

Quarterly Report – Public Page

Date of Report: 6th Quarterly Report – March 31, 2023
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: March 31, 2023

1: Work Performed During this Quarterly Period

Task 2 – Evaluate Material Properties and Testing Procedures:

This task is complete. Work included the identification of required material properties, setting testing procedures, and performing strength tests:

- A report on material properties and testing requirements was submitted last quarter.
- Performed denting and pressure tests on the composite pipe specimens.
- *Deliverable of Task 2: Determine Product Validation Tests, is complete.*

Task 3: Design for Maximum Allowable Operating Pressure:

- Developed the testing procedure based on identified gaps. Discussed the procedure with the composites' producers.
- Worked on Task 3 Interim Report to complete the task. The report will be submitted in the following quarter.

Work on Task 4 – Construction Damage and Quality Assurance and Task 9 – Review Code Requirements

Deliverable of 6th Quarterly Report is complete.

2: Items Not Completed During this Quarterly Period:

The sub-contractor (C-FER) is completing the analysis of Task 3 this quarter. Work in Tasks 3 and 4 (Items 10 and 12 of Figure 1) is in progress and due for submission in the coming quarter.

A project modification request was submitted to add the evaluation of the 'SafeGuard' composite material to the testing program. This modification is added as a separate Task 11 in the Project Delivery Milestones.

3: Project Technical Status

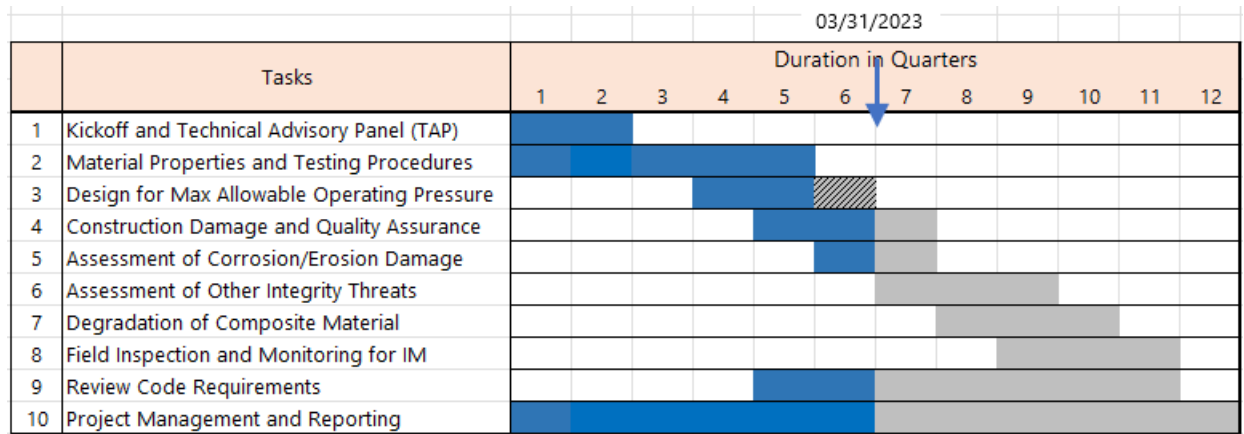
The task report covered the following:

- Task 2 Report: *Determine Product Validation Tests.*

4: Project Schedule

Figure 1 shows the project schedule and progress as of the end of this quarter. Task-3 work was extended for completion at the end of this quarter.

Figure 1 - Project time schedule



[END OF REPORT]