Internal Tank and Pipeline Inspection Services

Remote video and remote NDT inspections are typically used to complement other inspection techniques or where internal access is restricted. The purpose of this type of inspection is to assist asset-integrity-management programmes, routine and corrective integrity-management works and engineering investigations.

THE Applus+ SOLUTION

Managing and safeguarding the integrity of assets has been a prime concern for all operators of refineries, chemical plants and power plants for decades.

For over 75 years, Applus+ has been a trusted partner providing customers with clear in-site data via its high-tech NDT services. Working closely with our clients gives us a full understanding of their requirements, thereby allowing Applus+ to tailor the NDT inspection solution to the clients’ specific needs.

Applus+, with its own Application Centre, can custom build specialised robotic tooling for a particular inspection project, adding value to the services we offer whilst helping the client to reduce costs.

For internal tank and piping inspections, we offer numerous specialist products, including but not limited to unmanned aerial vehicles (UAVs); semi-automated multi-purpose crawlers; ultra-high-definition camera systems; close visual inspection systems; C-scan corrosion-mapping systems; radiography crawlers for internal piping inspections; internal laser inspections; and semi-automated robotic wall-thickness crawlers.

Applus+ has numerous patents dating back to 1940 – a testament to our commitment to research and development in the field of non-destructive testing.
Target customers

Internal and remote inspection systems are prime inspection tools in the planning of outage and maintenance schedules in many areas of industry.

Remote inspections may be required for limited or unaccessible areas, pre- and post-shutdown activities, confirming repairs are complete, confirming breakdowns, routine or corrective maintenance works and engineering investigations.

They may be used in boilers, tanks, piping, culverts, drains, fuel and product pipelines, water pipelines, ballast tanks, risers, caissons, conductors and any area that has limited access or no access at all.

Key customer benefits

Advantages of using our remote inspection tooling systems include:

- Improved safety through eliminating the need for confined-space entry
- Cost savings as compared with human entry
- Significant time/efficiency savings
- No costly scaffolding requirements
- Reduced downtime of plant
- Ability to inspect areas where human access is impractical or impossible
- Ultra-high-definition footage for visual inspection
- Detailed corrosion mapping of surface areas
- Ultra-high definition of weld misalignments

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