Applus+K2 provides inspection and survey services locally, regionally and globally to drilling, production, EPC companies and other oil & gas assets around the world. We have earned the confidence of these companies by consistently providing high quality inspection services and personnel supported by a company-wide commitment to industry best practices.

Applus+K2 is class approved by ABS, DNV, BV and Lloyds. All our inspectors are trained and assessed according to our Competency Management System, which incorporates internationally recognised schemes such as IRATA (Rope Access), PCN, CSWIP and LEEA.

**INSPECTION & SURVEY CAPABILITIES**

- Conventional NDT Services
- Advanced NDT Services
- Offshore Crane Inspection
- Lifting Gear Inspection
- Dropped Objects Survey
- Derrick Inspections
- Critical Load path
- Drilling and Hoisting Equipment Inspection
- Hull Inspection and Class Surveys
- Wire Rope Inspection
- Pipework and Pressure Vessel Inspection
- Pressure Relief Valve Testing and Certification (PRV)
- Rig Inspection (Rig Audit)
- Electrical Inspection and Testing
- VAIL-Plant Risk Based Inspection (RBI)
Conventional NDT Services

As a core requirement for our inspection services, Applus+K2 inspectors are qualified in the following disciplines:
- Eddy Current Inspection (ECI).
- Magnetic Particle Inspection (MPI).
- Dye Penetrant Inspection (DPI).
- Ultrasonic Thickness Gauging (UTG).
- Ultrasonic Flaw Inspection (UT Flaw).
- Infrared Thermography Testing (IRT).

Advanced NDT Services

With the support of our parent company, we can offer advanced NDT for specialized applications in the oil and gas industry, including:
- Phased Array Ultrasonic Testing (PAUT).
- Time of Flight Diffraction (ToFD).
- Long Range Ultrasonic Testing (LRUT).
- Pulsed Eddy Current / INCOTEST.
- Alternate Current Field Measurement (ACFM).
- CCTV crawlers and probes.

Offshore Crane Inspection

Experienced teams are able to conduct inspections, repairs and electrical services on offshore cranes such as pedestal cranes, gantry cranes and even barge cranes. Inspections are conducted in accordance with API RP 2D, manufacturer recommendations or class requirements. Types of inspections include yearly and five yearly types. Our inspections include structural, mechanical, functional and NDT testing. Applus+K2 offers the following unique inspections:
- In-situ phased array bolt inspections.
- Internal wire rope inspection using EMAG units for wire rope up to 83mm in diameter.

Lifting Gear Inspection

Applus+K2 provides a comprehensive range of services to ensure our clients lifting equipment and accessories are in conformance with international regulations such as LOLER.
- Load testing and NDT.
- Thorough examinations.
- Multi-disciplined teams allowing multiple work scopes to be performed on one mobilization.
- Online database and lifting equipment management system.
- RFID applications available.
- Tablet and app based inspection program.

Dropped Objects Survey

Applus+K2 is a leading provider for services that fall under the dropped objects prevention scheme (DROPS). We provide independent surveys, corrective work, consultancy and training to both rig owners and operators.
- Surveys conducted on drilling rigs, FPSO’s, FSO’s, CPF’s, platforms etc.
- Online database and management system.
- Training for rig crew, supervisors and operators.

Critical Load Path

Applus+K2 provides inspection services from NDT to dimensional checks on all equipment that form part of the critical load path. All inspections are done in line with OEM and API recommended practices.
- Top drive inspection.
- Drawworks inspection.
- Travelling block inspection.
- Crown cluster.
- Dolly frame.
- Drill line drum.
- Pipe handling system.
- Rotary table.
- Dead line anchor.
- Hang off line connections.
Drilling and Hoisting Equipment Inspection

Applus+K2 conducts Category III and IV inspections on all drilling and hoisting equipment in accordance with API RP 7L and 8B. Inspections include MPI, visual inspections and dimensional checks. Applus+K2 also offer 5 yearly inspections and overhauls on crown and travelling blocks, this includes bearing replacements, category IV inspections and issuance of a COC.

Derrick Inspections

Applus+K2 is an industry authority on both onshore and offshore drilling structures. Our expertise enables us to provide teams to conduct various types of inspections including:

- Structural inspections in accordance with API RP 4G Category III and IV.
- Bolt inspections, torquing and management programmes.
- Derrick, guide-track and equipment alignment surveys.
- Conditional surveys.

