



Case Study for
Safety Tools Allmet A.S. on
Aker FPSO: DHIRUBHAI-1

OCS Services





Introduction

OCS Services' Total Corrosion Management department is dedicated to providing optimum protection and treatment of assets by performing remedial maintenance work in-situ whilst asset is in service. Through service integration & professional management we achieve optimal utilization and management of resources to rationalize maintenance cost and enhance asset life.

Scope of Work

To provide Fabric Maintenance services on Aker FPSO Dhirubhai-1 in EX Zones with the aim to preserve it without becoming a hurdle to different on-going unit activities on-board and put forward to the client management as an easy, single point base contact for all Coating application / Asset preservation activities.

The whole process was developed on the concept of "No Hazard" & revolves around Quality, Health, Hygiene, Safety, Security, Environment, Maintenance; Compliance standard hence the use of intrinsically safe power tools from Safety Tool Allmet was envisaged.

Surface preparation standard: ST3 using Non-Sparking Tools by Safety Tool Allmet A.S. certified by DNV for use in EX Zones 1 & 2 without the need for a Hot Work permit.

Coating Specification / Application: 3 Coats of Jotun - Jotacote Universal with Roller/ Brush/ Airless Spray as applicable.

MAJOR AREAS TREATED AND COMPLETED DURING THE PROJECT

LOCATION	AREA (Sqm)
Steering Gear Compartment Area	220.00
Pump Room Area	2640.00
Utility Area	5940.00
Process Area	5400.00
Compressor Area	2320.00
Pipe Rack Area	70.00
Below Main Deck Pipeline Area	420.00
Flare Area	185.00
Total Area	17195.00



Executive Summary

AKER FPSO Dhirubhai-1 project Synopsis:

Duration – 2 Years (June 2010 – June 2012)

P.O. Issued on - 28.05.2010 (Day Rate for manpower and equipment's)

Scaffolding Material – Client's Scope (500 Cubic meter was provided)

Total Area Top Coated – 17195 Sqm

Area treated with STA – 6020 Sqm

Paint Manufacturer – Jotun Paints

Paint Product - Jotacote Universal (Epoxy Primer/Finish Coat)

Total applied DFT – 350 microns

Items Painted –

- 1) Structures
- 2) Trusses
- 3) Pipelines
- 4) Valves
- 5) Bulkheads
- 6) Ladders
- 7) Pipe & Main Deck
- 8) Helideck
- 9) Poop Deck
- 10) Turret Area

Tools Consumed –

File Description	Qty
Angle Grinder	9
Straight Grinder	7
Rough Buoy	4

Manpower Deployed – 6 crew (Back to back) total 12 crews

Productivity – 23.5* Square metres/Day

* Productivity inclusive of Scaffolding erection, dismantle and material transfer.

