



VISUAL INSPECTION REPORT

Job Details

Client : PT. Armada Gema Nusantara	Material : PIPE SMLS A106 Gr B
Project Name : CMP Project	Design Temperature : 107,2
P.O. Number : 4500215518	Operating Temp : 40-44
Location : HCML FIELD MADURA Straits, East Java	Design Pressure : 92,4 Barg
Installation : FPSO KAS III	Operating Pressure : 83 Barg
Date of Inspection : 2024-04-11	Rep Line : No
Report No : 20AGN22191410PP383	Corrosion Loop : 010-CO-C-IN
AG IRM Project No : 20AGN2219	Line From : CONDENSATE RECYCLE PUMP30-PC-3721A/B (TP-04B)
Module : M30	Line To : 2-DC220-37-CO-1049-E
Component ID : 2-DC220-37-CO-1050-E	P&ID : 21022-BAE-73700-PR-DW-0011 (Sht 2)
Component Type : Piping	

Inspection Summary

Isometric Index	Results	Rectification WO No.

External Inspection Checklist for Process Piping

2-DC220-37-CO-1050-E

Section 1 - Structural

- a) Check and ensure expansion joints are not bent out of shape.
- b) Check for any dents and misalignments, overhung, inadequate support and vibration that can cause rupture.

Status	Discrepancy	Photo ref
N/A		
N/A		

Section 2 - Piping Supports

- a) Check for missing supports that can cause the pipe to rupture under weight.

Status	Discrepancy	Photo ref
N/A		

Section 3 - Coating

- a) Assess the coating condition of the piping system.

Status	Discrepancy	Photo ref
N/A		

Section 4 - Leaks

- a) Check for leaks and identify locations.

Status	Discrepancy	Photo ref
N/A		

Section 5 - Corrosion

- a) Identify corroded areas and record them. Take measurements and record pit depth.

Status	Discrepancy	Photo ref
N/A		

Section 6 - Insulation and Insulation Penetrations

- a) Ensure all cladding is sealed.
- b) Seal all exposed areas.
- c) Expose some insulation to check the pipe surface for corrosion.

Status	Discrepancy	Photo ref
X		
N/A		
N/A		

Section 7 - Small Bore Attachments

- a) Ensure all small bore attachments are not vibrating or cracking.

Status	Discrepancy	Photo ref
N/A		

Section 8 - Threaded Plugs

- a) Check condition of threaded plugs to ensure they are not corroded.

Status	Discrepancy	Photo ref
N/A		

Legend

- Status ✓ : Drawing as per actual condition, no anomaly
- Status X : Drawing as per actual condition, found anomaly
- Status N/A : Not exist at drawing and actual condition, no access for inspection

Comments

sgfes

API Inspector	Name:	Qualification	Signature
	Ercarter E. Silalahi	API 570/API 510	



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Photographic Support

General view seen good condition at Line pipe



Fig. 1

Insulation observed still in good condition on elbow at E1



Fig. 2

Dent insulation observed on pipe at P2



Fig. 3

Insulation observed still in good condition on elbow at E3



Fig. 4

Insulation observed still in good condition on pipe at P4



Fig. 5

Coating damage on pipe support at P4



Fig. 6

Insulation observed still in good condition on elbow at E5



Fig. 7

Insulation observed still in good condition on pipe at P6



Fig. 8

Insulation observed still in good condition on elbow at E7



Fig. 9

Insulation observed still in good condition on pipe at P8



Fig. 10

Corroded corrosion on pipe support at P8



Fig. 11

Insulation observed still in good condition on elbow at E9



Fig. 12

Insulation observed still in good condition on pipe at P10



Fig. 13

Insulation observed still in good condition on elbow at E11



Fig. 14

Insulation observed still in good condition on pipe at P12



Fig. 15

Coating damage followed by surface corrosion on pipe support at P12



Fig. 16

Insulation observed still in good condition on elbow at E13



Fig. 17

Insulation observed still in good condition on pipe at P14



Fig. 18

Insulation observed still in good condition on elbow at E15



Fig. 19

Insulation observed still in good condition on pipe at P16



Fig. 20

Corroded corrosion on pipe support at P16



Fig. 21

After stripped off insulation, corroded pipe surface observed at E1 and P2



Fig. 22

Coating deterioration and surface corrosion observed at flange and stud bolts/nuts E1



Fig. 23

Galvanic corrosion on reducer at P1,P2,E3





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Fig. 24

Galvanic corrosion on reducer at P1,P2,E3



Fig. 25

Galvanic corrosion on reducer at P1,P2,E3



Fig. 26



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ABS In-Water Specialist

Cert No. 21-4655696-A

ABS ESP Hull Gauging

Cert No. 21-4655692-A

ABS Remote Inspection Techniques

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Isometric

