

Public Quarterly Report

Date of Report: 10th Quarterly Report – March 31, 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
Contact Information: PM: Khalid Farrag, Ph.D., P.E.
kfarrag@gti.energy - Phone: 847-344-9200

For quarterly period ending: March 31, 2024

1: Work Performed During this Quarterly Period

Completed Task 6 - Assessment of Integrity Threats: Risk-based assessment in light of the threats identified in API 1160 was reviewed to identify how alternate materials could affect the methods used to evaluate these threats compared to steel pipe. The mode and severity of how the threats could affect the alternate materials will also be examined.

The potential impact of alternate materials on the threats and consequences evaluated how risk, in terms of life safety and environmental impact, could change. This was not a detailed risk assessment but it indicates how risk might be affected and what factors will likely have the greatest influence on risk.

Potential methods to reduce the risk, especially where the factors influencing risk for alternate materials differ significantly from those that influence steel pipe, could include methods to introduce new engineering and administrative controls compared to risk reduction methods used for steel pipelines.

The 10th quarterly report of the project is complete (this report).

2: Items Not Completed During this Quarterly Period:

Work in Task 7 – Degradation of composite material is still in progress. This task includes testing material under UV and hydrocarbon containing production fluids.

Task 7 is expected to be completed in the next quarter.

Technical and Deliverable Milestone Schedule								
Item No.	Task No. (per proposal)	Activity/Deliverable	Quarter No.	Expected Completion Date/Mos	Payable Milestone	Federal Payment	Resource Share	*Total
		ACTIVITY/DELIVERABLE			TITLE			
21	6	Assessment of Other Integrity Threats	8	24 months	Review the Integrity Management requirements in CFR Parts 192 and 195 in relation to the composites application. Task 6 Interim Report: Integrity Management Plan.	69,070.00	29,990.00	99,060.00
25	10	10th Quarterly Status Report	10	30 months	Submit 10th quarterly report	28,490.00	0.00	28,490.00
Tenth Payable Milestone			10	30 months	SUBTOTAL	52,119.00	40,032.00	92,151.00

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-6 was completed this quarter and Task 7 will be completed in the following quarter.

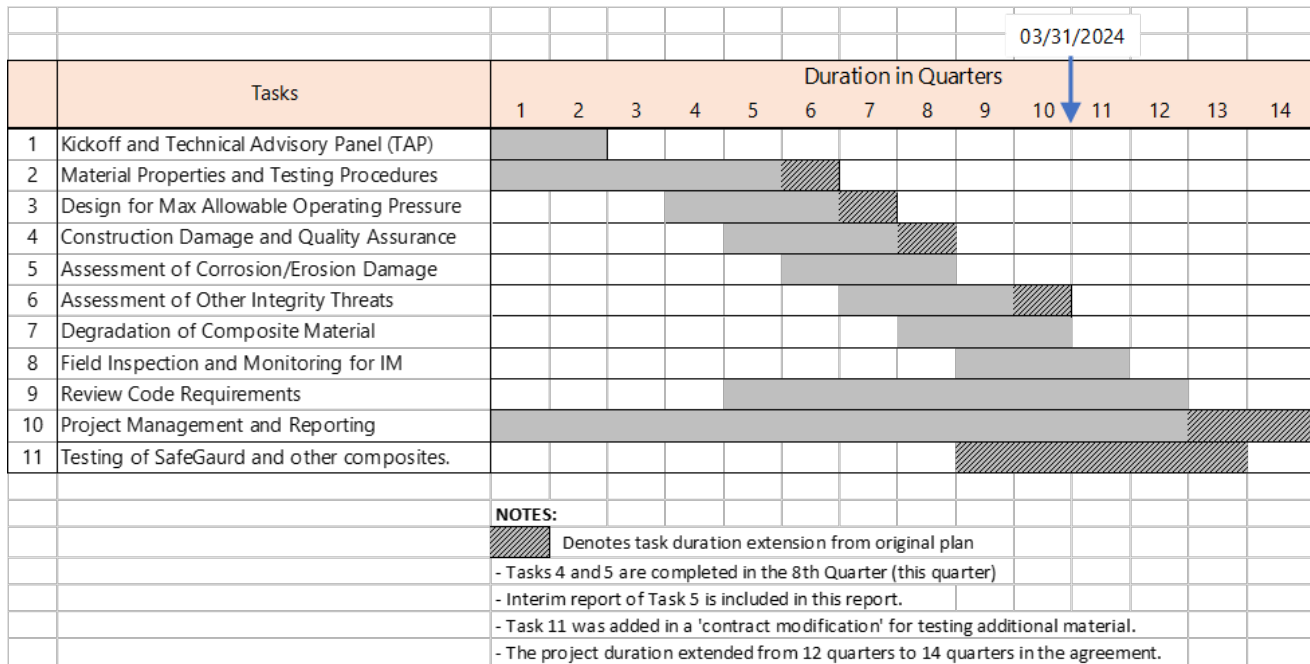


Figure 2 - Project time schedule