

9th Quarterly Report – Public Page

Report Date: July 30, 2010

Contract Number: DTPH56-08-T-000003

Project Title: Development of Tools to Estimate Actual Corrosion Growth Rates (Internal and External) of Gas Pipelines

Prepared for: U.S.DOT Pipeline Hazardous Materials Safety Administration

Prepared by: Southwest Research Institute®
6220 Culebra Road
San Antonio, TX, 78238

Contact Information: Frank Song
210-522-3988 (Phone)
210-522-6965 (fax)
fengmei.song@swri.org

For Quarterly Period Ending: July 30, 2010

Progress to Date:

Simplification of the external corrosion model is being made aiming at developing easy-to-use methods that will allow for estimating the chemistry and potential in coating disbanded regions conveniently.

The model simplification is being accomplished by performing numerical calculations in a number of scenarios. For a given scenario, it is possible that a simple relation may be developed that may reproduce the results from the complex numerical model.

The simple relations are easy to appreciate and can be easily used for making predictions in practical conditions.