

TANK INSPECTION TEAM

TANK INSPECTION SOLUTIONS

PROJECT INFORMATION

Project: Internal Tank Inspections

Type of facility: Offshore FPSO

Industry: Oil and Gas

Safety: Removal of Personnel from Working at Height

Project efficiencies: Less time and people required



SCOPE OF WORK

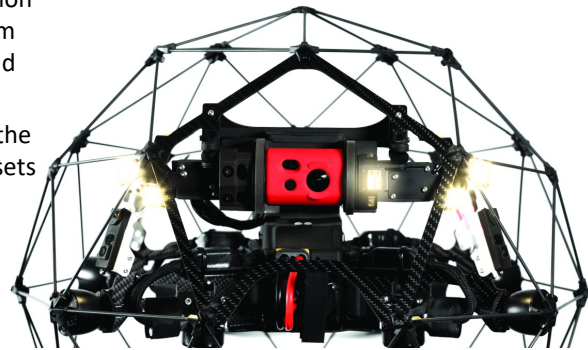
ACE were contracted by an Oil and Gas operator to perform internal tank inspections on board one of their Floating Production and Storage and Offloading (FPSO) Vessel in the North Sea. The client was looking for a better and safer way of inspecting multiple tanks on board the asset whilst conforming to class requirements.

SOLUTION

By mobilizing a suite of robotic inspection equipment ACE were able to deploy multiple technologies to cater for a suite of requirements. ROVs were utilized inside ballast water tanks to avoid the need to drain, isolate, ventilate and enter the tank whilst still obtaining a full visual and NDT inspection as required by class societies.

An Elios 2 was also utilized by the same technician to inspect the Cargo Oil Tanks once emptied to safely and quickly provide visual inspection data to the client without the need to work at height. A 2 man team was able to inspect the full tank in 1 day resulting in huge direct and indirect savings to the client.

Due to the success of the project an ACE technician is now part of the operator's inspection team and works on rotation on board the assets to provide robotic solutions across a number of assets.



INSPECTION FROM EVERY ANGLE



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RESULTS AND BENEFITS

The client receives a fully class accredited report after every trip for any assets inspected.

- > In-Service Inspection of ballast and potable water tanks.
 - > No isolations, draining, ventilation, man entry, etc. required!
- > No working at height required for any inspections works
- > Detailed reports issued within 7 days of demobilisation
- > Greater flexibility for inspection work to be undertaken due to having a dedicated member of the team
- > Use of multi-skilled teams allowed the operator to benefit from multiple technologies being utilised without the need for more personnel
- > External structural inspections (such as flares) can be inspected during the same trip.
- > Project delivered on time with no disruption to ongoing plant activities

Factor	Conventional	Robotics
Personnel Required	4-6	2
Cost	£100k / Trip	£28k / Trip
Impact on operations	Isolations, man entry, ventilation, draining of tanks	In-service inspection
Hazard	High Risk	Low Risk
Differentiator	Low quality photos and UTM	High resolution photos, video and UTM



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INSPECTION FROM EVERY ANGLE

