

	MAJOR TURNAROUND 2025 PRESSURE VESSEL INSPECTION REPORT	
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Equipment tag no: HX-301

Equipment description: Shell and Tube Heat Exchanger

Report no.:
PLANT3/VI/HX-301/TA2026

Report date:
15 Jan 2026

Plant/Unit/Area: Plant 3

DOSH registration no.: MK PMT 1003

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

All internal attachment and internal nozzles were found securely intact with no visible defect.

Nozzles N-2 and N-15 flange included its gasket seat area found in satisfactory condition.

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 All attachment nozzles, pressure gauge and lifting lug were observed in serviceable condition. No sign of anomaly seen.

1.2 View of bottom and top dish head was found in satisfactory condition. No sign of abnormalities observed.

Internal

2.1 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.

2.2 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.

NON-DESTRUCTIVE TESTINGS

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

RECOMMENDATIONS

To be monitored on next opportunity.

Inspected by: oseid abdulhakeem	Reviewed by:	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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PHOTOS REPORT

Photo 1

XCT mobile is a service provider for mobile package in Malaysia. XCT provides services for client based on the table below:

1.1

Package name	Price	Local	Data	Roaming
Mega	150.00	30% Discount	+RM 10.00	+RM50.00
Heavy	180.00			
Government	80.00			
Student	50.00			

You are a programmer in XCT Mobile. You are assigned to develop java application based on the Table above and UML class diagram in page 2. Besides, additional info as follows :

Class	Description
InvalidInput	Child of Exception the method displayMessage() will print "Invalid Input"
InvalidAmount	Child of Exception the method displayInvalidMessage() will print "Not enough Money"
CustomerMobileCtrl	Method doPrice(String packageName) will check either package name is exist or not. Then, price will be get in this method. The price will be assign to class variable name pricePackage. Method doPayment(double payment) will check either the payment is sufficient or not with the pricePackage. This method will return balance in double.
MainMobile	This class is provided in page 3

Finding:

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

Recommendation:

- 1.1 Acceptable per code requirements, no action required
- 1.2 Finding noted for documentation purposes, no repair needed