

I. SUPPLY LINE 36-9-09 NORTH TIMP PROJECT

A. Background and Summary

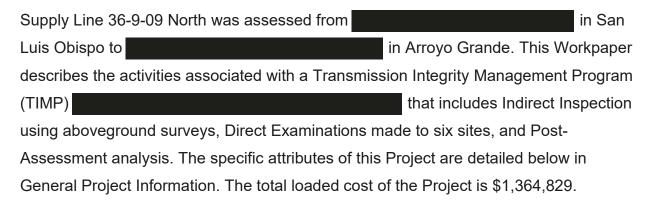




Table 1: General Project Information

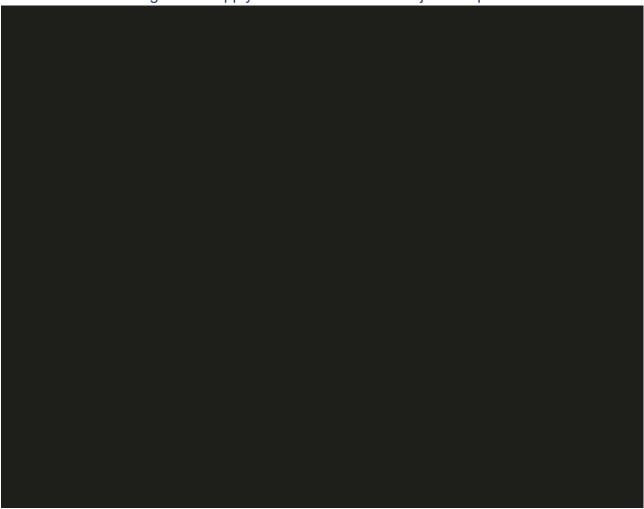
| Integrity Assessment Details | | | | |
|-------------------------------------|--|--|-----------|--|
| Pipeline | 36-9-09 North | | | |
| Assessment Type | | | | |
| Location | SO MANAGEMENT CONTRACTOR OF THE PROPERTY OF TH | Atascadero, Arroyo Grande, Pismo Beach, San Luis Obispo | | |
| Class | | 2 | | |
| HCA Length | 1.96 miles | | | |
| Project Length | 3.96 miles | | | |
| Vintage | | | | |
| Pipe Diameter | | | | |
| MAOP | | | | |
| SMYS | | | | |
| HCA Threats | | | | |
| Indirect Inspection Completion Date | | • | | |
| Direct Examination Completion Date | | | | |
| Construction Start Date | | | | |
| Construction Completion Date | | | | |
| Assessment Due Date | | | | |
| Project Costs (\$) | Capital | O&M | Total | |
| Loaded Project Costs | 0 | 1,364,829 | 1,364,829 | |





B. Maps and Images







II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 36-9-09 North by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts</u>: No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the cities of Arroyo Grande, San Luis Obispo, Pismo Beach, and the County of San Luis Obispo.
 - b. An Encroachment permit and traffic control plans from Caltrans to survey along the shoulder of highway 101 in San Luis Obispo.



5. Environmental: The Project Team obtained a standard Environmental Clearance. There was a risk of naturally occurring asbestos to be present in San Luis Obispo and additional measures had to be taken by the Project Team to minimize ground disturbance such as limiting vehicle speeds to 15 miles per hour, wetting down the work area and pipes, and washing down equipment before moving out of the property onto a paved road. Extra caution was advised for natural resources as several endangered species are known to occur along the pipeline.

Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|---------------|------------|-------------|-------------------------------|
| 36-9-09 North | 1.96 miles | | |
| 36-9-09 North | 1.96 miles | | |
| 36-9-09 North | 1.96 miles | | 26.7 |



B. Direct Examination

Following the completion of the Indirect Inspection, six Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts, contingencies were set in place if there was a need for pipeline isolation.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions</u>: The Project Team obtained permits, traffic control drawings and plans from the cities of Pismo Beach and San Luis Obispo
- 5. <u>Environmental</u>: No significant environmental constraints were identified.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|------------|
| Site | 2 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16.65 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|-----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 18.5 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 4 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | NA |
| Inspection Length | 16.5 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|-----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | NA |
| Inspection Length | 16.6 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 6 |
| Examination ID | |
| Pipeline | 36-0-09N |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | NA |
| Inspection Length | 19 feet |
| Cost Category | O&M |

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C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

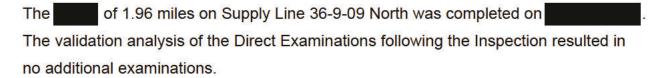


Table 4: Project Summary

| Total Length | 1.96 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |

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Final Workpaper for Supply Line 36-9-09 North TIMP Project

III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



Figure 3: Direct Examination Site #1 – Coating Inspection



Figure 4: Direct Examination Site #1 – Excavation of Pipeline





Figure 5: Direct Examination Site #1 – Site Location



Figure 6: Direct Examination Site #2 – Excavation of Pipeline





Figure 7: Direct Examination Site #4 - Excavation of Pipeline



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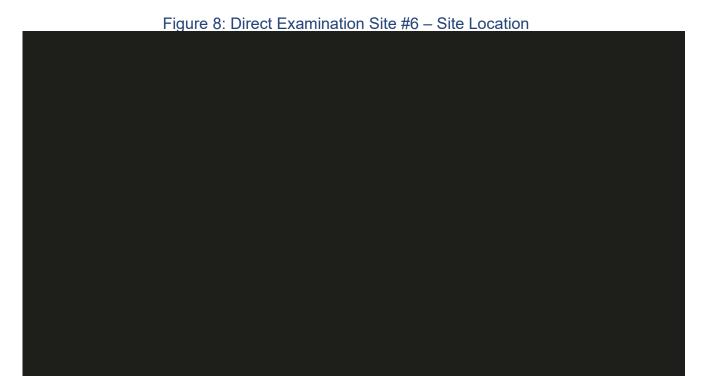




Figure 9: Direct Examination Site #6 – Excavation of Pipeline





C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs4

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$1,501,821.

Table 6: Actual Direct Costs⁵

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 176,426 | 176,426 |
| Contract Costs | 0 | 794,925 | 794,925 |
| Material | 0 | 4,126 | 4,126 |
| Other Direct Charges | 0 | 235,504 | 235,504 |
| Total Direct Costs | 0 | 1,210,981 | 1,210,981 |

Table 7: Actual Indirect Costs⁶

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 153,848 | 153,848 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 153,848 | 153,848 |

Table 8: Total Costs7

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 1,364,829 | 1,364,829 |

⁴ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁵ Values may not add to total due to rounding.

⁶ Ibid.

⁷ Ibid.

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Final Workpaper for Supply Line 36-9-09 North TIMP Project

V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 36-9-09 North TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$1,364,829.

End of Supply Line 36-9-09 North TIMP Project Final Workpaper



I. SUPPLY LINE 36-9-21 TIMP PROJECT

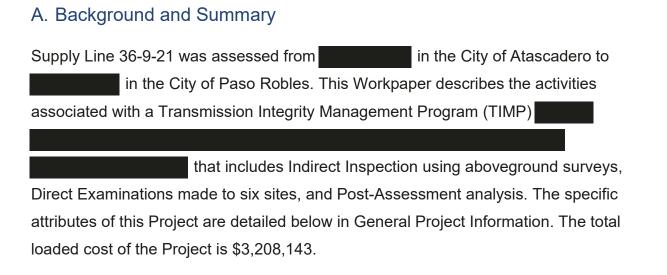




Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|-------------|---------------------|-----------|
| Pipeline | 36-9-21 | | |
| Assessment Type | | | |
| Location | Atascadero | o, Paso Robles, Ter | mpleton |
| Class | | 29 | 2316 |
| HCA Length | 3.32 miles | | |
| Project Length | 5.24 miles | | - |
| Vintage | Multiple be | tween | |
| Pipe Diameter | | 811 | 2. |
| MAOP | | 3 | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 539,211 | 2,668,933 | 3,208,143 |



B. Maps and Images

Figure 1: Supply Line 36-9-21 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 36-9-21 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - Permits, traffic control drawings and plans from the cities of Paso Robles and Templeton.
 - b. An Encroachment Permit from Caltrans and San Luis Obispo County.
- 5. Environmental: No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|---------|------------|-------------|-------------------------------------|
| 36-9-21 | 3.32 miles | | |
| 36-9-21 | 3.32 miles | | |
| 36-9-21 | 3.32 miles | | |
| 36-9-21 | 0.20 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, six Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the cities of Paso Robles and Templeton.
 - b. An Encroachment Permit from Caltrans and San Luis Obispo county.

5. Land Use:

- a. Temporary Right of Entry (TRE) at Site #1.
- TRE from a local property owner to use as a laydown yard in the City of Atascadero.
- 6. Environmental: No significant environmental constraints were identified.
- 7. <u>SRC/IRC:</u> There was an Immediate Repair Condition (IRC) originating from Direct Examination at Site #4, rapid communications and procedures were followed for temporary pressure reduction. A band was utilized to remediate condition on the pipeline.



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 17 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 24 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | No |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|-------------------|
| Site | 4 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad and Band |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 40 feet |
| Cost Category | Capital |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 40 feet |
| Cost Category | O&M |

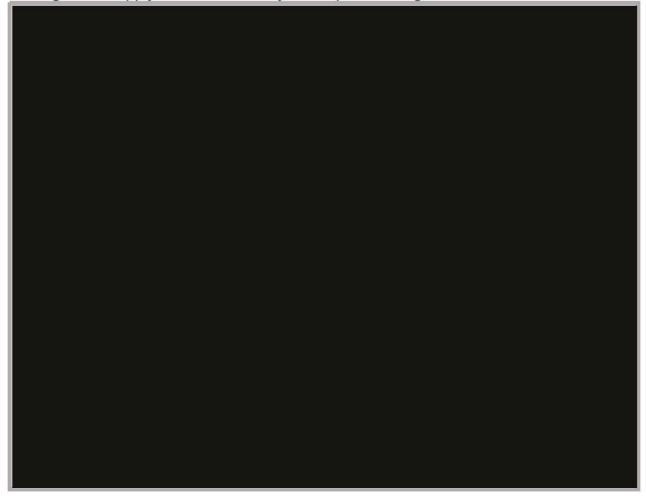
| Direct Examination Details | |
|------------------------------|----------|
| Site | 6 |
| Examination ID | |
| Pipeline | 36-9-21 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 20 feet |
| Cost Category | O&M |

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Final Workpaper for Supply Line 36-9-21 TIMP Project

Figure 2: Supply Line 36-9-21 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

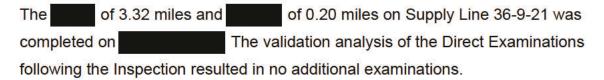


Table 4: Project Summary

| Length | 3.32 miles |
|------------------------------------|------------|
| Length | 0.20 miles |
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



Figure 3: Direct Examination Site #1 – Direct Examination Location



Figure 4: Direct Examination Site #1 – Excavation of Pipeline









Figure 6: Direct Examination Site #3 – Excavation Location





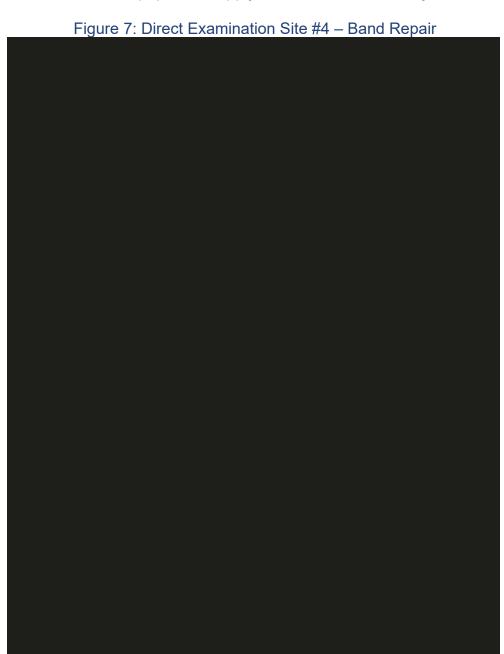




Figure 8: Direct Examination Site #5 – Bare Pipeline



C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, transportation, disposal of hydrotest water and hazardous material, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs³

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$3,208,143.

Table 6: Actual Direct Costs4

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 5,269 | 234,210 | 239,479 |
| Contract Costs | 303,664 | 1,414,011 | 1,717,676 |
| Material | 117 | 4,899 | 5,016 |
| Other Direct Charges | 65,224 | 746,089 | 811,313 |
| Total Direct Costs | 374,274 | 2,399,210 | 2,773,483 |

Table 7: Actual Indirect Costs⁵

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|----------------------|---------------|-----------|--------------------|
| Overheads | 164,472 | 269,723 | 434,196 |
| AFUDC | 51 | 0 | 51 |
| Property Taxes | 414 | 0 | 414 |
| Total Indirect Costs | 164,937 | 269,723 | 434,660 |

Table 8: Total Costs⁶

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|--------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 539,211 | 2,668,933 | 3,208,143 |

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³ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁴ Values may not add to total due to rounding.

⁵ Ibid.

⁶ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 36-9-21 Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$3,208,143.

End of Supply Line 36-9-21 TIMP Project Final Workpaper



I. SUPPLY LINE 36-37 TIMP PROJECT

A. Background and Summary

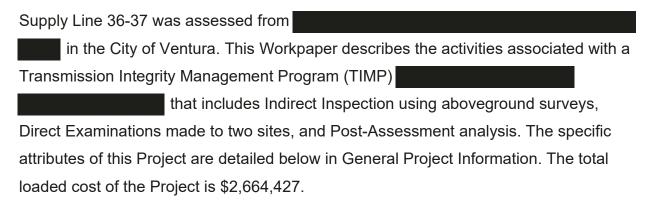




Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|------------|-----------|-----------|
| Pipeline | 36-37 | | |
| Assessment Type | | | |
| Location | Ventura | | |
| Class | 2, 3 | | 8 |
| HCA Length | 0.94 miles | | |
| Project Length | 0.99 miles | | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 2,664,427 | 2,664,427 |





B. Maps and Images

Figure 1: Supply Line 36-37 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 36-37 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. Customer Impacts: No identified customer impacts.
- 3. <u>Community Impacts:</u> No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained:
 - Permits, traffic control drawings and plans from the City of Ventura and Ventura County.
 - b. An Encroachment Permit from Caltrans.
- 5. Environmental: No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|-------|------------|-------------|----------------------------------|
| 36-37 | 0.94 miles | | |
| 36-37 | 0.94 miles | | |
| 36-37 | 0.94 miles | | |



C. Direct Examination

Following the completion of the Indirect Inspection, two Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the City of Ventura and Ventura County.
 - b. An Encroachment Permit from Caltrans.
 - c. A permit to perform work at night from the City of Ventura.
- 5. Environmental: No significant environmental constraints were identified.
- 6. SRC/IRC: N/A

7. Other Identified Risks:

- a. Construction activities for Site #1 took place by an underpass of Highway 101 and required that an access ramp and railing be partially removed.
- b. There was a lamp post near the site that had to be supported to allow for construction activities.



c. The Project Team had to restore the accessibility ramp to comply with Americans with Disabilties Act (ADA) standards.

Table 3: Final Direct Examination Project Details

| Direct Examination Details | | | |
|------------------------------|-------------------|--|--|
| Site | 1 | | |
| Examination ID | | | |
| Pipeline | 36-37 | | |
| Mitigation/Remediation Type | Soft Pad and Band | | |
| Within HCA | Yes | | |
| SRC/IRC No | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Replacement Length | N/A | | |
| Inspection Length 17.2 feet | | | |
| Cost Category O&M | | | |

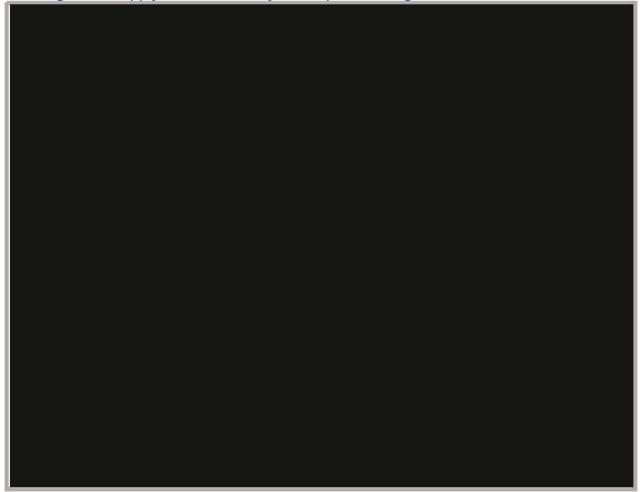
| Direct Examination Details | |
|------------------------------|-----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 36-37 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 14.9 feet |
| Cost Category | O&M |

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Final Workpaper for Supply Line 36-37 TIMP Project

Figure 2: Supply Line 36-37 Project Scope Including Direct Examination Sites





D. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

The of 0.94 miles on Supply Line 36-37 was completed on validation analysis of the Direct Examinations following the Inspection resulted in no additional examinations.

