer reliability.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GS Auxiliary Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning project expenditures with documented need for security and electrical upgrades, and current storage field auxiliary infrastructure conditions. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GS Auxiliary Equipment is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. This approach provides the best estimate of anticipated workload by directly aligning project expenditures with documented need for security and electrical upgrades, and current storage field auxiliary infrastructure conditions.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

The GS Auxiliary Equipment Workpaper utilizes storage facilities as the unit of measure . All capital improvement activities described within this workpaper are performed across four facilities: Aliso Canyon, Honor Rancho, La Goleta, and Playa del Rey.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	3,111	3,774	4,597	4,073	3,095	2,919	115	106	107	89	67	63	3,226	3,880	4,704	4,162	3,162	2,982
NLbr	46,420	55,371	81,296	76,586	61,654	61,676	0	0	0	0	0	0	46,420	55,371	81,296	76,586	61,654	61,676
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	49,531	59,145	85,893	80,659	64,749	64,595	115	106	107	89	67	63	49,646	59,251	86,000	80,748	64,816	64,658
FTE	23.0	28.4	32.6	28.3	21.1	19.4	0.0	0.0	0.0	0.0	0.0	0.0	23.0	28.4	32.6	28.3	21.1	19.4
Units	4	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	4

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	115	0	0	115	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	115	0	0	115	0.0	0
2027	106	0	0	106	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	106	0	0	106	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	107	0	0	107	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	107	0	0	107	0.0	0
2029	89	0	0	89	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	89	0	0	89	0.0	0
2030	67	0	0	67	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	67	0	0	67	0.0	0
2031	63	0	0	63	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	63	0	0	63	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	1,877	2,208	2,572	2,895	2,338
Non-Labor	38,347	45,241	43,906	42,180	31,566
NSE	0	0	0	0	0
Total	40,224	47,450	46,478	45,075	33,905
FTE	16.6	17.6	19.1	20.9	16.6
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	-62	-37	-12	-37	-28
Non-Labor	-1,397	-1,763	-350	-1,978	153
NSE	0	0	0	0	0
Total	-1,459	-1,799	-362	-2,016	125
FTE	-0.4	-0.4	-0.1	-0.3	-0.2
Units	4	4	4	4	4
Recorded-Adjusted (Nominal \$)					
Labor	1,815	2,172	2,560	2,857	2,311
Non-Labor	36,950	43,479	43,556	40,202	31,719
NSE	0	0	0	0	0
Total	38,766	45,650	46,116	43,059	34,030
FTE	16.2	17.2	19.0	20.6	16.4
Units	4	4	4	4	4
Vacation & Sick (Nominal \$)					
Labor	320	367	407	459	408

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	320	367	407	459	408
FTE	3.0	3.1	3.2	3.5	3.2
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	898	563	167	146	0
Non-Labor	15,543	9,648	2,452	1,767	0
NSE	0	0	0	0	0
Total	16,442	10,211	2,619	1,913	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	3,034	3,102	3,134	3,462	2,719
Non-Labor	52,494	53,126	46,009	41,969	31,719
NSE	0	0	0	0	0
Total	55,528	56,228	49,142	45,430	34,438
FTE	19.2	20.3	22.2	24.1	19.6
Units	4	4	4	4	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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
Labor	-62	-37	-12	-37	-28
Non-Labor	-1,397	-1,763	-350	-1,978	153
NSE	0	0	0	0	0
Total	-1,459	-1,799	-362	-2,016	125
FTE	-0.4	-0.4	-0.1	-0.3	-0.2
Units	4	4	4	4	4

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2021	-62	-1,397	0	-1,459	-0.4	0
Explanation: Transfer facility security upgrade costs from Gas Transmission Storage to Facilities						
2021 Total	-62	-1,397	0	-1,459	-0.4	4
2022	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2022	-37	-1,763	0	-1,799	-0.4	0
Explanation: Transfer facility security upgrade costs from Gas Transmission Storage to Facilities						
2022 Total	-37	-1,763	0	-1,799	-0.4	4
2023	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2023	-12	-350	0	-362	-0.1	0
Explanation: Transfer facility security upgrade costs from Gas Transmission Storage to Facilities						
2023 Total	-12	-350	0	-362	-0.1	4
2024	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2024	-37	-1,978	0	-2,016	-0.3	0
Explanation: Transfer facility security upgrade costs from Gas Transmission Storage to Facilities						
2024 Total	-37	-1,978	0	-2,016	-0.3	4
2025	-28	153	0	125	-0.2	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Transfer facility security upgrade costs from Gas Transmission Storage to Facilities						
2025	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2025 Total	-28	153	0	125	-0.2	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004090**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00410.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 004090 - GS Auxiliary Equipment
Workpaper Detail: 004090.001 - Auxiliary Equipment
Unit Measure: Storage Fields

In-Service Date: Not Applicable

Description:

Auxiliary Equipment

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	3,226	3,880	4,704	4,162	3,162	2,982
Non-Labor	46,420	55,371	81,296	76,586	61,654	61,676
NSE	0	0	0	0	0	0
Total	49,646	59,251	86,000	80,748	64,816	64,658
FTE	23.0	28.4	32.6	28.3	21.1	19.4
Units	4	4	4	4	4	4

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004090

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

WP #:

004090

Worksheet Name:

GS Auxiliary Equipment

Zero-Based Forecast

Table 1: WP 004090 - GS Auxiliary Equipment

The adjacent table 1 to the right is the aggregate total of the GS Purification Equipment workpaper. The tables below present the GS Auxiliary Equipment capital forecast, organized by four storage fields-Aliso Canyon, Goleta, Honor Rancho, and Playa Del Rey-as well as storage-wide programs. This includes over 150 projects. Project costs vary widely based on scope and complexity, ranging from thousands to millions of dollars. Project forecasts are in various stages of development, including planning, construction, and closeout. Although this supplemental workpaper identifies a subset of projects currently planned for the 2026-2031, project scope, timing, and priority may change as asset conditions, system needs, or other information evolve. Projects may be added or reprioritized to promote the continued safety, reliability, and affordability of Gas Storage Operations.

