

JOB REPORT



TRAFO CONTAINER – OSEBERG SOUTH



Year : 2009
Project Name : Oseberg South
Operator / Client : StatoilHydro
ATC project no. : 2135

Size (L x W x H mm): 7400 x 3500 x 3300
Weight (kg) : 16,400 including all equipment
Materials : 4 mm Mild Steel, painted to NORSOK M-501
Classification : A0
Certification : DNV 2.7-3 for Portable Offshore Units

Project Description / Challenges:

The transformer container was installed on the Oseberg South platform in the Norwegian sector of the North Sea and was equipped with the necessary functions to fulfill the demands regarding cooling, heating, fire + gas detection. The container was designed for earthquake and explosion loads

It was supplied fully comfort insulated and with its own independent 1 x 100% ventilation system to maintain 50 pa overpressure and 6 A/C

In addition a 63 kw capacity AC Unit with air cooled condensers was installed in the end section of the container to offset the heat dissipation from the 2,4MVA, 11kv transformer.

Separate MCT's for the high and low voltage cables had to be provided.

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Scope of Work:

Trans Constructions scope of work included design development, layout and construction drawings, structural calculations, production of the containers, design, supply, installation, FAT and commissioning of the ventilation and AC systems, piping and valves for the AC system,



View through the container door into the trafo room



Fresh air supply with fire and constant pressure damper



Floor standing 63 kw AC unit ready for installation

All incoming cables entered the module through multi cable transits.

The section of the container where the trafo was installed was separated by an Aluminium net wall as part of the increased safety requirements.

Full NORSOK was implemented, including ISO15138 for the HVAC systems.

