

ULTRASONIC EXAMINATION REPORT

REPORT No.: **UT - 1-4012 - 01 - MRM**

Page: **1** of **3**

Client: **Taqa North Ltd.**
District: **North** LSD: **C-032-H / 094-H-08**
Facility: **Chinchaga Gas Plant**
Item(s) Examined: **BC#1 Inlet Separator - North Side**
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.: **1-4012**
Date: **July 9, 2018**
Time: **10:30 AM**
W.O. No.: **N/A**
P.O. No.: **N/A**
Cost Code: **N/A**
AFE: **N/A**
Other: **N/A**

Equipment Data:

PRN: (A) **N/S** Serial No.: **772303** Equip. No.: **603VS006** CRN: **P7188.21**
Material: **SA-516-70N** Thickness: **Shell: 25.4mm** 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: **Olympus** Model: **Epoch 600** Serial No.: **140615602** Cal. Due Date: **10-Mar-19**
Cal. Block: **4 step wedge 6.25mm-25.00mm** Serial No.: **12-2375** Couplant: **UT-X**
Cal. Block: **-** Serial No.: **-**
Transducer Cable(s): Type: **Co-axial** Length: **4 ft**

Transducer:

Serial No.:	Angle (X°):	Frequency (MHz):	Size (mm):	Type	Primary Reference (db) (%FSH):	Scanning Sensitivity (db):	Transfer Value (db):	Range (mm):
13B01GDN	0	5	6.35	Single ☐ Dual ☒	69dB @ 80%FSH	+6dB	N/A	0 - 75
				Single ☐ Dual ☐				
				Single ☐ Dual ☐				
				Single ☐ Dual ☐				

Examination Details:

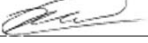
SCOPE: To perform an Ultrasonic thickness measurement examination on five (5) isolated pit locations on BC #1 Inlet Separator - North shell (603VS006) to verify any degradation or wall loss in specific locations to confirm the integrity of vessel. Internal inspection in 2012 revealed internal isolated pitting on shell, locations were mapped and marked out on the exterior of vessel to monitor on yearly basis to confirm any degradation.

RESULTS: No signs of significant corrosion or degradation noted in examined areas with compare to previous results.

CONCLUSION: The information will be reviewed and sent to the client for final analysis.

Client Representative: _____ Sign: _____ Date: _____

Technician(s):

Sign: 
Print: **Mike Michielin**
1st Technician
CGSB ITS-WP01 ACCP/ASNT
Level: **1**
Certification No.: **17591**

Sign: 
Print: **Chris Earl**
2nd Technician / Assistant
CGSB ITS-WP01 ACCP/ASNT
Level: **1**
Certification No.: **15847**

Report Review: 
Initial

CONTINUATION EXAMINATION REPORT

REPORT No.: **UT - 1-4012 - 01 - MRM**

Page: **2** of **3**

Client: **Taqa North Ltd.**

ITS Job No.: **1-4012**

Item(s) Examined: **BC#1 Inlet Separator - North Side**

Date: **July 9, 2018**



NAME PLATE



OVERALL VIEW

CONTINUATION EXAMINATION REPORT

REPORT No.: **UT - 1-4012 - 01 - MRM**

Page: **3** of **3**

Client: **Taqa North Ltd.**

ITS Job No.: **1-4012**

Item(s) Examined: **BC#1 Inlet Separator - North Side**

Date: **July 9, 2018**

BC #1 Inlet Separator 603VS006 - UT Results

Pit Location	Nominal	C.A.	Minimum	Recorded Readings					
				July 2012	August 2013	March 2014	August 2015	August 2016	July 2018
A	25.4	1.6	23.8	22.6	22.6	22.6	22.6	22.6	22.6
B	25.4	1.6	23.8	23.8	23.0	23.3	23.3	23.5	23.5
C	25.4	1.6	23.8	23.0	22.4	22.7	22.7	22.6	22.6
D	25.4	1.6	23.8	23.1	22.6	22.6	22.6	22.6	22.6
E	25.4	1.6	23.8	23.3	22.9	23.1	23.1	23.1	23.1

