Online Storage Tank Floor Inspection Services

Diakont provides comprehensive water and fuel storage tank floor inspection services using a robotic crawler dubbed the Stingray, which can be safely deployed while the tanks remain filled.

Using a combination of non-destructive examination (NDE) sensors housed within an explosion-proof (Class 1, Div 1) enclosure, Diakont’s Stingray service delivers complete inspection coverage, providing reliable, real-time results in combination with industry-leading safety management systems. The Stingray robotic crawlers are equipped with water jets and power scrubbers to clear tank floor sediment, allowing the onboard magnetic flux leakage (MFL) tool and an array of ultrasonic testing (UT) sensors to capture high-accuracy integrity data. Stingray systems are also equipped with advanced navigation modules that use 3D sonar imaging to map their location within the tank.

Diakont’s expert team of project managers, nuclear field robotics engineers, and NDE technicians will guide you through the entire inspection process to fully support your integrity management programs.

Whether your storage tank requires a complete inspection or just a condition assessment to support risk-based analysis, Diakont’s inspection teams will ensure that your inspections are conducted in the safest and most efficient manner possible.

Get the Max Benefit from your Inspections

Remote robotic inspection for online storage tank floors
Ideal for inspecting emergency diesel generator fuel tanks
Eliminate additional impact on critical path outage schedule
Comprehensive, 100% coverage analyzed in real time
Facilitate relicensing requirements

Inspect Tanks Remotely, While Flooded

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Comprehensive Inspection Service

Diakont’s Stingray robotic crawlers are equipped with multiple NDE sensors to assess—in real time—the actual integrity of storage tank structures. The sensory tooling includes:

- Magnetic flux leakage (MFL) – High resolution sensors for detecting anomalies
- Ultrasonic testing (UT) - High accuracy sensors for collecting floor thickness measurements and sizing anomalies
- 3D sonar imaging - XYZ scans of tank floor and internals for mapping and navigation

Complete tank floor map generated in real-time