Applus+K2 provides repair and upgrade services to drilling, production, EPC companies and refineries in the global oil and gas industry. As an industry authority on working at height, we are able to advise on the most appropriate form of access for a specific workscope or project.

Highly experienced project supervisors run multi-disciplined teams of competent, certified riggers, welders, fitters, painters and other specialist skills sets. Our extensive experience providing turnkey construction projects to the drilling industry provides us with a depth of technical capability for repair and upgrade projects.

**REPAIR & UPGRADE CAPABILITIES**

- Derrick and Mast Repair.
- Windwall Cladding/Weatherproofing Repairs.
- Platform Repairs.
- Heat shielding.
- Offshore Crane Repairs.
- Hull and Tank Repairs.
- Cold/warm Stack Services.
- General Upgrade Services.
- General Maintenance Services.

Applus+K2 can develop in-house weld procedures to suit different, dissimilar or exotic material types or specific environmental and working conditions. The integration of our engineering department enables us to provide client project teams with a single source of industry expertise.
**Derrick and Mast Repair**

Experienced rig building teams are able to carry out all manner of repair services to onshore and offshore drilling structures.

- Structural bolt replacements.
- Beam and leg section change-outs.
- Equipment removal, installation and replacement.
- Dolly track repair and replacement.
- Derrick and guidetracks shimming and alignment.
- Crown sheaves and travelling block overhaul.

**Heat Shielding**

Applus+K2 can offer a range of steel and fabric heat shields for rigs and FPSOs.

- Design, supply and installation of radiant and thermal heat shield.
- Tailor made heat shields, temperature range up to 180°C.
- Design, fabrication and installation of support steel work to hang the fabric work and woven radiant steel mesh.
- Removable type of installation to serve oil and gas industry for temporary installations.

**Offshore Crane Repairs**

Experienced teams are able to carry out all manner of repair, inspection and electrical services for most cranes found on offshore rigs like lattice boom cranes, knuckle boom cranes, and gantry cranes. Repair scope includes:

- Changing out crane winch wire lines.
- Crane structure reinforcement and strengthening required by OEM.
- Boom lattice structure replacement and repairs.
- Crane pedestal inspection and repairs.
- Load test and post load test inspection/repairs.

**Windwall Cladding/Weatherproofing Repairs**

- Condition survey of existing cladding and frame structure.
- Cladding replacement.
- Repair of existing steel cladding frame support structure.
- Cladding fasteners replacement.
- Windwall logo supply and installation.

**Platform Repairs**

- Primary structure repair.
- Repair of weatherproofing.
- Fabrication and installation of new weatherproofing.
- Installation and MC of electrical equipment.

**Hull and Tank Repairs**

On-site construction and structural repairs on hulls and tanks are supported by our inspection and engineering department. Workscopes are completed in line with Class compliance or client requirement.

- Web frame stiffener welding.
- Anode installation and replacement.
- Under-deck support structures.
- Water-Back-Welding (WBW).
- Steel replacement campaigns.
- Coating repairs.
**Cold/ Warm Stack Services**
- Low cost solutions for preservation of drilling rigs.
- Supply of V-tech Volatile Corrosion Inhibitors (VCI).
- Application of V-tech VCI to preserve hull and equipment.
- Post preservation Periodical inspection.

**General Upgrade Services**
- Increase of setback capacity, design, fabrication and installation of new racking board.
- Design, engineer, fabricate and install derrick upgrade packages to increase hook load.
- Design, fabrication and installation of lifting davits/swing jibs.
- Design, engineer and supply of electrical / hydraulic systems to support equipment on drill floor/derrick.
- Design, engineer, fabrication and installation of handling systems.
- Design, engineer, fabricate and install derrickmans safety post/fall arrest system.
- Design, engineer, fabricate and install new windwalls.

**General Maintenance Services**
- Cladding and insulation replacement.
- Welding repairs.
- Renewal/replacement of cable trays and supports.
- Bolt torque.
- Mechanical equipment service and overhaul.
- Heavy rigging and lifting.
- Paint coating repairs.
- Jack up leg repairs.
- Hose register.
- Hydraulic pipe fitting and installation.
- Drill equipment service and overhaul.
- Ladsafe installation.
- Drops rectification.
- Water blasting and cleaning of structures.

**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.