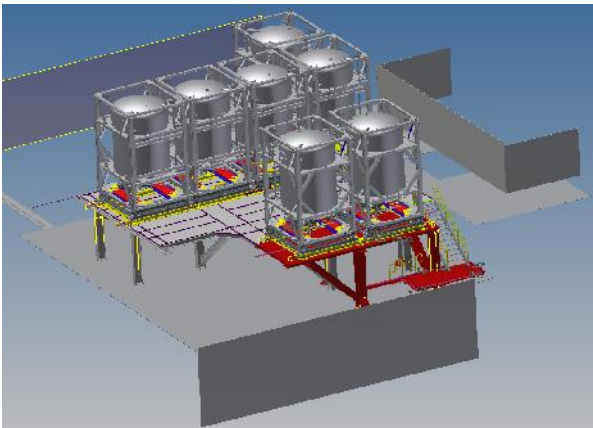




Client: Seadrill West Gemini & Halliburton Baroid Surface Solutions

Project Brief

- ▶ Project: Design , Fabrication & installation of the Halliburton Zero Discharge Package
- ▶ Location: Offshore Angola
- ▶ Duration: 90 days on-board
3,700 Man-days (44,400 Man Hours)
- ▶ Team: Up to 40 Pax – Supervisor, Team leaders, Welders, Fitters, Electricians, Riggers, NDT and Painters

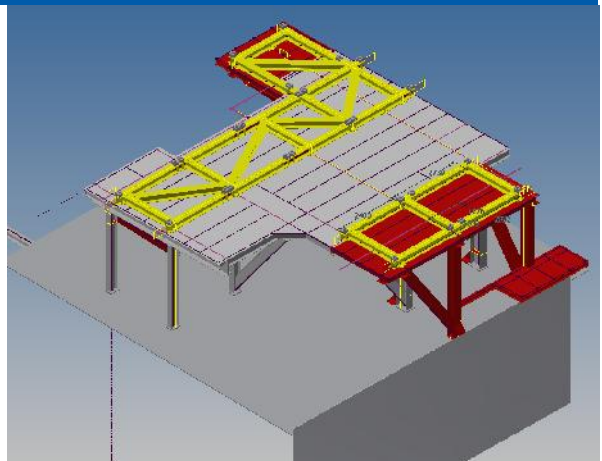


Engineering

- ▶ Onsite survey off shore Angola
- ▶ Technical expertise provided for Piping and Structure
- ▶ Electrical Expertise
- ▶ Complete Calculation Note and Deck analysis
- ▶ 3D drawings of the complete Installation
- ▶ Single Line Drawings & 3D pipe modelling for various projects
- ▶ Complete As-built package

Supply

- ▶ Worldwide Sourcing & Prefabrication:
 - ▶ LP pipes & fittings Supply from South Africa .
 - ▶ Electrical cables and components from Singapore , UK and South Africa .
 - ▶ Supply and prefabrication of Structures and various platforms from Namibia & SA .
 - ▶ Tools and Equipment from SA.
 - ▶ Scaffolding supplied in DNV 2.7-1 container from SA .



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Logistics & Project Management :

- ▶ Personnel Deployment, Logistics & co-ordination for:
 - ▶ Deployment Offshore Angola
- ▶ All Structures and Low Pressure Pipes road freighted from Cape Town (SA) and Walvis Bay (Namibia) to Luanda, Angola
- ▶ All Electrical cables and components have been air freighted and sea freighted from Singapore , UK and SA .
- ▶ Certification of team: Seamen’s Book, Yellow Fever, BOSIET / HUET

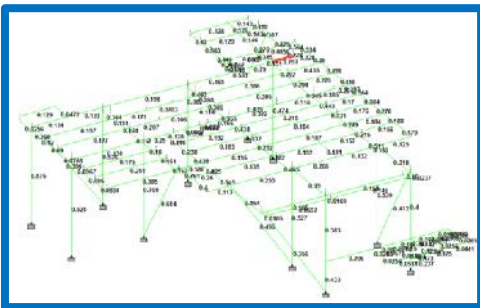
Zero Discharge Scopes of Work :

- ▶ Supply , Prefabrication and installation :
 - ▶ Structural Skids for the TCC Module & 10 x HCB’s Dry Powder Silos in the Riser Bay
 - ▶ Halliburton Workshop, Lab and Store platforms and associated Walkways in the Casing Bay
 - ▶ Structural Skids for the 10 x HCB Wet Cutting Silos in the Cutting Skips Area and BOP area
 - ▶ 2 x Compressor Platforms below the Riser Catwalk
 - ▶ Full interface connection between Halliburton System and the Rig System. Utility lines all diameters / Slop water treatment unit connection to the Rig System
 - ▶ Over board lines dump lines : 12’’ and 4’’
 - ▶ Additional overboard platform to accommodate 2 x Cutting Skips
 - ▶ Integration of a 6M3 Fuel Tank to the Rig System
 - ▶ Emergency Shut Down System integration on various Halliburton equipment
 - ▶ Electrical connections including PA /GA , Fire & Gas , Fibre Optic & Telephone



Class Interface:

- ▶ ABS Certification of all relevant technical documentation.
- ▶ ABS Inspection / Witness during pre-fabrication.



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