



Rehabilitation of the CENTAUR 40 Turbines and Waste Heat Recovery Units (WHRU)

Beta Offshore Production Complex, Long Beach, California

Client: Beta Offshore

As a result of almost 30 years of continuous operations, the three Centaur 40 Turbines and associated (WHRUs) on Platform Elly were in poor condition and in need of a major overhaul. DPSI provided engineering, construction management, and field supervision services to temporarily repair two of the WHRUs and completely overhaul and rebuild the J01-B Centaur 40 Turbine and WHRU on Platform Elly. These units provide electrical power to the platform, and the waste heat is used in the crude oil dehydration process. These WHRUs are critical to the operation of the platform and for the production, dehydration, and shipment of oil through the pipeline to shore.

DPSI's scope of work included:

- Development of the Authority for Expenditure (AFE)
- Engineering investigation into the extent of repairs necessary
- Feasibility study for repair vs. reconstruction
- Location and selection of qualified contractors
- On-site supervision of contractors and coordination of construction activities with operations staff; development and monitoring of the construction schedule; development and tracking of the project budget facilitation of start-up and testing activities between contractor and platform personnel

All activities for both the WHRU and Turbine contractors were coordinated with platform operations staff to minimize downtime and impact to platform operations.