

Quarterly Report - Public

Date of Report: 9th Quarterly Report – December 31, 2024
Contract Number: 693JK32210010POTA
Prepared for: DOT PHMSA
Project Title: *Risk-Based Decision Support for Rehabilitation of Natural Gas Distribution Pipelines*
Prepared by: GTI Energy
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For quarterly period ending: December 31, 2024

1: Work Performed During this Quarterly Period

Completed Task 4 – Risk Assessment Tool. This task involved evaluating the likelihood of corrosion based on pipe and soil properties. The procedure included the development of a Bayesian network (BN) analysis for estimating the corrosion potential of pipe segments. The model utilizes historical data of corrosion-rates, related soil parameters, and earlier studies on the effect of soil parameters on corrosion potential. Gas distribution companies and utilities may input pipe and soil characteristics in the program to estimate the risk level for corrosion in the pipeline segment.

Figure 1 shows the deliverable in this quarter.

| Technical and Deliverable Milestone Schedule | | | | | |
|--|-----------------------------------|--|--------------------|-------------------------------------|--|
| <u>Item No.</u> | <u>Task No.</u> (per proposal) | <u>Activity/Deliverable</u> | <u>Quarter No.</u> | <u>Expected Completion Date/Mos</u> | <u>Payable Milestone</u> |
| | | <u>ACTIVITY/DELIVERABLE</u> | | | <u>TITLE</u> |
| 13 | 4 | Implement risk assessment in a web-based program | 8 | 24 months | Report: 'Web-based Risk Assessment Approach' |
| 16 | 8 | Quarterly Status Report | 9 | 27 months | Submit 9th quarterly report |
| Eighth Payable Milestone | | | 8 | 24 months | SUBTOTAL |

Figure 1 – 9th Quarterly Deliverable

4: Project Schedule

Figure 2 shows the project schedule and progress as of the end of 9th Quarter. No time-related issues are reported in this quarter.

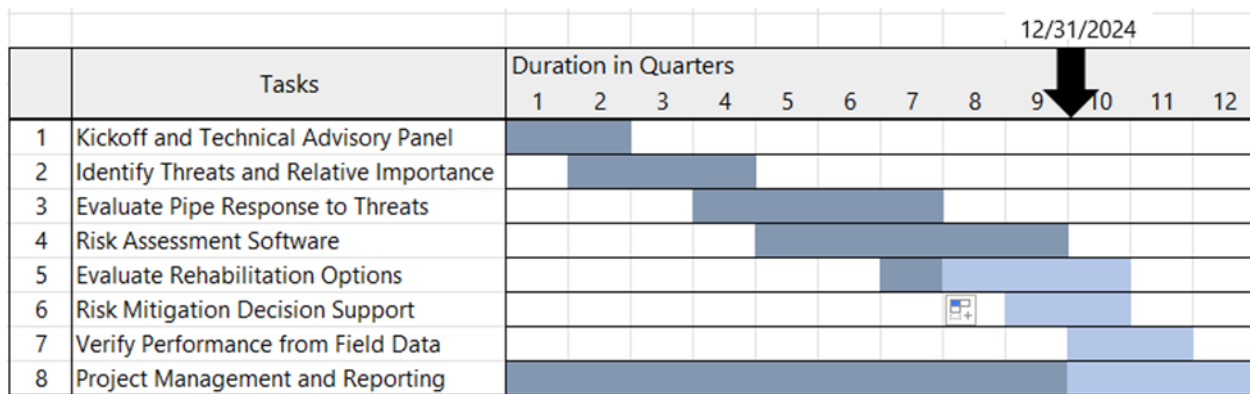


Figure 2 - Project time schedule

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