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	3,226	46,420	-	49,646	23.0	4
2027	3,880	55,371	-	59,251	28.4	4
2028	4,704	81,296	-	86,000	32.6	4
2029	4,162	76,586	-	80,748	28.3	4
2030	3,162	61,654	-	64,816	21.1	4
2031	2,982	61,676	-	64,658	19.4	4

Table 2: Sub Forecast for: WP 004090 - GS Auxiliary Equipment - Aliso Canyon

This table (Table 2) identifies the capital forecast for GS Compressor Stations – Aliso Canyon (AC).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,097	15,784	-	16,881	7.8	1
2027	1,513	21,593	-	23,106	11.1	1
2028	2,412	41,684	-	44,095	16.7	1
2029	2,249	41,390	-	43,639	15.3	1
2030	2,155	42,027	-	44,183	14.4	1
2031	2,249	46,521	-	48,770	14.7	1

004090 - GS Auxiliary Equipment - Aliso Canyon Projects

Projects described below are representative of activities within this workpaper at Aliso Canyon.
Motor Control Center Upgrade (MCCU): This project is to replace the existing overloaded MCC 2A/2B with new fully enclosed MCC equipment and enclosure, which provide power to the Main Station, including the KVS compressors, Dehy-1, and Dehy-2. Project scope includes the redesign and installation of new conduit and conductor pathways to serve connected loads, as well as the removal of existing MCC components and conduits identified as no longer required. This upgrade is required due to obsolescence of the existing system, the unavailability of spare parts resulting from manufacturer discontinued support, limitations that prevent the existing MCCs from communicating with facility systems, and expansion at the Main Station that has led to overloaded conditions. Additionally, the existing system cannot interface with the plant SCADA using current technology, limiting real-time monitoring, diagnostics, and overall operational awareness. As the sole source of power for critical facilities, this lack of redundancy creates a single point of failure, increasing the risk of widespread outages, disrupting operation continuity, and posing potential safety concerns during equipment failures or maintenance activities. This project is driven by compliance with the California Code of Regulations, California Electrical Code Title 24 Part 3, and Cal/OSHA Electrical Title 8 (Electrical Safety Orders).
Freshwater Tanks Tank-5 (T-5) & Tank-6 (T-6) Replacement: This project is to replace the existing freshwater tanks, T-5 and T-6, required to maintain reliable utility water storage capacity and to address aging infrastructure which could create safety, environmental, and operational risks. Adequate and reliable utility water storage is necessary to support safe facility operations, maintenance activities, and emergency response capabilities, and to comply with Cal/OSHA Title 8 requirements, including §3203 (Injury and Illness Prevention Program), and §3328 (Machinery and Equipment).
Other projects: AC - Field Source Power Upgrade, AC - Wastewater Disposal Line Repair

Table 3: Sub Forecast for: WP 004090 - GS Auxiliary Equipment - Goleta

This table (Table 3) identifies the capital forecast for GS Compressor Stations – La Goleta (LG).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	534	7,680	-	8,213	3.8	1
2027	1,017	14,513	-	15,530	7.4	1
2028	1,513	26,148	-	27,661	10.5	1
2029	593	10,916	-	11,509	4.0	1
2030	290	5,659	-	5,949	1.9	1
2031	374	7,739	-	8,113	2.4	1

004090 - GS Auxiliary Equipment - Goleta Projects

Projects described below are representative of activities within this workpaper at La Goleta.
Overhead Electrical Feeder Power System Upgrade: This project will convert one of the existing overhead electrical feeders at the Todd wellsite to an underground system, in adherence with CPUC General Order 95. The affected line will be installed underground in accordance with CPUC General Order 128 underground-construction standards. The upgrade also aligns with NEC/NFPA 70 and NESC safety principles for conductor spacing and ignition-source prevention in industrial environments. In addition, the aging wooden poles in the Atascadero Creek area will be replaced with composite poles, matching the materials used elsewhere at the Goleta Storage Field to improve structural reliability and long-term resilience. This project restores electrical-safety compliance and provides reliable power delivery to critical wellsite systems.
Atascadero Creek Bridge Installation: The Goleta Storage Station is divided by Atascadero Creek, separating the Miller Sites from the main plant and field offices. This project is to install a new bridge, restoring direct access for UTVs, fleet pickups, personal vehicles, and pedestrians. Currently, access relies on a narrow Highway 217 tunnel, which accommodates only UTVs, light trucks, and small equipment. The bridge will reduce travel time, improve operational efficiency, and provide a vital secondary emergency escape route for personnel working on both sides of the facility. Additionally, the bridge will include electrical and communications conduits, as SoCalGas is consolidating power into a single service from Southern California Edison (SCE), which connects at the plant. The proposed bridge will serve to provide a permanent electrical and communications conduit crossing for updated electrical service to the Miller well sites. Previous scope for this project was for supplemental topological surveys, preliminary engineering work, and environmental permitting while this phase of the project is for installation and construction of the new bridge.
New Operation Building: This project will construct a new Operator's Office that meets current industrial, safety, and workplace standards outlined in OSHA 29 CFR 1910 Subpart E and Cal/OSHA Title 8. The existing office, built in the 1950s, no longer satisfies modern requirements for ventilation, ergonomics, accessibility, emergency egress, or essential workspace conditions. Replacing the current structure will improve operator safety, provide a functional environment that supports daily operational activities, enhance reliability, and align the facility with current corporate and regulatory expectations.
Other projects: LG - More Ranch Road

Table 4: Sub Forecast for: WP 004090 - GS Auxiliary Equipment - Honor Rancho

This table (Table 4) outlines the capital forecast for GS Compressor Stations – Honor Rancho (HR).

Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
2026	1,354	19,477	-	20,830	9.7	1
2027	712	10,168	-	10,880	5.2	1
2028	630	10,892	-	11,522	4.4	1
2029	592	10,902	-	11,495	4.0	1
2030	231	4,508	-	4,739	1.5	1
2031	9	192	-	202	0.1	1

004090 - GS Auxiliary Equipment - Honor Rancho Projects

Projects described below are representative of activities within this workpaper at Honor Rancho.
Electrical System Upgrade: This project is to plan, engineer, design, procure and install four (4) new Power Distribution Centers (PDC) at the Hillside, Dehy, Tank Farm, and Plant 1, replacing the existing MCCs to modernize and upgrade the HR Main Plant electrical distribution system. This includes a new 16KV Edison service being installed at the Hillside PDC to strengthen the Station's power source. The existing electrical system lacks modern safety design features and a robust architecture needed to support reliable and resilient operations. Upgrading the system will improve personnel and equipment safety, reduce the risk of failures, and enhance overall system reliability. In addition, the upgraded system will enable full integration with the existing SCADA platform, allowing centralized monitoring and control of all electrical and instrumentation to support safer, more efficient operations. These upgrades will support and maintain critical Station loads required for continuous operations and uninterrupted monitoring capabilities.
Fill Site and Slope Stability Upgrade: This project involves the critical pre-construction preparation, engineering oversight, and ongoing geotechnical monitoring of mass grading activities at the Honor Rancho Natural Gas Storage Facility. Work associated with this project will meet California's geotechnical engineering standards, guaranteeing long-term slope stability, erosion control, and safe load-bearing capacity for major structures.
Other example projects: HR - Telemetry Room Upgrade, HR - Fire Foam System Upgrade

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Table 5: Sub Forecast for: WP 004090 - GS Auxiliary Equipment - Playa del Rey

This table (Table 5) outlines the capital forecast for GS Compressor Stations – Playa Del Rey (PDR).	Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
	2026	230	3,314	-	3,544	1.6	1
	2027	532	7,597	-	8,129	3.9	1
	2028	83	1,431	-	1,514	0.6	1
	2029	555	10,221	-	10,777	3.8	1
	2030	334	6,522	-	6,856	2.2	1
	2031	304	6,297	-	6,601	2.0	1

004090 - GS Auxiliary Equipment - Playa del Rey Projects

Projects described below are representative of activities within this workpaper at Playa del Rey.

Electrical Power System Upgrade: The purpose of this project is to perform an electrical reliability assessment of the standby backup power system and based on assessment results, to engineer, design, and upgrade the electrical system to improve safety, reliability, and operational performance. This work includes upgrading the existing station electrical infrastructure with the installation of a new 5 kV feeder to tie power between the lower and upper facilities, providing redundancy and to support the current and future load demand of the station. When a LADIWP power outage occurs, the station's standby generator cannot support the dehydration processes and other critical loads, requiring towable generators to be rented to supplement the standby generator. In addition, a new Power Distribution Center (PDC) building will be installed in the upper facility, which will serve as the primary source of power for all existing equipment in the area, improving power availability, simplifying distribution, and supporting future operational needs. Upgrades will improve overall reliability, resiliency, and operational flexibility, modernizing the power distribution system and reduce single-point failure risks.

Lower Field Water System Upgrade: This project is to replace the existing underground fire water system, that is currently cast iron, with a properly configured buried HDPE (High-density Polyethylene) pipeline to adhere with LA City Fire Department Code. The project scope consists of engineering, design, procurement, installation commissioning, and permitting. Upgrades to the lower facility system will improve the protection of personnel and property.

Other projects: *PDR - Turbo Expander, PDR - Operations Building Upgrade*

Table 6: Sub Forecast for: WP 004090 - GS Auxiliary Equipment - Storage Wide (4 Fields) Programs & Projects

Table 5 outlines the capital forecast for GS Auxiliary Equipment – Storage-wide programs. These programs represent 3% of the overall forecast from 2026 to 2031. These programs include new remote operations offices, work station upgrades, enhancing control systems, and vibration monitoring equipment across all four storage fields.	Year	Forecast Labor	Forecast Non-Labor	NSE	Total Labor and Non-Labor	Forecast FTE	Unit (Storage Fields)
	2026	12	166	-	177	0.1	1
	2027	105	1,500	-	1,605	0.8	1
	2028	66	1,141	-	1,207	0.5	1
	2029	172	3,157	-	3,329	1.2	1
	2030	151	2,938	-	3,089	1.0	1
	2031	45	928	-	973	0.3	1

**Beginning of Workpaper Group
007080 - GS Capital Tools**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	5-YR Average	-1	0	0	0	0	0	0	0	0	0	0
Non-Labor	5-YR Average	238	166	202	108	227	188	188	188	188	188	188
NSE	5-YR Average	0	0	0	0	0	0	0	0	0	0	0
Total		238	166	202	109	227	188	188	188	188	188	188
FTE	5-YR Average	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Units	5-YR Average	4	4	4	4	4	4	4	4	4	4	4

Business Purpose:

The GS Capital Tools for storage fields support miscellaneous tools necessary to maintain , replace, relocate, and upgrade critical systems across the storage facilities. These tools and components are essential for ensuring operational reliability, compliance with regulatory standards, and the continued integrity of gas storage infrastructure.

