

EMAT Sensor for Small Diameter and Unpiggable Pipes; Prototype and Testing

DOT Project No.: 501

Contract Number: DTPH56-13-T-000012

Date of Report: March 31, 2016

Prepared For: U.S. Department of Transportation
Pipeline and Hazardous Materials Safety Administration

Contracting Organization: Operations Technology Development (OTD)

Prepared By: Khalid Farrag, Ph.D., P.E.
Gas Technology Institute

Work Completed Up to This Reporting Period

- Task 1 - Project Scoping and Kickoff Meeting: Complete.
- Task 2 - Develop Test Matrix: Complete.
- Task 3 - Pipe sample preparation: Started this quarter.
- Task 4 - Prototype design and development: Quest started working on Task 4 on the EMAT wall thickness tool. The preliminary design phase (4.1.1 and 4.1.2) will determine specifically what modifications will be necessary for the transmitter and receiver designs.
- Task 5 - Data collection and process: Did not start, will start the 3rd quarter.
- Deliverable: Submitted the 2nd Quarter interim Report: Develop test matrix.

Plans for Future Activity

- Complete work of Task 3 – Pipe samples completion
- Continue work on task 4 – Prototype design
- Start work on Task 5 – Data collection management.

[END OF REPORT]