

Quarterly Report – Public Page

Date of Report: 2Q 2025 – June 30, 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: June 30, 2025

1: Items Completed During this Quarterly Period:

- Conducted quarterly TAP meeting with the Project Team and TAP members on 13 May 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
- Prepared Task 3 Draft Report, which is under review by academic TAP members. Upon review of the draft by PHMSA representatives, the Task 3 Final Report will be uploaded to the PHMSA website.
- Continued review of existing methods to calculate inspection intervals for hydrogen pipelines.
- Conducted fatigue modeling using AFGROW software.
- Attended Hydrogen Technology Expo in Houston, TX on June 26, 2025.
- 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.
- Prepared Task 5 Draft Report, had it reviewed by academic TAP members, then had it reviewed by PHMSA representatives, and incorporated comments as needed.
- Started evaluation of threat analysis procedures, based on ILI anomaly descriptions and interpretations.
- Compiled listing of feature descriptions from different ILI vendors.
- Submitted April and May Monthly Reports
- Completed and Issued 2Q Report 2025
- Issued 2Q 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 2Q 2025 Report.

4: Project Technical Status:

- This period, work is ongoing on Tasks 3, 4, 5, 6 and 8.

5: Project Schedule:

Year	2023				2024				2025				2026																									
Quarter	Q4			Q1			Q2			Q3			Q4			Q1			Q2			Q3																
Month	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36		
Task 1 - Perform Literature Review and Public Industry Outreach	█	█	█	█	█	█																																
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																																						
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																																						
Task 8c - Deliver review comments from academic TAP members																																						
Task 8d - Deliver reported results - final report																																						
Task 9a - (Other) Technology transfer - presentation																																						
Task 9b - (Other) Technology transfer - publication																																						
Task 9c - Deliver public version of final report																																						

NOT STARTED
 IN PROGRESS
 COMPLETE
 LATE
 PLANNED
 TO-DATE BAR