

Public Quarterly Report

Date of Report: 11th Quarterly Report – June 30, 2024
Contract Number: 693JK3211RA0001
Prepared for: DOT PHMSA
Project Title: *Using Alternative-Steel and Composite Material in Gas and Hazardous Liquid Pipeline Systems*
Prepared by: GTI Energy
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For quarterly period ending: June 30, 2024

1: Work Performed During this Quarterly Period

Worked on Task 7 on evaluation and testing of composites for degradation under UV and H₂S-containing product fluids. Long-term tests are currently being performed and are expected to be completed next month (August 2024). The interim report, in this quarterly report, summarizes the requirements and tests performed on the composite material.

Completed Task 9. Mapped existing related aspects of 49 CFR Parts 192 and Part 195 to the composite's application. This task provided a summary of research, practices, domestic and international standards for the safe adoption of spoolable fiber and steel-reinforced composites for use in gathering and transmission lines. The task provides a comparison of the various API, ASME, and CSA standards to address a comprehensive listing of RTP/SCP concerns. It also investigated reported failures, their causes, and their relationship with current standards and practices. The task report will be submitted in the next quarter.

2: Items Not Completed During this Quarterly Period:

Task 9 on review of code requirements is complete and the task report will be submitted in the next quarter.

<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>Federal Payment</u>	<u>Resource-Share</u>	<u>*Total</u>
		<u>ACTIVITY/DELIVERABLE</u>			<u>TITLE</u>			
24	7	Degradation of Composite Material	10	30 months	Evaluate and test material degradation under UV and H ₂ S-containing production fluids. Task 7 Interim Report: Long-Term Durability Requirements.	23,629.00	40,032.00	

Figure 1 - 10th Quarter Deliverables Milestone

3: Project Schedule

Figure 2 shows the project schedule and progress as of the end of this quarter. The project duration was extended in a modified agreement for 2 quarters (13 and 14). Task-7 interim report is submitted in this quarter.


														06/30/2024	
Tasks		Duration in Quarters													
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	Kickoff and Technical Advisory Panel (TAP)														
2	Material Properties and Testing Procedures														
3	Design for Max Allowable Operating Pressure														
4	Construction Damage and Quality Assurance														
5	Assessment of Corrosion/Erosion Damage														
6	Assessment of Other Integrity Threats														
7	Degradation of Composite Material														
8	Field Inspection and Monitoring for IM														
9	Review Code Requirements														
10	Project Management and Reporting														
11	Testing of SafeGaurd and other composites.														
		NOTES:  Denotes task duration extension from original plan - Task 11 was added in a 'contract modification' for testing additional material.													

Figure 2 - Project time schedule