

7th Quarterly Report (Public)

Date of Report: October 15, 2015

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,

Results and Conclusions:

Task II.B.2 has been finalized and its report has been submitted..

Plans for Future Activity:

The proposed schedule for 4Q15 is as follows:

- Task III.A.3 - Task II.B Interim Report
- Task II.C.1 - Develop biaxial load criteria.
- Task II.C.2 - Develop applications for cyclic loading