Physical Description:

The GS Capital Tools Workpaper for storage fields encompasses essential components required for overall system reliability . These components include nipples, couplings, valves, flanges, fittings, gaskets, studs, bolts, clamps, and other small hardware used for assembling and modifying piping and wellhead connections. Additional items may include instrumentation fittings, pressure gauges, and electrical hardware necessary for monitoring and control functions. These tools are critical for integrating new equipment and ensuring compliance with regulatory standards, while maintaining operational integrity across all storage facilities.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

These tools and components are essential for ensuring operational reliability, compliance with regulatory standards, and the continued integrity of gas storage infrastructure.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Forecast Methodology:

Labor - 5-YR Average

The forecast method developed for GS Capital Tools uses a five-year average based on historical data from 2021 through 2025. This approach is appropriate because capital tool requirements vary from year to year depending on condition-based replacements, and the introduction of new tools to support evolving field work. The historical 5-year spending pattern captures this variability and reflects the recurring, but non-uniform nature of capital tool needs.

Non-Labor - 5-YR Average

The forecast method developed for GS Capital Tools uses a five-year average based on historical data from 2021 through 2025. This approach is appropriate because capital tool requirements vary from year to year depending on condition-based replacements, and the introduction of new tools to support evolving field work. The historical 5-year spending pattern captures this variability and reflects the recurring, but non-uniform nature of capital tool needs.

NSE - 5-YR Average

Not Applicable

Units - 5-YR Average

The GS Compressor Stations Workpaper utilizes storage facilities as the unit of measure . All activities described within this workpaper are performed across four facilities: Aliso Canyon, Honor Rancho, La Goleta, and Playa del Rey.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group 007080 - GS Capital Tools
Unit Measure: Storage Fields

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NLbr	188	188	188	188	188	188	0	0	0	0	0	0	188	188	188	188	188	188
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	188	188	188	188	188	188	0	0	0	0	0	0	188	188	188	188	188	188
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	0.0	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4	4	0	0	0	0	0	0	4	4	4	4	4	4

Forecast Adjustment Details

Year	Labor (5-YR Average)	NLbr (5-YR Average)	NSE (5-YR Average)	Total	FTE	Units (5-YR Average)
2026 Total	0	0	0	0	0.0	0
2027 Total	0	0	0	0	0.0	0
2028 Total	0	0	0	0	0.0	0
2029 Total	0	0	0	0	0.0	0
2030 Total	0	0	0	0	0.0	0
2031 Total	0	0	0	0	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	0	0	0	0	0
Non-Labor	169	137	193	105	227
NSE	0	0	0	0	0
Total	169	137	193	105	227
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4
Recorded-Adjusted (Nominal \$)					
Labor	0	0	0	0	0
Non-Labor	169	137	193	105	227
NSE	0	0	0	0	0
Total	169	137	193	105	227
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4
Vacation & Sick (Nominal \$)					
Labor	0	0	0	0	0

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
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
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	0	0	0	0	0
Non-Labor	69	29	9	4	0
NSE	0	0	0	0	0
Total	69	29	9	4	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	-1	0	0	0	0
Non-Labor	238	166	202	108	227
NSE	0	0	0	0	0
Total	238	166	202	109	227
FTE	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	4	4	4	4	4

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2021 Total	0	0	0	0	0.0	4
2022	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2022 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Unit Measure: Storage Fields

Year	Labor	NLbr	NSE	Total	FTE	Units
2023	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2023 Total	0	0	0	0	0.0	4
2024	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2024 Total	0	0	0	0	0.0	4
2025	0	0	0	0	0.0	4
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	4

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 007080**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00738.0
Category: C. Aboveground Storage
Category-Sub: 1. Aboveground Storage
Workpaper Group: 007080 - GS Capital Tools
Workpaper Detail: 007080.001 - GS Capital Tools
Unit Measure: Storage Fields

In-Service Date: Not Applicable

Description:

GS Capital Tools

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	0	0	0	0	0	0
Non-Labor	188	188	188	188	188	188
NSE	0	0	0	0	0	0
Total	188	188	188	188	188	188
FTE	0.0	0.0	0.0	0.0	0.0	0.0
Units	4	4	4	4	4	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: D. Underground Storage
Workpaper: 004020

Summary for Category: D. Underground Storage

	In 2025\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
Labor	1,556	1,614	1,600	1,592	1,590	1,590	1,590
Non-Labor	36,007	42,161	48,719	68,828	75,867	83,609	92,126
NSE	0	0	0	0	0	0	0
Total	37,563	43,775	50,319	70,420	77,457	85,199	93,716
FTE	10.2	10.2	10.2	10.2	10.2	10.2	10.2

Workpapers belonging to this Category:

004020 GS Wells

Labor	1,556	1,614	1,600	1,592	1,590	1,590	1,590
Non-Labor	36,007	42,161	48,719	68,828	75,867	83,609	92,126
NSE	0	0	0	0	0	0	0
Total	37,563	43,775	50,319	70,420	77,457	85,199	93,716
FTE	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Unit Measure: Wells							
Units	18	18	19	26	23	27	25

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
004020 - GS Wells**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	1,420	1,766	1,089	1,764	1,556	1,614	1,600	1,592	1,590	1,590	1,590
Non-Labor	Zero-Based	113,258	112,678	59,310	58,512	36,007	42,161	48,719	68,828	75,867	83,609	92,126
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		114,677	114,443	60,398	60,276	37,562	43,775	50,319	70,420	77,457	85,199	93,716
FTE	Zero-Based	7.1	10.4	6.9	11.3	10.2	10.2	10.2	10.2	10.2	10.2	10.2
Units	Zero-Based	0	0	0	0	18	18	19	26	23	27	25

Business Purpose:

The forecasts for GS Wells support the replacement, drilling, completion, workover, and abandonment of wells used for the injection and withdrawal of natural gas to ultimately support the integrated Gas transmission and Storage Operations. The underground storage fields are managed in accordance with state and federal regulations.

