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
Prepared by:	Michiel Brongers – Principal Investigator
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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 H₂ 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:

Year		2023			2024									2025									2026						
Quarter	0	Q4		Q1		Q2			Q3		Q4		Q1		Q			Q3		Q4		Q1		Q2			Q3		
Month	1	2 3	4	5	6	7	8	9 10	11	12 1	3 14	15	16 1	7 18	19	20 2	1 22	23	24 2	5 26	27	28	29 30	31	32 3	3 34	1 35 3		
Task 1 - Perform Literature Review and Public Industry Outreach																										T			
Task 2 - Review ASME B31.8S Table 3 and Other Risk Assessment Tools																													
Task 3 - Recommend Revisions in 49 CFR 192, ASME B31.8S, and ASME B31.12																													
Task 4 - Determine Changes to Integrity Management Reinspection Intervals																													
Task 5 - Evaluate Analyses for Different Hydrogen/Natural Gas Blends																													
Task 6 - Evaluate Analyses for Threats Informed by Previous Study																										Τ			
Task 7 - Perform Validation to Confirm Threats Result from Hydrogen Service																													
Task 8a – Deliver reported results – quarterly status reports																													
Task 8b – Deliver reported results – draft final report	П														Π														
Task 8c – Deliver review comments from academic TAP members																													
Task 8d – Deliver reported results – final report																													
Task 9a – (Other) Technology transfer – presentation																										Τ			
Task 9b – (Other) Technology transfer – publication																										Т			
Task 9c – Deliver public version of final report	П			L																						T			
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