



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 : 2023-12-01
Report No : 20AGN22191410PP421
AG IRM Project No : 20AGN2219
Module : M35
Component ID : 2-AC111-56-IA-4027-N
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 : 053-IA/UA-C
Line From : INSTRUMENT AIR DISTRIBUTION
HEADERMARINE PIPE RACK
Line To : INSTRUMENT AIR SUPPLY SUB-HEADER
MODULE-35 (FLANGED)
P&ID : 21022-BA-50120-PR-DW-0002

Inspection Summary

Table with 3 columns: Isometric Index, Results, Rectification WO No.
Row 1: 2-AC111-56-IA-4027-N, Fit For Service, N/A

External Inspection Checklist for Process Piping

2-AC111-56-IA-4027-N

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.

Table with 3 columns: Status, Discrepancy, Photo ref. Row 1: N/A, empty, empty. Row 2: N/A, empty, empty.

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: N/A, empty, empty.

Section 3 - Coating

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

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

Section 4 - Leaks

- a) Check for leaks and identify locations.

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

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, empty, empty.

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.

Table with 3 columns: Status, Discrepancy, Photo ref. Row 1: N/A, empty, empty. Row 2: N/A, empty, empty. Row 3: N/A, empty, empty.

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, empty, empty.

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, empty, empty.

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

Large empty rectangular box for comments.



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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
Cert No. 21-4996595-A
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	Name:	Qualification	Signature
API Inspector	Ercarter E. Silalahi	API 570/API 510	



Photographic Support

General view at P



Fig. 1

Corroded on bolt and stud at P1



Fig. 2

Corroded on bolt and stud at P1



Fig. 3

Corroded on bolt and stud at P1



Fig. 4

Corroded on bolt and stud at P1



Fig. 5

Corroded on bolt and stud at P1



Fig. 6

Corroded on bolt and stud at P1



Fig. 7

Corroded on pipe at P1



Fig. 8

Corroded on bolt and stud at P1



Fig. 9

Corroded on bolt and stud at P1



Fig. 10

Corroded on bolt and stud at P1



Fig. 11

Corroded on pipe at P1



Fig. 12

Corroded on U bolt at P1



Fig. 13

Corroded on bolt and stud at P1



Fig. 14

Corroded on pipe at T2



Fig. 15

Corroded on pipe at T2



Fig. 16

Corroded on pipe at T6



Fig. 17

Corroded on pipe at T6



Fig. 18

Corroded on U bolt at P7



Fig. 19

Corroded on bolt and stud at P7



Fig. 20

Corroded on pipe at P7



Fig. 21

Corroded on pipe at P7



Fig. 22

Corroded on pipe at P7



Fig. 23

Corroded on pipe at P7



Fig. 24

Corroded on U bolt at P7



Fig. 25

Corroded on U bolt at P7



Fig. 26

Corroded on bolt and stud at P7



Fig. 27

Corroded on pipe at P7



Fig. 28



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Corroded on pipe at P7



Fig. 29

Corroded on pipe at T8



Fig. 30

Corroded on pipe at T8



Fig. 31

Corroded on pipe at T8



Fig. 32

Corroded on U bolt at P9



Fig. 33

Corroded on bolt and stud at P9



Fig. 34

Corroded on bolt and stud at P9



Fig. 35

Corroded on elbow at E12



Fig. 36

Corroded on pipe at P13



Fig. 37

Corroded on pipe at P14



Fig. 38

Corroded on bolt and stud at P15



Fig. 39

Corroded on bolt and stud at P16



Fig. 40

Corroded on bolt and stud at P16



Fig. 41

Corroded on U bolt at P17



Fig. 42

Corroded on U bolt at P16



Fig. 43

Corroded on bolt and stud at P16



Fig. 44

Corroded on bolt and stud at P16



Fig. 45

Corroded on elbow at E18



Fig. 46

Corroded on elbow at E18



Fig. 47

Corroded on elbow at E22



Fig. 48

Corroded on elbow at E20



Fig. 49

Corroded on U bolt at P23



Fig. 50

Corroded on U bolt at P24



Fig. 51

Corroded on bolt and stud at P24



Fig. 52

Corroded on pipe at P25



Fig. 53

Corroded on pipe at P25



Fig. 54

Corroded on bolt and stud at P29



Fig. 55

Corroded on pipe at P29



Fig. 56

Corroded on pipe at P29

Corroded on U bolt at P30



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Fig. 57

Corroded on bolt and stud at P30



Fig. 58

Corroded on pipe at P31



Fig. 59

Corroded on pipe at P31



Fig. 60

Corroded on pipe at P31



Fig. 61

Corroded on U bolt at P31



Fig. 62

Corroded on bolt and stud at P31



Fig. 63

Corroded on pipe at P31



Fig. 64

Corroded on pipe at T32



Fig. 65

Corroded on pipe at T32



Fig. 66

Corroded on pipe at T32



Fig. 67

Corroded on pipe at T32



Fig. 68

Corroded on U bolt at P33



Fig. 69

Corroded on bolt and stud at P33



Fig. 70

Corroded on bolt and stud at P33



Fig. 71

Corroded on bolt and stud at P33



Fig. 72



Fig. 73



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Isometric

