

	<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
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Equipment tag no: HX-301  
Equipment description: Shell and Tube Heat Exchanger

DOSH registration no.: MK PMT 1001

**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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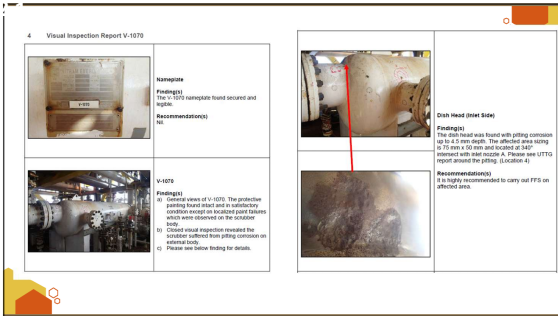
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PHOTOS REPORT

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