

# OFFSHORE STRUCTURAL INSPECTIONS - ACE-A-M300 RTK

## PROJECT INFORMATION

**Project:** Offshore Structural Inspection

**Type of facility:** Fixed Oil and Gas Production Platform

**Industry:** Oil and Gas

**Safety:** No Working at Height

**Project efficiencies:** Reduction in time and personnel



## SCOPE OF WORK

Air Control Entech visited a platform in the North Sea to carry out a structural survey including the flare, under-deck, crane booms, exhaust stacks and lifeboat davits

## SOLUTION

Inspecting hard to reach locations offshore often involve working at height using access methods such as rope access or scaffolding. ACE mobilized the ACE-A-M300 RTK visual inspection drone to perform the full scope without the need to expose anyone to the risks of working at height.

The flare stack was inspected while operational, eliminating the need for unwanted shutdown time. Keeping production up and removing the need for a rope access team. The M300 has a top mountable camera system which allowed for the inspection of the underside of the cellar deck

The full inspection was completed in under two weeks, a substantial time saving to traditional inspection methods. The full inspection report and all data was completed and submitted to the client within 7 days of demobilization.



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INSPECTION FROM EVERY ANGLE



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## RESULTS AND BENEFITS

- > In-Service Inspection no plant shutdown.
- > No expensive scaffold around structure up to flare tip.
- > Detailed 4k imagery and video to allow condition of of Flare tip and associated pipework to be reviewed by multiple stakeholders.
- > Greater visibility and enhanced maintenance planning potential for the client through provision of robust evidence on the physical state of inaccessible pipework and flare tip.
- > Use of multi-skilled teams reduced the risk with drone but retaining the inspection expertise, leading to greater control over project delivery.
- > Project delivered on time with no disruption to ongoing plant activities.

Factor	Conventional Access	UAV
<b>Personnel Required</b>	2 + 2 Standby/ Rescue team	2 Technicians
<b>Duration</b>	3-6 weeks	12 days
<b>Impact on operations</b>	Full platform shutdown	In-service inspection
<b>Hazard</b>	High Risk	Low Risk
<b>Differentiator</b>	Some photos	Safer operationally Full 4k video



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