

	MAJOR TURNAROUND 2025 PRESSURE VESSEL INSPECTION REPORT	Report no.: PLANT 3/VI/R-201/TA2026 Report date: 13 Jan 2026
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Equipment tag no: R-201
Equipment description: Catalytic Reactor

Plant/Unit/Area: Plant 3
DOSH registration no.: MK PMT 1001

FINDINGS, NDTs & RECOMMENDATIONS

Condition: With respect to the internal surface, describe and state location of any scales, oils or other deposits. Give location and extent of any corrosion and state whether active or inactive. State location and extent of any erosion, grooving, bulging, warping, cracking or similar condition. Report on any defective rivets bowed, loose or broken stays. State condition of all tubes, tube end, coils nipples, etc. Report condition of setting, linings, baffles, support, etc. Describe major changes or repairs made since last inspection.

FINDINGS

Initial/Pre-Inspection - Not applicable

Post/Final Inspection

- 2.3 All internal attachment and internal nozzles were found securely intact with no visible defect.
2.4 Nozzles N-2 and N-15 flange included its gasket seat area found in satisfactory condition.
2.5 H-1 and M-1 flange and cover noted with no sign of anomaly. Gasket seat area was found free any significant damage.
2.6 Internal top dish head surface noted with discoloration.
Internal top dish head surface noted with discoloration.
H-1 and M-1 flange and cover noted with no sign of anomaly. Gasket seat area was found free any significant damage.

External

- 1.1 Nameplate, equipment number and PMT number were found securely intact in its place and legible.
1.2 Concrete foundation, anchor bolts and support legs were observed in satisfactory condition with no sign of abnormalities.

Internal

- 2.1 Manhole flange was found in serviceable condition except for evidence of dented on gasket seat area at position 1 o'clock with approx. 3mm of maximum of radial projection.
2.2 Internal of manhole cover noted with evidence of mechanical mark on gasket seat area at 4 o'clock position. Result is acceptable as per ASME PCC1, Table D-2M.
2.3 Manhole weldment was found in serviceable condition except for evidence of pitting at 3 o'clock position.

NON-DESTRUCTIVE TESTINGS

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

RECOMMENDATIONS

- 1.7: To perform surface preparation and apply protective coating or replace with fluorocarbon coated bolt and nuts.

Inspected by: oseid abdulhakeem	Reviewed by: hussein	Approved by (Client):
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Recommendation/Comment by DOSH Officer (if applicable):

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

Name:	Signature:	Date:
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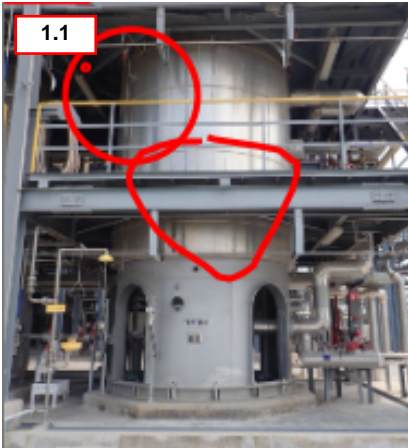
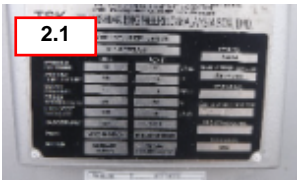
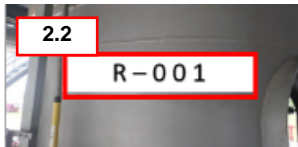
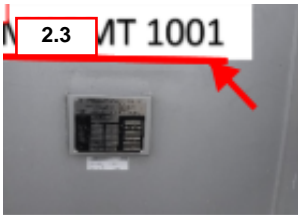

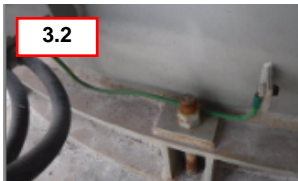
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Plant/Unit/Area: Plant 1

DOSH registration no.: MK PMT 1001

PHOTOS REPORT	
Photo 1  <p>1.1</p>	Finding: 1.1 General view of equipment R-001 facing plant north side. Equipment was found fully insulated. Insulation noted in serviceable condition. Recommendation: 1.1 Nil.
Photo 2  <p>2.1</p>  <p>2.2</p>  <p>2.3</p>	Finding: 2.1 - 2.3 Nameplate, PMT number was found readable and secured on the equipment shell. Equipment number noted securely intact on bottom section of equipment. Recommendation: 2.1 - 2.3 Nil.
Photo 3  <p>3.1</p>  <p>3.2</p>	Finding: 3.1 Concrete foundation and skirt observed in satisfactory condition with no significant damage. 3.2 Anchor bolts and earthing cable noted secured intact with no sign of degradation. Recommendation: 3.1 Nil. 3.2 Nil.

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PHOTOS REPORT	
Photo 4 	<p>Finding:</p> <p>4.1 Bottom dish head found in satisfactory condition. No evidence of significant damage noted.</p> <p>Recommendation:</p> <p>4.1 Nil.</p>
Photo 5 	<p>Finding:</p> <p>5.1 - 5.2 Nozzles N-2 and N-15 flange included its gasket seat area found in satisfactory condition. No sign of flange imperfection noted.</p> <p>Recommendation:</p> <p>5.1 - 5.4 Nil.</p>
Photo 6 	<p>Finding:</p> <p>6.1 Equipment shell noted in good condition with insulation securely intact.</p> <p>Recommendation:</p> <p>6.1 Nil.</p>

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PHOTOS REPORT	
<div>Photo 7</div> <div> <div>7.1</div>  </div>	<p>Finding: 7.1 Top dish head observed in satisfactory profile with no sign of damage on insulation.</p> <p>Recommendation: 7.1 Nil.</p>

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