All readings in mm



Examined Locations A, B & C



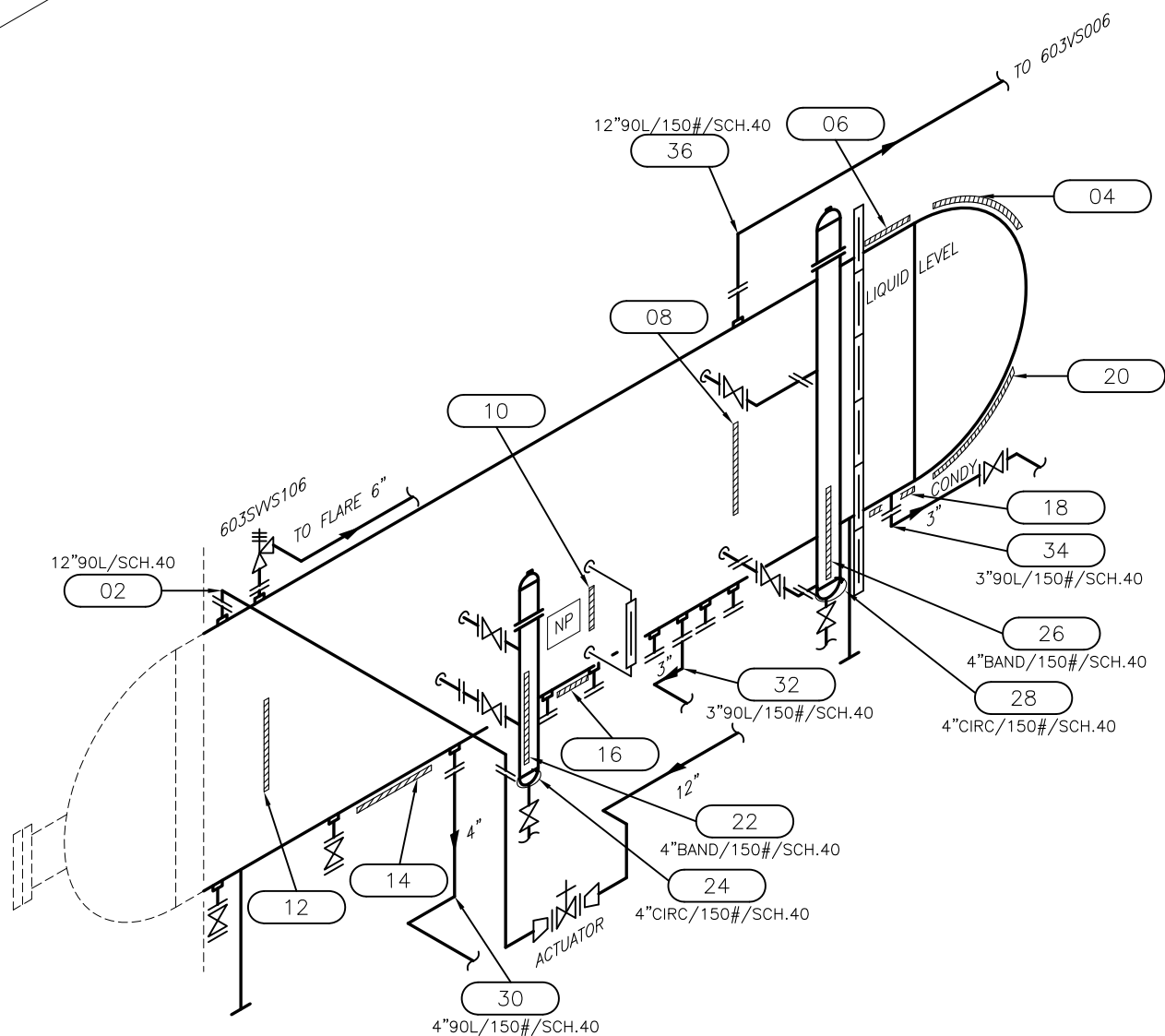
Examined Locations D



Examined Locations E

P&ID NO.: N/S

REF. NO.: N/A



U1A ON FILE

P.E. NO.: N/S OUP#: 603VS006
 PROV. REG. NO.: N/S C.R.N.: P7188.21
 SERIAL NO.: 772303 N.B. NO.: N/S

Code/Div.: ASME VIII DIV.1 Size: 2997.2 ID X 9144mm
 Radiography: RT-2 Service: SWEET
 Insulated: NO PWHT: N/S
 Year Built: 2001 Manway: YES Size: 24"
 Manufacturer: NATCO CANADA LTD.

