Quarterly Report – Public Page

Date of Report: 1Q 2025 – March 31, 2025
Contract Number: 693JK310011POTA
Prepared for: DOT
Project Title: Investigate Damage Mechanisms for Hydrogen and Hydrogen/Natural Gas Blends to Determine Inspection Intervals for In-Line Inspection Tools
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For quarterly period ending: March 31, 2025

1: Items Completed During this Quarterly Period:

- Conducted quarterly TAP meeting with the Project Team and TAP members on 11 February 2025.
- Continued review of 49 CFR 192, ASME B31.8S, ASME B31.12, and other papers, Codes, and Standards to compare and contrast what requirements and methodologies are used globally and how those may be helpful to revise the stated documents.
- Attended biweekly meetings of ASME B31.8 Task Group on Hydrogen as a visitor (online).
- Reviewed ballot documents for H_2 Task Group and O&M Committee
- Started compiling content for and writing of Task 3 Draft Report.
- Continued review of existing methods to calculate inspection intervals for hydrogen pipelines.
- Presented paper #140 "Remaining Life Assessment of Hydrogen Pipelines for Flaw Sizes Below ILI and NDE Detection Limits (Lotfian, Brongers) at the Pipeline Pigging and Integrity Management (PPIM) Conference, January 27-31, 2025 in Houston, TX.
- Organized and participated several online meetings with a pipeline operator interested in fatigue modeling for hydrogen pipelines
- Continued evaluation of analyses for different hydrogen/natural gas blends.
- Continued review of articles, papers, and books that were compiled in Task 1 (Literature Review) and are applicable to the topic of hydrogen gas blending, steel embrittlement, and integrity management.
- Started compiling content for and writing of Task 5 Draft Report, which will soon be ready for review by academic TAP members.
- Submitted January and February Monthly Reports
- Completed and Issued 1Q Report 2025
- Issued 1Q 2025 Invoice

2: Items Not-Completed During this Quarterly Period:

- No incomplete items. The project is on schedule.

3: Project Financial Tracking During this Quarterly Period:

- Reference Internal 1Q 2025 Report.

4: Project Technical Status:

- This period, work is ongoing on Tasks 3, 4, 5 and 8.

5: Project Schedule: