SOUTHERN CALIFORNIA GAS COMPANY

Risk Assessment and Mitigation Phase 2025 Report

Chapter: SCG-Risk-4 Number: SCG-R04-WP

Underground Gas Storage System O&M Workpapers SOUTHERN CALIFORNIA GAS COMPANY

May 15, 2025



2025 Risk Assessment & Mitigation Phase INDEX OF RISK CHAPTER

Risk Chapter 20R04: SCG-RISK-4 UNDERGROUND GAS STORAGE SYSTEM

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Summary of Risk Chapter: 20R04 - SCG-Risk-4 Underground Gas Storage System

| | In 2024 \$ (000s) Incurred Costs | | | | | | | | | | | |
|------------------------|----------------------------------|-------------|--------------|--------------|------------|--------------|--------------|--------|------------|--------|--------|--------|
| | | Adju | sted Reco | rded | | | | Adju | sted Forec | ast | | |
| | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| Control/Mitigation | 26,482 | 23,937 | 21,049 | 22,331 | 20,129 | 23,249 | 22,485 | 24,297 | 23,609 | 24,041 | 24,041 | 24,041 |
| Alternative Mitigation | 0 | 0 | 0 | 0 | 0 | 19,695 | 18,931 | 20,894 | 20,206 | 20,638 | 20,638 | 20,638 |
| Units | See deta | ailed pages | for Units as | s the unit m | easure can | vary for ead | ch mitigatio | ٦. | | | | |

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Note: Totals may include rounding differences.

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Risk Chapter: SCG-Risk-4 Underground Gas Storage System

Risk ID: 20R04

In 2024 \$ (000s) Incurred Costs

| | Mitigation | Unit | | Adju | sted Reco | rded | | | | Adjı | usted Fore | cast | | |
|------|------------------------------|--------------|--------|--------|-----------|--------|--------|--------|--------|--------|------------|--------|--------|--------|
| ID | Name | Measure | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| A402 | SIMP With Installation of Me | No feasible | 0 | 0 | 0 | 0 | 0 | 19,695 | 18,931 | 20,894 | 20,206 | 20,638 | 20,638 | 20,638 |
| C401 | Storage Integrity Manageme | No feasible | 21,578 | 19,288 | 17,774 | 19,356 | 16,646 | 19,392 | 18,628 | 20,440 | 19,752 | 20,184 | 20,184 | 20,184 |
| C408 | Storage Field Maintenance - | Storage Fiel | 4,904 | 4,649 | 3,275 | 2,975 | 3,483 | 3,857 | 3,857 | 3,857 | 3,857 | 3,857 | 3,857 | 3,857 |

Units

| | | Mitigation | Unit | | Adjusted Recorded | | | Adjusted Forecast | | | | | | | |
|---------------|------|------------------------------|--------------|------|-------------------|------|------|-------------------|------|------|------|------|------|------|------|
| | ID | Name | Measure | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| | A402 | SIMP With Installation of Me | No feasible | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F SC | C401 | Storage Integrity Manageme | No feasible | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CG-2C Page | C408 | Storage Field Maintenance - | Storage Fiel | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| ゞ゙゙゙゙゙゙゙゙゙゙ | | | | | | | | | | | | | | | |
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Note: Totals may include rounding differences.

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Supplemental Workpapers

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Supplemental Workpaper 20R04A402

| Table 1: Average O&M Cost Of Inner String Installation And Metal Skin Liners Installation (Dollars In Thousands, 000) | | | | | | | | | |
|---|--------------------------------------|--|-------------------------------|--|--|--|--|--|--|
| Activity | Average Labor Cost Per Unit | | | | | | | | |
| Metal Skin Liners Installation | \$7 \$144 | | | | | | | | |
| Inner String Installation | \$0 \$0 | | | | | | | | |
| Cost difference | \$7 \$144 \$151 | | | | | | | | |
| Notes: | to post of inner string installation | n and metal skin liners installation. Th | a actual cost may you due to | | | | | | |
| | | omplexity, and resource availability. | e actual cost may vary due to | | | | | | |
| 2- The cost of inner string installations is a capital expense and does not include O&M costs. | | | | | | | | | |
| The cost of inner string install. | ations is a capital expense and c | loes not include U&M costs. | | | | | | | |

| Year | Number of Wells Impacted | Labor Cost Impact | Non-Labor Cost Impact | Total Cost Impact |
|-------|--------------------------|-------------------|-----------------------|-------------------|
| 2025 | 2 | \$14 | \$288 | \$30 |
| 2026 | 2 | \$14 | \$288 | \$30 |
| 2027 | 3 | \$21 | \$432 | \$45 |
| 2028 | 3 | \$21 | \$432 | \$45 |
| 2029 | 3 | \$21 | \$432 | \$45 |
| 2030 | 3 | \$21 | \$432 | \$45 |
| 2031 | 3 | \$21 | \$432 | \$45 |
| Total | 19 | \$133 | \$2,736 | \$2,86 |