Physical Description:

Capital activities include drilling new wells, abandonments and a variety of remediations such as replacement packer and/or pump replacement, installation or repair of innerstring, casing repairs and chemical treatment of wells for increased performance.

Project Justification:

Replacements and repairs are necessary on well equipment. If work is not performed, the impact may lead to wells which must be isolated and taken out of service for various conditions including wellhead upgrades, damaged liners, production equipment replacement, production of reservoir

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

sand, or fluid encroachment in to storage reservoir, leading to a diminished number of wells available for withdrawal. SoCalGas plans to abandon wells with high operating costs and low or declining productivity. In addition, some abandonments involve removing wells and their associated operations from environmentally sensitive areas or locations outside the storage field fencelines.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for GS Wells is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For example, the number of new wells can vary each year depending on the analysis of the need to maintain each storage field's injection /withdrawal capacity, which has been reduced by abandonments and the encroachment of water into the gas storage zone. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented Gas Storage Well conditions and applicable regulatory requirements . A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for GS Wells is zero-based. SoCalGas evaluated historical expenditures from 2021 through 2025 and considered available information on planned future projects. A zero-based approach was selected as the most appropriate forecasting method based on the projects currently identified, while recognizing that additional activities may emerge over the forecast period. For example, the number of new wells can vary each year depending on the analysis of the need to maintain each storage field's injection /withdrawal capacity, which has been reduced by abandonments and the encroachment of water into the gas storage zone. This approach provides the best estimate of anticipated workload by directly aligning projected expenditures with documented Gas Storage Well conditions and applicable regulatory requirements .

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

Units are measured by the number of wells replaced, abandoned, or remediated through workover activities.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,556	1,556	1,556	1,556	1,556	1,556	58	44	36	34	34	34	1,614	1,600	1,592	1,590	1,590	1,590
NLbr	42,161	48,719	68,828	75,867	83,609	92,126	0	0	0	0	0	0	42,161	48,719	68,828	75,867	83,609	92,126
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	43,717	50,275	70,384	77,423	85,165	93,682	58	44	36	34	34	34	43,775	50,319	70,420	77,457	85,199	93,716
FTE	10.2	10.2	10.2	10.2	10.2	10.2	0.0	0.0	0.0	0.0	0.0	0.0	10.2	10.2	10.2	10.2	10.2	10.2
Units	18	19	26	23	27	25	0	0	0	0	0	0	18	19	26	23	27	25

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	58	0	0	58	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	58	0	0	58	0.0	0
2027	44	0	0	44	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	44	0	0	44	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	36	0	0	36	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	36	0	0	36	0.0	0
2029	34	0	0	34	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	34	0	0	34	0.0	0
2030	34	0	0	34	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	34	0	0	34	0.0	0
2031	34	0	0	34	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	34	0	0	34	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	849	1,236	889	1,456	1,322
Non-Labor	79,722	92,216	56,148	56,048	36,007
NSE	0	0	0	0	0
Total	80,572	93,452	57,038	57,505	37,329
FTE	6.0	8.8	5.9	9.6	8.6
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	18
Recorded-Adjusted (Nominal \$)					
Labor	849	1,236	889	1,456	1,322
Non-Labor	79,722	92,216	56,148	56,048	36,007
NSE	0	0	0	0	0
Total	80,572	93,452	57,038	57,505	37,329
FTE	6.0	8.8	5.9	9.6	8.6
Units	0	0	0	0	18
Vacation & Sick (Nominal \$)					
Labor	150	209	141	234	234

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	150	209	141	234	234
FTE	1.1	1.6	1.0	1.7	1.6
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	420	321	58	74	0
Non-Labor	33,536	20,462	3,161	2,463	0
NSE	0	0	0	0	0
Total	33,956	20,783	3,219	2,538	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	1,420	1,766	1,089	1,764	1,556
Non-Labor	113,258	112,678	59,310	58,512	36,007
NSE	0	0	0	0	0
Total	114,677	114,443	60,398	60,276	37,562
FTE	7.1	10.4	6.9	11.3	10.2
Units	0	0	0	0	18

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	0	0	0	0	18

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	0	0	0	0	0.0	0
2022 Total	0	0	0	0	0.0	0
2023 Total	0	0	0	0	0.0	0
2024 Total	0	0	0	0	0.0	0
2025	0	0	0	0	0.0	18

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Unit Measure: Wells

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	18

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004020**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Workpaper Detail: 004020.001 - GS Wells - New Wells
Unit Measure: Wells

In-Service Date: Not Applicable

Description:

GS Wells - New Wells

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	901	597	607	976	840	1,018
Non-Labor	23,537	18,145	26,220	46,543	44,178	59,004
NSE	0	0	0	0	0	0
Total	24,438	18,742	26,827	47,519	45,018	60,022
FTE	5.7	3.8	3.9	6.3	5.4	6.5
Units	4	3	4	5	3	4

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Workpaper Detail: 004020.002 - Well Abandonments
Unit Measure: Wells

In-Service Date: Not Applicable

Description:

