

Third Quarterly Report June–August 2014

Date of Report: *September 3, 2014*

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

15 – Implementing recommended improvements for IWEX.

Comparisons between the 10MHz and 7.5MHz transducers were completed.

The 16-in ERW samples were inspected a third time, this time using focused wedges. The beam width on the original wedges was approximately 10 mm, which is wider than all but one or two of the lack of fusion anomalies detected in the set of anomalies broken open in the trial. The focused wedges have a beam width of about 3 mm and it appears from the initial results that sizing has improved.

Five 40-ft long 22-in diameter ERW joints were inspected in College Station, Texas. This test was considered a pre-trial of the scanner system before going to the field. The scans apparently went well, the results were reported to the participated operator.

16 – Gathering and preparing samples for secondary testing

Several different samples were obtained and prepped in the 4th quarter. These include:

- 8-in samples with seam weld corrosion and gouges in the seam.
- 12-in, 20-in, and 22-in samples at Kiefner’s Ohio metallurgical lab.
- A 36-in SCC sample in RTD’s lab in Rotterdam.
- Two SCC coupons found at the Kiefner metallurgical lab.
- a 26-in ERW coupon with an ID lack of fusion
- Two 24-in ERW stopple coupons with multiple seam anomalies.