

Quarterly Report

Date of Report: *June 1, 2010*

Contract Number: *DTPH56-08-T-000020*

Prepared for: *Government Agency: DOT and Co-funders: British Petroleum*

Project Title: *Internal Corrosion Detection in Liquids Pipelines*

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For quarterly period ending: *May 15, 2010*

List Activities/Deliverables Completed during this reporting period.

TECHNICAL STATUS –

In this report we will summarize the milestones achieved from Feb15 to May15 2010.

Ball Design

After many attempts the ball designed from Teflon was determined to be able to stand pressure up to 550psi. This is sufficient for the LP trials. Work was also conducted using polyurethane that was able to withstand pressures of up to 1000psi.

The next step is to design the ball to fit the microphone inside. The new ball design has been machined.

Acoustics for Location

The layout of the PCB was completed. The PCB is 1.5” diameter. It is very compact – it includes wetness sensors and the microphone. The PCB has also been manufactured. The plan is now to assemble several complete units. To that end 5 balls will be machined using Teflon.

We have also discussed with BP’s facility at Houston for the pilot trials. The pipeline with water in it will work for the initial field trials. An underwater speaker has been identified: The diameter of the speaker is 2.65”. We have approached BP’s Houston facility to determine port diameters available.