

## 13th Quarterly Report – Public Page

Date of Report: *July 30, 2011*

Contract Number: *DTPH56-08-T-000003*

Prepared for: *DOT and Co-funders (PRCI and CenterPoint Energy)*

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

Prepared by: *Southwest Research Institute*

Contact Information: Frank Song, phone: (210) 522-3988, email: fsong@swri.org

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### **Public Page Section:**

*Modeling results on gas pipeline internal and external corrosion and their practical implications for field use have been summarized. Draft final report is being prepared.*

### **Results and Conclusions:**

*The effect of CO<sub>2</sub> penetration through a coating may or may not have a significant effect on pipeline external corrosion. In the presence of sufficient CP at the holiday, the solution chemistry in the coating disbonded region can still be turned into alkaline.*

*The implication of the model results is that the field procedures developed for predicting potential distribution and CP penetration limit in a coating disbonded region can still apply even when there is presence of CO<sub>2</sub> in soil and CO<sub>2</sub> is allowed to permeate through the coating.*

### **Plans for Future Activity:**

*Prepare the draft final report.*