



BC Petroleum

EPV Balal Mutiara Vessel Conversion

Overview:

B.C. Petroleum Sdn Bhd procured the MT Stena Caribbean and converted the vessel to FPSO Balai Mutiara to perform well testing and production. Zest Automation personnel were thoroughly involved with the Electrical, Instrument & Controls scope.

Our Services:

- Tie-ins between ship Class certified systems and topside process control system.
- Commissioning of all on board instrumentation and controls, both ship and topside.
- Commissioning of topside process controlled by Siemens Simatic S7 control system.
- Update of all hardware and Commissioning of modifications to ships Siemens Simatic S7 control system.
- Development of mooring hawser tension monitoring system and interaction with vessel Dynamic Positioning system.
- Development of IEC61508 documentation for certification of vessel topside control system.
- Project Management of various upgrades required to the ship including:
 - Installation and commissioning of Dynamic Positioning system.
 - Upgrade and commissioning of NAPA loading computer.
 - Obtain Class certification of all ship related instrumentation and control systems.
 - Upgrade of vessel electrical system including design and installation of new electrical switchboards, transformers and distribution boards.
 - Installation of new lighting throughout the ship including the new topside process control skids.
- WHCP Design, procurement, commissioning for unmanned Wellhead Platform.
- Installation and commissioning of telemetry system between the ship and the Wellhead Platform.
- Electrical power system design and commissioning, including both solar power and diesel generator supplies for unmanned Wellhead Platform.