Design & Materials Data

HEAD
 Mat'l: SA-516-70N Nom.: 28.58mm C.A.: 1.59mm
 Mat'l: SA-516-70N Nom.: 23.37mm C.A.: 1.59mm

SHELL
 Mat'l: SA-516-70N Nom.: 25.40mm C.A.: 1.59mm
 Mat'l: _____ Nom.: _____ C.A.: _____

BOOT
 Head Mat'l: _____ Nom.: _____ C.A.: _____
 Shell Mat'l: _____ Nom.: _____ C.A.: _____

CHANNEL
 Mat'l: _____ Nom.: _____ C.A.: _____

MAWP Shell Side: 1896 KPA @ Temp.: 49°C/-29°C
 MAWP Tube Side: _____ @ Temp.: _____

CLIENT	TAQA NORTH	
FACILITY	CHINCHAGA GAS PLANT	
	LSD C-032-H/ 094-H-08	
ITEM	BC #1 INLET SEPARATOR	
TECH/CAD: C.R.E./F.Y.C.	DATE: 07/2018	DWG. No.: 009

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: 12" 90L B-T
CML: 009-02

NOM. THICK.: 10.31 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 9.02 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **9.40 mm**
AVERAGE THICKNESS MEASURED: 9.54 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	10.30	10.40	9.80	0.0584	0.0285	6.68
2	10.30	10.20	9.80	0.0390	0.0285	10.00
3	10.30	10.20	9.50	0.0682	0.0456	3.52
4	10.30	10.20	9.40	0.0779	0.0513	2.44
5	10.30	10.20	9.40	0.0779	0.0513	2.44
6	10.30	10.40	9.40	0.0974	0.0513	1.95
7	10.30	10.50	9.50	0.0974	0.0456	2.46
8	10.30	10.40	9.50	0.0876	0.0456	2.74
9	10.30	10.40	9.50	0.0876	0.0456	2.74
10	10.30	10.50	9.60	0.0876	0.0399	3.31
11	10.30	10.20	9.60	0.0584	0.0399	4.97
12	10.30	9.60	9.50	0.0097	0.0456	5.26

COMMENTS:
2008/04 - READING #12 @ H.A.Z.

Description: TOP SOUTH HEAD T-B
CML: 009-04

NOM. THICK.: 28.58 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 26.74 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **30.50 mm**
AVERAGE THICKNESS MEASURED: 30.62 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	28.60	31.40	31.10	0.0292	0.0000	74.66
2	28.60	30.50	30.60	0.0000	0.0000	100.00
3	28.60	30.50	30.50	0.0000	0.0000	100.00
4	28.60	30.50	30.50	0.0000	0.0000	100.00
5	28.60	30.50	30.50	0.0000	0.0000	100.00
6	28.60	30.70	30.50	0.0195	0.0000	96.41

COMMENTS:
2008/04 - READING #1 @ H.A.Z.

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: TOP SHELL S-N
CML: 009-06

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.20 mm**
AVERAGE THICKNESS MEASURED: 26.28 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.50	26.50	0.0000	0.0000	100.00
2	25.40	26.30	26.30	0.0000	0.0000	100.00
3	25.40	26.30	26.20	0.0097	0.0000	100.00
4	25.40	26.30	26.20	0.0097	0.0000	100.00
5	25.40	26.30	26.20	0.0097	0.0000	100.00
6	25.40	26.30	26.30	0.0000	0.0000	100.00

COMMENTS:
2008/04 - READING #1 @ H.A.Z.

Description: SOUTH SIDE SHELL T-B
CML: 009-08

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.20 mm**
AVERAGE THICKNESS MEASURED: 26.22 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.40	26.20	0.0195	0.0000	67.69
2	25.40	26.30	26.20	0.0097	0.0000	100.00
3	25.40	26.20	26.20	0.0000	0.0000	100.00
4	25.40	26.40	26.20	0.0195	0.0000	67.69
5	25.40	26.20	26.30	0.0000	0.0000	100.00
6	25.40	26.20	26.20	0.0000	0.0000	100.00

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: LOWER SIDE SHELL T-B
CML: 009-10

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.00 mm**
AVERAGE THICKNESS MEASURED: 26.02 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.40	26.10	0.0292	0.0000	43.49
2	25.40	26.50	26.00	0.0487	0.0000	25.05
3	25.40	26.00	26.00	0.0000	0.0000	100.00
4	25.40	25.90	26.00	0.0000	0.0000	100.00
5	25.40	25.80	26.00	0.0000	0.0000	100.00
6	25.40	26.00	26.00	0.0000	0.0000	100.00