Truble 2 shows the impact to the SIMP O&M forecast provided in workpaper 20R04C401 if the alternative mitigation is applied.

2- Amounts are in direct dollars (in thousands, 000), and include vacation and sick (V&S).

| | Table 3: SIMP O&M Forecast With The Alternative Mitigation Applied (Dollars in Thousands, 000) | | | | | | | | | |
|--------|--|--------------------------------|-------------------------------|---------------------------|----------------|----------------|---------------------------|---------------------------|--|--|
| | | | | | SIMP Non-Labor | | SIMP Total Non-Labor | Total SIMP O&M | | |
| | | | SIMP Total Labor Forecast If | Total SIMP FTE If The | Forecast | Non-Labor Cost | Forecast If The | Forecast If The | | |
| | SIMP Labor Forecast | | The Alternative Mitigation Is | Alternative Mitigation Is | (Workpaper | Impact From | Alternative Mitigation Is | Alternative Mitigation Is | | |
| Year | (Workpaper 20R04C401) | Labor Cost Impact From Table 2 | Applied | Applied | 20R04C401) | Table 2 | Applied | Applied | | |
| 2025 | \$7,332 | \$14 | \$7,346 | 52.5 | \$12,061 | \$288 | \$12,349 | \$19,695 | | |
| 2026 | \$7,331 | \$14 | \$7,345 | 52.5 | \$11,298 | \$288 | \$11,586 | \$18,931 | | |
| 2027 | \$7,331 | \$21 | \$7,352 | 52.5 | \$13,110 | \$432 | \$13,542 | \$20,894 | | |
| 2028 | \$7,179 | \$21 | \$7,200 | 51.4 | \$12,574 | \$432 | \$13,006 | \$20,206 | | |
| 2029 | \$7,179 | \$21 | \$7,200 | 51.4 | \$13,006 | \$432 | \$13,438 | \$20,638 | | |
| 2030 | \$7,179 | \$21 | \$7,200 | 51.4 | \$13,006 | \$432 | \$13,438 | \$20,638 | | |
| 2031 | \$7,179 | \$21 | \$7,200 | 51.4 | \$13,006 | \$432 | \$13,438 | \$20,638 | | |
| Total | \$50,710 | \$133 | \$50,843 | | \$88,061 | \$2,736 | \$90,797 | \$141,640 | | |
| Notes: | | | | | | | | | | |

Notes:

1- Table 3 shows the SIMP O&M Forecast if the alternative mitigation is applied.

2- Amounts are in direct dollars (in Thousands, 000), and include vacation and sick (V&S).

Risk Chapter: SCG-Risk-4 Underground Gas Storage System

Risk ID: 20R04

Appendix A: Forecast Methodology

| Mitigation ID | Mitigation Name | Labor | Non-Labor | NSE | Units |
|---------------|--|--------------|--------------|--------------|--------------|
| A402 | SIMP With Installation of Metal Skin Liners In Lieu of Inner String installa | Zero-Based | Zero-Based | Zero-Based | Zero-Based |
| C401 | Storage Integrity Management Program (SIMP) | 3-YR Average | 3-YR Average | 3-YR Average | 3-YR Average |
| C408 | Storage Field Maintenance - Underground Components | 5-YR Average | 5-YR Average | 5-YR Average | 5-YR Average |

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Risk Chapter: SCG-Risk-4 Underground Gas Storage System

Risk ID: 20R04

Appendix B: Unit Measure

| Mitigation ID | Mitigation Name | Unit Measure |
|---------------|---|-------------------|
| A402 | SIMP With Installation of Metal Skin Liners In Lieu of Inner String installations | No feasible units |
| C401 | Storage Integrity Management Program (SIMP) | No feasible units |
| C408 | Storage Field Maintenance - Underground Components | Storage Fields |

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