Well Abandonments

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	376	557	501	237	271	217
Non-Labor	9,823	16,983	21,671	11,315	14,256	12,523
NSE	0	0	0	0	0	0
Total	10,199	17,540	22,172	11,552	14,527	12,740
FTE	2.4	3.6	3.2	1.5	1.7	1.4
Units	4	5	7	3	4	3

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00412.0
Category: D. Underground Storage
Category-Sub: 1. Underground Storage
Workpaper Group: 004020 - GS Wells
Workpaper Detail: 004020.003 - Well Workovers
Unit Measure: Wells

In-Service Date: Not Applicable

Description:

Well Workovers

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	337	446	484	377	479	355
Non-Labor	8,801	13,591	20,937	18,009	25,175	20,599
NSE	0	0	0	0	0	0
Total	9,138	14,037	21,421	18,386	25,654	20,954
FTE	2.1	2.8	3.1	2.4	3.1	2.3
Units	10	11	15	15	20	18

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004020

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

UGS Capital - Zero Based						
Table 1: UGS Capital Forecast (Dollars In Thousands, 000)(Direct\$)						
Year	Description	Unit Measure: Wells	Labor	Non-labor	Total	FTE
2026 Forecast	New Wells	4	\$868	\$23,557	\$24,425	5.7
	Well Abandonments	4	\$363	\$9,842	\$10,205	2.4
	Workovers	10	\$325	\$8,820	\$9,145	2.1
	Total	18	\$1,556	\$42,219	\$43,775	10.2
2027 Forecast	New Wells	3	\$579	\$18,161	\$18,740	3.79
	Well Abandonments	5	\$542	\$16,998	\$17,540	3.54
	Workovers	11	\$434	\$13,605	\$14,039	2.84
	Total	19	\$1,556	\$48,763	\$50,319	10.2
2028 Forecast	New Wells	4	\$593	\$26,232	\$26,825	3.87
	Well Abandonments	7	\$490	\$21,683	\$22,173	3.20
	Workovers	15	\$473	\$20,949	\$21,422	3.09
	Total	26	\$1,556	\$68,864	\$70,420	10.2
2029 Forecast	New Wells	5	\$954	\$46,556	\$47,510	6.24
	Well Abandonments	3	\$232	\$11,326	\$11,558	1.52
	Workovers	15	\$369	\$18,020	\$18,389	2.41
	Total	23	\$1,556	\$75,901	\$77,457	10.2
2030 Forecast	New Wells	3	\$822	\$44,190	\$45,012	5.4
	Well Abandonments	4	\$265	\$14,267	\$14,532	1.7
	Workovers	20	\$469	\$25,186	\$25,655	3.1
	Total	27	\$1,556	\$83,643	\$85,199	10.2
2031 Forecast	New Wells	4	\$996	\$59,016	\$60,012	6.5
	Well Abandonments	3	\$212	\$12,534	\$12,746	1.4
	Workovers	18	\$348	\$20,610	\$20,958	2.3
	Total	25	\$1,556	\$92,160	\$93,716	10.2
2026-2031 Total			\$9,336	\$411,550	\$420,886	61.0
Notes:						
1 - The forecasts shown in the table above represent the UGS Capital projections included in the Direct Testimony and Workpapers of Gas Transmission and Storage Operations						
2 - The UGS Capital Forecast is zero-based. Amounts shown are in Direct dollars (in thousands, 000) and include vacation and sick (V&S)						
3 - The forecast is based on the average costs of new wells, abandonments, and workovers for each storage field.						
4 - The forecasts includes the cost to perform workovers which include: wellhead upgrades, damaged liners, replace prodeuction equipment, replace failure of artifical lift equipment in fluid removal wells.						
AC: Aliso Canyon, HR: Honor Rancho, LG: LaGoleta, PDR: Playa Del Rey						

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Category: E. SIMP
Workpaper: 004410

Summary for Category: E. SIMP

	In 2025\$ (000) Incurred Costs						
	Adjusted-Recorded	Adjusted-Forecast					
	2025	2026	2027	2028	2029	2030	2031
Labor	1,950	2,022	2,005	1,996	1,993	1,992	1,992
Non-Labor	34,357	54,260	57,725	87,346	79,058	79,501	72,798
NSE	0	0	0	0	0	0	0
Total	36,307	56,282	59,730	89,342	81,051	81,493	74,790
FTE	11.8	11.8	11.8	11.8	11.8	11.8	11.8

Workpapers belonging to this Category:

004410 SIMP Execution

Labor	1,950	2,022	2,005	1,996	1,993	1,992	1,992
Non-Labor	34,357	54,260	57,725	87,346	79,058	79,501	72,798
NSE	0	0	0	0	0	0	0
Total	36,307	56,282	59,730	89,342	81,051	81,493	74,790
FTE	11.8	11.8	11.8	11.8	11.8	11.8	11.8
Unit Measure: Wells							
Units	19	25	30	44	45	48	26

Note: Totals may include rounding differences.

**Beginning of Workpaper Group
004410 - SIMP Execution**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Summary of Results (Constant 2025 \$ in 000s):

Forecast Method		Adjusted Recorded					Adjusted Forecast					
Years		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Labor	Zero-Based	2,403	1,865	2,525	1,638	1,950	2,022	2,005	1,996	1,993	1,992	1,992
Non-Labor	Zero-Based	121,492	70,943	61,199	35,757	34,357	54,260	57,725	87,346	79,058	79,501	72,798
NSE	Zero-Based	0	0	0	0	0	0	0	0	0	0	0
Total		123,895	72,808	63,723	37,395	36,307	56,282	59,730	89,342	81,051	81,493	74,790
FTE	Zero-Based	12.5	11.1	16.4	10.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
Units	Zero-Based	0	0	0	0	19	25	30	44	45	48	26

Business Purpose:

The SIMP is a compliance program applied to SoCalGas Storage fields and managed in accordance with state and federal regulations.

