

SHAMS POWER COMPANY
ENGINEERING DIVISION
INSPECTION & CORROSION SECTION
SHAMS 1

LOCATION : R1HAN50BB010

KKS : R1HAN50BB010

GRADE & CLASSIFICATION : 2

CERTIFICATE OF INSPECTION

The equipment detailed below was examined in accordance with the SHAMS code of practice for plant inspection,

ITEM : blowdown tank

LOCATION : SHAMS Plant

TYPE OF INSPECTION : Major

DATE OF INSPECTION : March, 2020

PLACE OF INSPECTION : IN-SITU

DATE OF LAST INSPECTION : Jan, 2019

REPORT :

1.0. SUMMARY

The above pressure vessel was taken off line, isolated, opened, vented & cleaned for major external & internal inspections.

2.0. SUBJECT

2.1. This is a horizontal, cylindrical, carbon steel tank with one inlet and outlet of condensate water.

Size	
Design pressure	
Design temperature	
Operation pressure	90barg
Operation temperature	310c
Fluid characteristics @	
Flanges	A314
Piping	A314
Shell minimum thickness	
Head minimum thickness	

.....
The above equipment is/ ~~is not~~ considered suitable for further service under the present operating conditions

NEXT MAJOR INSPECTION DUE : March 2024

INSPECTED: Osman Ismail

ENDORSEMENT: 48 MONTHS

REVIEWED: Ali Al Masabai

3.0 HISTORY

This tank was commissioned in 2013. Periodical inspection records since Oct.'2014 are available.

4.0. SCOPE OF INSPECTION

4.1. Visual Inspection

4.2 Ultrasonic Thickness survey

5.0. CONDITIONS FOUND

5.1. External

5.1.1 All painting and insulation found intact without any evidence of painting peel off or blistering and no evidence of any damage for insulation or insulation cover aluminum sheet.

5.1.2 All ladders, stairways and handrails found in satisfactory condition.

5.1.3 All concrete support found in satisfactory condition without evidence of cracking or spalling.

5.1.4 All external piping insulation found in satisfactory condition.

5.1.5 All earthing lugs found in satisfactory condition.

5.2. Internal

5.2.1 All internals found in satisfactory condition without evidence of fallen down, damage or corrosion.

5.2.2 All internal surfaces of shell and heads found in satisfactory condition, apart from normal carbon steel very thin hydroxide layer.

6.0 NDT

- Ultrasonic thickness measurement was carried out on the internal shell courses and heads found satisfactory. See attached thickness measurement report.

6.0. Recommendations

Blow down tank should be open for inspection after four years as per SHAMS code of practice.

10. Inspection Grade and Interval

In accordance with the latest revision of SHAMS Code of Practice, this **Deaerator** was endorsed for 48 months under class 2, for next Major Inspection.





FREQUENCY : 48 MONTHS.

ENDORSEMENT : 48 MONTHS,

GRADE : 2

Next Major Insp. due : March, 2024

Photos

	
Shell, dished end and weld condition	Manway cover and devoid
	
Manway nozzle, flange gasket seating	Shell internal surface and welds
	
Internals and connecting piping	

Form No.: IN-QSF-36 Rev. 05E Dtd.: 20-10-2018

ULTRASONIC THICKNESS GAUGING REPORT

Client:	SHAMS POWER COMPANY		
Date:	03.03.2020	Report No.:	AD / 453
Project:	SHAMS OUTAGE MARCH 2020	Job No. :	N/A
Location:	MADINAT ZAYED	Drawing No.:	N/A
Item ID:	CONTINUOUS BLOW DOWN TANK - R1HAN50 BB010	Material:	CS
Ref/ Procedure No:	INSPEC/UTG/001 Rev.10	Ref. Standard:	ASME SEC V
UTG Equipment Model/ Manufacturer:	USM 35 X DAC / GE	Serial No.:	7292a
Calibration Block No. :	STEP WEDGE, IIW V2 BLOCK	EQPT Calibration Certificate & Due Date:	INS/UT/CAL-043/19/AUH
Probe Type/ Size/Frequency:	WK TR 0° PROBE/ 10mm DIA / 5 MHz	Couplant Brand Name & Type:	POLYCELL + WATER
Connecting Cable Type & Length:	LEMO TO MICRODOT & 2 MTR	Special Attachment/ Equipment/ Block:	STEP WEDGE BLOCK (SL NO : AZB270)
Test Temperature:	AMBIENT	Surface Condition:	AS CLEANED
Inspection Date:	03.03.2020	Page:	1 of 1

Description:

ULTRASONIC THICKNESS GAUGING WAS CARRIED OUT ON THE FOLLOWING ITEM

LOCATION	ORIENTATION	MEASURED THICKNESS (mm)
1	12 O'CLOCK	15.80
1	3 O'CLOCK	15.90
1	6 O'CLOCK	15.70
1	9 O'CLOCK	15.93
2	12 O'CLOCK	13.23
2	3 O'CLOCK	13.01
2	6 O'CLOCK	13.00
2	9 O'CLOCK	12.60

REPORT FORMAT APPLICABLE ONLY FOR AUH & FUJ FACILITY

LEVEL II TECHNICIAN		CLIENT REPRESENTATIVE		AI / TPI
Name :	AFZAL ANSARI & SHYMAL PAUL	Name :		
Sign :		Sign :		
Date :	03.03.2020	Date :		

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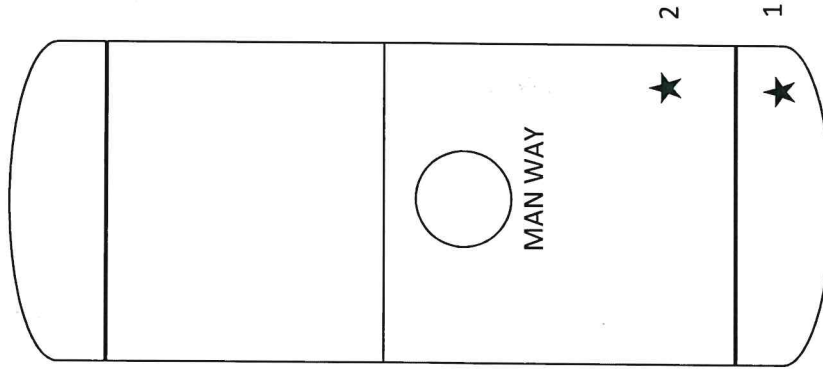
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Please see terms & conditions. This report is valid only if signed and stamped (Numbered Stamp) by Level II / Level III.

ULTRASONIC THICKNESS SCANNING DRAWING SHEET

CONTINUOUS BLOW DOWN TANK



★ UTG LOCATION

LEVEL II TECHNICIAN

Name :- SHYAM PAUL & AFZAL-ANSARI

Sign :-

Date :- 03.03.2020