RAE Engineering and Inspection Ltd. www.raeengineering.ca Phone: (780) 469-2401 Fax: (780)-469-2401	Inspection Date:	March 03, 2025	**UT Report**
	Report Number:	TAS000161	
	Page:	1 of 4	

Client:	Rare Oilfield Services	Job Number:	PR0004081
Facility:	Shop	Location/LSD:	Vegreville / RJV Gas Field Services
Equipment Number:	RAE58154	Client Representative:	Ron Gryba
Equipment Description:	Fuel Gas Scrubber	Client Contact:	403-999-1175
Equipment Type:	Vessel	Measurment Unit:	Inch

JOB DESCRIPTION

Procedure:	NDE Technical Manual Rev 2 (NDE - 701B)		
Acceptance Code:	ASME Sec. VIII Div. 1	Surface Condition:	Painted
Material:	Carbon Steel	Surface Temp:	0 - 120 °C

EQUIPMENT, TECHNIQUE & CALIBRATION

Instrument Mfr:	Waygate Tech	Model:	DMS Go+	S/N:	GOPLS22030098	Cal. Due:	2025-07-07

	Probe Model	Freq MHz	Angle	Dia. (In)	Probe Type	Manufacturer	Serial #	Cable Lenghth	Vel. (m/sec)	Ref dB	Scan dB	Range (in)
1	DA512	7.5	0	0.250	Dual	GE	21E0108P	4'	5850	60	As Needed	0.500"

	Cal Block S/N	1 or 2 Point Cal	Calibration Range	Couplant	Block Material
1	21-3393	2	0.100" - 0.500"	UTX	Carbon Steel

Scope:

Conduct 0° straight beam ultrasonic testing on the equipment looking for any signs of wall thinning due to corrosion, erosion, laminations or inclusions.

Result:

The measurements obtained from the inspection locations showed the thicknesses of all the components inspected to be at or around nominal. There were no signs of wall thinning, internal corrosion, erosion, laminations or inclusions at the time of inspection.

Please see the following pages for the pictures of nameplate, the overall view, the isometric drawings, and the thickness measurements.

Conclusion:

