

5th Quarterly Report – Public Page

Date of Report: November 19, 2014

Contract Number: DTPH56-13-T-000011

Prepared for: DOT Pipeline and Hazardous Material Safety Administration

Project Title: Above-Ground Detection Tools Including Disbondment and Metal Loss for all Metals Including Cast-Iron Graphitization

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For quarterly period ending: November 30, 2014

Results and Conclusions: The Field Tests commenced during March in the Chicago area. The first test was useful in determining the operating characteristics of the Spar sensors over a live piping system. There were several concerns with the Spar operation that needed to be addressed. Custom software that is specific to pipe condition assessment was developed by ORI. GTI developed an in-house RTK correction facility that allowed better location accuracy and Spar-to-Spar time synchronization. Further testing was carried out on a 36” coated main during the July through November time frame. The excavation of this site is expected in the near future, allowing closure between the Spar data and actual features. GTI has begun collecting materials and other support for the construction of an in-ground facility for graphitized cast iron testing.

Plans for Future Activity: During the next quarter the following activities are planned:

- Complete tests with Chicago area utility
- Be present for the excavations of anomalies on the test sites
- Schedule field tests with the New York and Alabama utilities
- Construct in-ground test strings to baseline Spar performance on graphitized cast iron
- Complete Task 2: Initial Field Testing
- Continue monthly conference calls with the PHMSA representatives
- Write the next milestone, monthly, and quarterly reports