Physical Description:

Capital activities include well integrity assessments, remediations, and abandonments. Integrity inspections of gas storage wells, including wellheads and completion assemblies, is done to assess the pressure-containing capability of the well, detect potential leaks, and identify metal-loss features in tubing and casing. Integrity assessments can result in remediation activities that reduce the risk of failure during operations. These remediation activities may include replacing the wellhead, replacing wellhead valves, replacing the tubing and packer, casing expansions, installing a new inner casing string, replacing the production liner, installing subsurface safety valves, and re-drilling. SoCalGas may abandon an injection/withdrawal well rather than continue using it for gas storage operations due to integrity considerations and risk reduction.

Project Justification:

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Integrity assessments must be performed on each gas storage well every two years, unless CalGEM grants an extension of up to seven years in accordance with regulatory requirements. Additionally, well abandonment and remediation activities are essential to preserving the integrity and safety of SoCalGas storage fields.

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Forecast Methodology:

Labor - Zero-Based

The forecast method developed for capital SIMP Execution is zero-based. This approach is appropriate because historical data, including the base year, is not representative of future forecasted activity due to extensions approved by CalGEM for well integrity assessments and real-time surveillance data requirements. SoCalGas has been receiving well assessment extensions of up to seven years, in lieu of CalGEM's standard two-year well assessment requirement. These mandated assessment intervals and granted extensions enable the Company to forecast the timing and volume of assessments, as well as associated remediation and abandonment activities, and to incorporate these forecasts into future planning. A small incremental adjustment was made starting in 2026 to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20

Non-Labor - Zero-Based

The forecast method developed for capital SIMP Execution is zero-based. This approach is appropriate because historical data, including the base year, is not representative of future forecasted activity due to extensions approved by CalGEM for well integrity assessments and real-time surveillance data requirements. SoCalGas has been receiving well assessment extensions of up to seven years, in lieu of CalGEM's standard two-year well assessment requirement. These mandated assessment intervals and granted extensions enable the Company to forecast the timing and volume of assessments, as well as associated remediation and abandonment activities, and to incorporate these forecasts into future planning.

NSE - Zero-Based

Not Applicable.

Units - Zero-Based

The units consist of the number of well integrity assessments, abandonments and remediation activities.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Summary of Adjustments to Forecast:

In 2025 \$ (000)																		
	Base Forecast						Forecast Adjustments						Adjusted-Forecast					
Years	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031	2026	2027	2028	2029	2030	2031
Labor	1,950	1,950	1,950	1,950	1,950	1,950	72	55	46	43	42	42	2,022	2,005	1,996	1,993	1,992	1,992
NLbr	54,260	57,725	87,346	79,058	79,501	72,798	0	0	0	0	0	0	54,260	57,725	87,346	79,058	79,501	72,798
NSE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	56,210	59,675	89,296	81,008	81,451	74,748	72	55	46	43	42	42	56,282	59,730	89,342	81,051	81,493	74,790
FTE	11.8	11.8	11.8	11.8	11.8	11.8	0.0	0.0	0.0	0.0	0.0	0.0	11.8	11.8	11.8	11.8	11.8	11.8
Units	25	30	44	45	48	26	0	0	0	0	0	0	25	30	44	45	48	26

Forecast Adjustment Details:

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2026	72	0	0	72	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2026 Total	72	0	0	72	0.0	0
2027	55	0	0	55	0.0	0
Explanation:	Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.					
2027 Total	55	0	0	55	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Year	Labor (Zero-Based)	NLbr (Zero-Based)	NSE (Zero-Based)	Total	FTE	Units (Zero-Based)
2028	46	0	0	46	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2028 Total	46	0	0	46	0.0	0
2029	43	0	0	43	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2029 Total	43	0	0	43	0.0	0
2030	42	0	0	42	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2030 Total	42	0	0	42	0.0	0
2031	42	0	0	42	0.0	0
Explanation: Reflects changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						
2031 Total	42	0	0	42	0.0	0

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Recorded (Nominal \$)*					
Labor	1,438	1,306	2,062	1,352	1,657
Non-Labor	85,518	58,060	57,937	34,252	34,357
NSE	0	0	0	0	0
Total	86,956	59,366	59,999	35,604	36,014
FTE	10.5	9.4	14.0	9.2	9.9
Units	0	0	0	0	0
Adjustments (Nominal \$) **					
Labor	0	0	0	0	0
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	0	0	0	0	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	19
Recorded-Adjusted (Nominal \$)					
Labor	1,438	1,306	2,062	1,352	1,657
Non-Labor	85,518	58,060	57,937	34,252	34,357
NSE	0	0	0	0	0
Total	86,956	59,366	59,999	35,604	36,014
FTE	10.5	9.4	14.0	9.2	9.9
Units	0	0	0	0	19
Vacation & Sick (Nominal \$)					
Labor	254	220	328	217	293

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Determination of Adjusted-Recorded (in thousands):

