

JOB REPORT



POWER MODULE INCLUDING GENERATOR



Year : 2004
Project Name : Sendje Berge FPSO - Power Module
Operator : BV Offshore
ATC project no. : 1516

Size (L x W x H mm) : 10000 x 4000 x 3500
Weight (kg) : 38,240 with all equipment installed.
Materials : 4mm Mild Steel, painted NORSOK M501 system 1.
Certification : DNV rules for Marine operation

Project Description / Challenges:

The power module contained a Caterpillar generator and motor, which had a separate cooling system for jacket water, including a plate heat exchanger. A 9000 litre fuel tank was also included in the container together with fuel system and associated valves.

The module was sound insulated with 50mm rockwool insulation with 1mm perforated galvanized steel cladding. The complete end wall was removeable.

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Scope of Work:

ATC's scope included design engineering, fabrication and outfitting.

This included structural layout/outfitting, Fuel tank, valves and Cu/Ni piping for the cooling system.

Crankhouse and battery box ventilation were included in the module and the fresh air ventilation system included louver fans and dampers, and was capable of supplying 20 A/C per hour to the module



Internal layout prior to installation of generator



Installation of the generator set, runway beam along the full length of the module



MCT's were installed in the walls for main and control cables. Internal Stainless steel cable tray, normal and emergency lighting were also part of ATC's scope.