

# Public Quarterly Report

**Date of Report:** 12<sup>th</sup> Quarterly Report – September 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

**Contact Information:** PM: Khalid Farrag, Ph.D., P.E.  
kfarrag@gti.energy - Phone: 847-344-9200

**For quarterly period ending:** September 30, 2024

## 1: Work Performed During this Quarterly Period

Completed Task 7 on evaluation and testing of composites for degradation under UV and H<sub>2</sub>S-containing product fluids. Performed long-term tests on the composite samples. The interim report was submitted in the last quarterly.

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 is submitted in this report.

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>	<u>Federal Payment</u>	<u>Resource-Share</u>	<u>*Total</u>
	(per proposal)	<u>ACTIVITY/DELIVERABLE</u>			<u>TITLE</u>			
27	9	Map existing related aspects of 49 CFR Parts 192 and Part 195 to the composites application. Prepare and Submit Draft Final Report	11	33 months	Map existing related aspects of 49 CFR Parts 192 and Part 195 to the composites application. <b>Task 9 Report Included with Draft Final Report.</b>	102,686.00	23,418.00	126,104.00

Figure 1 - 12<sup>th</sup> Quarter Deliverables Milestone

## 2: Items Not Completed During this Quarterly Period:

Complete Task 11: Additional testing of composites and submit related report as deliverable No. 29.

## 3: Project Schedule

Figure 2 shows the project time schedule.

The report 'Review of Code Requirements For Composite Pipes' covers Task 9, item No 27 of the deliverables table as shown in Figure 1.

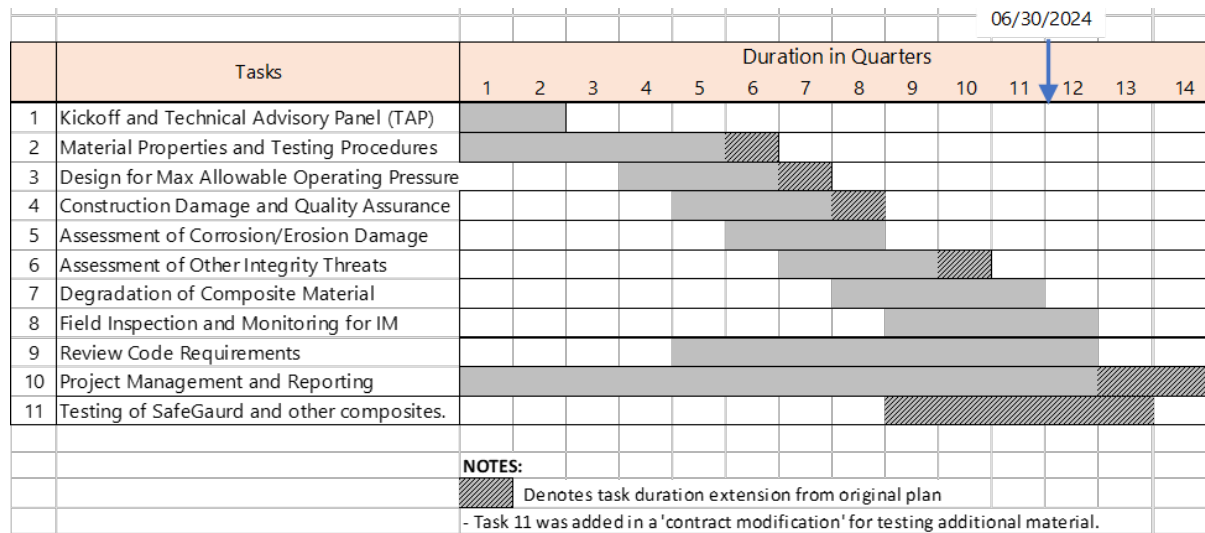


Figure 2 - Project time schedule