Hull Inspection and Class Surveys

Multi-disciplined inspection teams are available globally for the following scopes:

- Special Periodic Survey (SPS) and Hull Preservation Survey (HPS).
- Baseline surveys.
- Underwater inspection in-lieu for dry-docking (UWILD).
- Above water cleaning and inspection of hull.
- Steel renewal assessment.
- Structures/Legs/Column on jack-ups and semi subs in accordance with class requirements of ABS, DNV and Lloyds register.
- Diving in collaboration with specialist dive companies to provide a turn-key solution.
- Pre-purchase or pre-conversion inspections.
- Applicable to rigs, FPSO’S, FSO’S, and other class certified vessels.

Wire Rope Inspection

Applus+ K2 provides next generation wire rope inspection technology to identify the internal condition of wire ropes.

- Wire rope NDT-EMAG.
- For wires up to 83mm in diameter.
- Detection of internal corrosion, pitting and broken wires.
- Result can lead to wire rope life span extension.
- Wire rope visual inspection.

Pipework and Pressure Vessel Inspection

Applus+K2 provides inspection and recertification of pipework and pressure vessels throughout the oil and gas industry.

- Internal and external visual inspections.
- Thickness gauging and NDT.
- Applicable to standards including API 510, 570, NR 13, ASME B31.3.
- Isometric drawings of pipes, vessels and pressure systems.

Rig Inspection (Rig Audit)

Applus+K2 auditing team can provide auditing services for pre hire surveys and condition surveys, helping clients to ensure that they make the right choice when hiring rigs. We provide both mechanical and electrical auditors to ensure that all systems are inspected by an expert. Areas of inspection include:

- Drilling equipment.
- Electrical generation and distribution systems.
- Crane and hoisting systems.
- Subsea and well control.
- Marine and safety equipment.
Pressure Relief Valve (PRV) / Critical Gauge Testing and Certification

Using mobile workshop containers, testing and certification of pressure relief valves is conducted onsite with Applus+K2 master gauges, fittings and pressure generators.

- +/- 0.1% Accuracy.
- PRV testing up to 15,000 psi.
- Gauge testing up to 36,000 psi.
- Individual tagging.
- Onsite repair and maintenance.
- Testing and certification in accordance to ASME, ISO, IEC, and API.

VAI L-Plant Risk Based Inspection (RBI)

VAIL-Plant inspection management software was developed by Applus+K2’s sister company Applus+ Velosi.

More detailed information is available on request.

- Bespoke applications subject to client requirement.
- This identifies the equipment carrying the highest risk.
- Optimizes inspection by linking to the asset CMMS/ERP systems.
- Minimizes the risk of a shutdown with efficient asset integrity management system.

Electrical Inspection and Testing

Applus+K2 provides a comprehensive range of electrical services; please see our electrical services datasheet for further information.

- Hazardous Area Equipment Register (HAER)/EX-Survey.
- Infra-red thermography.
- Electrical system audit.
- Electrical completion and commissioning.
- Electrical construction supervision.
- Electrical installation and repair scopes.

Reporting

- Online reporting available 24-7.
- Fully customizable reporting structure to meet client specific requirements.
- Fleet overview giving clear indication of current status.
- Historical reports and information for all equipment.
- Downloadable certificates for equipment.
- Non-conformance pictures for ease of fault recognition.
Profile

Applus+K2, part of Applus+ Group’s Energy & Industry Division, provides a comprehensive range of services that span the entire lifecycle of the global rig, FPSO and energy industry.

Applus+K2 has operating offices in Singapore, Korea, Brazil, Abu Dhabi and Houston along with representative and logistical support from our parent company who have over 350 offices in more than 70 countries globally. This allows us to source and develop local resources with local content benefits and mobilisation savings passed onto our clients.

Our Inspectors are trained and assessed according to company’s Competency Management System, which incorporates internationally recognized schemes such as PCN, ASNT, CompEx, CSWIP, LEEA & IRATA by utilizing our proprietary management planning software and mobile project report tools (APPS) to deliver consistency and quality to customers.

Our Services

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