

Quarterly Report – Public Page

Date of Report: October 10, 2007

Contract Number: DTRS56-05-T-0002

Prepared for: US Department of Transportation, and Operations Technology Development Corporation

Project Title: " Design, Construction and Testing of a Segmented MFL Sensor for use in the Inspection of Unpiggable Pipelines "

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For quarterly period ending: *August 31, 2007*

Progress to date:

The development of the MFL sensors for the TIGRE platform is progressing well. In a laboratory demonstration held on June 6, 2007, the 20"-22" sensor was shown to inspect a segment of 20" pipeline, and negotiate a plug valve and a short radius elbow. Following the demonstration, the sensor was tested extensively in indoor and outdoor loops, together with the platform, in order to harden the sensor and create a functional MFL for several upcoming field-trials. Platform endurance data collected during experimentation is being logged. The design of the 24" – 26" sensor was completed and that work is now entering the manufacturing and assembly stage.

The RFEC sensor being developed for the Explorer-II platform underwent endurance testing in both indoor as well as outdoor settings. Dozens sensor deployments and retractions were carried out in preparation of the upcoming field-trials in live gas mains. Sensor validation using pipes with machined defects is under way.