

Sixth Quarterly Report September– February 2015

Date of Report: *March 4, 2015*

Contract Number: DTPH56-13-T-000008

Prepared for: *Pipeline and Hazardous Materials Safety Administration, TransCanada Pipeline, Enbridge Pipeline, and PRCI*

Project Title: “In-Ditch Validation Methodology for Determination of Defect Sizing”

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Project Status

Item 18 – Implementing recommended improvements for IWEX.

The remaining improvement for the IWEX system that was completed was a suppression of double indication in post-processing.

Item 22 – Second Round of Validation and Developing Field Tool Specifications

Several different samples were either broken or sectioned in the 6th quarter. These include:

- A 36-in SCC coupon from Germany that was scanned in Rotterdam during the 5th quarter and broken and sectioned at Kiefner’s Ohio metallurgical lab during the 6th quarter.
- 2 SCC coupons found at the Kiefner metallurgical lab that have been labeled SCC 1 & SCC 2. Testing on these samples was performed.
- The 20-in, several anomalies from one joint was broken or sectioned at Kiefner’s Ohio metallurgical lab. The remaining joints were given to PRCI for their project IM-3 on ERW seam weld integrity.

Item 23 – Develop Field Scanner

Improvements were made to the scanner in the 6th quarter.

- Improvements in the scanner were to add a jig to guide the scanner straight down the pipe so that it will follow the seam regardless of the clock position orientation of the seam. The previous Jireh scanner implementation used steerable magnetic wheels to keep the scanner oriented down the axis of the pipe.
- A field trial was initiated to test the scanner on a pipeline with 12 planned digs in northern Texas.