

CASE STUDY



CNOOC International Ltd

– Golden Eagle, HPU Accumulator Change Out and Recertification

CUSTOMER

CNOOC International Ltd

CUSTOMER REQUIREMENT

Recertify and refurbish HP and LP accumulators on board the Golden Eagle Platform.

HYDRASUN SOLUTION

The mobilisation of two Hydraulic Technicians to complete the overall project scope including Accumulator Removal and Replacement and charging to pre-determined pressures.

BENEFITS

- Project Management of a Turnkey Solution
- Speed of Response
- Short Lead Times
- Accumulator Re-Certification by Accredited Supplier
- Cost Efficiencies





BACKGROUND

CNOOC International Ltd is one of the largest oil producers in the UK North Sea, contributing more than 25% of the UK's oil production, and 10% of the country's energy needs. The Golden Eagle platform, located 70 kilometres northeast of Aberdeen, produced first oil in October 2014.

CUSTOMER REQUIREMENT

As part of a maintenance program, CNOOC requested Hydrasun to mobilise Hydraulic Technicians to undertake the successful change out and recertification of the subsea HPU high pressure piston and low pressure bladder Accumulator bottles.

Upon recertification, the units were to be shipped back to the platform where Hydrasun Technicians would mobilise to reinstall the accumulators and repeat the process as planned until the full complement of accumulators were changed out.

HYDRASUN SOLUTION

Hydrasun technicians attended the Golden Eagle platform and with support from core-crew, isolated, de-energised and removed HP and LP accumulators from service.

Once the new accumulators were installed, they were pre-charged to system requirements and brought back on-line. The removed accumulators were prepared and packaged to ship ashore where they were subject to a full PSSR recertification. Upon completion the units were shipped back to the Golden Eagle where this process began again until all 7 accumulators were replaced.

THE RESULT

Hydrasun worked closely with the instrumentation, production and mechanical maintenance departments on the Golden Eagle to successfully deliver this project safely and on-time. The Hydraulic technicians ensured all HSE risks were managed on the platform, while the project team effectively co-ordinated the collection, distribution and the recertification of the accumulators. The design of the change out scope was such that the Golden Eagle could operate with its full capabilities despite the invasive nature of the maintenance being carried out.

Hydrasun managed the project from start to finish, ensuring each deployment was efficiently planned and delivered to the client when required.

All 7 accumulators were recertified and fully charged on the Golden Eagle, thanks to a combination of client support and excellent project management by the Hydraulic Services team at Hydrasun.

This successful completion of the project highlighted Hydrasun capabilities including:

- Development of bespoke procedures and task specific risk assessments
- Supply of new Accumulators
- PSSR Re-certification of existing Accumulators
- Offshore installation of new and recertified Accumulators
- In-situ Nitrogen pre-charging
- Alignment with customer process and controls

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