

3rd 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 3rd Quarter of 14 planned quarters of activity. Planned activities were:

- Task II.A.3, illustrative case histories.

Task II.A.2 was started late and was not completed in Q2. Additionally, the effort required to complete Task II.A.2 was significantly greater than expected. Task II.A.2 was completed in Q3 but delayed the planned start of Task II.A.3 until Q4.

Plans for Future Activity:

Task II.A.3, developing illustrative case histories, will be started shortly. Staffing has been secured and efforts will be made to complete it as efficiently as possible. Task III.A.2, Interim Task II.A Report, also is planned for Q4, and is in progress covering work completed to date.