Table 4: Project Summary

| Total Length | 0.94 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline – Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



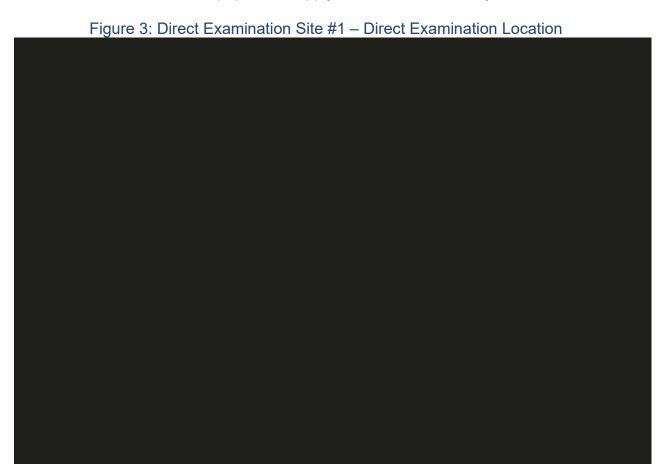


Figure 4: Direct Examination Site #1 – Bare Pipeline

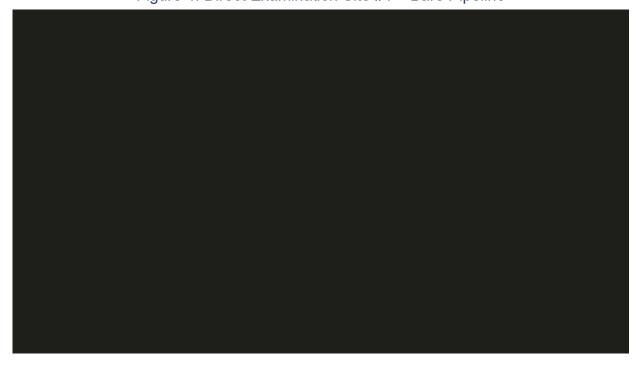




Figure 5: Direct Examination Site #2 – Direct Examination Location









C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs4

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$2,664,427.

Table 6: Actual Direct Costs⁵

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 182,615 | 182,615 |
| Contract Costs | 0 | 1,855,210 | 1,855,210 |
| Material | 0 | 35,535 | 35,535 |
| Other Direct Charges | 0 | 334,043 | 334,043 |
| Total Direct Costs | 0 | 2,407,403 | 2,407,403 |

Table 7: Actual Indirect Costs⁶

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 257,025 | 257,025 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 257,025 | 257,025 |

Table 8: Total Costs⁷

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 2,664,427 | 2,664,427 |

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⁴ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁵ Values may not add to total due to rounding.

⁶ Ibid.

⁷ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 36-37 Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$2,664,427.

End of Supply Line 36-37 TIMP Project Final Workpaper



I. SUPPLY LINE 38-501 TIMP PROJECT

A. Background and Summary

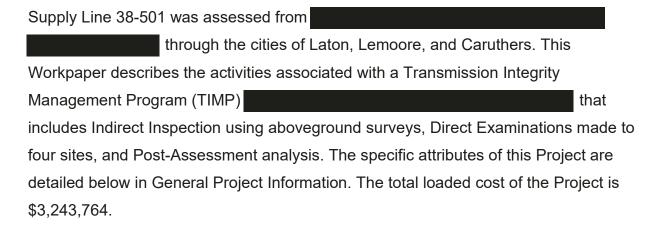


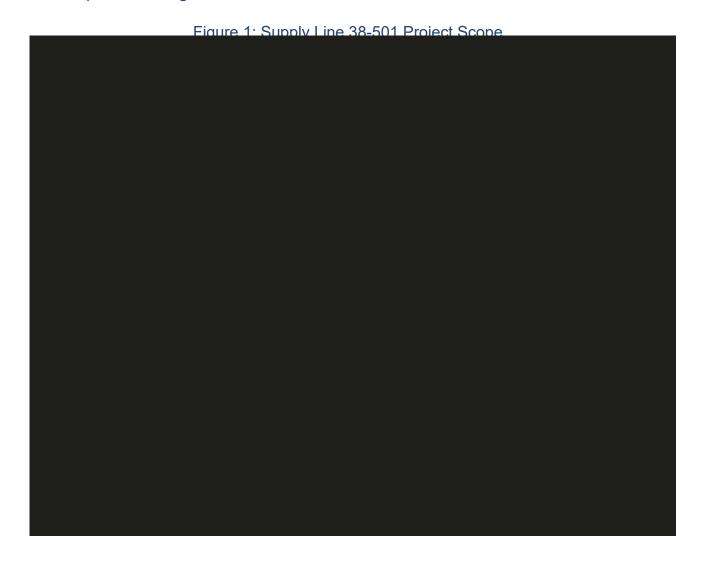


Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|------------|------------------|-----------|
| Pipeline | 38-501 | | |
| Assessment Type | | | |
| Location | Laton, Ler | moore, Caruthers | |
| Class | 2, 3 | | |
| HCA Length | 0.75 miles | S | |
| Project Length | 7.29 miles | S | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | 43 | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | 2 | |
| Construction Completion Date | | | |
| Assessment Due Date | | - 10 m | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 3,243,764 | 3,243,764 |



B. Maps and Images





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 38-501 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from Fresno County and County of Kings.
 - b. An Encroachment Permit from Caltrans.
- 5. <u>Environmental:</u> No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|--------|------------|-------------|----------------------------------|
| 38-501 | 0.74 miles | | |
| 38-501 | 0.74 miles | 0 No. | |
| 38-501 | 0.74 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, four Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions</u>: The Project Team obtained permits, traffic control drawings and plans from Fresno County.
- 5. Environmental: No significant environmental constraints were identified.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 38-501 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.7 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 38-501 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 17.5 feet |
| Cost Category | O&M |

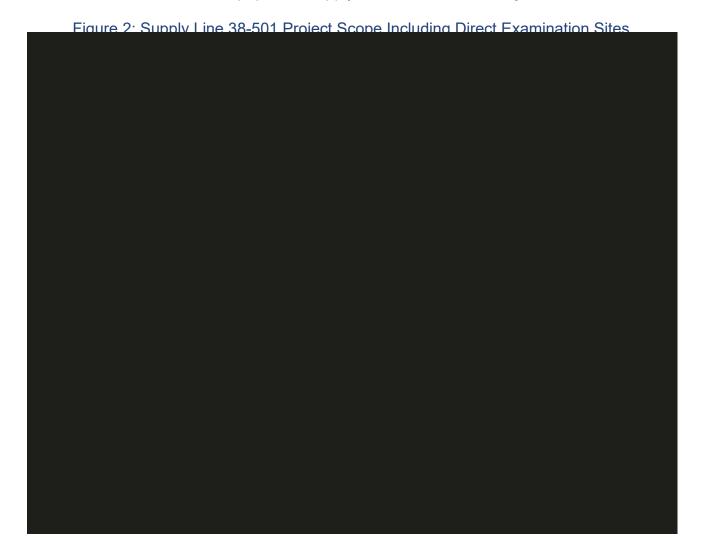


| Direct Examination Details | |
|------------------------------|------------|
| Site | 3 |
| Examination ID | |
| Pipeline | 38-501 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 17.41 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|------------|
| Site | 4 |
| Examination ID | |
| Pipeline | 38-501 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | No |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 17.33 feet |
| Cost Category | O&M |

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C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

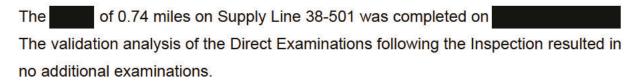


Table 4: Project Summary

| Total Length | 0.74 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |







Figure 4: Direct Examination Site #2 – Direct Examination Location









Figure 6: Direct Examination Site #4 – Excavation of Pipeline





C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs²

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$3,243,764.

Table 6: Actual Direct Costs3

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 385,577 | 385,577 |
| Contract Costs | 0 | 1,607,420 | 1,607,420 |
| Material | 0 | 106,030 | 106,030 |
| Other Direct Charges | 0 | 736,593 | 736,593 |
| Total Direct Costs | 0 | 2,835,620 | 2,835,620 |

Table 7: Actual Indirect Costs4

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 408,144 | 408,144 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 408,144 | 408,144 |

Table 8: Total Costs⁵

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|--------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 3,243,764 | 3,243,764 |

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² These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

³ Values may not add to total due to rounding.

⁴ Ibid.

⁵ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 38-501 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$3,243,764.

End of Supply Line 38-501 TIMP Project Final Workpaper



I. SUPPLY LINE 38-504 TIMP PROJECT

A. Background and Summary

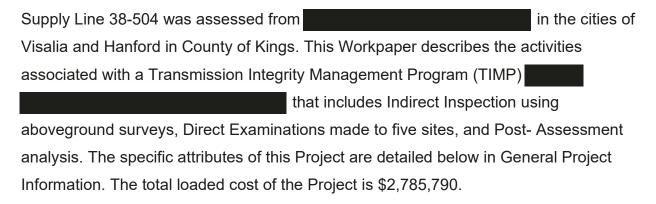




Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|-------------|-----------|-----------|
| Pipeline | 38-504 | | |
| Assessment Type | | | |
| Location | Visalia, Ha | nford | |
| Class | 2, 3 | | |
| HCA Length | 9.36 miles | | |
| Project Length | 13.21 miles | s | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | • |
| SMYS | | eY | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | |) (| |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 78,299 | 2,707,491 | 2,785,790 |



B. Maps and Images

Figure 1: Supply Line 38-504 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 38-504 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. <u>Community Impacts:</u> The Project Team distributed notices to members of the surrounding community advising that construction operations would take place in the area.
- 4. <u>Permit Restrictions:</u> The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the City of Visalia.
 - b. An Encroachment Permit from County of Kings.
- 5. <u>Environmental:</u> No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|--------|------------|-------------|----------------------------------|
| 38-504 | 9.36 miles | | |
| 38-504 | 9.36 miles | | |
| 38-504 | 9.36 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, five Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of Visalia.

5. Land Use:

- a. Obtained a Temporary Right of Entry (TRE) from the property owner at Site#2 to use as a laydown yard and perform the Direct Examination.
- b. Obtained a TRE from a local property owner to use as a laydown yard.
- 6. Environmental: No significant environmental constraints were identified.
- 7. <u>SRC/IRC:</u> There was an Immediate Repair Condition originating from Direct Examination at Site #1. Pressure was reduced until a band was utilized to remediate condition on the pipeline.



Table 3: Final Direct Examination Project Details

| Direct Examination Details | | | |
|------------------------------|-------------------|--|--|
| Site | 1 | | |
| Examination ID | | | |
| Pipeline | 38-504 | | |
| Mitigation/Remediation Type | Soft Pad and Band | | |
| Within HCA | Yes | | |
| SRC/IRC | Yes | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Replacement Length | N/A | | |
| Inspection Length | 19 feet | | |
| Cost Category | Capital | | |

| Direct Examination Details | | | |
|------------------------------|----------|--|--|
| Site | 2 | | |
| Examination ID | | | |
| Pipeline | 38-504 | | |
| Mitigation/Remediation Type | Soft Pad | | |
| Within HCA | Yes | | |
| SRC/IRC | No | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Replacement Length | N/A | | |
| Inspection Length | 15 feet | | |
| Cost Category | O&M | | |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 38-504 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|------------|
| Site | 4 |
| Examination ID | |
| Pipeline | 38-504 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.25 feet |
| Cost Category | O&M |

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| Direct Examination Details | |
|------------------------------|----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 38-504 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 19 feet |
| Cost Category | O&M |



Figure 2: Supply Line 38-504 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

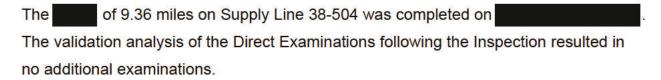


Table 4: Project Summary

| Total Length | 9.36 miles | |
|------------------------------------|------------|-------|
| Direct Examination Completion Date | | - 129 |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



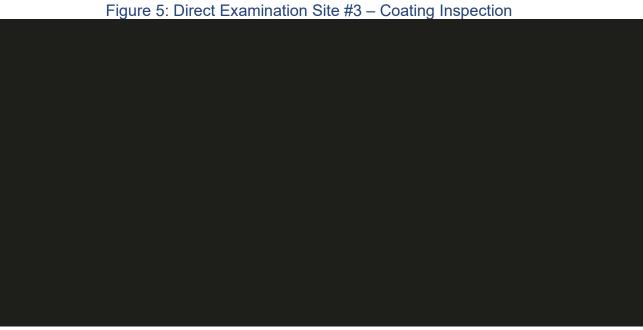


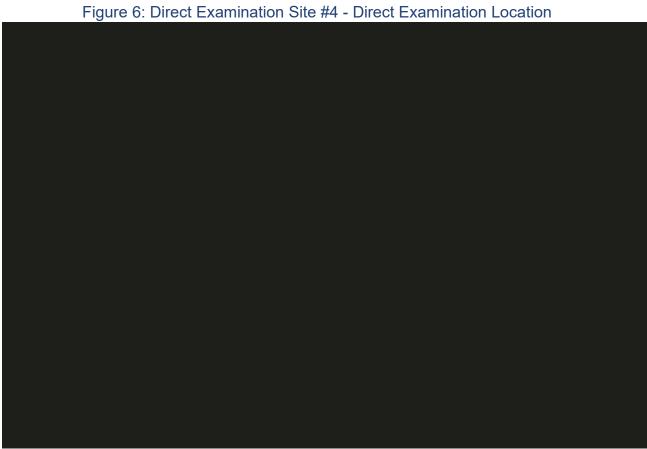


Figure 4: Direct Examination Site #3 – Direct Examination Location





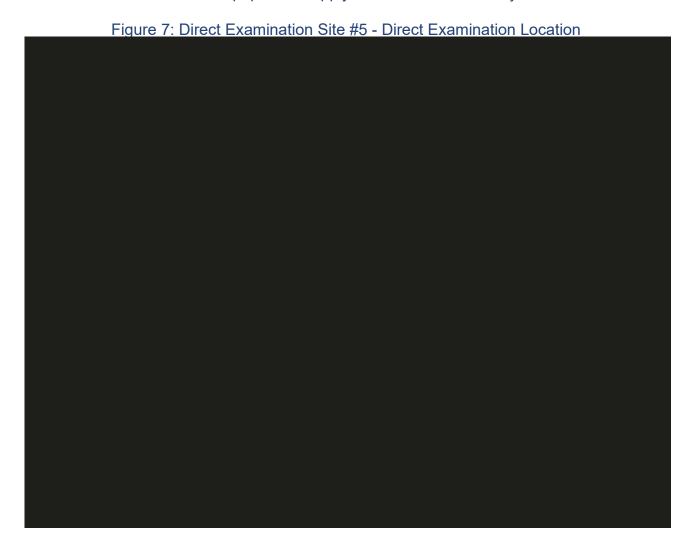




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Final Workpaper for Supply Line 38-504 TIMP Project



C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs²

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$2,785,790.

Table 6: Actual Direct Costs3

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 33,807 | 237,432 | 271,239 |
| Contract Costs | 11,118 | 1,605,743 | 1,616,861 |
| Material | 376 | 29,404 | 29,781 |
| Other Direct Charges | 84 | 541,509 | 541,593 |
| Total Direct Costs | 45,386 | 2,414,088 | 2,459,474 |

Table 7: Actual Indirect Costs4

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 32,761 | 293,403 | 26,164 |
| AFUDC | 79 | 0 | 79 |
| Property Taxes | 73 | 0 | 73 |
| Total Indirect Costs | 32,913 | 293,403 | 326,316 |

Table 8: Total Costs⁵

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|--------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 78,299 | 2,707,491 | 2,785,790 |

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² These are the total project costs between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

³ Values may not add to total due to rounding.

⁴ Ibid.

⁵ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 38-504 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$2,785,790.

End of Supply Line 38-504 TIMP Project Final Workpaper



I. SUPPLY LINE 41-05 TIMP PROJECT

A. Background and Summary

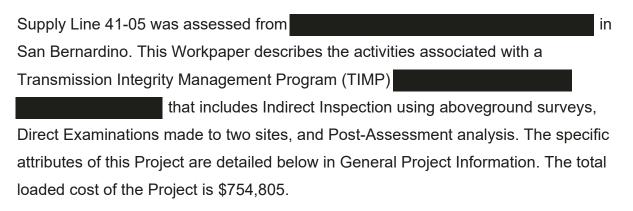




Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|-----------|---------|---------|
| Pipeline | 41-05 | | |
| Assessment Type | | | |
| Location | San Berr | nardino | |
| Class | | | |
| HCA Length | 5.34 mile | es | |
| Project Length | 5.54 mile | es | Ĵ |
| Vintage | | | |
| Pipe Diameter | | 5 | |
| MAOP | | | |
| SMYS | | 1 | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | 2 | |
| Construction Start Date | | * | |
| Construction Completion Date | | <u></u> | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 754,805 | 754,805 |



B. Maps and Images

Figure 1: Supply Line 41-05 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-05 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis</u>: The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts</u>: No customer impacts were identified.
- 3. Community Impacts: No community impacts were identified.
- 4. <u>Permit Restrictions</u>: The Project Team obtained permits, traffic control and plans for the City of San Bernardino and county of San Bernardino.
- 5. Environmental: No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|-------|------------|-------------|-------------------------------------|
| 41-05 | 5.34 miles | | |
| 41-05 | 5.34 miles | | |
| 41-05 | 5.34 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, two Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis</u>: The Project Team completed an analysis of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts</u>: No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions</u>: The Project Team obtained permits, traffic control drawings and plans for the County of San Bernardino.
- 5. Environmental: The Project Team obtained a standard Environmental Clearance:
 - a. It was determined that the excavation locations have the potential to contribute construction material to nearby waterways and work on asphalt may contain asbestos.
 - b. An asbestos survey conducted by an industrial hygienist at both sites was required and it was recommended that best management practices be followed to ensure both water and air compliance.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|---------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-05 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|---------|
| Site | 2 |
| Examination ID | |
| Pipeline | 41-05 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

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Figure 2: Supply Line 41-05 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

The of 5.34 miles on Supply Line 41-05 was completed on . The validation analysis of the Direct Examinations following the Inspection resulted in no additional examinations.

