

MINI ROV POT WATER TANK INSPECTION & CLEANING

PROJECT INFORMATION

Project: POT Water Tank Inspection & Cleaning

Type of facility: FSO

Industry: Oil & Gas

Safety: Eliminates Rope Access/Scaffold towers and the risk of working at height.

Eliminates tank emptying and super chlorification. Tank can be inspected and cleaned whilst in service.

Project efficiencies: x2 ROV team (Pilot, Payload operator) 4 days **VS** x4 inspections/RA team & 3x Scaffolding Team, Tank Sentry 10-14 days inspection, tank cleaning team.

SCOPE OF WORK

Full GVI & CVI of tank structure under class rules (DNV), SCUVA to be utilized to clean the silt and sediment present on the deck plate on completion of the Visual Inspection.

SOLUTION

Full inspection & cleaning of the POT water tanks. All data collected and submitted into inspection reports for review and actions. Tanks required to be filled to allow for 100% inspection & cleaning. Completely eliminated confined space entry and eliminated tank being out of service.



INSPECTION FROM EVERY ANGLE

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RESULTS AND BENEFITS

- Detailed ultra high-definition video footage captured with high resolution imagery to support throughout the full inspection of the POT Water tanks.
- Tanks don't require to be emptied and isolations in place for minimal time.
- No expensive scaffold towers within the POT Water tanks extensively reducing man hours.
- Greater visibility and enhanced maintenance planning potential for the client through provision of robust evidence on the physical state of inaccessible internal tank structure and plating, i.e inner shell, top/bottom plates.
- Use of multi-skilled teams reduced the risk with ROV 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	Robotics
Personnel Required	3 Scaffolders + 3 Rope Access Team / Rescue team	1 Pilot 1 Payload Operator/Tank Sentry Rescue Team
Duration	10 - 14 days	4-5 days
Impact on operations	Out of service tanks for longer periods	Out of service tanks for minimal (short) periods
Hazard	High Risk	Low Risk
Differentiator	Handheld camera and imagery	Safer operationally Full 4k video and imagery



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