



120' GASOLINE TANK | MIDSTREAM TERMINAL — SIDE LAUNCH

GASOLINE | TERMINAL



OVERVIEW

A terminal operator had a critical 120-foot gasoline tank with an internal fiberglass liner that could not be taken offline for extended periods. Inspection was needed by year-end, and the fiberglass liner created a unique technical challenge: conventional UT would not penetrate the coating.

SOLUTION

Square Robot utilized their side launch system and SR-3 robot to complete this inspection in 5 days. The SR-3's robust phased array UT was able to scan through the fiberglass liner to collect tank bottom thickness measurements. Square Robot also captured comprehensive video footage of the liner condition, enabling the client to satisfy a third-party NACE review of the fiberglass.

OUTCOME

Square Robot scanned 71% of the tank bottom through thick fiberglass — a technically demanding achievement. The inspection confirmed a 20-year interval, and the video documentation of the liner condition also satisfied an independent NACE review, providing regulatory value beyond the standard inspection scope.

KEY IMPACT METRICS

- ✓ Eliminated > 900 confined space entry hours
- ✓ Confirmed \$1,000,000+ in documented cost savings
- ✓ Scanned 71% of tank bottom through thick fiberglass
- ✓ NACE fiberglass liner review satisfied via robot video
- ✓ API 653 inspection interval of 20 years