Table 4: Project Summary

| Total Length | 5.34 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |







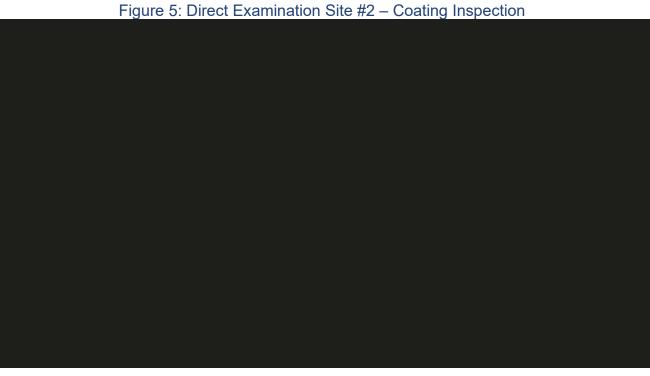


Figure 6: Direct Examination Site #2 – Excavation of Pipeline





C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs²

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$754,805.

Table 6: Actual Direct Costs3

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 75,459 | 75,459 |
| Contract Costs | 0 | 316,572 | 316,572 |
| Material | 0 | 0 | 0 |
| Other Direct Charges | 0 | 286,545 | 286,545 |
| Total Direct Costs | 0 | 678,575 | 678,575 |

Table 7: Actual Indirect Costs4

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 76,230 | 76,230 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 76,230 | 76,230 |

Table 8: Total Costs⁵

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 754,805 | 754,805 |

² These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

³ Values may not add to total due to rounding.

⁴ Ibid.

⁵ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-05 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$754,805.

End of Supply Line 41-05 TIMP Project Final Workpaper



I. SUPPLY LINE 41-12 TIMP PROJECT

A. Background and Summary

| Supply Line 41-12 was assessed | from |
|---------------------------------------|--|
| in the City of Corona to | in the City of |
| Lake Elsinore. This Workpaper de | escribes the activities associated with a Transmission |
| Integrity Management Program (T | IMP) |
| that includes Direct Examinations | made to three sites, and Post-Assessment analysis. |
| The specific attributes of this Proje | ect are detailed below in General Project Information. |
| The total loaded cost of the Project | ot is \$334,860. |

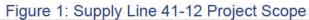


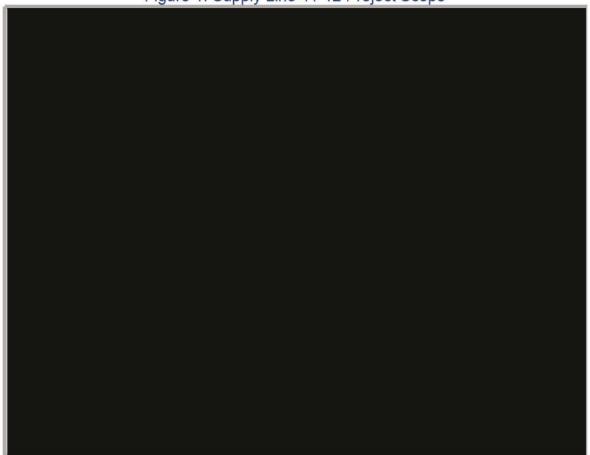
Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|------------|-------------|---------|
| Pipeline | 41-12 | | |
| Assessment Type | | | |
| Location | Corona, La | ke Elsinore | |
| Class | 2, 3 | | |
| HCA Length | 2.43 miles | | |
| Project Length | 3.71 miles | - | |
| Vintage | | | |
| Pipe Diameter | S) | W. | |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 334,860 | 334,860 |



B. Maps and Images







II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-12 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Activities for this Project related to the Indirect Inspection step were completed under a previous General Rate Case (GRC)²

Table 2: Indirect Inspection Segments

| Line | Length | ength Th | | Threat Type | | Ins | pection /pe |
|-------|------------|----------|--|-------------|--|-----|----------------|
| 41-12 | 2.43 miles | | | | | | |
| 41-12 | 2.43 miles | | | | | | |
| 41-12 | 2.43 miles | | | | | | |

² Cost and activities within this Workpaper are summarized to align with A.17-10-008.



B. Direct Examination

Following the completion of the Indirect Inspection, three Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from Riverside County.
- 5. Environmental: The Project Team obtained a standard Environmental Clearance:
 - a. All three Direct Examination sites were found to have the potential to contribute construction materials to adjacent water conveyances and thus additional precaution practices were needed.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-12 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.5 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 41-12 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.0 feet |
| Cost Category | O&M |

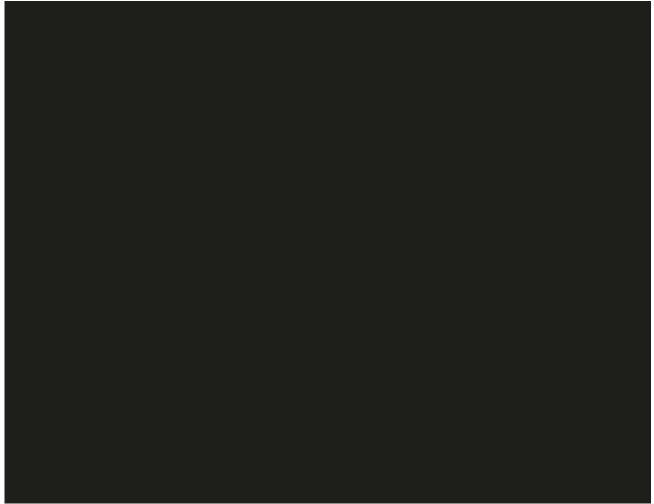


| Direct Examination Details | |
|------------------------------|-----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 41-12 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | 0.00 |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16.0 feet |
| Cost Category | O&M |

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C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

The of 2.43 miles on Supply Line 41-12 was completed on . The validation analysis of the Direct Examinations following the Inspection resulted in no additional examinations.

Table 4: Project Summary

| Total Length | 2.43 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |

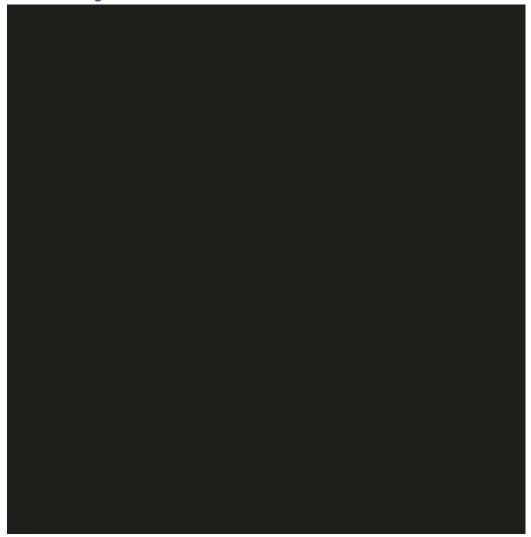


Figure 3: Direct Examination Site #1 – Coating Inspection

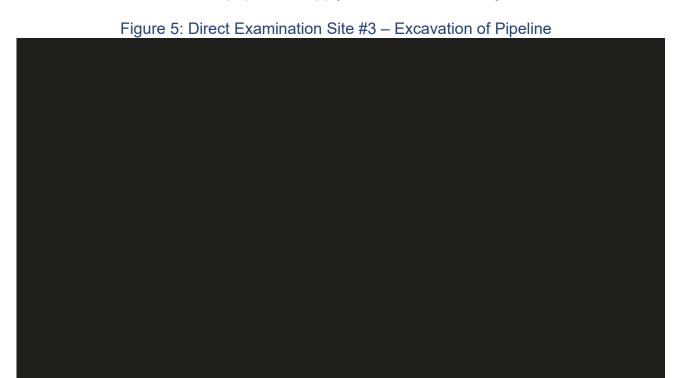




Figure 4: Direct Examination Site #1 – Site Overview







C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs³

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$334,860.

Table 6: Actual Direct Costs4

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 30,944 | 30,944 |
| Contract Costs | 0 | 251,975 | 251,975 |
| Material | 0 | 1,106 | 1,106 |
| Other Direct Charges | 0 | 16,542 | 16,542 |
| Total Direct Costs | 0 | 300,566 | 300,566 |

Table 7: Actual Indirect Costs⁵

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|----------------------|---------------|-----------|--------------------|
| Overheads | 0 | 34,294 | 34,294 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 34,294 | 34,294 |

Table 8: Total Costs⁶

| Total Costs (\$) | Capital Cost | O&M Cost | Total Actual Costs |
|--------------------|--------------|----------|--------------------|
| Total Loaded Costs | 0 | 334,860 | 334,860 |

³ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁴ Values may not add to total due to rounding.

⁵ Ibid.

⁶ Ibid



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-12 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$334,860.

End of Supply Line 41-12 TIMP Project Final Workpaper



I. SUPPLY LINE 41-17 TIMP PROJECT

A. Background and Summary

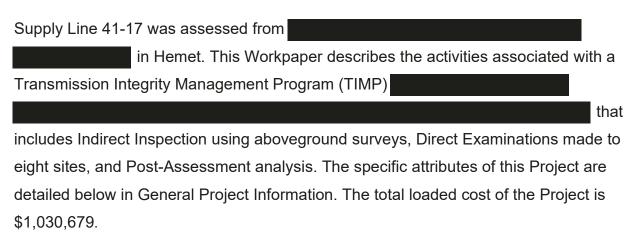




Table 1: General Project Information

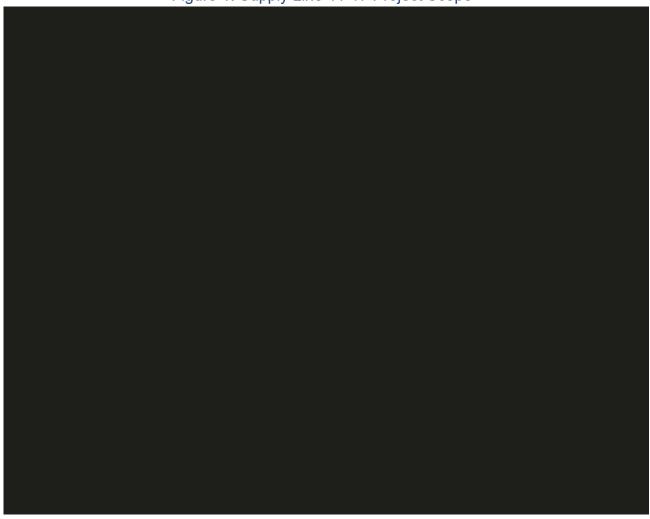
| Integrity Assessment Details | | | |
|-------------------------------------|------------|-----------|-----------|
| Pipeline | 41-17 | | |
| Assessment Type | | | 2 |
| Location | Hemet, San | Jacinto | |
| Class | 2, 3 | | |
| HCA Length | 2.54 miles | | |
| Project Length | 2.61 miles | | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | - 2 | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 259 | 1,030,420 | 1,030,679 |





B. Maps and Images

Figure 1: Supply Line 41-17 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-17 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings, and plans from the cities of San Jacinto and Hemet, and the county of Riverside.
- 5. Environmental: No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|-------|------------|-------------|----------------------------------|
| 41-17 | 2.54 miles | | |
| 41-17 | 2.54 miles | | |
| 41-17 | 2.54 miles | | |
| 41-17 | 0.29 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, eight Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained encroachment permits, traffic control drawings, and plans from the City of Hemet.
- 5. Environmental: No significant environmental constraints were identified.
- SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-17 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|---------|
| Site | 2 |
| Examination ID | |
| Pipeline | 41-17 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 19 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 41-17 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|---------|
| Site | 4 |
| Examination ID | |
| Pipeline | 41-17 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 19 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 41-17 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | | |
|------------------------------|----------|--|
| Site | 6 | |
| Examination ID | | |
| Pipeline | 41-17 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 25 feet | |
| Cost Category | O&M | |



| Direct Examination Details | | | |
|------------------------------|----------|--|--|
| Site | 7 | | |
| Examination ID | | | |
| Pipeline | 41-17 | | |
| Mitigation/Remediation Type | Soft Pad | | |
| Within HCA | Yes | | |
| SRC/IRC | No | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Replacement Length | N/A | | |
| Inspection Length | 16 feet | | |
| Cost Category | O&M | | |

| Direct Examination Details | | |
|------------------------------|-----------|--|
| Site | 8 | |
| Examination ID | | |
| Pipeline | 41-17 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 17.5 feet | |
| Cost Category | O&M | |









C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

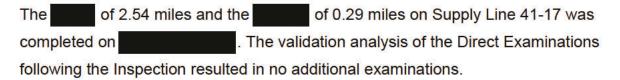


Table 4: Project Summary

| Total Length | 2.54 miles |
|------------------------------------|------------|
| Total Length | 0.29 miles |
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline – Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |





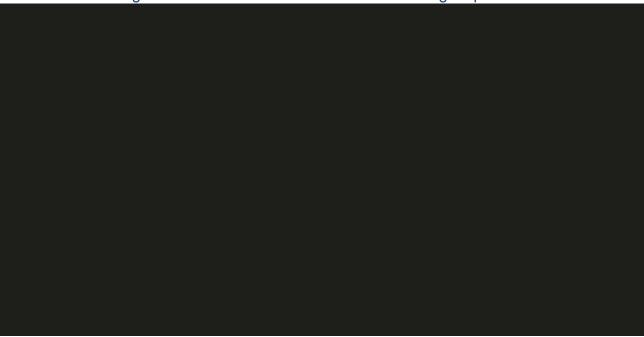


Figure 4: Direct Examination Site #3 – Excavation Location





Figure 5: Direct Examination Site #5 – Excavation Location

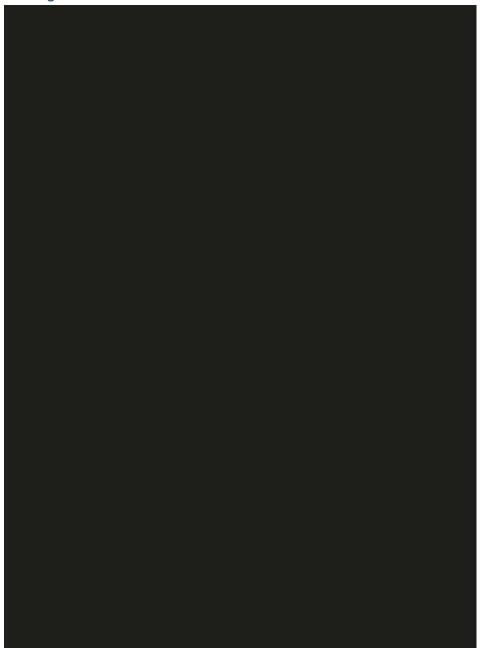
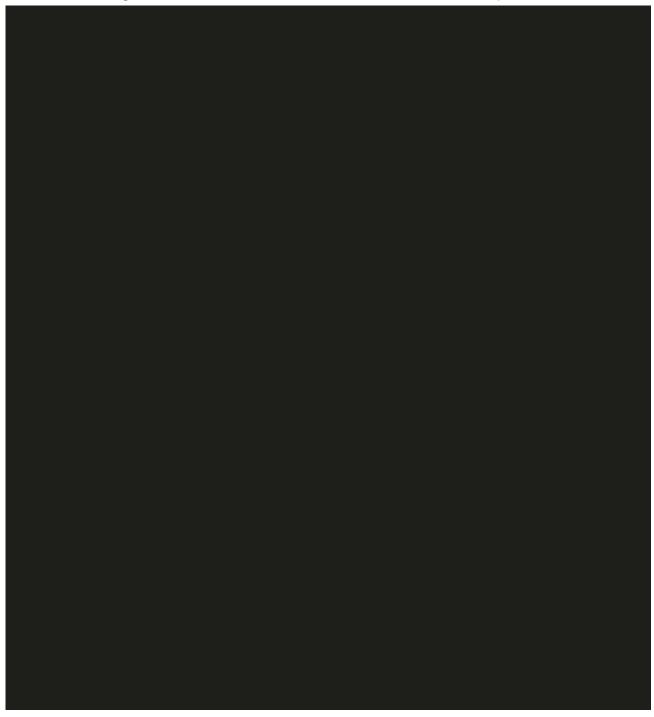


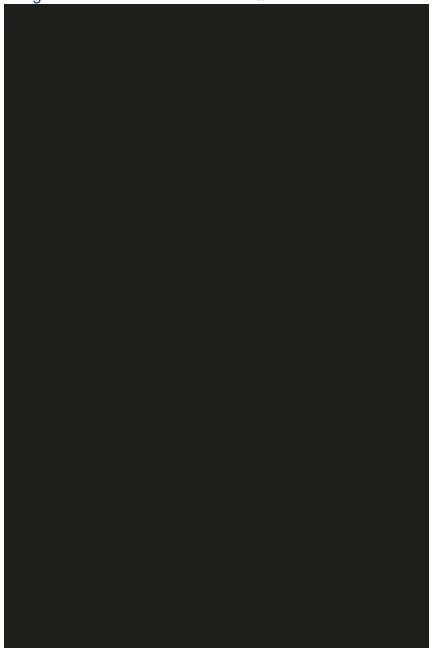


Figure 6: Direct Examination Site #6 – Excavation of Pipeline













C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Cost Efficiency Actions

SoCalGas exercised due diligence in the design, planning, and construction activities for this Project to minimize or avoid costs when prudent to do so. As discussed above, the Project Team reviewed existing information, communicated with external stakeholders, and conducted a site evaluation to incorporate the site conditions in the Project plan and design. Specific examples of cost efficiency actions taken on this Project were:

| 1. | Constructions Execution: The | V | alidation excavati | on | was |
|----|----------------------------------|--------|--------------------|-------------|-----|
| | conducted at the same location a | as the | е | excavation. | |



B. Actual Costs³

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$1,030,679.

