

	MAJOR TURNAROUND 2025 PRESSURE VESSEL INSPECTION REPORT	
		Report no.: PLANT1/VI/HX-301/TA2025 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
- 2 2.1 Hairline surface crack detected, length < 25mm, no propagation evidence
- 2.2 Crack detected in weld seam, length > 50mm, requires immediate attention

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
- 2: 2.1 Immediate shutdown and repair required before return to service
- 2.2 Implement temporary repair and schedule permanent fix within 48 hours

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):

Name: _____ Signature: _____ Date: _____

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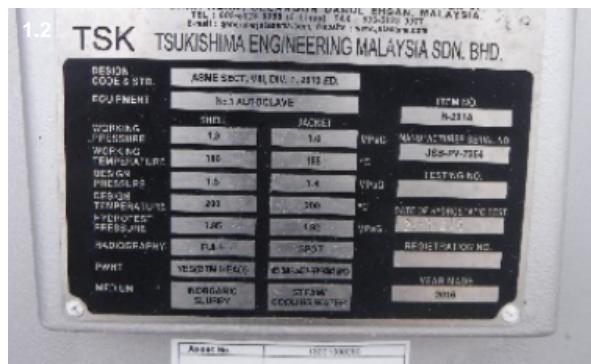
PHOTOS REPORT

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

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PHOTOS REPORT

Photo 2



Finding:

2.1 2.1 Hairline surface crack detected, length < 25mm, no propagation evidence

2.2 Crack detected in weld seam, length > 50mm, requires immediate attention

Recommendation:

2.1 2.1 Immediate shutdown and repair required before return to service

2.2 Implement temporary repair and schedule permanent fix within 48 hours

Inspected by: Ahmed

Reviewed by:

Approved by (Client):