

	MAJOR TURNAROUND 2025 PRESSURE VESSEL INSPECTION REPORT	Report no.: PLANT/01/VR-R-201/TA2025 Report date: 22 Nov 2025 Plant/Unit/Area: Plant 1
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Equipment tag no: R-201

DOSH registration no.: MK PMT 1001

Equipment description: Catalytic Reactor

FINDINGS, NDTs & RECOMMENDATIONS

FINDINGS

Initial/Pre-Inspection - Not applicable

Post/Final Inspection

Internal

1 1.1 Through-wall corrosion detected with active leak or imminent failure risk

1.2 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss

1.3 General corrosion observed with pitting depth up to 2mm across affected area

2 2.1 General corrosion observed with pitting depth up to 2mm across affected area

2.2 Severe corrosion with significant metal loss exceeding 3mm depth

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 1.1 Schedule repair during next planned shutdown within 30 days

1.2 Engineering assessment required to determine repair methodology

2: 2.1 nill

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):

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PHOTOS REPORT

Photo 1



Finding:

1.1 1.1 Through-wall corrosion detected with active leak or imminent failure risk

1.2 External corrosion detected on shell surface, localized area approximately 50mm x 50mm with minimal metal loss

1.3 General corrosion observed with pitting depth up to 2mm across affected area

Recommendation:

1.1 1.1 1.1 Schedule repair during next planned shutdown within 30 days

1.2 Engineering assessment required to determine repair methodology

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PHOTOS REPORT

Photo 2



Finding:

2.1 2.1 General corrosion observed with pitting depth up to 2mm across affected area

2.2 Severe corrosion with significant metal loss exceeding 3mm depth

Recommendation:

2.1 2.1 nill



Finding:

2.2 2.1 General corrosion observed with pitting depth up to 2mm across affected area

2.2 Severe corrosion with significant metal loss exceeding 3mm depth

Recommendation:

2.2 2.1 nill

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PHOTOS REPORT

Photo 3

MAJOR TURNAROUND 2025		Report ID: PLAN-UNIV-000174/TA0203
PRESSURE VESSEL INSPECTION REPORT		Report date: 01/01/2025
Report item no.: V-005	Plant/Location: Plant E	Report type: P-002
Equipment description: Plant Air Receiver Vessel	P-002 registration no.: M-PMF 1002	
FINISHING, NOTES & RECOMMENDATIONS		
<p>Initial inspection: <input checked="" type="checkbox"/> Initial Pre-inspection. <input type="checkbox"/> Annual inspection.</p> <p>Post/Final inspection: <input type="checkbox"/> Internal</p> <p>External:</p> <p>1.3.1. general - equipment was found fully operable. All associated parts were intact as per design in satisfactory condition.</p> <p>1.3.2. identification number and serial number were found correctly in place and legible.</p> <p>1.3.3. Concourse boundaries, anchor bolts and support legs were observed in satisfactory condition with no signs of anomalies.</p> <p>1.3.4. External visual inspection of the vessel body and piping system was conducted. No signs of deterioration or permanent physical appearance change were observed.</p> <p>Final External visual inspection rating: Excellent.</p> <p>Internal:</p> <p>2.1. internal of manholes were checked with aid of mechanical marking gear on gasket seat area at 4 o'clock position. Result is Accurate.</p> <p>2.2. Manhole flange was found to be satisfactory except for evidence of gasket seal area at position 1 o'clock.</p> <p>RECOMMENDATIONS:</p> <p>3.1. To inspect the vessel body and piping system for any potential anomalies.</p> <p>3.2. To inspect the vessel body and piping system for any potential anomalies.</p> <p>3.3. To inspect the vessel body and piping system for any potential anomalies.</p> <p>NON-Destructive Testing: UTG was performed with good contrast compared to nominal thickness. Please refer attachment report.</p> <p>RECOMMENDATIONS:</p> <p>2.1. To inspect the vessel body and piping system for any potential anomalies.</p> <p>2.2. To inspect the vessel body and piping system for any potential anomalies.</p>		
Inspected by: Ahmed bin Abu	Revised by: /	Approved by (Signature): /
Recommendation/Comment by DOSH Office if applicable:		
Name: _____	Signature: _____	Date: _____
Action taken by Plan E on recommendation by DOSH (if applicable):		

Finding:

3.1 No caption provided

Recommendation:

3.1 Nil

MAJOR TURNAROUND 2025 PRESSURE VESSEL INSPECTION REPORT		Report date: PLANT/IV/V985/TAB25
Report tag no: V1003 Report description: Plant Air Receiver Vessel		Report date: MM/DD/YY
PHOTOS REPORT		Plant/Workshop Plant 1 DDOH registration no.: MTS PMT 1002
Photo 1		<p>Findings:</p> <p>1.1 Internal view of equipment V1003 fitting from south side.</p> <p>1.2 Internal view of equipment V1003 fitting from north side.</p> <p>1.3 Internal view of equipment V1003 fitting from west side.</p> <p>1.4 Internal view of equipment V1003 fitting from east side.</p> <p>Recommendations:</p> <p>1.1 N/A.</p>
Photo 2		<p>Findings:</p> <p>2.1 Identification - carbon steel vessel number found securely attached to the vessel.</p> <p>2.2 Inspection number found on vessel and mounted on non-represented body.</p> <p>Recommendations:</p> <p>2.1 N/A.</p> <p>2.2 N/A.</p>
Photo 3		<p>Findings:</p> <p>3.1 Concrete foundation and support legs were observed in satisfactory condition with no signs of damage.</p> <p>3.2 Anchor bolts observed tightened and in correct condition.</p> <p>Recommendations:</p> <p>3.1 N/A.</p> <p>3.2 N/A.</p>

Finding:

3.2 No caption provided

Recommendations

3.2 Nil

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PHOTOS REPORT

Photo 4



Finding:

4.1 No caption provided

Recommendation:

4.1 Nil



Inspected by:

Reviewed by:

Approved by (Client):