Table 6: Actual Direct Costs4

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 83,082 | 83,082 |
| Contract Costs | 0 | 535,580 | 535,580 |
| Material | 0 | 256 | 256 |
| Other Direct Charges | 243 | 312,555 | 312,797 |
| Total Direct Costs | 243 | 931,473 | 931,715 |

Table 7: Actual Indirect Costs⁵

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|----------------------|---------------|-----------|--------------------|
| Overheads | 14 | 98,948 | 98,962 |
| AFUDC | 2 | 0 | 2 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 16 | 98,948 | 98,964 |

Table 8: Total Costs⁶

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|--------------------|---------------|-----------|---------------------------|
| Total Loaded Costs | 259 | 1,030,420 | 1,030,679 |

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³ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁴ Values may not add to total due to rounding.

⁵ Ibid.

⁶ Ibid.



V. CONCLUSION

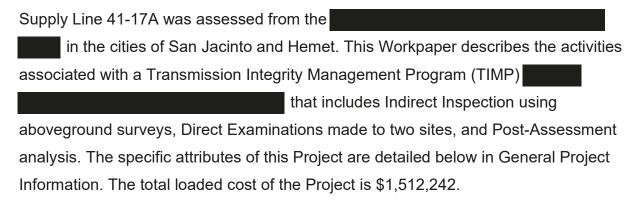
SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-17 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$1,030,679.

End of Supply Line 41-17 TIMP Project Final Workpaper



I. SUPPLY LINE 41-17A TIMP PROJECT

A. Background and Summary



Confidential and Protected Materials Pursuant to PUC Section 583, General Order 66-D, D.21-09-020, the accompany declaration, and/or non-disclosure agreement; Marked and/or Highlighted is Confidential.



Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|-------------|-----------|-----------|
| Pipeline | 41-17A | | |
| Assessment Type | | | |
| Location | San Jacinto | , Hemet | |
| Class | | 2 | |
| HCA Length | 0.74 miles | | |
| Project Length | 0.85 miles | | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 1,512,242 | 1,512,242 |



B. Maps and Images

Figure 1: Supply Line 41-17A Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-17A by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the cities of San Jacinto and Hemet.
- 5. Environmental: No significant environmental constraints were identified.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|--------|------------|-------------|----------------------------------|
| 41-17A | 0.74 miles | | 8.00 |
| 41-17A | 0.74 miles | | |
| 41-17A | 0.74 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, two Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of San Jacinto.
- 5. Environmental: No significant environmental constraints were identified.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-17A |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|---------|
| Site | 2 |
| Examination ID | |
| Pipeline | 41-17A |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

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Final Workpaper for Supply Line 41-17A TIMP Project

Figure 2: Supply Line 41-17A Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

The of 0.74 miles on Supply Line 41-17A was completed on The validation analysis of the Direct Examinations following the Inspection resulted in no additional examinations.

Table 4: Project Summary

| Total Length | 0.74 miles | |
|------------------------------------|------------|--|
| Direct Examination Completion Date | | |



III. CONSTRUCTION

A. Construction Contractor Selection

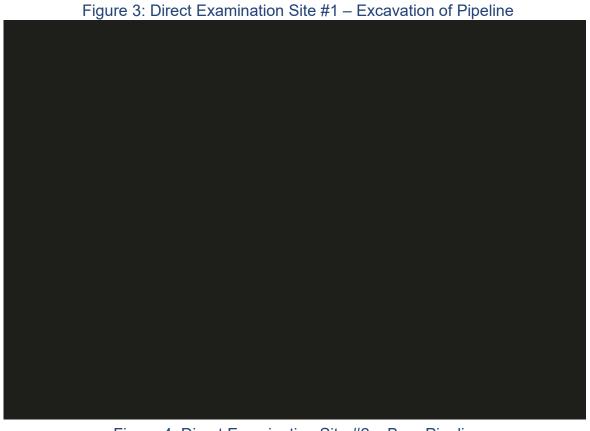
Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

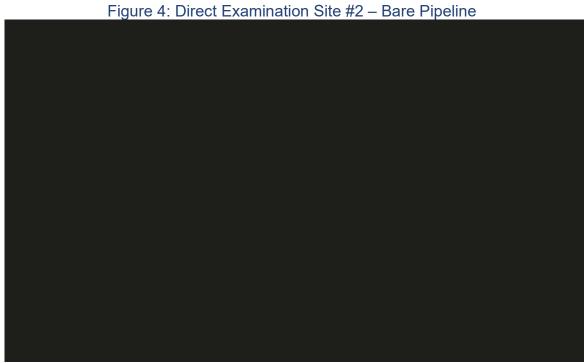
B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

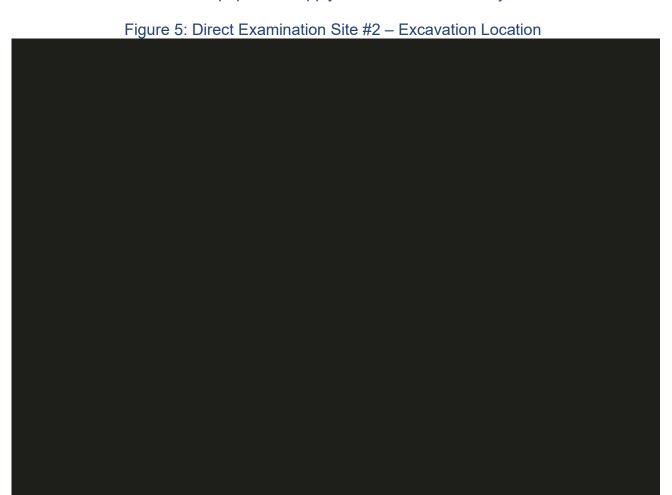
| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |











C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs¹

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$1,512,242.

Table 6: Actual Direct Costs²

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 69,395 | 69,395 |
| Contract Costs | 0 | 1,125,635 | 1,125,635 |
| Material | 0 | 859 | 859 |
| Other Direct Charges | 0 | 171,866 | 171,866 |
| Total Direct Costs | 0 | 1,367,755 | 1,367,755 |

Table 7: Actual Indirect Costs³

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 144,487 | 144,487 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 144,487 | 144,487 |

Table 8: Total Costs4

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 1,512,242 | 1,512,242 |

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¹ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

² Values may not add to total due to rounding.

³ Ibid.

⁴ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-17A TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$1,512,242.

End of Supply Line 41-17A TIMP Project Final Workpaper



I. SUPPLY LINE 41-19 TIMP PROJECT

A. Background and Summary

Supply Line 41-19 was assessed along in the City of Moreno Valley. This Workpaper describes the activities associated with a Transmission Integrity Management Program (TIMP) that includes Indirect Inspection using aboveground surveys, Direct Examinations made to three sites, and Post-Assessment analysis. The specific attributes of this Project are detailed below in General Project Information. The total loaded cost of the Project is \$928,850.



Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|------------|----------|---------|
| Pipeline | 41-19 | | |
| Assessment Type | | | |
| Location | Moreno Va | lley | |
| Class | | 50 | |
| HCA Length | 0.63 miles | | |
| Project Length | 0.85 miles | <u>~</u> | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 928,850 | 928,850 |



B. Maps and Images

Figure 1: Supply Line 41-19 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-19 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of Moreno Valley.
- 5. <u>Environmental:</u> The Project Team obtained a standard Environmental Clearance.

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Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|-------|------------|-------------|-------------------------------|
| 41-19 | 0.63 miles | | |
| 41-19 | 0.63 miles | | |
| 41-19 | 0.63 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, three Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of Moreno Valley.
- 5. Environmental: The Project Team obtained a standard Environmental Clearance:
 - a. No major impacts or issues were anticipated however additional best management practices were required for any construction activities to avoid possible discharge into the stormwater system along
 - b. An abatement survey was completed by an Industrial Hygienist at all Direct Examination sites.
- 6. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|---------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-19 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

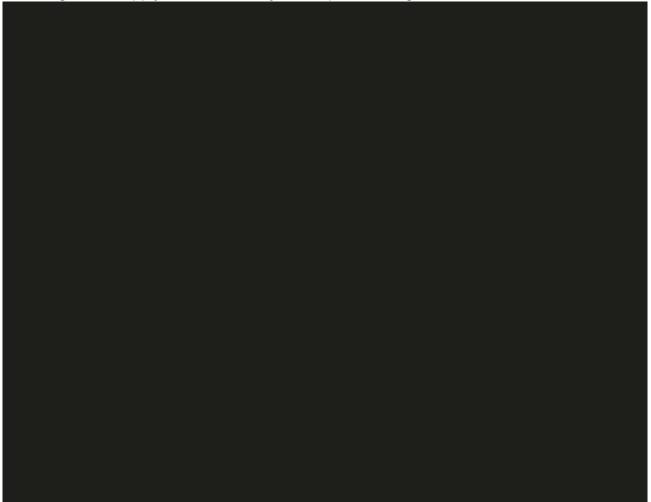
| Direct Examination Details | | |
|------------------------------|-------------------|--|
| Site | 2 | |
| Examination ID | | |
| Pipeline | 41-19 | |
| Mitigation/Remediation Type | Band and Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 15 feet | |
| Cost Category | O&M | |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 41-19 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |









C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Finaly Summary

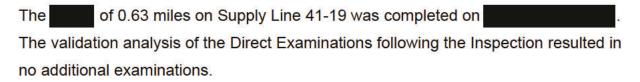


Table 4: Project Summary

| Total Length | 0.63 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

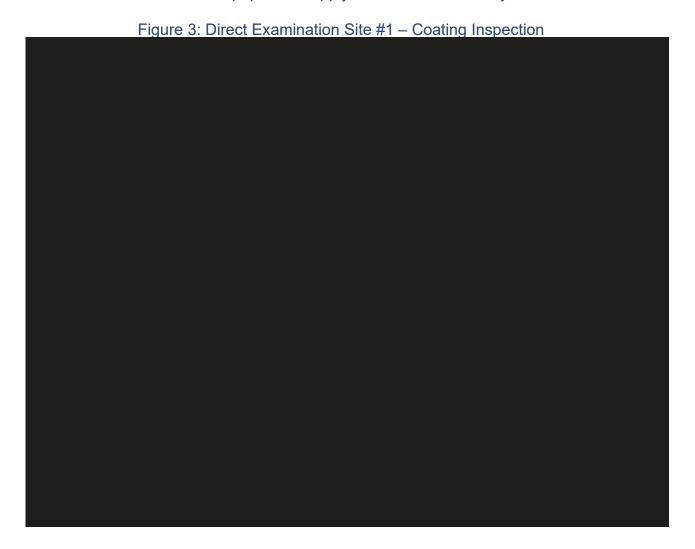
B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |

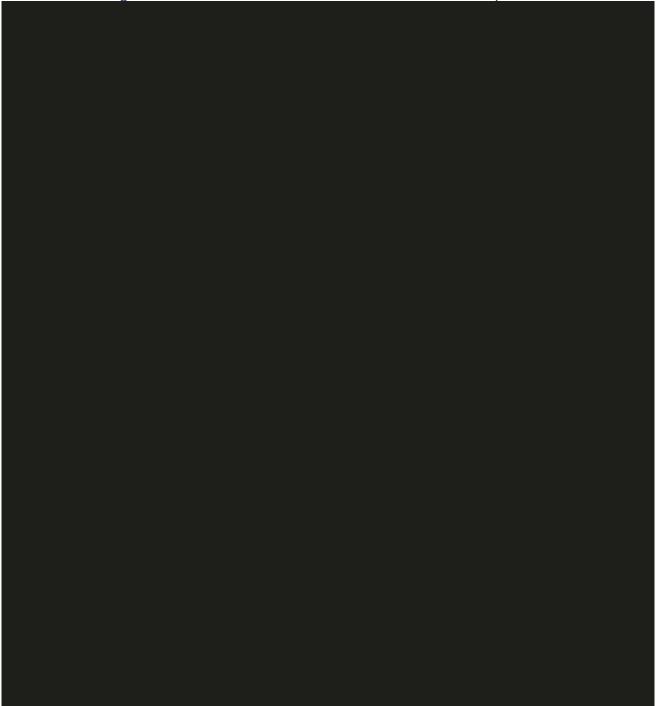
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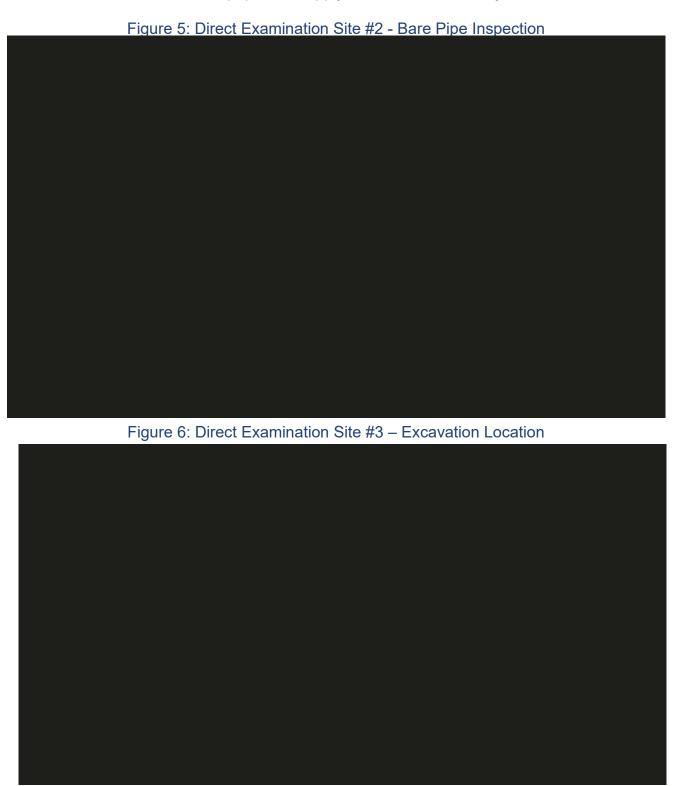














C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs²

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$928,850.

Table 6: Actual Direct Costs3

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 69,346 | 69,346 |
| Contract Costs | 0 | 631,150 | 631,150 |
| Material | 0 | 805 | 805 |
| Other Direct Charges | 0 | 149,462 | 149,462 |
| Total Direct Costs | 0 | 850,763 | 850,763 |

Table 7: Actual Indirect Costs4

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 78,087 | 78,087 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 78,087 | 78,087 |

Table 8: Total Costs⁵

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 928,850 | 928,850 |

² These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

³ Values may not add to total due to rounding.

⁴ Ibid.

⁵ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-19 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$928,850.

End of Supply Line 41-19 TIMP Project Final Workpaper



I. SUPPLY LINE 41-6001-2 TIMP PROJECT

A. Background and Summary

Supply Line 41-6001-2 was assessed from ______ in the City of El Centro. This Workpaper describes the activities associated with a Transmission Integrity Management Program (TIMP)

that

includes Indirect Inspection using aboveground surveys, Direct Examinations made to six sites, and Post-Assessment analysis. The specific attributes of this Project are detailed below in General Project Information. The total loaded cost of the Project is \$3,394,834.

