

30' DIESEL TANK | POWER PLANT

DIESEL | POWER



OVERVIEW

A cogeneration power plant relied on a 30-foot diameter diesel tank to supply fuel for its turbines. A full API 653 out-of-service inspection would have required temporary storage equipment, taken the tank offline, and forced the manufacturing plant that the facility powered to shut down temporarily as well.

SOLUTION

Square Robot performed the full inspection while the tank remained filled with fuel and 100% operational. The compact size of the SR robot allowed complete maneuverability within the smaller tank footprint, delivering comprehensive coverage in a single day of inspection work.

OUTCOME

Square Robot completed its scan with 88% bottom plate coverage in a single operational day, preventing the need for temporary storage, eliminating confined space entry risk, and keeping the power plant — and the manufacturing facility it served — fully online throughout.

KEY IMPACT METRICS

- ✓ Eliminated > 48 confined space entry hours
- ✓ Estimated > \$200,000 in documented cost savings
- ✓ 2,032 lbs of CO₂ emissions contained
- ✓ 88% floor coverage | completed in a single day
- ✓ Manufacturing plant operations uninterrupted
- ✓ 20-year API 653 inspection interval