

Quarterly Report – Public Page

Date of Report: 1Q 2023 – March 31, 2024
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, 2024

1: Items Completed During this Quarterly Period:

- Conducted Quarterly TAP meeting with Project Team and TAP members 21 February 2024.
- Added 1 Industry TAP members and 2 PHMSA representatives to the TAP.
- Compiled list of literature references relevant to the project.
- Obtained documents in pdf format for review
- Reviewed literature and described relevant findings in Literature Review document.
- Submitted Task 1 deliverable: Literature Review document
- Started review of ASME B31.8S, and other papers, Codes and Standards relevant to Table 3, for requirements and methodologies are used globally for risk assessment.
- Started review of 49 CFR 192, ASME B31.8S and ASME B31.12, and other papers, Codes and Standards for requirements and methodologies are used globally, and how those may be helpful to revise the stated documents.
- Included references and some commentary within Task 1 Literature Review document
- Submitted January and February Monthly Reports.
- Completed and issued 1Q Report 2024.

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 2024 Report.

4: Project Technical Status:

- Completed Task 1, and submitted deliverable: Literature Review
- Conducted Project Kick-Off meeting with Project Team and TAP members 21 February 2024.

5: Project Schedule:

| Year | 2023 | | | | | | 2024 | | | | | | | | | | | | 2025 | | | | | | | | 2026 | | | | | | | | | |
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| Quarter | Q4 | | | Q1 | | | Q2 | | | Q3 | | | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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