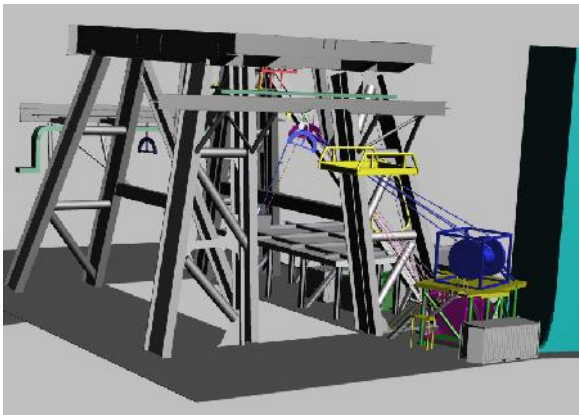




VANTAGE Tungsten Explorer

Project Brief

- ▶ **Project:** TOTAL Upgrades – Moho Nord Field
- ▶ **Location:** Transit between Singapore and Congo, and Offshore Congo.
- ▶ **Duration:** 218 days onboard.
5,108 Mandays (61,296 Manhours).
- ▶ **Team:** Up to 54 Pax: Project Engineer, Supervisors, Qualified Welders, Fitters, Electricians, Rope Access team, NDT Technicians, Scaffolders, Painters, Firewatchers.
- ▶ **Safety:** 61,296 Man-hours without any incidents recorded.



Engineering

- ▶ Onsite survey 3D Laser Scanning at DSME Shipyard – South Korea.
- ▶ Technical expertise provided for Piping and Structure.
- ▶ 3D modelling for structures and umbilical routing.
- ▶ Design of Derrick clamps for umbilical routing.
- ▶ Installation sequence and detailed procedure to install equipment in Moonpool.
- ▶ Complete As-built package.

Supply

- ▶ Worldwide Sourcing & Prefabrication:
 - ▶ Prefabricated structures from South Africa, Dubai and locally in Congo.
 - ▶ Electrical cables and material from Singapore and South Africa.
- ▶ Fully equipped 20ft DNV 2.7-1 Tool Container.
- ▶ Scaffolding supplied in DNV 2.7-1 Container.
- ▶ 4x DNV 2.7-1 Gas racks & Gas (Oxygen, Acetylene, Argon).



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Logistics

- ▶ Full logistic and coordination for personnel and material during transit between Singapore and Congo with deliveries in Singapore, Port Elizabeth & Gabon.
- ▶ Full logistic support in Pointe-Noire (Congo), during drilling campaign including local supply, shipments follow-up, goods importation assistance.
- ▶ More than 100 tons of structures and material sent offshore from Dubai, South Africa and Congo.

IWOCS Scopes of Work

- ▶ Supply, Prefabrication and Installation:
 - ▶ Annulus/LWRP reels Platforms
 - ▶ TH/LV reels Seafastening and Structural reinforcement.
 - ▶ Supports and Sheaves in the Derrick.
 - ▶ Umbilical jumpers routing throughout the Rig.
 - ▶ HPU/MCU containers skids.
 - ▶ Utility lines for AKER Equipment
- ▶ Electrical:
 - ▶ Connection of all AKER equipment.
 - ▶ Upgrade of Rig to integrate AKER Equipment (including UPS/Transformers/EX rated equipment)



Other Scopes of Work

- ▶ Design, Prefabrication and Installation of 10K PSI Chemical Injection Manifold.
- ▶ 100 meters Bleed Off HP Line 10K PSI.
- ▶ Well Test Area reinforcement & Well Test Equipment installation.
- ▶ Cutting Dryer System integration.
- ▶ Boat Landing Platform Prefabrication and Installation.
- ▶ Mud sieving.
- ▶ XT Transportation skid.

Class Interface

- ▶ ABS Certification of all drawings and calculation notes.
- ▶ ABS Inspection / Witness during pre-fabrication.



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