

Quarterly Report - Public

Date of Report: 7th Quarterly Report – June 30, 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: June 30, 2024

1: Work Performed During this Quarterly Period

Work on Task 4 – Risk Assessment Tool. This task involves evaluating the causal relationships between the pipeline system properties and the threats that drive soil movement and pipe failure potential. This quarter's work involved the causal analysis of the parameters affecting soil movement and, consequently, pipelines failures. The attached Interim Report presents the development of a preliminary risk model that assesses soil interaction (i.e., geological and geophysical forces) which result in soil movement and, consequently, belowground pipe strains. Further work is in progress and will continue in the following quarter.

Figure 1 shows the deliverable in this quarter.

Technical and Deliverable Milestone Schedule					
<u>Item No.</u>	<u>Task No.</u>	<u>Activity/Deliverable</u>	<u>Quarter No.</u>	<u>Expected Completion Date/Mos</u>	<u>Payable Milestone</u>
	(per proposal)	<u>ACTIVITY/DELIVERABLE</u>			<u>TITLE</u>
11	4	Perform Bayesian analysis to establish probabilities of damages.	7	21 months	Interim Report: 'Risk Assessment Procedure'
12	8	Quarterly Status Report	7	21 months	Submit 7th quarterly report
Seventh Payable Milestone			7	21 months	SUBTOTAL

Figure 1 – 7th Quarterly Deliverable

2: Project Schedule

Figure 2 shows the project schedule and progress as of the end of 7th Quarter. No time-related issues are reported in this quarter.

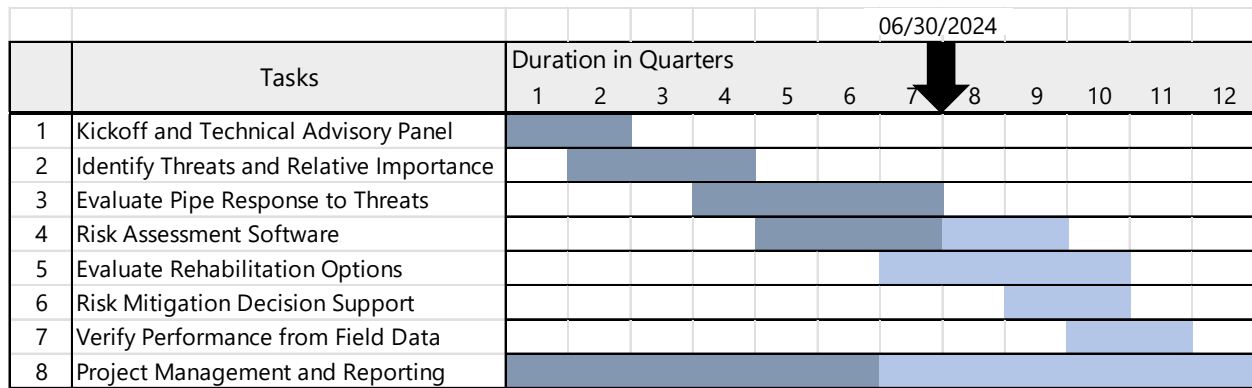


Figure 2 - Project time schedule