

	<b>MAJOR TURNAROUND 2025</b> <b>PRESSURE VESSEL INSPECTION REPORT</b>	
		Report no.: <b>PLANT1/VI/HX-301/TA2025</b> Report date: 19 Nov 2025 Plant/Unit/Area: Plant 1

Equipment tag no: HX-301

DOSH registration no.: MK PMT 1001

Equipment description: Shell and Tube Heat Exchanger

## FINDINGS, NDTs & RECOMMENDATIONS

### FINDINGS

Initial/Pre-Inspection - Not applicable

### Post/Final Inspection

#### Internal

- 1 1.1 Severe corrosion with significant metal loss exceeding 3mm depth
- 1.2 General corrosion observed with pitting depth up to 2mm across affected area
- 1.3 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss

### NON-DESTRUCTIVE TESTINGS

UTTM: No significant wall loss detected compared to nominal thickness upon testing. Please refer UTTM report for complete documentation.

### RECOMMENDATIONS

- 1: 1.1 Plan repair for next major turnaround
- 1.2 Schedule repair during next planned shutdown within 30 days
- 1.3 Engineering assessment required to determine repair methodology

Inspected by:

Reviewed by:

Approved by (Client):

Recommendation/Comment by DOSH Officer (if applicable):

Name:

Signature:

Date:

Action taken by Plant 1 on recommendation by DOSH (if applicable):

# MAJOR TURNAROUND 2025

## PRESSURE VESSEL INSPECTION REPORT

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**PLANT1/VI/HX-301/TA2025**  
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19 Nov 2025  
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### PHOTOS REPORT

#### Photo 1



#### Finding:

- 1.1 1.1 Severe corrosion with significant metal loss exceeding 3mm depth
  - 1.2 General corrosion observed with pitting depth up to 2mm across affected area
  - 1.3 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss
- Recommendation:**
- 1.1.1 Plan repair for next major turnaround
  - 1.2 Schedule repair during next planned shutdown within 30 days
  - 1.3 Engineering assessment required to determine repair methodology



#### Finding:

- 1.2 1.1 Severe corrosion with significant metal loss exceeding 3mm depth
  - 1.2 General corrosion observed with pitting depth up to 2mm across affected area
  - 1.3 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss
- Recommendation:**
- 1.2.1.1 Plan repair for next major turnaround
  - 1.2 Schedule repair during next planned shutdown within 30 days
  - 1.3 Engineering assessment required to determine repair methodology



#### Finding:

- 1.3 1.1 Severe corrosion with significant metal loss exceeding 3mm depth
  - 1.2 General corrosion observed with pitting depth up to 2mm across affected area
  - 1.3 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss
- Recommendation:**
- 1.3.1.1 Plan repair for next major turnaround
  - 1.2 Schedule repair during next planned shutdown within 30 days
  - 1.3 Engineering assessment required to determine repair methodology

Inspected by: Ahmed

Reviewed by:

Approved by (Client):