	2021	2022	2023	2024	2025
Non-Labor	0	0	0	0	0
NSE	0	0	0	0	0
Total	254	220	328	217	293
FTE	2.0	1.7	2.4	1.6	1.9
Units	0	0	0	0	0
Escalation to 2025\$					
Labor	712	339	135	69	0
Non-Labor	35,974	12,883	3,262	1,505	0
NSE	0	0	0	0	0
Total	36,685	13,222	3,396	1,574	0
FTE	0.0	0.0	0.0	0.0	0.0
Units	0	0	0	0	0
Recorded-Adjusted (Constant 2025\$)					
Labor	2,403	1,865	2,525	1,638	1,950
Non-Labor	121,492	70,943	61,199	35,757	34,357
NSE	0	0	0	0	0
Total	123,895	72,808	63,723	37,395	36,307
FTE	12.5	11.1	16.4	10.8	11.8
Units	0	0	0	0	19

* 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: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Summary of Adjustments to Recorded:

In Nominal \$(000)					
Years	2021	2022	2023	2024	2025
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
Units	0	0	0	0	19

Detail of Adjustments to Recorded in Nominal \$:

Year	Labor	NLbr	NSE	Total	FTE	Units
2021 Total	0	0	0	0	0.0	0
2022 Total	0	0	0	0	0.0	0
2023 Total	0	0	0	0	0.0	0
2024 Total	0	0	0	0	0.0	0
2025	0	0	0	0	0.0	19

Note: Totals may include rounding differences.

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Unit Measure: Wells

Year	Labor	NLbr	NSE	Total	FTE	Units
Explanation: Unit Alignment						
2025 Total	0	0	0	0	0.0	19

Note: Totals may include rounding differences.

**Beginning of Workpaper Sub Details for
Workpaper Group 004410**

Area: GAS TRANSMISSION & STORAGE
Witness: Gina Orozco
Budget Code: 00441.0
Category: E. SIMP
Category-Sub: 1. SIMP
Workpaper Group: 004410 - SIMP Execution
Workpaper Detail: 004410.001 - SIMP execution
Unit Measure: Wells

In-Service Date: Not Applicable

Description:

SIMP execution

Forecast In 2025 \$(000)

Years	2026	2027	2028	2029	2030	2031
Labor	2,022	2,005	1,996	1,993	1,992	1,992
Non-Labor	54,260	57,725	87,346	79,058	79,501	72,798
NSE	0	0	0	0	0	0
Total	56,282	59,730	89,342	81,051	81,493	74,790
FTE	11.8	11.8	11.8	11.8	11.8	11.8
Units	25	30	44	45	48	26

Note: Totals may include rounding differences.

Supplemental Workpapers for Workpaper Group 004410

Southern California Gas Company
2028 GRC - REVISED
Capital Workpapers

SIMP Execution Capital - Zero Based						
Table 1: SIMP Capital Forecast (Dollars In Thousands, 000)						
Year	Description	Unit Measure: Wells	Labor	Non-labor	Total	FTE
2026 Forecast	Well integrity assessments	11	\$643	\$17,229	\$17,872	3.8
	Well Abandonments	2	\$389	\$10,135	\$10,524	2.2
	Remediations	12	\$990	\$26,896	\$27,886	5.9
	Total	25	\$2,022	\$54,260	\$56,282	11.8
2027 Forecast	Well integrity assessments	18	\$999	\$28,756	\$29,755	5.9
	Well Abandonments	0	\$0	\$0	\$0	0.0
	Remediations	12	\$1,006	\$28,969	\$29,975	5.9
	Total	30	\$2,005	\$57,725	\$59,730	11.8
2028 Forecast	Well integrity assessments	32	\$1,133	\$50,030	\$51,163	6.8
	Well Abandonments	4	\$321	\$13,659	\$13,981	1.8
	Remediations	8	\$543	\$23,656	\$24,199	3.2
	Total	44	\$1,997	\$87,345	\$89,342	11.8
2029 Forecast	Well integrity assessments	30	\$1,145	\$45,811	\$46,956	6.8
	Well Abandonments	4	\$350	\$13,628	\$13,979	2.1
	Remediations	11	\$498	\$19,619	\$20,117	2.9
	Total	45	\$1,993	\$79,058	\$81,051	11.8
2030 Forecast	Well integrity assessments	40	\$1,493	\$60,329	\$61,822	9.0
	Well Abandonments	3	\$266	\$10,279	\$10,545	1.5
	Remediations	5	\$232	\$8,893	\$9,125	1.3
	Total	48	\$1,992	\$79,501	\$81,493	11.8
2031 Forecast	Well integrity assessments	11	\$468	\$16,955	\$17,423	2.8
	Well Abandonments	5	\$445	\$16,080	\$16,525	2.6
	Remediations	10	\$1,079	\$39,763	\$40,842	6.4
	Total	26	\$1,992	\$72,798	\$74,790	11.8
2026-2031 Total			\$12,001	\$430,688	\$442,689	
Notes:						
1 - The forecasts shown in the table above represent the SIMP Capital projections included in the Direct Testimony and Workpapers of Gas Transmission and Storage Operations.						
2 - The SIMP Capital Forecast is zero-based. Amounts shown are in Direct dollars (in thousands, 000) and include vacation and sick (V&S).						
3 - The forecast is based on the average costs of assessments, abandonments, and remediations for each storage field.						
4 - The forecasts includes the cost to perform well integrity assessments. The number of assessments is based on the mandated inspection intervals as well as anyt extensions approved by CalGEM.						
5 - The forecast includes the costs to abandon wells based on integrity assessment results.						
6 - The forecast includes the costs for well remediations which could include diagnostic loggings, casing expansions, inner string installations, redrills, liner installation, cathodic protection, and other remediation work.						
7 - The variance between the direct costs found in workpapers and the supplemental workpapers supporting 004410 - SIMP EXECUTION are due to a system wide adjustment to reflect changes in connection with the compensation modernization initiative. Please refer to the Compensation and Benefits testimony, Ex. SCG-16/SDGE-20.						