Enclosures –

- 1) Project Completion Report
- 2) Customer Satisfaction - Feedback Form

Photographs



After final coat in U-10



After final coat on solar funnel in U-70



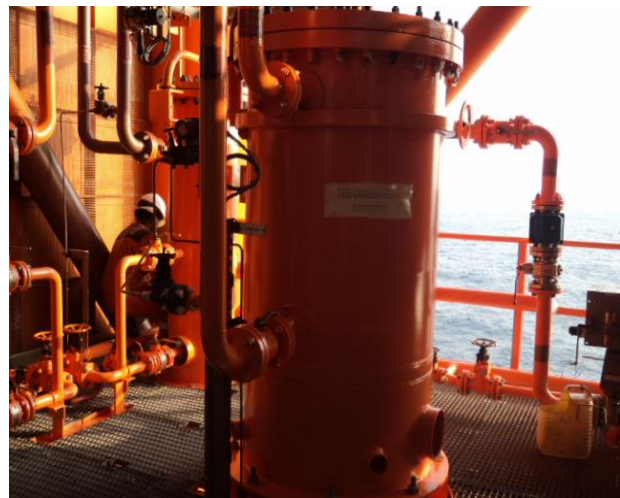
After final coat on solar in U-70



After final coat in F-10



After final coat in U-71area



After final coat in U-71area



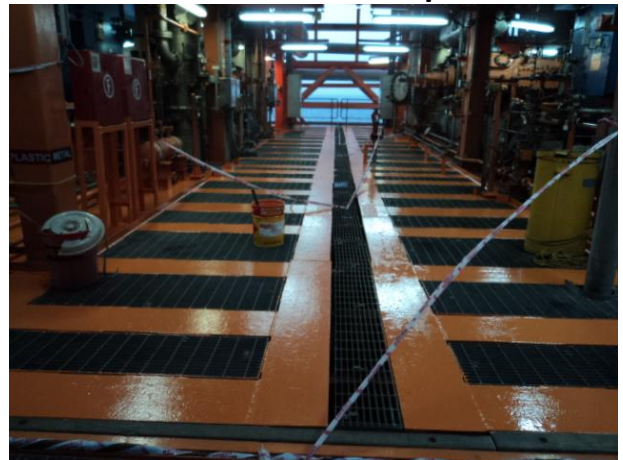
After final coat in U-71area



After final coat in Gas Compressor Area



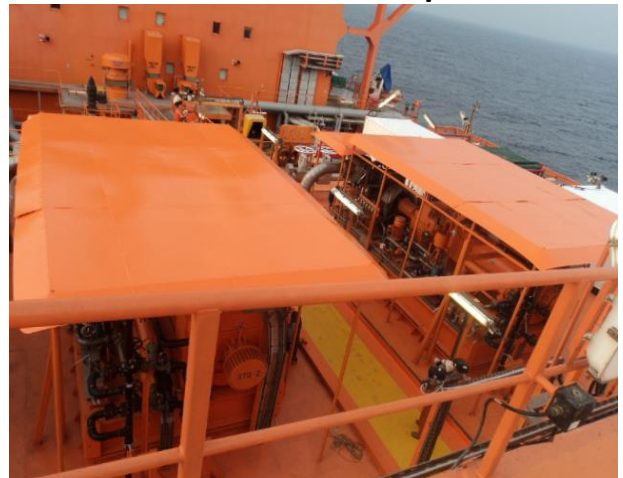
After final coat in Gas compressor area



After final coat in Gas Compressor area



After final coat below main deck



After final coat in U-10area



After final coat in U-20 & solar area



After final coat in P-10 area



After final coat in P-10 area



After final coat in P-10 top side



After final coat in P-10 top side



After final coat on top side of gas compressor area



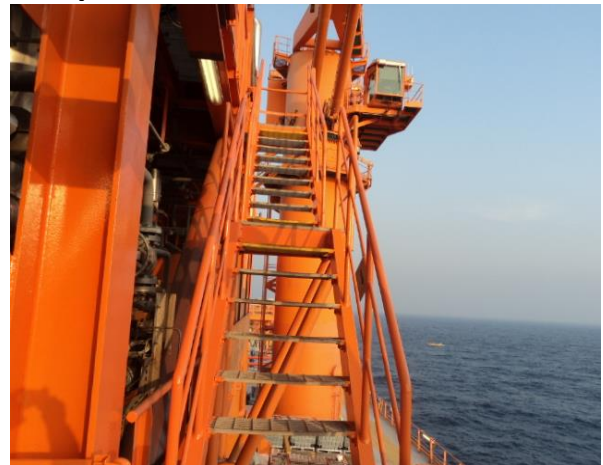
After final coat on top side of gas compressor area



After final coat on top side of gas compressor area



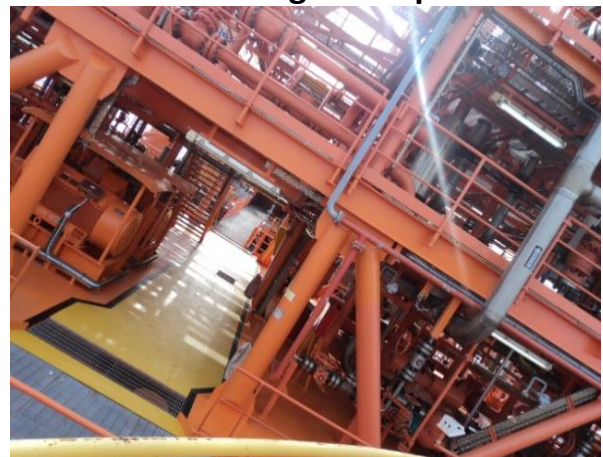
After final coat in gas compressor area



After final coat in gas compressor area



After final coat in U-30



After final coat in U-30



After final coat in U-30



After final coat in U-30



After final coat in F-10



After final coat in F-10



After final coat on P-40 & P-41area



After final coat in P-11



After final coat in P-11



After final coat in P-10



After final coat in P-10



After final coat in U-70



After final coat in U-70



After final coat in U-10