



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 : 2024-02-23
Report No : 20AGN22191410PP408
AG IRM Project No : 20AGN2219
Module : M35
Component ID : 1-AC110-59-IN-4258-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 : 1-AC110-59-IN-4267-V
Line To : HP FLARE HEADER PURGE GAS
P&ID : 21022-BAE-75900-PR-DW-1003 / 71700-PR-DW-0002

Inspection Summary

Table with 3 columns: Isometric Index, Results, Rectification WO No.
Row 1: te, ets, ete

External Inspection Checklist for Process Piping

1-AC110-59-IN-4258-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: X, N/A, See photo pages
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, See photo pages

Section 3 - Coating

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

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

Section 4 - Leaks

- a) Check for leaks and identify locations.

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

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: X, Active corrosion, See photo pages

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

Table with 1 column: Comments
Content: tes, tse, tes

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



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Photographic Support

Algae indicate on bolt and stud



Fig. 1

Algae indicate on elbow



Fig. 2

Algae indicate on support

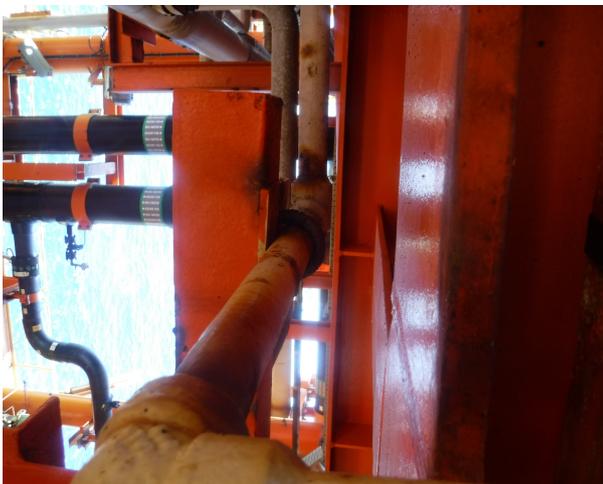


Fig. 3

Algae indicate on support



Fig. 4

Damaged on reducer



Fig. 5

Algae indicate on elbow

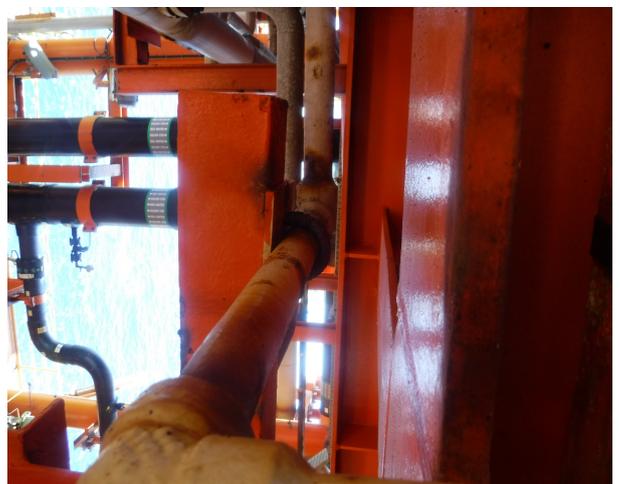


Fig. 6

Coating damage on flange

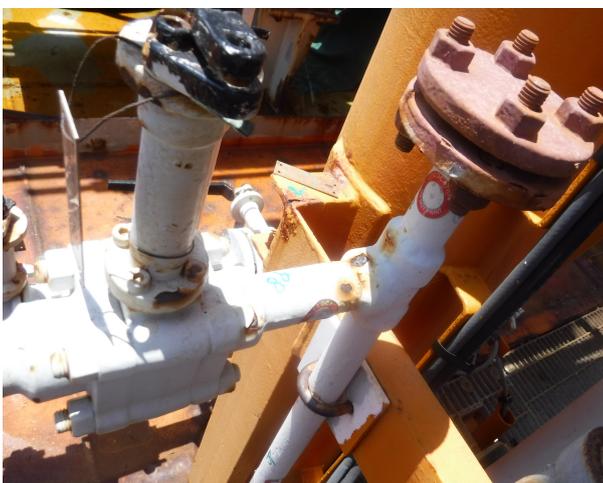


Fig. 7

Algae indicate on bolt and stud



Fig. 8



Algae indicate on reducer

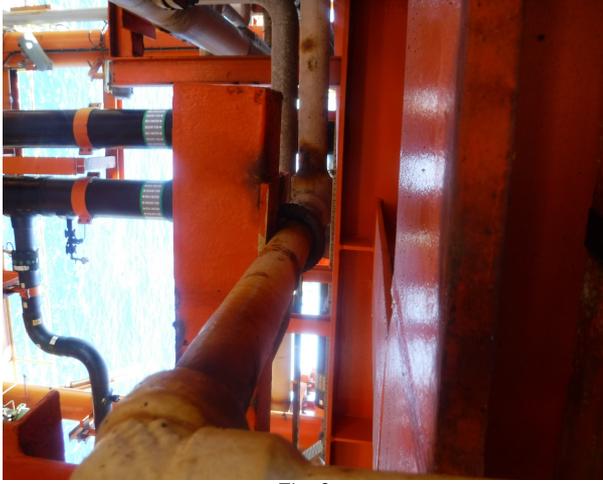


Fig. 9

Damaged on flange



Fig. 10