

July 1, 2007 – September 30, 2007

Contract # DTPH56-06-T-000006

Prepared for: U.S. DOT/RSPA

**LONG-TERM MONITORING OF CASED PIPELINES USING
LONG-RANGE GUIDED-WAVE TECHNIQUE**

6th Quarterly Report

**Hegeon Kwun
Staff Scientist
Southwest Research Institute
6220 Culebra Rd.
San Antonio, TX
(210) 522-3359
hkwun@swri.org**

**NYSEARCH/Northeast Gas Association
1515 Broadway, 43rd Flr.
New York, NY 10036
(212) 354 4790 x211
Daphne D’Zurko – Primary Investigator
Executive Director, NYSEARCH
www.northeastgas.org**

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Public Page

The SwRI Magnetostrictive Sensor (MsS) system is being developed and advanced along with a defect characterization model based on a partnership between PHMSA/OPS, NYSEARCH/NGA (gas industry research consortium and user group) and SwRI. This program addresses development and testing of the MsS for use in cased crossings.

The MsS system is unlike other guided-wave inspection techniques and is unique because it applies a permanently-installed Magnetostrictive Sensor (MsS) that permits testing of cased section of pipelines over time and without costly preparation. With a capability to both monitor activity over time and characterize the defects, the technology could potentially provide accurate tracking of defect growth with time and could give operators specific information to address inspection indications. During the Sixth Quarter, the project team performed several tasks as outlined below.

Task #3 Improve Data Analysis Software for Inspecting

- Start Date: 1 April 2006
- Scheduled Completion Date: 31 January 2007
- Status: Completed

Task #M3 Planning and Preparation for Field Tests

- Start Date: 1 December 2006
- Scheduled Completion Date: 31 March 2007
- Status: Delayed Start; Ongoing

Task #M4/5 Test on NYSEARCH/NGA Test Bed

- Start Date: 1 February 2007
- Scheduled Completion Date: 31 March 2007
- Status: Ongoing, 75% complete

Task #6 Conduct Field Evaluation

- Start Date: 1 April 2007
- Scheduled Completion Date: 1 July 2008
- Status: Ongoing, 40% complete

Task #M5 Sixth Quarterly Report

- Start Date: 3 October 2007
- Scheduled Completion Date: 15 October 2007
- Status: Completed