

Accelerated de-manning of Bonny crude oil loading platform

Client:

Shell

Location:

Nigerian Coast, West Africa

Equipment:

Platform control system

Project Background

Proserv was approached by Shell to develop a solution to allow unmanned operation of the Bonny Crude Loading Platform (CLP) and provide instrument and control of a diesel driven generator. Located in water depths of 27 metres, the CLP supports Shell's 48" export pipeline and 36" valves manifold 29 km south-west of the Bonny Terminal, offshore Nigeria.

Solution

Proserv converted the CLP to operate as an unmanned installation, designing and manufacturing the controls, telecommunications, navigational aids and beacons, CCTV and intruder detection.

Scope

The remote control and monitoring of electrical equipment is critical to the operation of an unmanned platform. All electrical power generation and distribution equipment was re-designed and supplied by Proserv through the provision of 120 solar panels and uninterruptable power supply systems. The team also implemented a process automation system. This provided a comprehensive plant-wide monitoring, control and shutdown functionality, centralised fire and smoke monitoring and a workstation based operator

interface, ensuring a timely response to unplanned process problems. Existing CLP telecommunications equipment was fully integrated with the solar powered system provided by Proserv, allowing 24 hour control from the Bonny Terminal.

Conclusion

The CLP was originally manned by 12 personnel at all times, the client required a solution to de-man the CLP without compromising on safety. Proserv provided all aspects of the de-manning of the project which, allowed the client to safely monitor and control the CLP remotely while reducing operating costs.

Benefits

- Proserv provided all aspects of the de-manning of the project so Shell could safely monitor and control the CLP remotely whilst reducing costs
- Proserv is an integrated service provider of complete automation systems for producing oil and gas fields and pipelines
- Our superior technology solution empowers users to make better informed decisions from their desktop for more effective operations

