

Public Page

This project started on 1 June 2006.

The Ultra-Low Frequency Pipe and Joint Imaging System is being developed and advanced based on a partnership between NYSEARCH/NGA (gas industry research consortium and user group), DOT and Harris Technologies (HT). This program addresses developing and testing the HT Ultra-Low Frequency Pipe and Joint Imaging System for use in the location of buried pipes and joints and is supported by the gas industry through management by the NYSEARCH organization, cash co-funding from several of their members, and use members' field sites for live field tests.

The HT Ultra-Low Frequency Pipe and Joint Imaging System operates at narrow band low frequencies, using proprietary technology to produce resolution comparable to wideband GPR. The low frequency energy is able to penetrate soils that render conventional GPR ineffective. The HT narrow band ferrite rod antenna approach represents a revolutionary departure from the much larger broadband antenna approach currently used in all commercial GPR.

During the First Quarter, the project team initiated several tasks as outlined below.

This report addresses project tasks:

Task #M1 Kickoff Meeting

- Start date: 1 June 2006
- Scheduled completion date: 7 July 2006
- Status: Completed

Task #1 Identify, Evaluate and Secure Independent Consultant

- Start date: 1 June 2006
- Scheduled completion date: 28 February 2007
- Status: This portion of Task #1 is completed.

Task #2 Ferrite Rod Antenna Aperture

- Start Date: 1 June 2006
- Scheduled completion date: 30 November 2006
- Status: Ongoing

Task #3 Modulator/Correlator Communications Electronics

- Start date: 1 June 2006
- Scheduled completion date: 31 October 2006
- Status: Ongoing

Task #3 Modulator/Correlator Communications Firmware and Software

- Start Date: 1 June 2006
- Scheduled Completion Date: 30 November 2006
- Status: Ongoing

Task #3 PDA Communication/Interpretation Display Software

- Start Date: 1 June 2006
- Scheduled Completion Date: 31 December 2006
- Status: Ongoing

Task #4 Cart/Mechanical/Encoder

- Start Date: 1 June 2006
- Scheduled Completion Date: 28 February 2007
- Status: Ongoing

Task #5 Laboratory Testing

- Start Date: 1 June 2006
- Scheduled Completion Date: 28 February 2007
- Status: Ongoing

Task #M5 1st Quarterly Status Report

- Start Date: 1 June 2006
- Scheduled Completion Date: 31 August 2006
- Status: Completed

Task #M6 Sponsors' First GO/NO-GO Milestone Review

- Start Date: 15 August 2006
- Scheduled Completion Date: 15 September 2006
- Status: Initiated on On-Schedule