

Onshore Storage Tank Inspection ACE-A-E2

PROJECT INFORMATION

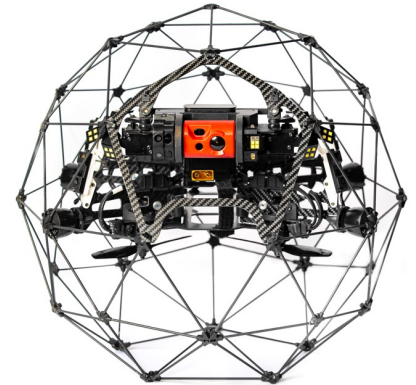
Project: Crude Oil Storage Tank A (T-1101A)

Type of facility: Oil Terminal Crude Oil Storage Tank

Industry: Oil & Gas

Safety: Eliminates confined space entry and the requirement for Emergency Response Team or Tank Sentry

Project efficiencies: x1 UAV team (Pilot), X2 days inspection vs X2 inspections/RA team, x1 Tank Sentry, ERT Team, 6-8 days inspection



SCOPE OF WORK

General Visual Inspection (GVI) and Close Visual Inspection (CVI) of internal crude oil storage tank within onshore oil and gas terminal. The purpose of the inspection is to ascertain the condition of the internal structure of the tank to aid decommissioning planning and enactment.

SOLUTION

Air Control Entech deployed an ACE-A-E2 internal inspection UAV to conduct the inspection without the need for man entry. By flying from outside the tank, the team were able to eliminate man entry whilst producing valuable inspection data of the tank internals.

Full high-definition videography and photography data was captured and compiled into a report for the operator.



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 crude oil storage tanks.
- Tanks emptied and isolations in place for minimal time.
- No confined space entry eliminating the need for x2 man entry team, Tank Sentry and Emergency Response Team.
- Greater visibility and enhanced maintenance planning potential for the client through provision of robust evidence on the physical state of internal tank structure and supports, i.e inner supports.
- Eliminated the requirement for multi-skilled teams reducing the risk and human factors, creating a safer and more efficient inspection.
- Project delivered on time with no disruption to ongoing plant activities.

Factor	Conventional Access	UAV
Personnel Required	2 confined space entry & 1 Tank Sentry / Emergency Response Team	1 Pilot
Duration	6 - 8 days	2 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	Hand held camera and imagery	Safer operationally Full 4k or FHD video and imagery



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INSPECTION FROM EVERY ANGLE

