



ULTRASONIC INSPECTION REPORT

156816-UT-A2542014 Page 1 of 1

Procedures: BW-1A Thickness/Lamination Code: Client Information

Job / P.O. #: IRISNDT #: 156816 Date: 08-May-12 Client: CNRL Location: 12-09-044-24W4M Hobbema Battery Item Inspected: UT Thickness on A2542014 Treater Firetube

Material: Carbon Steel Surface Condition: Buffed Heat Treatment: Not Applicable

Equipment: GE DMS2 Mfg. S/N: 020448 Calibration Date: 22-Mar-12

Table with columns for Calibration Block(s), Test Piece, Cable Type, Transducer (S/N, Angle, Frequency, Crystal Size), and other parameters.

Dis. AMPL. Calibration: Not Applicable Couplant: Exosen 30 Batch #: 1023

Transfer Loss Calibration: Direct Comparison: [checked] Other: [ ] TL: +3 db

Reference Flaw Size: Backwall Primary Reference Level: 82% Reference Gain: 56 db

Lamination [checked] Shear Wave [ ] Volumetric [ ] Thickness [checked] Scan Methods: Contact [checked] Immersion [ ]

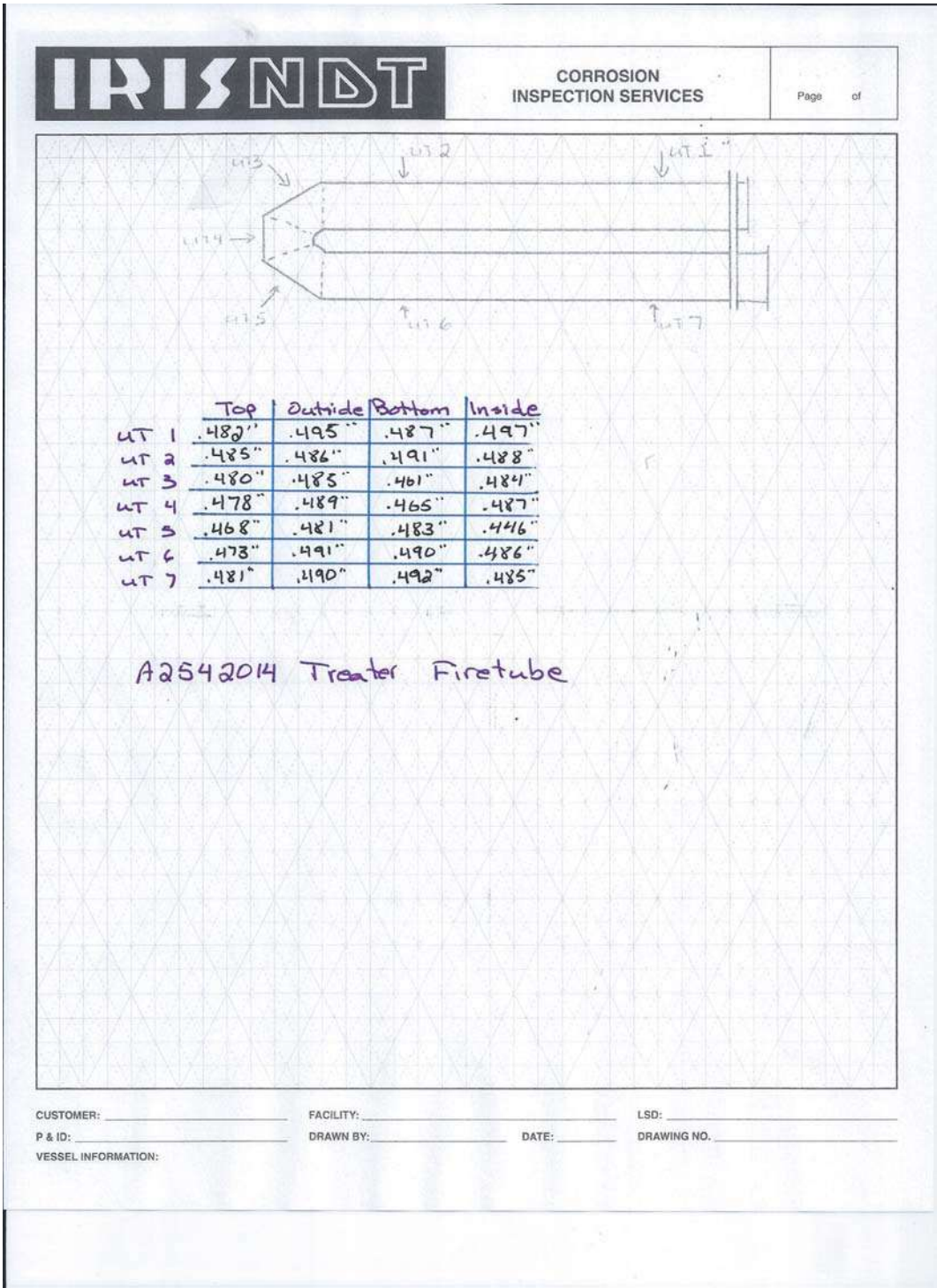
Inspection Results:

Per client request a UT thickness survey was performed on Treater A2542014 Firetube. UT testing was performed on 4 quadrants (Top, Outside, Bottom, Inside) at 1/3 increments on the straight runs, and on each miter section of the return. UT lamination scanning and thickness measurements determined the location of the patch to be installed. Nominal thickness of the tube is 0.500". Mild erosion losses were noted fairly uniform throughout the tubes. See attached image for location markings and thickness values.

Inspection Limitation(s): None

Form containing Unit# (In/Out time), Consumables, Interpretation by (Kris Katryniuk), Client Representative, and Personnel list.

Equipment Photographs:



04c-A2542014\_IRISNDT UT INSP\_MAY2012.doc