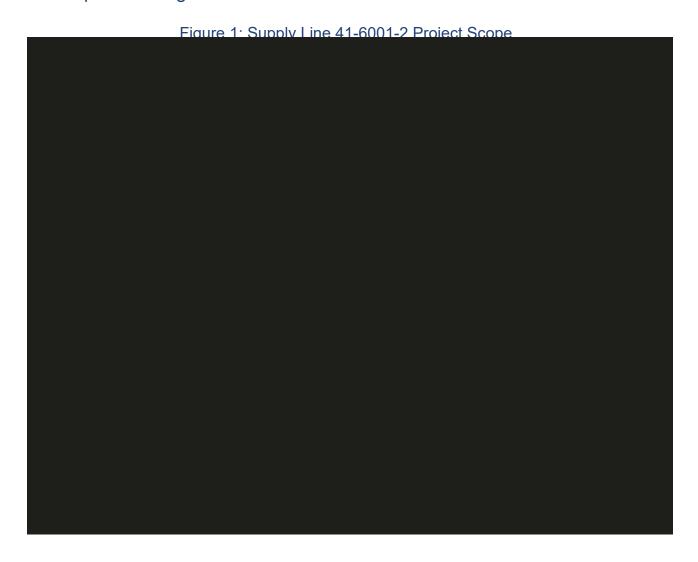


Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|------------|-----------|-----------|
| Pipeline | 41-6001-2 | | |
| Assessment Type | | | |
| Location | El Centro | | |
| Class | 1, 2, 3 | | |
| HCA Length | 3.13 miles | | |
| Project Length | 5.76 miles | | |
| Vintage | | | |
| Pipe Diameter | | | 25 |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | 왕! | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 1,893,513 | 1,501,322 | 3,394,834 |



B. Maps and Images





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 41-6001-2 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the cities of Brawley, Imperial, and El Centro.
 - b. An Encroachment Permit from Caltrans.
- 5. <u>Environmental:</u> No significant environmental constraints were identified.

Confidential and Protected Materials Pursuant to PUC Section 583, General Order 66-D, D.21-09-020, the accompany declaration, and/or non-disclosure agreement; Marked and/or Highlighted is Confidential.



Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|-----------|------------|-------------|----------------------------------|
| 41-6001-2 | 3.13 miles | | |
| 41-6001-2 | 3.13 miles | | |
| 41-6001-2 | 3.13 miles | 20 | |
| 41-6001-2 | 1.58 miles | | |



B. Direct Examination

Following the completion of the Indirect Inspection, six Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. Customer Impacts: No identified customer impacts.
- 3. <u>Community Impacts:</u> The Project Team distributed notices to members of the surrounding community advising that construction operations would take place in the area.
- 4. Permit Restrictions: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the cities of Brawley, Imperial and El Centro.
 - b. An Encroachment Permit from Caltrans.
- 5. Environmental: No significant environmental constraints were identified.
- 6. <u>SRC/IRC:</u> There were Immediate Repair Conditions (IRC) originating from Site #1, Site #4 and Site #5, all were remediated using band repair.



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|-------------------|
| Site | 1 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | Soft Pad and Band |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | Capital |

| Direct Examination Details | |
|------------------------------|-----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|-----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|-------------------|
| Site | 4 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | Soft Pad and Band |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.08 feet |
| Cost Category | Capital |



| Direct Examination Details | |
|------------------------------|-------------------|
| Site | 5 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | Soft Pad and Band |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 58.12 feet |
| Cost Category | Capital |

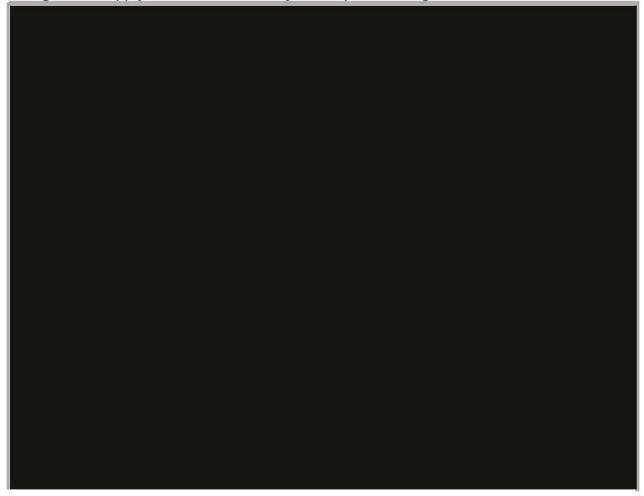
| Direct Examination Details | |
|------------------------------|-----------|
| Site | 6 |
| Examination ID | |
| Pipeline | 41-6001-2 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15 feet |
| Cost Category | O&M |

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Final Workpaper for Supply Line 41-6001-2 TIMP Project

Figure 2: Supply Line 41-6001-2 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

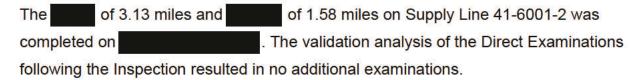


Table 4: Project Summary

| Total Length | 3.13 miles |
|------------------------------------|------------|
| Total Length | 1.58 miles |
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



Figure 3: Direct Examination Site #1 – Band Repair

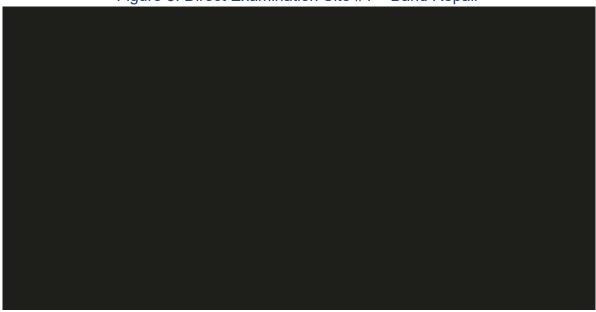
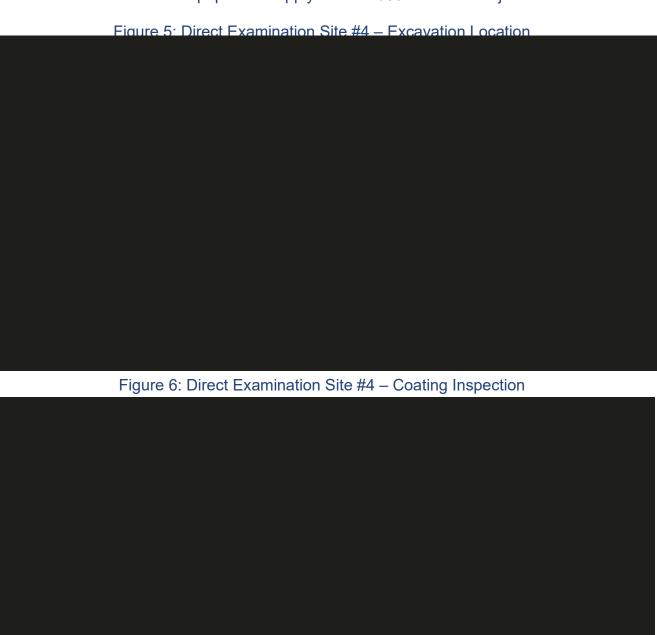


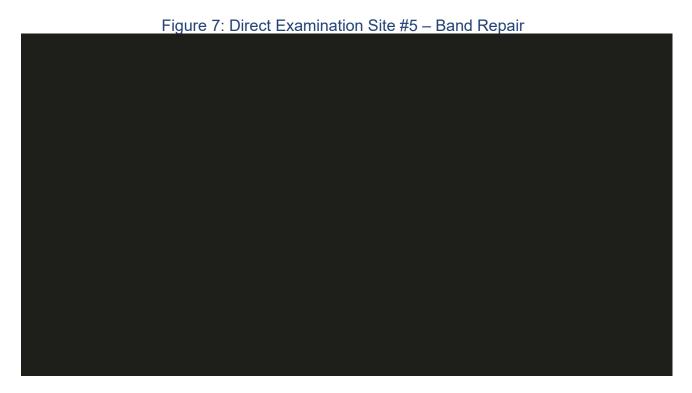
Figure 4: Direct Examination Site #2 – Excavation Location











C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, transportation, and disposal of hydrotest water and hazardous material, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs³

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$3,394,834.

Table 6: Actual Direct Costs4

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 64,836 | 146,483 | 211,319 |
| Contract Costs | 1,174,032 | 405,722 | 1,579,754 |
| Material | 495 | 129,008 | 129,503 |
| Other Direct Charges | 132,720 | 650,967 | 783,687 |
| Total Direct Costs | 1,372,083 | 1,332,180 | 2,704,263 |

Table 7: Actual Indirect Costs⁵

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 517,419 | 169,142 | 686,561 |
| AFUDC | 3,118 | 0 | 3,118 |
| Property Taxes | 892 | 0 | 892 |
| Total Indirect Costs | 521,429 | 169,142 | 690,571 |

Table 8: Total Costs⁶

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|--------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 1,893,513 | 1,501,322 | 3,394,834 |

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³ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁴ Values may not add to total due to rounding.

⁵ Ibid.

⁶ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 41-6001-2 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$3,394,834.

End of Supply Line 41-6001-2 TIMP Project Final Workpaper



I. SUPPLY LINE 44-307 TIMP PROJECT

A. Background and Summary

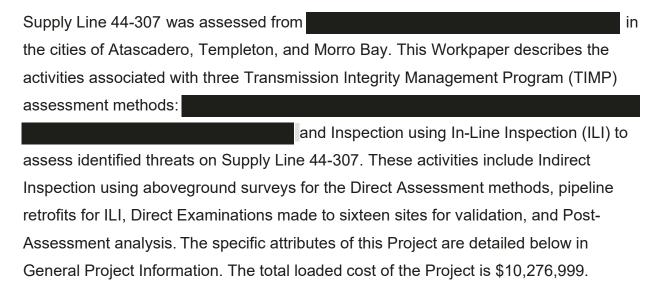


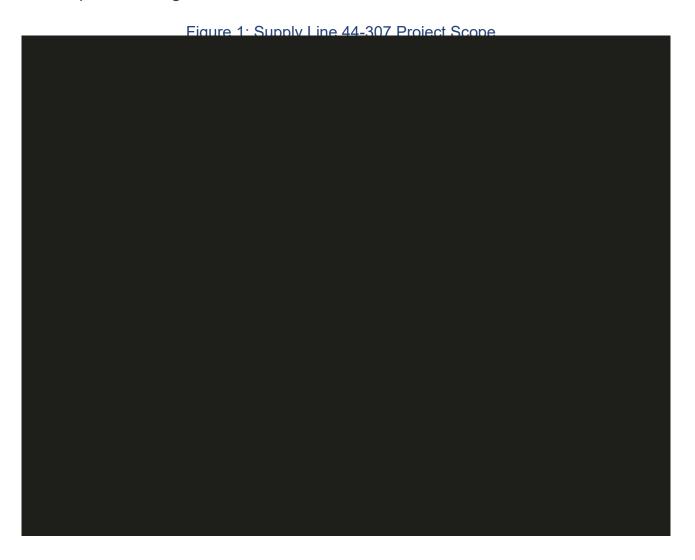


Table 1: General Project Information

| Integrity Assessment Details | | |
|---|---------------------------------------|--|
| General Project Information | | |
| Pipeline | 44-307 | |
| Location | Atascadero, Paso Robles, Morro Bay | |
| Class | 2, 3 | |
| HCA Length | 5.92 miles | |
| Vintage | | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| HCA Threats | | |
| Details | | |
| Assessment Type | | |
| Project Length | 11.18 miles | |
| Project Length | 5.92 miles | |
| Indirect Inspection Completion Date | | |
| Direct Examination Completion Date | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Assessment Due Date | | |
| ILI Assessment Details | | |
| Inspection Type | | |
| ILI Length | 1.27 miles | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Direct Examination Construction Start Date | | |
| Direct Examination Construction Completion Date | | |
| Final Tool Run Date | 2 | |
| Inspection Due Date | | |
| Project Costs (\$) | Capital O&M Total | |
| Loaded Project Costs | 3,922,030 6,354,969 10,276,999 | |



B. Maps and Images





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Inspection

SoCalGas initiated the planning process for the Supply Line 44-307 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the inspection tools.



Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained traffic control drawings and plans from the cities of Atascadero and Paso Robles.
- 5. <u>Environmental:</u> No significant environmental constraints were identified.



Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|--------|------------|-------------|----------------------------------|
| 44-307 | 5.92 miles | | |
| 44-307 | 5.92 miles | | |
| 44-307 | 5.92 miles | | |
| 44-307 | 5.92 miles | | 95 P |
| 44-307 | 5.92 miles | | |
| 44-307 | 5.92 miles | | |
| 44-307 | 5.92 miles | | |

In-line Inspection (ILI)

Key factors that influenced the planning and execution of the Project Inspection(s) are as follows:

- System Analysis, Engineering, Design, and Constructability: The Project Team completed a review of the pipeline system to evaluate project feasibility and established a current interruption plan.
 - a. A segment of pipeline could not be inspected using traditional methods, and was required. Previous assessments for Supply Line 44-307 were completed using other methods, a first-time ILI, and the required retrofits to facilitate the Inspection were performed.
 - b. The Project Team installed two in preparation for the A validation spool piece was fabricated and utilized to validate the data.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- Community Impacts: No identified community impacts.
- Permits Restrictions: The Project Team obtained permits, traffic control drawings and plans from the City of Atascadero.
- Land Use: The Project Team obtained:



- a. Temporary Right of Entry (TRE) from a local property owner in the City of Atascadero for the installation of
- b. TRE from a local property owner in the City of Morro Bay.
- TRE from a local property owner to use as a laydown yard in the City of Atascadero.
- 6. Inspection Tools and Technology: The Project Team utilized a to inspect casings on the pipeline.

 a. The first inspected two (2) cased pipeline segment in the City of Atascadero.

 b. The second inspected one (1) cased pipeline segment in the City of Morro Bay.
- 7. Environmental: No significant environmental constraints were identified.

Table 3: Inspection Project Scope -

| Line | Length | Threat Type | Inspection Technology | Tool Method of Travel | Retrofits |
|--------|------------|-------------|--------------------------|--------------------------|-----------|
| 44-307 | 1.27 miles | | | | |



B. Direct Examination

Following the completion of the Inspection step, seven Direct Examination sites were identified for validation, seven for validation and two for ILI validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility and established a current interruption plan.
- 2. Customer Impacts: No customer impacts identified.
- 3. Community Impacts: No community impacts identified.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the cities of Atascadero and Paso Robles.

5. Land Use:

- a. TRE at Site #1 obtained from a local property owner for use as a laydown yard and use of its 50-foot easement for excavation.
- b. TRE at Site #5 obtained from a local property owner for use as a laydown yard and use of its 50-foot easement for excavation.
- c. TRE at Site #7 obtained from a local property owner that for use as a laydown yard and use of its 50-foot easement for excavation.
- d. TRE at Site #8 obtained from a local property owner for use as a laydown yard and use of its 50-foot easement for excavation.



- e. TRE at Site #10 obtained from a local property owner that for use as a laydown yard and use of its 50-foot easement for excavation.
- f. TRE at Site #11 obtained from a local property owner for use as a laydown yard and use of its 50-foot easement for excavation.
- g. TRE obtained from a local property owner to use as a laydown yard in the City of Paso Robles
- Environmental: Additional considerations were taken for projects in San Luis
 Obispo Air Pollution Control District for the presence of asbestos during coating removal.
- 7. <u>SRC/IRC:</u> There were four Immediate Repair Conditions (IRC). Rapid communications and procedures were followed for temporary pressure reduction.
 - a. There were two IRCs at Site #2 that originated from Direct Examination. Soft pad, and a band was utilized to remediate the condition on the pipeline.
 - b. There was an IRC at Site #15 that originated from Examination. Soft pad and cylindrical replacement were performed to remove the condition.
 - c. There was an IRC at Site #16 that originated from Direct Examination. Soft pad and cylindrical replacement were performed to remove the condition.