Description: NORTH SIDE SHELL T-B
CML: 009-12

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.10 mm**
AVERAGE THICKNESS MEASURED: 26.10 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.70	26.10	0.0584	0.0000	21.75
2	25.40	26.20	26.10	0.0097	0.0000	100.00
3	25.40	26.80	26.10	0.0682	0.0000	18.62
4	25.40	26.20	26.10	0.0097	0.0000	100.00
5	25.40	26.30	26.10	0.0195	0.0000	65.13
6	25.40	26.30	26.10	0.0195	0.0000	65.13

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: NORTH BOTTOM SHELL S-N
CML: 009-14

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.00 mm**
AVERAGE THICKNESS MEASURED: 26.00 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.10	26.00	0.0097	0.0000	100.00
2	25.40	26.60	26.00	0.0584	0.0000	20.89
3	25.40	26.00	26.00	0.0000	0.0000	100.00
4	25.40	26.60	26.00	0.0584	0.0000	20.89
5	25.40	26.60	26.00	0.0584	0.0000	20.89
6	25.40	26.60	26.00	0.0584	0.0000	20.89

Description: MIDDLE BOTTOM SHELL S-N
CML: 009-16

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.20 mm**
AVERAGE THICKNESS MEASURED: 26.22 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.50	26.30	0.0195	0.0000	70.26
2	25.40	26.40	26.20	0.0195	0.0000	67.69
3	25.40	26.30	26.20	0.0097	0.0000	100.00
4	25.40	26.30	26.20	0.0097	0.0000	100.00
5	25.40	26.30	26.20	0.0097	0.0000	100.00
6	25.40	26.50	26.20	0.0292	0.0000	45.21

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: SOUTH BOTTOM SHELL S-N
CML: 009-18

NOM. THICK.: 25.40 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 23.56 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **26.10 mm**
AVERAGE THICKNESS MEASURED: 26.17 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	25.40	26.20	26.10	0.0097	0.0000	100.00
2	25.40	26.20	26.10	0.0097	0.0000	100.00
3	25.40	26.10	26.20	0.0000	0.0000	100.00
4	25.40	26.40	26.20	0.0195	0.0000	67.69
5	25.40	26.20	26.20	0.0000	0.0000	100.00
6	25.40	26.20	26.20	0.0000	0.0000	100.00

Description: BOTTOM HEAD T-B
CML: 009-20

NOM. THICK.: 28.58 mm
MILL. TOL.: 0.254 mm
CA: 1.59 mm
MIN. NOM.: 26.74 mm

MATERIAL: SA-516-70N
MINIMUM THICKNESS MEASURED: **30.10 mm**
AVERAGE THICKNESS MEASURED: 30.30 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	28.60	30.60	30.60	0.0000	0.0000	100.00
2	28.60	30.30	30.50	0.0000	0.0000	100.00
3	28.60	30.20	30.30	0.0000	0.0000	100.00
4	28.60	30.10	30.20	0.0000	0.0000	100.00
5	28.60	29.80	30.10	0.0000	0.0000	100.00
6	28.60	30.00	30.10	0.0000	0.0000	100.00

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: 4" FLOAT SHELL 150#
CML: 009-22

NOM. THICK.: 6.02 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 5.27 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **6.30 mm**
AVERAGE THICKNESS MEASURED: 6.47 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	6.00	6.50	6.50	0.0000	0.0000	100.00
2	6.00	6.60	6.50	0.0097	0.0000	63.40
3	6.00	7.00	6.50	0.0487	0.0000	12.63
4	6.00	7.10	6.50	0.0584	0.0000	10.53
5	6.00	6.50	6.50	0.0000	0.0000	100.00
6	6.00	6.50	6.30	0.0195	0.0000	26.41

Description: 4" FLOAT BOTTOM HEAD 150#
CML: 009-24

NOM. THICK.: 6.02 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 5.27 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **5.40 mm**
AVERAGE THICKNESS MEASURED: 5.40 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	6.00	5.30	5.40	0.0000	0.0342	1.90
2	6.00	5.20	5.40	0.0000	0.0342	1.90
3	6.00	5.30	5.40	0.0000	0.0342	1.90
4	6.00	5.30	5.40	0.0000	0.0342	1.90

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: 4" FLOAT LOWER SHELL 150#
CML: 009-26

NOM. THICK.: 6.02 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 5.27 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **6.00 mm**
AVERAGE THICKNESS MEASURED: 6.08 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	6.00	6.70	6.40	0.0292	0.0000	19.35
2	6.00	6.00	6.10	0.0000	0.0000	100.00
3	6.00	6.00	6.00	0.0000	0.0000	100.00
4	6.00	6.00	6.00	0.0000	0.0000	100.00
5	6.00	6.00	6.00	0.0000	0.0000	100.00
6	6.00	6.10	6.00	0.0097	0.0000	37.63

COMMENTS:
2008/04 - READING #6 @ H.A.Z.

