

ULTRASONIC EXAMINATION REPORT

REPORT No.: **UT - 1-3555 - 02 - SA**

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Client: Taqa North Ltd.
 District: North LSD: C-032-H / 094-H-08
 Facility: Chinchaga Gas Plant
 Item(s) Examined: Heater Boiler
 Acceptance Criteria: For Client to Review Rev. / Date: N/A
 Procedure No.: ITS-UT01 Rev. / Date: Rev. 3/ Aug. 2014
 Technique No.: N/A Rev. / Date: N/A

ITS Job No.: 1-3555
 Date: Aug. 2, 2016
 Time: 3:30
 W.O. No.: N/A
 P.O. No.: N/A
 Cost Code: N/A
 AFE: N/A
 Other: N/A

Equipment Data:

PRN: (A) 0570539 Serial No.: H106274 Equip. No.: 603FB001 CRN: K6154.12
 Material: Carbon Steel Thickness: N/S Other: N/A

Surface Condition:

Base Metal Machined Shot Blasted Wire Wheeled As Ground As Welded Painted Coated Other: _____
 < 0°C (32°F) 0°C (32°F) to 54°C (130°F) 55°C (131°F) to 100°C (212°F) > 100°C (212°F)

Ultrasonic Equipment:

Instrument: Epoch Model: LTC Serial No.: 100100602 Cal. Due Date: 15-Feb-17
 Cal. Block: Metric Stepwedge 2.5mm to 12.5mm Serial No.: 11-1203 Couplant: UTX
 Cal. Block: N/A Serial No.: N/A
 Transducer Cable(s); Type: Lemo to microdot Length: 1m

Transducer:

Serial No.:	Angle (X°):	Frequency (MHz):	Size (mm):	Type		Primary Reference (db) (%FSH):	Scanning Sensitivity (db):	Transfer Value (db):	Range (mm):
				Single	Dual				
025LN5	0	5	6.35	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.5mm- 50dB(80%FSH)	+6dB	N/A	0 - 75
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				
				<input type="checkbox"/>	<input type="checkbox"/>				

Examination Details:

SCOPE: To perform an Ultrasonic thickness survey on 3" Heating Boiler (603FB001) Coil looking for internal corrosion or thinning. Coil has total 39 wraps and each wrap was scanned clockwise from East to West at 12-3-6 & 9 o'clock position.

Limitations: No access to scan 360°, only 120° to 250° of each coil wrap was accessible for scanning.


Coil Specs: 3"x STD, Nominal - 5.49mm, Minimum - 4.8mm.


RESULTS: No signs of significant internal corrosion or degradation noted in scanned areas.

CONCLUSION: Results will be reviewed and turn over to client for further analysis.

Client Representative: _____ Sign: _____ Date: _____

Technician(s):

Sign: 
 Print: Sultan Afsar
 1st Technician
 CGSB ITS-WP01 ACCP/ASNT
 Level: 4
 Certification No.: 13851

Sign: 
 Print: Noble Aggrey
 2nd Technician / Assistant
 CGSB ITS-WP01 ACCP/ASNT
 Level: _____
 Certification No.: _____

Report Review: 
 Initial

Scope of Services
 The agreement of Integrity Testing Services Inc. to perform services extends only to those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested inspection of specific equipment provided for in writing and the preparation of reports or similar documents reflecting the inspection data obtained or the opinion formulated on the basis of such inspection. It is expressly understood that all descriptions, comments and expressions of opinion reflect the opinion or observations of the examiner and are not intended nor can they be construed as representations or warranties as to the actual circumstances. ITS is not assuming any responsibilities of the owner/operator, and the owner/operator retains complete responsibility for the engineering, repair and use decisions as a result of the inspection data or other information provided by ITS. In no event shall ITS's liability in respect of the services referred to herein exceed the amount paid for such services.
 Standard of Care
 In performing the services provided, Integrity Testing Services Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by ITS.

CONTINUATION EXAMINATION REPORT

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Client: **Taqqa North Ltd.**

ITS Job No.: **1-3555**

Item(s) Examined: **Heater Boiler**

Date: **Aug. 2, 2016**



NAME PLATE



OVERALL VIEW

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Client: **Taqra North Ltd.**

ITS Job No.: **1-3555**

Item(s) Examined: **Heater Boiler**

Date: **Aug. 2, 2016**

603FB001- 3'' Dia. Tube UT Results (mm)

Direction East to West	12 o'clock	3 o'clock	6 o'clock	9 o'clock
01	5.8	5.8	5.8	5.8
02	5.8	5.8	5.7	5.7
03	5.7	5.8	5.8	5.7
04	5.8	5.9	6.0	5.8
05	5.8	5.9	6.1	5.7
06	5.8	5.8	5.9	5.8
07	5.9	5.8	5.7	5.9
08	5.7	5.8	6.0	6.0
09	5.8	5.9	5.8	5.7
10	5.8	5.9	5.6	5.4
11	5.7	5.6	5.6	5.7
12	5.8	5.5	5.8	5.8
13	5.8	5.7	5.9	5.8
14	5.7	5.8	5.7	5.9
15	5.5	5.8	5.9	5.5
16	5.8	5.8	5.7	6.0
17	5.6	5.7	5.7	5.5
18	5.9	5.6	5.7	5.7
19	5.6	5.9	5.6	5.9
20	6.1	5.8	5.9	5.8
21	5.9	5.9	5.6	5.9
22	5.8	5.9	5.9	5.9
23	5.7	5.8	5.8	5.9
24	5.9	5.8	5.7	5.8
25	5.8	5.7	5.7	5.8
26	5.9	5.9	5.9	5.9
27	5.9	5.9	5.9	5.9
28	5.9	5.9	5.9	6.0
29	5.8	6.0	5.8	5.7
30	5.9	5.8	5.9	5.7
31	5.8	5.9	5.9	6.0
32	5.8	5.7	6.0	5.9
33	5.7	5.8	5.6	5.9
34	5.7	5.8	5.8	5.7
35	5.9	5.7	5.6	5.7
36	5.8	5.7	5.7	5.9
37	5.6	5.8	5.7	5.7
38	5.6	5.7	5.8	5.6
39	5.7	5.7	5.8	5.7



East Side Coil Overview



West Side Coil Overview