Table 4: Final Direct Examination Project Details

| Direct Examination Details | | |
|------------------------------|------------|--|
| Site | 1 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | No. | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 19.33 feet | |
| Cost Category | O&M | |

| Direct Examination Details | |
|------------------------------|-------------------|
| Site | 2 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad and Band |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 20 feet |
| Cost Category | Capital |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 41 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 4 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 18 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 20 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 6 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 20 feet |
| Cost Category | O&M |



| Direct Examination Details | | |
|------------------------------|------------|--|
| Site | 7 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 40.08 feet | |
| Cost Category | O&M | |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 8 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | No |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 40 feet |
| Cost Category | O&M |



| Direct Examination Details | | |
|------------------------------|---------|--|
| Site | 9 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | None | |
| Within HCA | No | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 40 feet | |
| Cost Category | O&M | |

| Direct Examination Details | | |
|------------------------------|----------|--|
| Site | 10 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | No | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 40 feet | |
| Cost Category | O&M | |



| Direct Examination Details | | |
|------------------------------|----------|--|
| Site | 11 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 40 feet | |
| Cost Category | O&M | |

| Direct Examination Details | | |
|------------------------------|-----------|--|
| Site | 12 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 27.5 feet | |
| Cost Category | O&M | |



| Direct Examination Details | | |
|------------------------------|----------|--|
| Site | 13 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 40 feet | |
| Cost Category | O&M | |

| Direct Examination Details | | |
|------------------------------|------------|--|
| Site | 14 | |
| Examination ID | | |
| Pipeline | 44-307 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion Date | | |
| Replacement Length | N/A | |
| Inspection Length | 20.83 feet | |
| Cost Category | O&M | |



| Direct Examination Details | |
|------------------------------|--------------------------------------|
| Site | 15 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad and Cylindrical Replacement |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | 9 feet |
| Inspection Length | 15.6 feet |
| Cost Category | Capital |

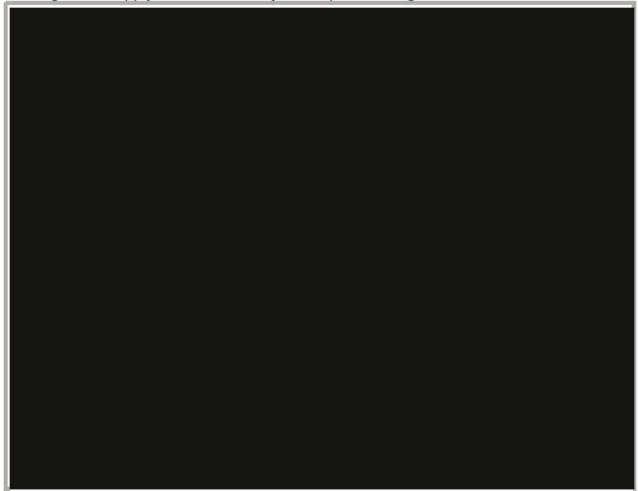
| Direct Examination Details | |
|------------------------------|--------------------------------------|
| Site | 16 |
| Examination ID | |
| Pipeline | 44-307 |
| Mitigation/Remediation Type | Soft Pad and Cylindrical Replacement |
| Within HCA | Yes |
| SRC/IRC | Yes |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | 9.3 feet |
| Inspection Length | 15 feet |
| Cost Category | Capital |

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Final Workpaper for Supply Line 44-307 TIMP Project

Figure 2: Supply Line 44-307 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

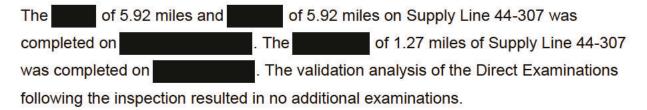


Table 5: Project Summary

| Total Length | 5.92 miles |
|------------------------------------|------------|
| Total Length | 5.92 miles |
| Total Length | 1.27 miles |
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 6: Construction Timeline - Inspection

| Construction Start Date | |
|---|--|
| Construction Completion Date | |
| Direct Examination Construction Start Date | |
| Direct Examination Construction Completion Date | |
| Inspection Due Date | |

| Table 7: Construction Timeline - | Direct Examination |
|----------------------------------|--------------------|
|----------------------------------|--------------------|

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |





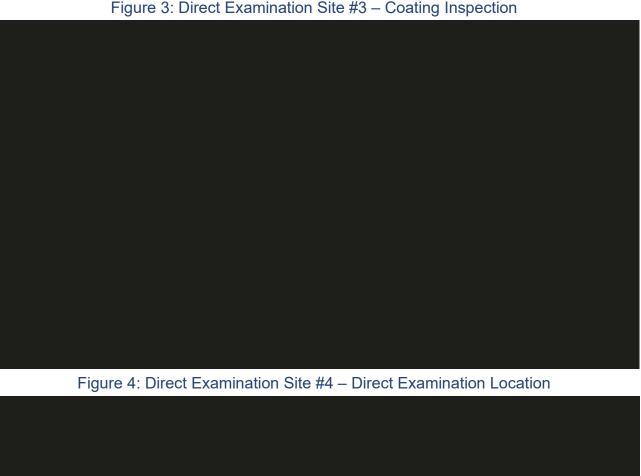
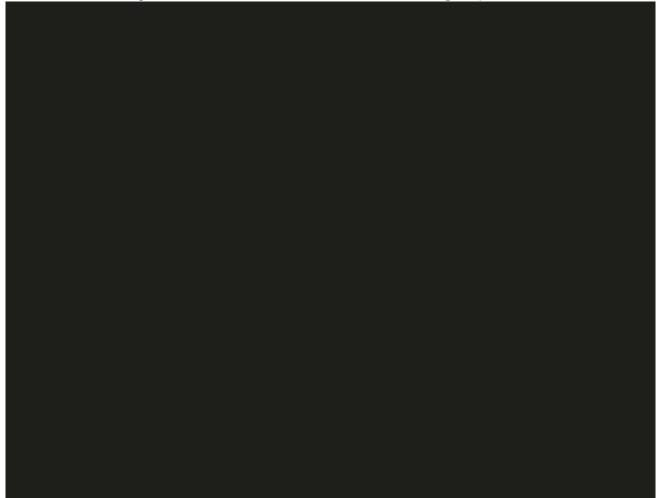




Figure 5: Direct Examination Site #7 – Coating Inspection



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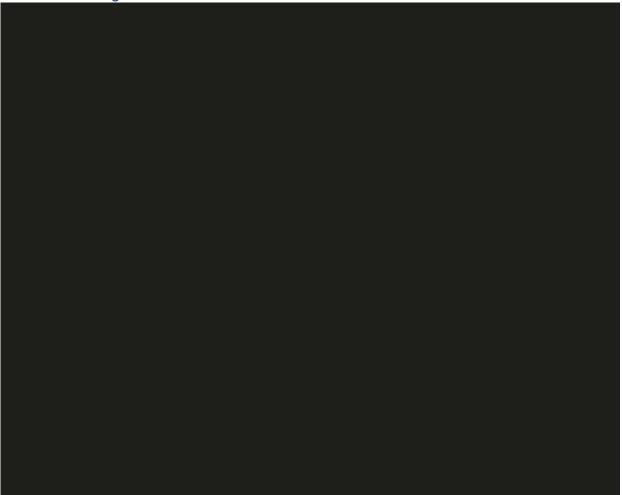


Final Workpaper for Supply Line 44-307 TIMP Project

Figure 6: Direct Examination Site #8 – Excavation Location







C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, transportation, and disposal of hydrotest water and hazardous material, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs²

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$10,276,999.

Table 8: Actual Direct Costs3

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 149,633 | 519,583 | 669,215 |
| Contract Costs | 2,067,406 | 3,662,655 | 5,730,061 |
| Material | 204,527 | 5,136 | 209,662 |
| Other Direct Charges | 359,209 | 1,517,582 | 1,876,791 |
| Total Direct Costs | 2,780,774 | 5,704,955 | 8,485,729 |

Table 9: Actual Indirect Costs4

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 1,131,499 | 650,014 | 1,781,513 |
| AFUDC | 5,803 | 0 | 5,803 |
| Property Taxes | 3,954 | 0 | 3,954 |
| Total Indirect Costs | 1,141,256 | 650,014 | 1,791,269 |

Table 10: Total Costs⁵

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 3,922,030 | 6,354,969 | 10,276,999 |

² These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

³ Values may not add to total due to rounding.

⁴ Ibid.

⁵ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 44-307 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$10,276,999.

End of Supply Line 44-307 TIMP Project Final Workpaper



I. SUPPLY LINE 44-800 & SUPPLY LINE 44-800A TIMP PROJECT

A. Background and Summary

loaded cost of the Project is \$428,496.

Supply Line 44-800 & Supply Line 44-800A were assessed on in the City of Santa Clarita. This Workpaper describes the activities associated with made at two sites, and Post-Assessment analysis. The specific attributes of this Project are detailed below in General Project Information. The total

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Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

Table 1: General Project Information

| Integrity Assessment Details | | | |
|------------------------------------|---------------|---------|---------|
| Assessment Type | | | |
| Location | Santa Clarita | a | |
| HCA Threats | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Direct Examination Completion Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 428,496 | 428,496 |

| Integrity Assessment Details Per | Line |
|----------------------------------|---------|
| Pipeline | 44-800 |
| Class | |
| HCA Length | 13 feet |
| Project Length | 13 feet |
| Vintage | |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Assessment Due Date | |

| Integrity Assessment Details Per Line | |
|---------------------------------------|---------|
| Pipeline | 44-800A |
| Class | |
| HCA Length | 13 feet |
| Project Length | 13 feet |
| Vintage | |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Assessment Due Date | |



B. Maps and Images

Figure 1: Supply Line 44-800 & Supply Line 44-800A Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), Transmission Integrity Management Program (TIMP) projects follow a four-step assessment process: Pre-Assessment, Inspection, Direct Examination, and Post-Assessment. However, TIMP projects assessed using use excavations of the covered segment in lieu of Indirect Inspection. This Workpaper outlines construction activities during the Assessment process that occurred during the Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.



A. Direct Examination

SoCalGas initiated the planning process for the Supply Line 44-800 & Supply Line 44-800A by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project and identify covered segments to be assessed using locations. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a Project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the City of Santa Clarita.
 - b. An Encroachment Permit from the City of Santa Clarita to perform night work between 8:30pm and 4:30am.
- 5. Environmental: No significant environmental constraints were identified.

Confidential and Protected Materials Pursuant to PUC Section 583, General Order 66-D, D.21-09-020, the accompany declaration, and/or non-disclosure agreement; Marked and/or Highlighted is Confidential.



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

Table 2: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|-----|
| Site | 1 |
| Construction Start Date | |
| Construction Completion Date | |
| Cost Category | N/A |

| Direct Examination Details | |
|-----------------------------|-----------|
| Examination ID | |
| Pipeline | 44-800 |
| Mitigation/Remediation Type | None |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Replacement Length | N/A |
| Inspection Length | 1.75 feet |

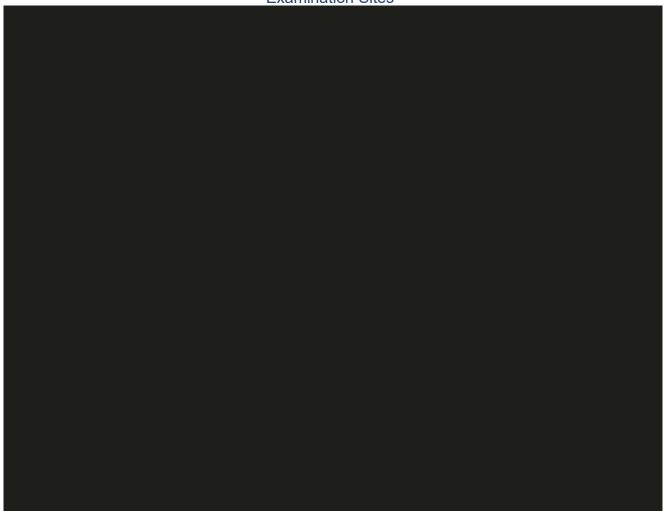
| Direct Examination Details | |
|------------------------------|-----|
| Site | 2 |
| Construction Start Date | |
| Construction Completion Date | |
| Cost Category | O&M |

| Direct Examination Details | |
|-----------------------------|----------|
| Examination ID | |
| Pipeline | 44-800A |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | N/A |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Replacement Length | N/A |
| Inspection Length | 0.5 feet |



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

Figure 2: Supply Line 44-800 & Supply Line 44-800A Project Scope Including Direct Examination Sites





Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

B. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

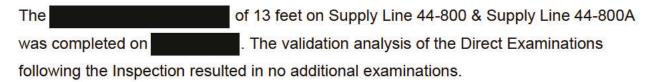


Table 3: Project Summary

| Total Length | 13 feet |
|------------------------------------|---------|
| Direct Examination Completion Date | |



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 4: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

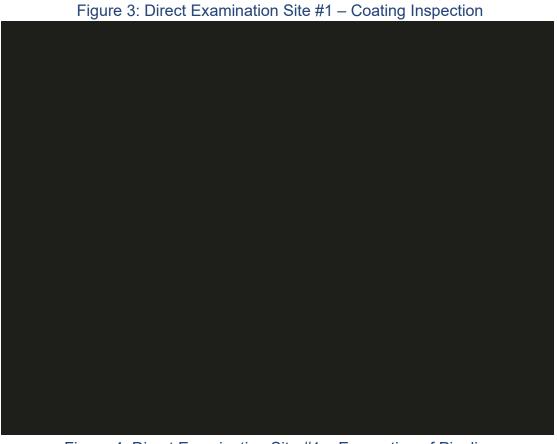
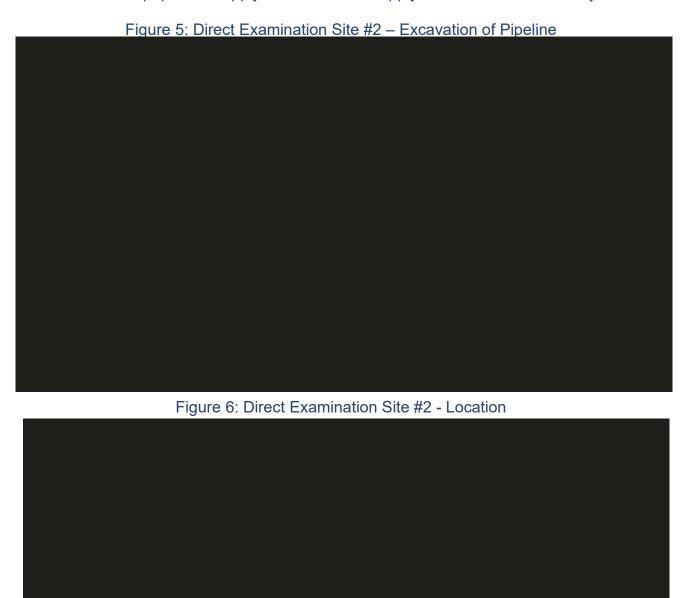


Figure 4: Direct Examination Site #1 – Excavation of Pipeline





Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project





Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

IV. PROJECT COSTS

A. Actual Costs1

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$428,496.

Table 5: Actual Direct Cost2

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 74,675 | 74,675 |
| Contract Costs | 0 | 192,282 | 192,282 |
| Material | 0 | 17,032 | 17,032 |
| Other Direct Charges | 0 | 75,783 | 75,783 |
| Total Direct Costs | 0 | 359,772 | 359,772 |

Table 6: Actual Indirect Costs³

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 68,725 | 68,725 |
| AFUDC | 0 | 0 | 0 |
| Property Taxes | 0 | 0 | 0 |
| Total Indirect Costs | 0 | 68,725 | 68,725 |

Table 7: Total Costs4

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 428,496 | 428,496 |

¹ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

² Values may not add to total due to rounding.

³ Ibid.

⁴ Ibid.



Final Workpaper for Supply Line 44-800 & Supply Line 44-800A TIMP Project

V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 44-800 & Supply Line 44-800A TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$428,496.

End of Supply Line 44-800 & Supply Line 44-800A TIMP Project Final Workpaper



I. SUPPLY LINE 44-1008 TIMP PROJECT

A. Background and Summary

Supply Line 44-1008 was assessed from the cities of Avenal and Atascadero. This Workpaper describes the activities associated with a Transmission Integrity

Management Program (TIMP)

that includes Indirect

Inspection using aboveground surveys, Direct Examinations made to five sites, and Post-Assessment. The specific attributes of this Project are detailed below in General Project Information. The total loaded cost of the Project is \$2,388,911.



Table 1: General Project Information

| Integrity Assessment Details | | | |
|-------------------------------------|-----------|------------|-----------|
| Pipeline | 44-1008 | | |
| Assessment Type | | | |
| Location | Avenal, A | \tascadero | |
| Class | 2, 3 | | |
| HCA Length | 0.23 mile | S | |
| Project Length | 3.32 mile | S | |
| Vintage | | | |
| Pipe Diameter | | | |
| MAOP | | | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | , |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 0 | 2,388,911 | 2,388,911 |





B. Maps and Images

Figure 1: Supply Line 44-1008 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 44-1008 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No identified customer impacts.
- 3. Community Impacts: No identified community impacts.
- 4. <u>Permit Restrictions</u>: The Project Team obtained:
 - a. Permits, traffic control drawings and plans from the City of Atascadero.
 - b. An Encroachment Permit from the County of San Luis Obispo.
- 5. Environmental: No significant environmental constraints were identified.



Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|---------|------------|-------------|----------------------------------|
| 44-1008 | 0.23 miles | | 70 May 2 |
| 44-1008 | 0.23 miles | | |
| 44-1008 | 0.23 miles | | |
| 44-1008 | 950 feet | 200 | |
| 44-1008 | 950 feet | | |
| 44-1008 | 950 feet | | 80 |
| 44-1008 | 950 feet | | |



B. Direct Examination

The objectives of the Direct Examination step are to determine which indications from the Indirect Inspection step are most severe and collect data to assess corrosion activity. Following the completion of the Indirect Inspections, five Direct Examination sites were identified for validation.