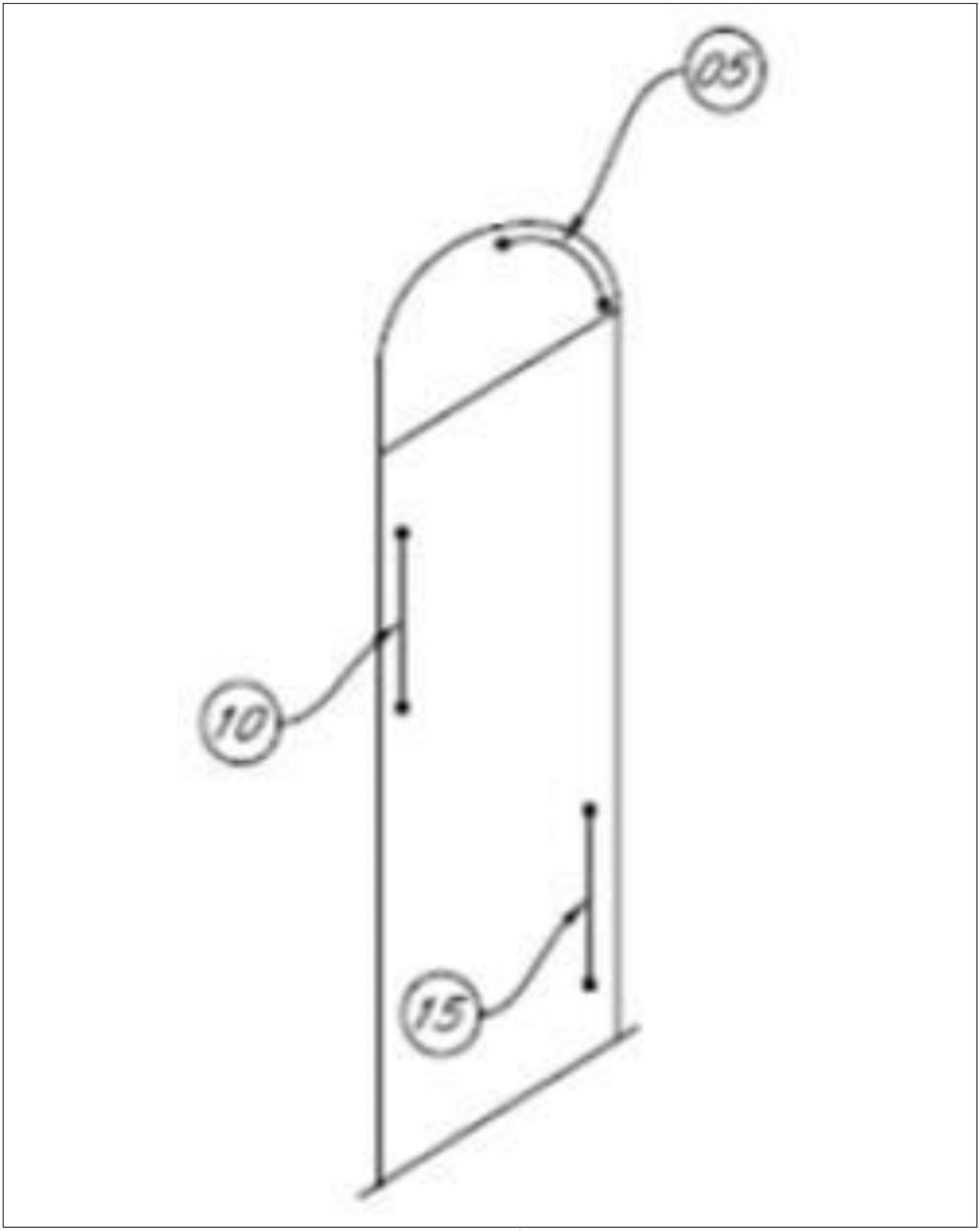
No concerns noted at the time of inspection.

Black - Within ASME Tolerance
Blue - ≤ Nominal minus ASME Tolerance
Red - ≤ Nominal minus ASME Tolerance minus CA or ≤ Nominal minus ASME Tolerance (if CA = N/S)
Orange- Nominal Not Specified (N/S)

Nameplate

Overall View

ISO Drawing



ISO Drawing

Technician: Tyson Shewchuk
CGSB#:28881 UT Level:1

RAE Engineering and Inspection Ltd.

OVER 50 YEARS

NDE-709D Thickness Gage Horizontal Linearity Certificate of Calibration

Instrument Make: GE
Transducer Make: Stresstel
Instrument Model: USM/DMS GO+
Transducer Model: FH2E
Instrument S/N: GOPLS22030098
Transducer S/N: 23A015YZ
Temperature: 21°C
Couplant: UTX

Table 1: Thickness Gage Horizontal Linearity Data

CALIBRATION BLOCK S/N	CALIBRATION BLOCK THICKNESS (IN)	BACKWALL NUMBER	MEASURED LENGTH (IN)	DEVIATION (IN)	TOLERANCE (IN)	ACCEPTABLE
60764	0.050	1st	0.050	0	0.006	Yes
21-3393	0.100	1st	0.098	0.002	0.006	Yes
21-3393	0.200	1st	0.200	0	0.006	Yes
21-3393	0.300	1st	0.300	0	0.006	Yes
21-3393	0.400	1st	0.399	0.001	0.006	Yes
21-3393	0.500	1st	0.500	0	0.006	Yes
21-3393	1.00	2nd	1.000	0	0.006	Yes
21-3393	2.000	4th	2.002	0.002	0.006	Yes
21-3393	3.000	6th	3.000	0	0.006	Yes
21-3393	4.000	8th	4.000	0	0.006	Yes

Technician Name: Tyson Shewchuk
Signature: Tyson Shewchuk
Date: July 07/2024
Calibration Due: July 07/2025