Description: 4" FLOAT BOTTOM HEAD 150#
CML: 009-28

NOM. THICK.: 6.02 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 5.27 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **5.40 mm**
AVERAGE THICKNESS MEASURED: 5.48 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	6.00	5.70	5.50	0.0195	0.0285	4.04
2	6.00	5.20	5.50	0.0000	0.0285	4.04
3	6.00	5.60	5.40	0.0195	0.0342	1.90
4	6.00	5.70	5.50	0.0195	0.0285	4.04

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: 4" 90L T-B 150#

CML: 009-30

NOM. THICK.: 6.02 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 5.27 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **5.50 mm**
AVERAGE THICKNESS MEASURED: 5.77 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	6.00	6.00	6.00	0.0000	0.0000	100.00
2	6.00	5.80	5.80	0.0000	0.0114	23.25
3	6.00	5.80	5.80	0.0000	0.0114	23.25
4	6.00	5.90	5.50	0.0390	0.0285	2.95
5	6.00	6.00	5.70	0.0292	0.0171	7.36
6	6.00	5.80	5.80	0.0000	0.0114	23.25

Description: 3" 90L T-B 150#

CML: 009-32

NOM. THICK.: 5.49 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 4.80 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **5.10 mm**
AVERAGE THICKNESS MEASURED: 5.16 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	5.50	5.30	5.30	0.0000	0.0114	21.93
2	5.50	5.20	5.20	0.0000	0.0171	11.70
3	5.50	5.10	5.10	0.0000	0.0228	6.58
4	5.50	5.10	5.10	0.0000	0.0228	6.58
5	5.50	5.10	5.10	0.0000	0.0228	6.58

COMMENTS:
2008/04 - READING #5 @ H.A.Z.

CLIENT: **TAQA North**
FACILITY: Chinchaga Gas Plant
UNIT/AREA:
LSD: C-032-H/094-H-08
DESCRIPTION: BC #1 Inlet Separator

PROV. REG. #: Not Stated
SERIAL #: 772303
OIP NO.: 603VS006

Description: 3" 90L T-B 150#
CML: 009-34

NOM. THICK.: 5.49 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 4.80 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **4.10 mm**
AVERAGE THICKNESS MEASURED: 5.26 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	5.50	5.70	5.70	0.0000	0.0000	100.00
2	5.50	5.50	5.50	0.0000	0.0000	100.00
3	5.50	5.80	5.50	0.0292	0.0000	11.99
4	5.50	5.80	5.50	0.0292	0.0000	11.99
5	5.50	6.00	4.10	0.1850	0.0799	0.00

COMMENTS:

2008/04 - READING #5 @ H.A.Z.

2018/07 - READING #5 @ PITTING. READING CONFIRMED.

Description: 12" 90L B-T 150#
CML: 009-36

NOM. THICK.: 10.31 mm
MILL. TOL.: ASTM
CA: Not Stated
MIN. NOM.: 9.02 mm

MATERIAL:
MINIMUM THICKNESS MEASURED: **8.90 mm**
AVERAGE THICKNESS MEASURED: 9.07 mm
CALCULATED T-MIN: Not Stated

Rdg.	B/L Thick. MM/DD/YY			Short Term mm/yr	Long Term mm/yr	Rem. Half Life
	01/01/01	04/04/08	07/09/18			
1	10.30	10.10	9.60	0.0487	0.0399	5.95
2	10.30	10.10	9.10	0.0974	0.0685	0.41
3	10.30	10.10	9.10	0.0974	0.0685	0.41
4	10.30	10.10	9.10	0.0974	0.0685	0.41
5	10.30	10.20	9.10	0.1071	0.0685	0.37
6	10.30	10.00	9.00	0.0974	0.0742	0.00
7	10.30	9.40	9.00	0.0390	0.0742	0.00
8	10.30	9.80	8.90	0.0876	0.0799	0.00
9	10.30	7.80	8.90	0.0000	0.0799	0.00
10	10.30	9.60	8.90	0.0682	0.0799	0.00
11	10.30	9.60	9.10	0.0487	0.0685	0.58
12	10.30	9.70	9.00	0.0682	0.0742	0.00

COMMENTS:

2018/07 - READING #9 CONFIRMED.