For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. Customer Impacts: No identified customer impacts.
- 3. <u>Community Impacts:</u> No identified community impacts.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of Atascadero.
- 5. <u>Land Use:</u> Obtained a Temporary Right of Entry (TRE) from the property owner at Site #1 and Site #4 to use as a laydown yard and perform the Direct Examinations.
- 6. <u>Environmental:</u> The Project required a certified arborist to monitor construction activities at Sites #1 and #2 to ensure compliance with the City of Atascadero's Native Tree Ordinance Guidelines and Native Tree Regulations.
- 7. SRC/IRC: N/A



Table 3: Final Direct Examination Project Details

| Direct Examination Details | |
|------------------------------|----------|
| Site | 1 |
| Examination ID | |
| Pipeline | 44-1008 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 2 |
| Examination ID | |
| Pipeline | 44-1008 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|----------|
| Site | 3 |
| Examination ID | |
| Pipeline | 44-1008 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |

| Direct Examination Details | |
|------------------------------|----------|
| Site | 4 |
| Examination ID | |
| Pipeline | 44-1008 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 16 feet |
| Cost Category | O&M |



| Direct Examination Details | |
|------------------------------|-----------|
| Site | 5 |
| Examination ID | |
| Pipeline | 44-1008 |
| Mitigation/Remediation Type | Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | N/A |
| Inspection Length | 15.5 feet |
| Cost Category | O&M |



Figure 2: Supply Line 44-1008 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

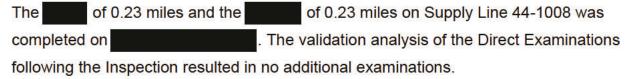


Table 4: Project Summary

| Total Length | 0.23 miles |
|------------------------------------|------------|
| Total Length | 0.23 miles |
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline – Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |





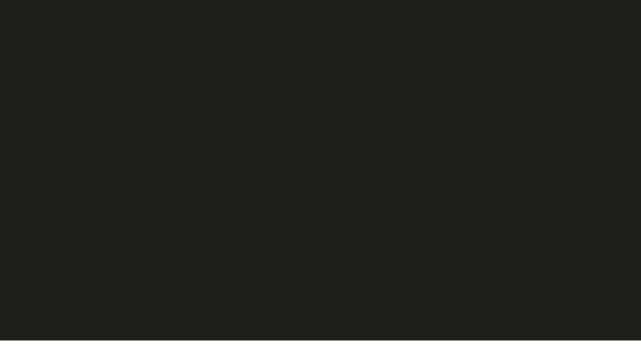


Figure 4: Direct Examination Site #2 – Direct Examination Location





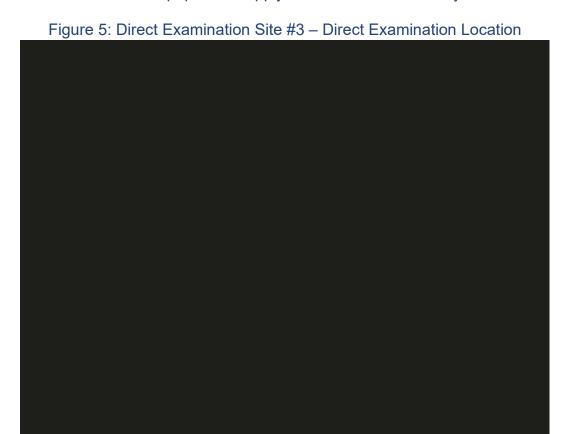


Figure 6: Direct Examination Site #5 – Bare Pipeline





C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A Actual Costs4

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$2,388,911.

Table 6: Actual Direct Costs⁵

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 0 | 164,855 | 164,876 |
| Contract Costs | 0 | 1,416,434 | 1,416,434 |
| Material | 0 | 24,333 | 24,333 |
| Other Direct Charges | 0 | 548,820 | 548,805 |
| Total Direct Costs | 0 | 2,154,441 | 2,154,448 |

Table 7: Actual Indirect Costs⁶

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 0 | 234,434 | 234,427 |
| AFUDC | 0 | 29 | 29 |
| Property Taxes | 0 | 7 | 7 |
| Total Indirect Costs | 0 | 234,469 | 234,462 |

Table 8: Total Costs7

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 0 | 2,388,911 | 2,388,911 |

⁴ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁵ Values may not add to total due to rounding.

⁶ Ibid.

⁷ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 44-1008 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$2,388,911.

End of Supply Line 44-1008 TIMP Project Final Workpaper



I. SUPPLY LINE 45-163 TIMP PROJECT

A. Background and Summary

Supply Line 45-163 was assessed from in the City of Newhall to in the City of Stevenson Ranch. This Workpaper describes the activities associated with a Transmission Integrity Management Program (TIMP) that includes Indirect Inspection using aboveground surveys, Direct Examinations made to two sites, and Post-Assessment analysis. The specific attributes of this Project are detailed below in General Project Information. The total loaded cost of the Project is \$1,782,252.



Table 1: General Project Information

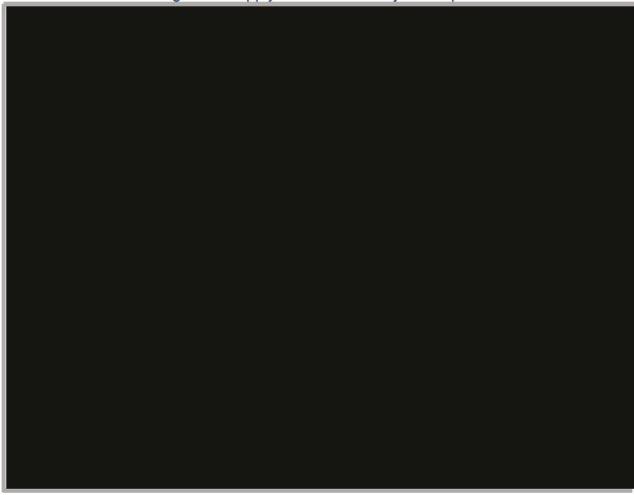
| Integrity Assessment Details | | | |
|-------------------------------------|----------------|-------------|-----------|
| Pipeline | 45-163 | | |
| Assessment Type | | | |
| Location | Newhall, Steve | enson Ranch | |
| Class | | | |
| HCA Length | 1.84 miles | | |
| Project Length | 1.96 miles | | |
| Vintage | | | |
| Pipe Diameter | | | * |
| MAOP | | 17 | |
| SMYS | | | |
| HCA Threats | | | |
| Indirect Inspection Completion Date | | | |
| Direct Examination Completion Date | | | |
| Construction Start Date | | | |
| Construction Completion Date | | | |
| Assessment Due Date | | 26 | |
| Project Costs (\$) | Capital | O&M | Total |
| Loaded Project Costs | 1,246,800 | 535,452 | 1,782,252 |





B. Maps and Images

Figure 1: Supply Line 45-163 Project Scope





II. ENGINEERING, DESIGN, AND CONSTRUCTABILITY

As described in the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis Sera (Chapter II), TIMP projects follow a four-step assessment process: Pre-Assessment, Indirect Inspection, Direct Examination, and Post-Assessment. This Workpaper outlines construction activities during the Assessment process that occurred during the Indirect Inspection(s), Direct Examination(s) and Post-Assessment.

Prior to initiating execution of the assessment, SoCalGas reviewed available information and performed a detailed system analysis to verify the scope of the Project.

A. Indirect Inspection

SoCalGas initiated the planning process for the Supply Line 45-163 by performing a Pre-Assessment engineering analysis to determine existing conditions and any impacts to the Project, confirm the appropriate assessment methods, and select the Indirect Inspection tools.

Key factors that influenced the planning and execution of the Project Indirect Inspection(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed a review of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No customer impacts were identified.
- 3. Community Impacts: No community impacts were identified.
- 4. <u>Permit Restrictions:</u> The Project Team obtained permits, traffic control drawings and plans from the City of Santa Clarita and County of Los Angeles.
- 5. <u>Environmental:</u> No significant environmental constraints were identified.



Table 2: Indirect Inspection Segments

| Line | Length | Threat Type | Indirect Inspection Tool Type |
|--------|------------|-------------|----------------------------------|
| 45-163 | 1.84 miles | | |
| 45-163 | 1.84 miles | | |
| 45-163 | 1.84 miles | | ×- |



B. Direct Examination

Following the completion of the Indirect Inspection, two Direct Examination sites were identified for validation. For each examination location, SoCalGas conducted site evaluations, communicated with stakeholders, performed potholing of the area to identify the presence of underground utilities and substructures, and prepared a project schedule that met criteria followed for examination.

Key factors that influenced the planning and execution of the Project Direct Examination(s) are as follows:

- 1. <u>System Analysis:</u> The Project Team completed an analysis of the pipeline system to evaluate project feasibility, and established a current interruption plan.
- 2. <u>Customer Impacts:</u> No customer impacts were identified.
- 3. Community Impacts: No community impacts were identified.
- 4. <u>Permit Restrictions:</u> The Project Team obtained flood and road permits, traffic control drawings and plans from the County of Los Angeles.
- 5. Environmental: No significant environmental constraints were identified.
- 6. SRC/IRC: N/A
- 7. Other Identified Risks: Three dents were found within two feet of each other requiring replacement for Site #2. In order to find a suitable tie-in location, the excavation and bare pipe inspection extents had to be extended twice.



Table 3: Final Direct Examination Project Details

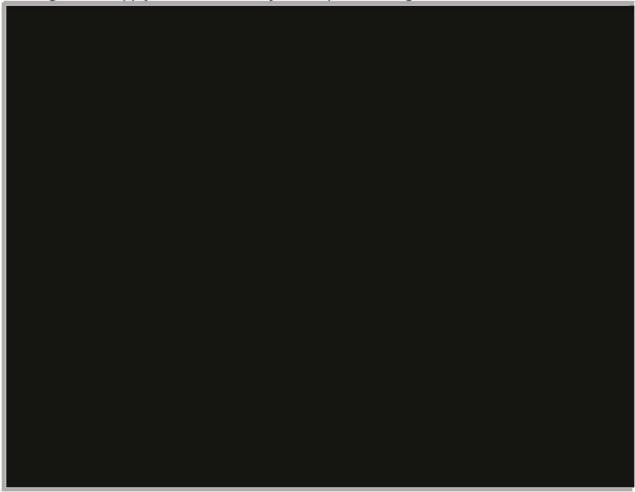
| Direct Examination Details | | |
|-----------------------------|----------|--|
| Site | 1 | |
| Examination ID | | |
| Pipeline | 45-163 | |
| Mitigation/Remediation Type | Soft Pad | |
| Within HCA | Yes | |
| SRC/IRC | No | |
| Pipe Diameter | - 42 | |
| MAOP | | |
| SMYS | | |
| Construction Start Date | | |
| Construction Completion | | |
| Date | 1 | |
| Replacement Length | N/A | |
| Inspection Length | 19 feet | |
| Cost Category | O&M | |

| Direct Examination Details | |
|------------------------------|--------------------------|
| Site | 2 |
| Examination ID | |
| Pipeline | 45-163 |
| Mitigation/Remediation Type | Replacement and Soft Pad |
| Within HCA | Yes |
| SRC/IRC | No |
| Pipe Diameter | |
| MAOP | |
| SMYS | |
| Construction Start Date | |
| Construction Completion Date | |
| Replacement Length | 22.25 feet |
| Inspection Length | 18.5 feet |
| Cost Category | Capital |



Final Workpaper for Supply Line 45-163 TIMP Project

Figure 2: Supply Line 45-163 Project Scope Including Direct Examination Sites





C. Post-Assessment

The Post-Assessment step involves evaluating and documenting the effectiveness of the inspection tools, documenting the result of the assessment and the length of pipeline assessed, communicating assessment results to the stakeholders, identifying appropriate follow up Preventive and Mitigative measures, if necessary, and establishing the reassessment interval for the pipeline.

Final Summary

The of 1.84 miles on Supply Line 45-163 was completed on validation analysis of the Direct Examinations following the inspection resulted in no additional examinations.

Table 4: Project Summary

| Total Length | 1.84 miles |
|------------------------------------|------------|
| Direct Examination Completion Date | |



III. CONSTRUCTION

A. Construction Contractor Selection

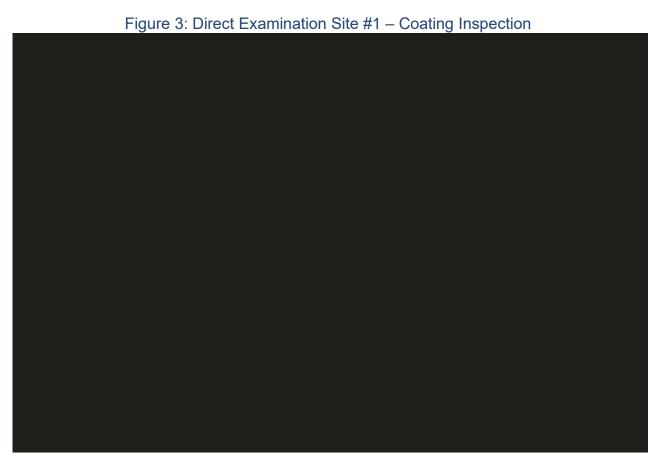
Following completion of the engineering, design, and planning activities described above, SoCalGas selected the Construction Contractor that best met the selection criteria for this Project.

B. Construction Schedule

Table 5: Construction Timeline - Direct Examination

| Construction Start Date | |
|------------------------------|--|
| Construction Completion Date | |





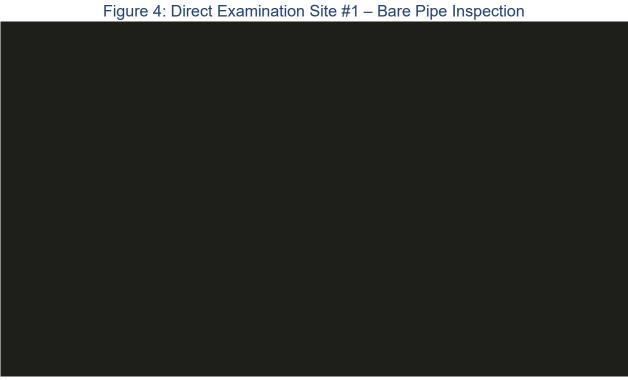








Figure 6: Direct Examination Site #2 – Extension of Bare Pipe Inspection





C. Commissioning and Site Restoration

Commissioning activities include restoration of the site, final inspection, and placement of the pipeline back into service, and disposal of hydrotest water and hazardous material, and site demobilization. Closeout activities include development of final drawings, finalization of a reconciliation package, and updates to company recordkeeping systems to reflect the completed scope of work.



IV. PROJECT COSTS

A. Actual Costs³

Actual loaded costs reflect the Labor, Material, and Services costs incurred to execute the Project. The total loaded cost of the Project is \$1,782,252.

Table 6: Actual Direct Costs4

| Direct Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Company Labor | 49,281 | 89,805 | 139,086 |
| Contract Costs | 784,640 | 148,904 | 933,544 |
| Material | 0 | 0 | 0 |
| Other Direct Charges | 131,674 | 222,176 | 353,850 |
| Total Direct Costs | 965,595 | 460,885 | 1,426,480 |

Table 7: Actual Indirect Costs⁵

| Indirect Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|-----------------------------|---------------|-----------|--------------------|
| Overheads | 280,612 | 74,567 | 355,179 |
| AFUDC | 555 | 0 | 555 |
| Property Taxes | 38 | 0 | 38 |
| Total Indirect Costs | 281,205 | 74,567 | 355,772 |

Table 8: Total Costs⁶

| Total Costs (\$) | Capital Costs | O&M Costs | Total Actual Costs |
|---------------------------|---------------|-----------|--------------------|
| Total Loaded Costs | 1,246,800 | 535,452 | 1,782,252 |

³ These are the total project costs incurred between January 1, 2019, and December 31, 2023. Only direct costs and vacation and sick contribute to the TIMPBA revenue requirement that is presented in the Prepared Direct Testimony of Rae Marie Yu (Chapter III).

⁴ Values may not add to total due to rounding.

⁵ Ibid.

⁶ Ibid.



V. CONCLUSION

SoCalGas enhanced the integrity of its natural gas system by executing the Supply Line 45-163 TIMP Project. Through this Project, SoCalGas implemented and managed the requirements set forth in 49 C.F.R. § 192, Subpart O including the continual identification of threats to its pipelines, determination of the risk posed by these threats, scheduling and tracking assessments to address threats, conducting appropriate assessment in a prescribed timeline, collecting information about the condition of the pipelines, taking actions to minimize applicable threats and integrity concerns to reduce the risk of a pipeline failure, and reporting the findings of the assessment. The total loaded cost of the Project is \$1,782,252.

