

112' DIESEL TANK | POWER PLANT

DIESEL | POWER



OVERVIEW

A power generation facility relied on a single 112-foot diameter diesel tank to supply backup generators. With no secondary storage available, taking the tank out of service for a conventional API 653 inspection would have required alternate storage to be brought in, making it a costly and lengthy endeavour.

SOLUTION

Square Robot performed a fully API 653 compliant inspection in just 3 days, keeping the tank in-service throughout. A key client objective was to dramatically reduce confined space entry requirements — a goal Square Robot achieved entirely, with zero personnel required to enter the tank.

OUTCOME

The inspection covered 95% of the tank bottom, and the client was so satisfied with the outcome that they designated Square Robot as the solution provider for all future fuel oil tank inspections across their facilities.

KEY IMPACT METRICS

- ✓ Eliminated > 1,100 confined space entry hours
- ✓ > \$500,000 in documented cost savings
- ✓ > 8,800 lbs of CO₂ emissions contained
- ✓ 95% floor coverage — inspection completed in 3 days
- ✓ 15-year API 653 inspection interval