

3rd Quarterly Report

PUBLIC REPORT

Date of Report: June 30, 2016

Contract Number: **DTPH56-15-T-00013**

Prepared for: US DOT

Project Title: **Development of an AMR Eddy Current-Based Crack Detection Sensor for Live Inspection of Unpiggable Transmission Natural Gas Pipelines**

Prepared by: NYSEARCH/Northeast Gas Association

Contact Information: Daphne D’Zurko; 973-265-1900, ext. 214; ddzurko@northeastgas.org

For quarterly period ending: June 30, 2016

Results and Conclusions: Technical work is underway to develop a concept for the individual sensors and complete, sensor module assembly. An overall space-claim has been developed and evaluated, while the interface between the sensors and robot is being defined. Integration concepts with the robot are becoming more robust as the design continues to mature. Size, weight, and power requirements are being considered and weighed against each other, overall performance, and ease of integration/implementation.

Plans for Future Activity: In the next reporting period, the technical work will continue with efforts test subsystem components for fitness of use in pressurized pipelines. Designers will iterate based upon the results and continue to add fidelity to the design of the sensor elements. Design efforts will also focus on the integration of the elements onto the sensor module of the robot. We do not anticipate that the delay in project initiation will impact the overall timetable of the project.