



VISUAL INSPECTION REPORT

Job Details

Client : PT. Armada Gema Nusantara
Project Name : CMP Project
P.O. Number : 4500215518
Location : HCML FIELD MADURA Straits, East Java
Installation : FPSO KAS III
Date of Inspection : 2023-11-27
Report No : 20AGN22191410PP378
AG IRM Project No : 20AGN2219
Module : M35
Component ID : 1-AC110-59-IN-4287-V
Component Type : Piping
Material : PIPE SMLS A106 Gr B
Design Temperature : 65
Operating Temp : AMB
Design Pressure : 10 Barg
Operating Pressure : 5-7 Barg
Rep Line : No
Corrosion Loop : 059-IN/UN-C
Line From : 2-AC110-59-IN-4260-V
Line To : UTILITY HOSE CONNECTION
MODULE-35
P&ID : 21022-BAE-75900-PR-DW-1003

Inspection Summary

Table with 3 columns: Isometric Index, Results, Rectification WO No.
Row 1: tes, tes, tse

External Inspection Checklist for Process Piping

1-AC110-59-IN-4287-V

Section 1 - Structural

- a) Check and ensure expansion joints are not bent out of shape.
b) Check for any dents and misalignments, overhung, inadequate

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, N/A, N/A
Row 2: checkmark, No discrepancy, See photo pages

Section 2 - Piping Supports

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

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: checkmark, No relevant with iso drawing, N/A

Section 3 - Coating

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

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: checkmark, Coating deterioration, See photo pages

Section 4 - Leaks

- a) Check for leaks and identify locations.

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, No discrepancy, See photo pages

Section 5 - Corrosion

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

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, Coating damage, See photo pages

Section 6 - Insulation and Insulation Penetrations

- a) Ensure all cladding is sealed.
b) Seal all exposed areas.
c) Expose some insulation are not vibrating or cracking.

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, N/A, See photo pages
Row 2: checkmark, N/A, See photo pages
Row 3: N/A, N/A, See photo pages

Section 7 - Small Bore Attachments

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

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, No discrepancy, See photo pages

Section 8 - Threaded Plugs

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

Table with 3 columns: Status, Discrepancy, Photo ref
Row 1: N/A, Corroded, N/A

Legend

- Status checkmark : 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

no corrosion

Table with 4 columns: Name, Qualification, Signature, API Inspector
Row 1: Ercarter E. Silalahi, API 570/API 510, [Signature], API Inspector



VISUAL INSPECTION REPORT

Photographic Support

General view



Fig. 1

Corroded on valve



Fig. 2

Corroded on pipe



Fig. 3

Surface corrosion on pipe



Fig. 4

Surface corrosion on reducer

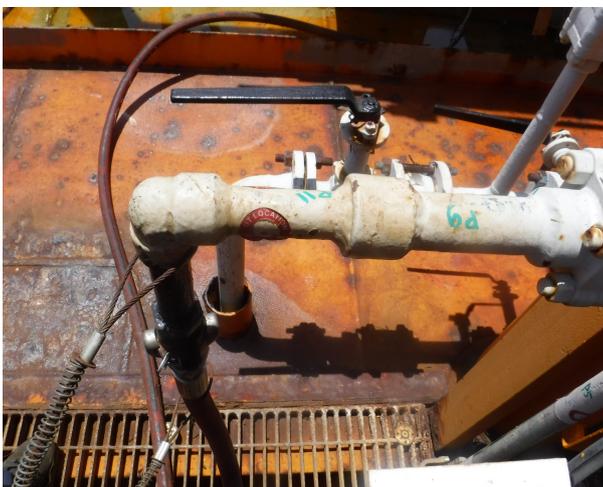


Fig. 5

Surface corrosion on elbow



Fig. 6

Good condition



Fig. 7

Surface corrosion on flange



Fig. 8



Good condition



Fig. 9

Corroded on support



Fig. 10

Surface corrosion on pipe



Fig. 11

Corroded on support



Fig. 12

Surface corrosion on bolt and stud



Fig. 13

Surface corrosion on reducer



Fig. 14

Surface corrosion on elbow



Fig. 15

Surface corrosion on elbow



Fig. 16



VISUAL INSPECTION REPORT

Metal loss on pipe

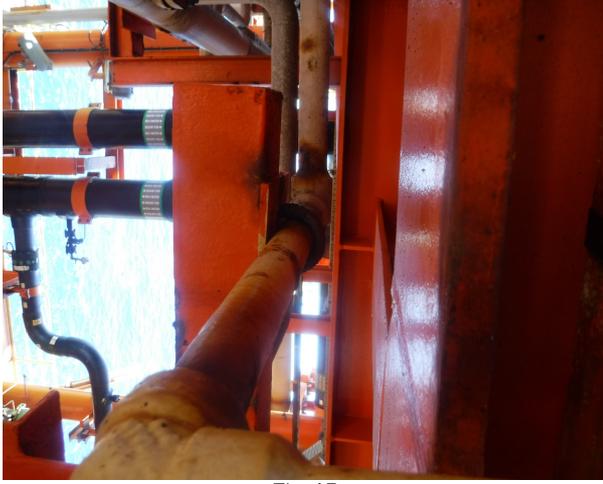


Fig. 17

Algae indicate on flange



Fig. 18

Surface corrosion on bolt and stud



Fig. 19

Leaking on valve



Fig. 20

Surface corrosion on pipe

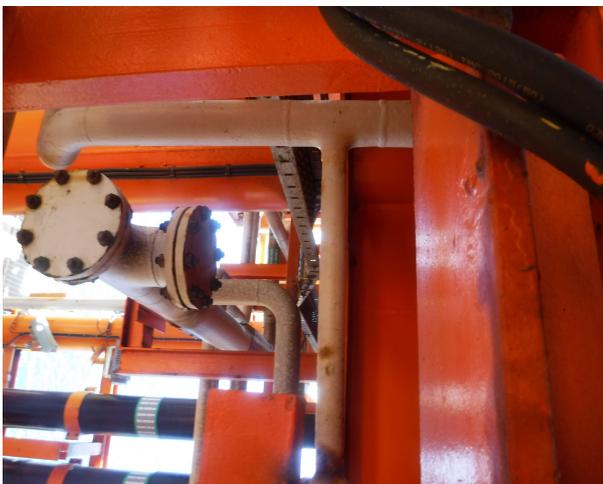


Fig. 21



Fig. 22