

2nd Quarterly Report – Public Page

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Contract Number: **DTPH5614H00004**

Prepared for: US DOT – PHMSA

Project Title: Improving Models to Consider Complex Loadings, Operations Considerations, and Interactive Threats

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Objective: Some pipeline failures suggest that interactions of resident conditions with changing operations or environments may increase the probability of failure, reduce the failure stress, change the mode of failure from a leak to a rupture, cause development of a condition not detectable by assessment methods in use, or cause the shift of a condition from stable to unstable. The objective of this project is to develop guidance for pipeline operators in the form of advanced interaction matrices, decision processes, and data needs for identifying and evaluating complex or interactive situations.

Results and Conclusions:

This is the 2nd Quarter of 14 planned quarters of activity. Planned activities were:

- Task II.A.2, review of reported incident data.
- Task III.A.5, annual peer review
- Task III.A.6, coordination and datasharing

Task II.A.2 was started late due to unavailable staffing for this work early in Q2, and was not completed in Q2. This will affect Q3 activities. Tasks III.A.5 and III.A.6 were carried out.

Plans for Future Activity:

Task II.A.2 will carry into Q3. Task II.A.3, developing illustrative case histories, will start upon completion of Task II.A.2.