

CASE STUDY - FPSO ESPIRITO SANTO

The vessel, FPSO Espirito Santo



Client: Shell

Customer: Major UK shipping and Marine Breakdown Specialist

Products: 24 hr Breakdown Service

The Espirito Santo is one of Shell's most challenging deep water projects and lies in 1,780m of water off the coast of Brazil. This FPSO is the first of its kind based fully on subsea oil and gas separation and subsea pumping.

Our customer was providing significant breakdown cover to this vessel, but required further expertise for the failing expansion joints on board. Due to its remote location they required a quick response and spares were needed at the earliest opportunity. The Pearwalk Engineering team were able to respond offering a complete, efficient and speedy repair and refurbishment service. Design drawings, material specification, as well as new tooling was all part of the service offered, all of which were fast tracked with immediate priority.



Repair and refurbish service offered

- Expansion joint manufacturing design drawings, supplied within the hour
- Material specifications and bill of materials agreed with specification drafted
- Dedicated driver sent to collect raw materials
- Hydro-former taken out of normal manufacturing operation and new tooling set to form convolutions
- Flange blanks machined within 4 hours of collection and return to works
- Full expansion joint assembly, welding and tested
- Packing for export and overnight transportation organised
- Remote delivery to the offshore Brazil location