End of Supply Line 45-163 TIMP Project Final Workpaper

APPENDIX A

SOCALGAS'S TIMP GLOSSARY OF ACRONYMS AND TERMS

The following list of acronyms, terms and high-level definitions are intended to accompany the TIMP workpapers and testimony¹. These acronyms and terms describe gas operations, construction and land use terms that may not be commonly known. This is not a comprehensive or detailed glossary of utility and construction terms. It is assumed that the reader is familiar with basic utility industry and regulatory terms, and those terms and acronyms have been intentionally omitted from this list.

| Acronym | Term | Definition | |
|---------|---|--|--|
| AGS | Aboveground Survey | Equipment and practices used to take measurements at ground surface above or near a pipeline to locate or characterize corrosion activity, coating holidays, or other anomalies. Also known as an indirect inspection. | |
| ACA | Alternating Current Attenuation Survey | Measures the electromagnetic field attenuation emanating from the pipe induced with an AC signal. Qualitatively ranks coating quality and highlights areas with the largest holidays. | |
| ACVG | Alternating Current Voltage Gradient | A method of measuring the change in leakage current in the soil along and around a pipeline to locate coating holidays and characterize corrosion activity. Similar to a DCVG survey except that an AC signal is applied to the target pipeline. This survey technique is reserved for determining pipe-to-casing continuity and measuring voltage gradients in electrolyte. | |
| | Band | A protective casing that can be used to repair gas transmission pipelines. It allows for full encirclement repair over damage/defects. Also known as welded steel sleeve. | |
| | Brush Magnetic Tool | The tool is designed to clean pipelines and prepare them for inspection. This tool combines mechanical brushing with magnetic elements to remove debris, rust, and other contaminants from the pipeline's interior surface. This tool is utilized to increase the operating efficiency of a pipeline or to facilitate inspection of the pipeline. | |
| СР | Cathodic Protection | The reduction or elimination of corrosion by making a steel pipeline a cathode by means of an impressed direct current or attachment of a sacrificial anode. | |
| | Class Location | An onshore area that extends 220 yards on either side of the centerline of any continuous 1-mile length of pipeline. Class location units are categorized as Class 1 through 4. Class 1 locations are more rural, and Class 4 locations are more urban. | |

¹ Prepared Direct Testimony of Travis Sera (Chapter 1, Exhibit SCG-01) and Prepared Direct Testimony of Jordan Zeoli, Fidel Galvan and Travis Sera (Chapter 2, Exhibit SCG-02)

| Acronym | Term | Definition |
|---------|---|---|
| CIS | Close Interval Survey | An inspection technique that includes a series of above ground pipe-to-soil potential measurements taken at predetermined increments of several feet (i.e. 2-100 feet) along the pipeline and used to provide information on the effectiveness of the cathodic protection system. |
| | Combination Tool | An instrumented in-line inspection tool designed to perform both geometry (deformation or caliper) inspections as well as metal loss inspections with a single tool chassis. |
| С | Construction Threat | Pipe girth weld, fabrication weld, wrinkle bend or buckle, stripped threads, broken pipe or coupling. |
| | Covered Segment | A segment of gas transmission pipeline located in a high consequence area (HCA). |
| | Curtailment | A temporary reduction or interruption of natural gas service to customers. This usually occurs due to system capacity limitations, maintenance, or emergencies. The process involves prioritizing certain customers and following regulation to manage the limited supply. |
| DCVG | Direct Current Voltage Gradient | An inspection technique that includes above ground electrical measurements taken at predetermined increments along the pipeline and used to provide information on the effectiveness of the coating system. |
| | Direct Examination | The direct physical inspection of the pipeline that may also include the use of nondestructive examination (NDE) techniques. |
| EC | External Corrosion | Corrosion occurring due to environmental conditions on the outside of the pipe. It is the natural interaction between the exterior surface of the pipe and the soil, air, or water surrounding it. |
| ECDA | External Corrosion Direct Assessment | A four-step process that includes pre-assessment, indirect inspection, direct examination, and post assessment, that is intended to improve safety by assessing and reducing the impact of external corrosion on pipeline integrity. |
| EMAT | Electromagnetic Acoustic Transducer | A type of transducer that generates ultrasound in steel pipe without a liquid couplant using magnets and coils for inspection of the pipe. |
| | Free-Swimming ILI Tool | An In-Line-Inspection (ILI) tool that moves through a pipeline without being tethered, it is used to inspect the pipelines condition, detecting anomalies such as corrosion, deformation, metal loss, and other defects. |

| Acronym | Term | Definition |
|---------|---------------------------------|--|
| GTSR | Gas Transmission Safety Rule | GTSR is a term use to describe two sets of PHMSA regulations: "Pipeline Safety: Safety of Gas Transmission Pipelines: MAOP Reconfirmation, Expansion of Assessment Requirements, and Other Related Amendments" (RIN 2137-AE72), and; "Pipeline Safety: Safety of Gas Transmission Pipelines: Repair Criteria, Integrity Management Improvements, Cathodic Protection, Management of Change, and Other Related Amendments" (RIN 2137-AF39). |
| | Gauge Plate Tool | A utility pig mounted with a flexible metal plate of a specified diameter less than the minimum internal diameter of the pipeline. Pipe bore restrictions less than the plate diameter or short radius bends will permanently deflect the plate material. |
| | Geometry Tool | An in-line inspection tool designed to record conditions, such as dents, wrinkles, ovality, bend radius and angle by sensing the shape of the internal surface of the pipe. |
| GWUT | Guided wave ultrasonic testing | Inspection of pipe is typically accomplished using low frequency (usually in the range of 15-90 kHz) ultrasonic guided waves typically induced into the pipe through a collar of piezoelectric transducers; although systems utilizing electromagnetic approaches for wave generation and reception also exist. The waves propagate in several modes along the length of the pipe. Analysis of wave reflections in specific modes is used to detect and evaluate features of various types. |
| НСА | High Consequence Area | An area where a pipeline release could have greater consequences for health and safety or the environment. |
| | Hydrotest | A measure of the strength of a piece of equipment (pipe) in which the item is filled with water, sealed, and subjected to pressure. It is used to validate integrity and detect construction defects and defective materials. |
| IRC | Immediate Repair Conditions | Anomalies or features that might be expected to cause immediate or near-term leaks or ruptures based on their known or perceived effects on the strength of the pipeline in HCAs. |
| | Indirect Inspection | Also known as Aboveground Survey (AGS), Equipment and practices used to take measurements at ground surface above or near a pipeline to locate or characterize corrosion activity, coating holidays, or other anomalies. |
| IMU | Inertial Mapping Unit | An In-Line Inspection (ILI) tool that captures and records the inspection tool's position within the pipeline, enabling accurate tracking and evaluation of pipeline conditions. |

| Acronym | Term | Definition |
|---------|---|--|
| ILI | In-line Inspection | An inspection of a pipeline from the interior of the pipe using an inspection tool also called intelligent or smart pigging. This definition includes tethered and self-propelled inspection tools. These devices run inside the pipe and provide indications of metal loss, deformation, and other defects. |
| IC | Internal Corrosion | Corrosion occurring due to environmental conditions on the inside of the pipeline. In most cases, the corrosive materials are contaminants naturally contained within the transported gas such as hydrogen sulfide, carbon dioxide, other chemicals, or water. |
| ICDA | Internal Corrosion Direct Assessment | Is a process an operator uses to identify areas along the pipeline where fluid or other electrolyte introduced during normal operation or by an upset condition may reside, and then focuses direct examination on the locations in covered segments where internal corrosion is most likely to exist. The process identifies the potential for internal corrosion caused by microorganisms, or fluid with CO2, O2, hydrogen sulfide or other contaminants present in the gas. |
| LDS | Laser Deformation Sensor | A type of sensor integrated into ILI tools to detects geometric deformations in pipelines, such as dents, buckling, and ovality by using laser technology to measure the internal geometry of the pipeline. |
| | Launcher | A pipeline device used to insert a In-Line Inspection tool into a pressurized pipeline. |
| MFL | Magnetic Flux Leakage | A type of ILI technique that induces a magnetic field in a pipe wall between two poles of a magnet. Sensors record changes in the magnetic flux (flow) which can be used to evaluate metal loss. The magnetic field is induced in either the Axial or Circumferencial direction. |
| M | Manufacturing | Anomalies in pipe or weld metal resulting from the manufacturing process |
| МАОР | Maximum Allowable Operating Pressure | The highest pressure at which a piping system or segment of a piping system is qualified to operate based on design and testing, or design and operating history. |
| MD | Mechanical Damage | A type of metal damage in a pipe or pipe coating caused by the application of an external force. Mechanical damage can include denting, coating removal, metal removal, metal movement, cold working of the underlying metal, and residual stresses, any one of which can be detrimental. |
| | Receiver | A pipeline facility used for removing a pig from a pressurized pipeline. It may be referred to as trap, pig trap, or scraper trap. |

| Acronym | Term | Definition |
|---------|--|---|
| | Remediation | Is an operation or procedure that transforms an unacceptable condition to an acceptable condition by eliminating the causal factors of a defect. Remediation may include repairs, pressure reductions, or other actions intended to preclude a defect from failing. |
| | Retrofit | Retrofits are typically carried out to extend the lifespan of the pipeline, improve safety and reliability, reduce environmental impact, and ensure compliance with current standards and regulations. |
| ROW | Right of Way | A strip of land on which pipelines, railroads, power lines, and other similar facilities are constructed which allows the operator to perform operation and maintenance activities of the asset. |
| SRC | Safety Related Condition | Anomalies or features that might be expected to cause immediate or near-term leaks or ruptures based on their known or perceived effects on the strength of the pipeline in non-HCAs. |
| | Segment | A continuous length of pipe that starts and ends at a known demarcation point such as a change in pipe characteristics, pressure limiting or regulating station, or other practical divisions. A section of pipe can be made up of multiple segments. |
| | Soft Pad | Flexible grinding disks used with power grinders to precisely remove defects like arc burns, grooves, and scratches on pipes while maintaining acceptable wall thickness |
| | Soil Resistivity | Measures the resistivity of the soil in Ohm-cm. Can be used to approximate potential corrosivity along the pipeline, or correlate differences in current distribution. |
| SMYS | Specified Minimum Yield Strength | Means specified minimum yield strength, expressed in pounds per square inch, is: (a). For steel pipe manufactured in accordance with a listed specification, the yield strength specified as a minimum in that specification; or (b). For steel pipe manufactured in accordance with an unknown or unlisted specification, the yield strength determined in accordance with § 192.107(b). |
| SCC | Stress Corrosion Cracking | Is a form of environmental attack of the metal involving an interaction of a local corrosive environment and tensile stresses in the metal resulting in formation and growth of cracks. |
| SCCDA | Stress Corrosion Cracking Direct Assessment | A process to assess a covered pipe segment for the presence of SCC primarily by systematically gathering and analyzing excavation data for pipe having similar operational characteristics and residing in a similar physical environment [§192.927]. |

| Acronym | Term | Definition |
|---------|----------------------------------|---|
| | Unpiggable | A condition where a smart tool or a pipeline inspection gauge that traverses through the pipeline as part of an In-Line Inspection that cannot be used. |
| WROF | Weather Related/Outside Force | The Weather Related and Outside Force threat has localized susceptibility. WROF evaluation considers locations of extreme loading where pipe may be susceptible to earthquakes and seismicity, geology, soil stability, landslides, ground subsidence, extreme surface loading, flooding, lightning strikes, and frost. |

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

DECLARATION OF TRAVIS T. SERA REGARDING CONFIDENTIALITY OF CERTAIN DOCUMENTS PURSUANT TO D.21-09-020

I, Travis T. Sera, do declare as follows:

- 1. I am the Director of Integrity Management for Southern California Gas Company (SoCalGas). I have been delegated authority to sign this declaration by Amy Kitson, Vice President of Gas Engineering and System Integrity for SoCalGas. I have reviewed the confidential information included within SoCalGas-02-WP Amended Workpapers Supporting the Prepared Direct Testimony of Jordan A. Zeoli, Fidel Galvan, and Travis T. Sera (Technical Project Execution and Management) ("TIMP Amended Workpapers"). I am personally familiar with the facts and representations in this Declaration and, if called upon to testify, I could and would testify to the following based upon my personal knowledge and/or information and belief.
- 2. I hereby provide this Declaration in accordance with Decision ("D.") 21-09-020 and General Order ("GO") 66-D to demonstrate that the confidential information ("Protected Information") provided in the TIMP Amended Workpapers is within the scope of data protected as confidential under applicable law.
- 3. In accordance with the legal authority described in Attachment A, the Protected Information should be protected from public disclosure.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct to the best of my knowledge.

Executed this 5th day of September, 2025 at Los Angeles, California.

Travis T. Sera

Director of Integrity Management Southern California Gas Company

ATTACHMENT A

SoCalGas Request for Confidentiality on the following Protected Information in its Amended Transmission Integrity Management Program (TIMP) Workpapers

Logation of Data

Confidential Information:

Critical Energy Infrastructure Information (CEII), Pipe attributes (SMYS, MAOP/MOP, Diameter, Seam type, Install date, Class location, HCA segment information, Assessment method. Assessment date, Coating type, Construction dates/schedules, Inspection results, Directional flow of natural gas), Threat type, Specific locational information and system pipeline map.

Applicable Confidentiality Provisions

CPRA Exemption, Gov't Code § 7927.705 ("Records, the disclosure of which is exempted or prohibited pursuant to federal or state law")

- Cal. Civil Code §§ 3426 et seq. (Uniform Trade Secrets Act)
- TMX Funding Inc. v. Impero Technologies, Inc., 2010 WL 2745484 at *4 (N.D. Cal. 2010) (defining trade secret in an injunction to include "business plans and strategies")
- O2 Micro Int'l Ltd. v. Monolithic Power Sys., Inc., 420 F. Supp. 2d 1070, 1089–1090 (N.D. Cal. 2006) ("It does not matter if a portion of the trade secret is generally known, or even that every individual portion of the trade secret is generally known, so long as the combination of all such information is not generally known.")
- 18 CFR § 388.113(c) (defining CEII)
- FERC Order Nos. 630, 643, 649, 662, 683, and 702 (defining CEII)
- FERC Order 833 (including amendments to the CEII regulations, required by The FAST Act)
- Critical Energy Infrastructure Information, 68 Fed. Reg. 9857, 9862 (Dep't of Energy Mar. 3, 2003) (final rule) (listing what gas information qualifies as CEII)
- FERC's Guidelines for Filing Critical Energy/Electric

Basis for Confidentiality

It is SoCalGas's practice to designate certain data as confidential because this data is similar to data protected by CEII regulations and, if made publicly available, could potentially present a risk to public and pipeline safety.

Engineering design values (i.e., Pipe attributes and production data) for existing critical infrastructure could be used to determine the criticality of a gas facility and identify vulnerabilities of the gas delivery network. Because of the critical nature of these attributes, they have been identified by PHMSA to be restricted attributes available only to government officials.

Inspection results (including assessment results/dates) are forms of production data that is protected and includes details related to the transmission and distribution of energy. This information if released to the public can be used to predict repair schedules and availability of segments of the transportation network. It may affect market pricing for gas transportation and delivery and lead to speculation in the energy markets that may be detrimental to consumers. This information could also be used to identify vulnerabilities of the gas network.

It is SoCalGas's practice to designate portions of their threat analysis, such as threat types, as confidential because this data is considered proprietary, not currently published by PHMSA, and, if made publicly available, could potentially present a risk to public and

Infrastructure Information, (Feb. 21, 2017), *available at* https://www.ferc.gov/sites/default/files/2020-04/CEII-Filing-guidelines.pdf

- Exhibits G, G-1, G-II of pipeline certificate applications. 18 CFR § 157.14
- Exhibit V of abandonment applications. 18 CFR § 157.18
- o FERC Form 567. 18 CFR § 260.8
- CPUC Res. L-436, at 8 (stating CPUC will "refrain from making available to the public detailed maps and schematic diagrams showing the location of specific utility regulator stations, valves, and similar facilities")
- Cal. Pub. Util. Code § 364(d) ("The commission may, consistent with other provisions of law, withhold from the public information generated or obtained pursuant to this section that it deems would pose a security threat to the public if disclosed.")
- The Pipeline and Hazardous Materials Safety
 Administration's (PHMSA)
 guidelines consider the data to be restricted pipeline information. PHMSA
 Guidelines, 81 Fed. Reg. 40757, 40764 (June 22, 2016).
- PHMSA also issued an advisory bulletin on December 9, 2016: ABD-2016-0137; Pipeline Safety: Safeguarding and Securing Pipelines from Unauthorized Access detailing

pipeline safety, as well as a potential financial loss of future revenue as these documents could be monetized.

Pipeline locations (including street names) and maps at a scale of 1 inch to 24,000 feet scale or less are identified as confidential because the data would provide sufficient information to be used by a third party to excavate or access above ground facilities without notifying the Utility through the local Underground Service Alert (USA) or could be used to identify locations for illegal tapping or other acts that could impact the safety of residents living near the natural gas pipeline or gas facility.

- the need for operators to protect their gas systems
- See Administrative Law Judge's Ruling Granting Applicant's Motion for Leave to Submit Confidential Materials Under Seal as to Appendix K Geographic Information System (GIS) Data at 2, Application 16-07-016 (December 1, 2016); Administrative Law Judge's Ruling Granting Applicant's Motion to File Specified Documents Under Seal, Application 16-04-022 (June 2, 2016)
- *See Mr. Doug Hall*, 114 FERC ¶ 62194, 2006 WL 463906 (Feb. 27, 2006) (letter from the FERC Office of External Affairs to an applicant seeking to review information containing CEII, explaining that "precise dam coordinates which could be used to target the dam. In addition, providing coordinate data for all facilities in a specific geographic region increases the vulnerability of those facilities to attack . . . this information could be used to compromise the dams, placing lives at risk.")
- Ms. Alison Arnold, 108 FERC ¶ 62287, 64538 (Sept. 30, 2004) (ruling on a request to the U.S. Department of Interior for a copy of GIS data regarding hydropower projects located in the State of Washington that "contains critical energy infrastructure information (CEII)")
- N. Dakota Pipe Line Co., LLC 24-Inch Crude Oil Pipeline -Sandpiper Project Siting Application, GE-13-193, 2014