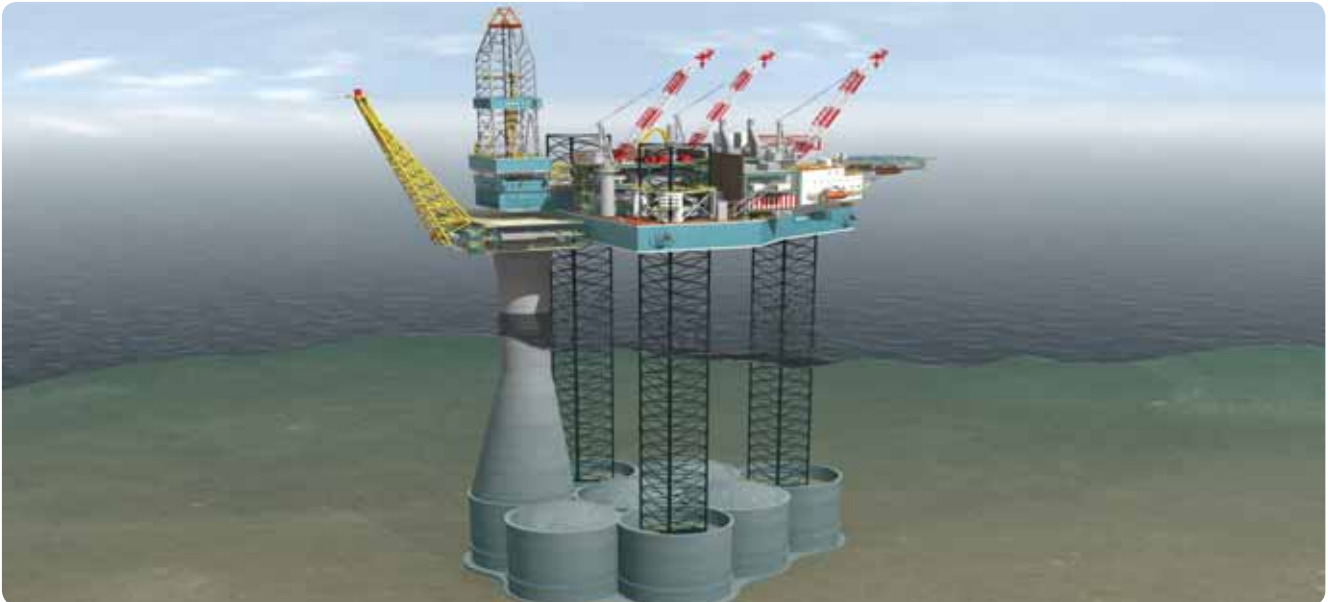


SELF ELEVATING N CLASS JACK UP RIGS

OUR CLIENT KEPEL SHIPYARD Ltd
 OPERATORS ProdJack AS - Skeie Group Norway



DESCRIPTION OF THE PROJECT

There is an increasing demand for more sophisticated and innovative rigs to meet new challenges in the development of oil and gas fields in the North Sea region and the latest 3 SELF ELEVATING N CLASS JACK UP RIGS have a design specification adapted to meet these challenges, not least the demands to fulfill NORSOK S-002 (Working Environment).

The rigs have combined drilling and production facilities, as well as a living quarters designed to accommodate 120 persons. They will normally operate in approx. 120 metre water depths and are capable of drilling depths down to 10,600 metres. The rigs will have DNV classification and when completed, they will be the largest jack up rigs ever to be built in Singapore, as well as being among the world's largest jack up rigs to be constructed for the North Sea.

The contract is a major breakthrough for us for this type of platform and an important step in our strategic development in the Worldwide Offshore sector.

CHALLENGES

This type of project creates many challenges for the HVAC contractor.

The major problem to overcome was the very restricted space for the HVAC systems, combined with the stringent requirements for noise, as specified in NORSOK.

The demanding design criteria of -20 deg C in the winter and +40 deg / 85%RH in the Summer, to meet the North sea requirements, resulted in the need for large chillers, again giving additional problems due to restricted space.

The above places additional demands on the HVAC contractor and the many years experience and expertise Novenco have in supplying Offshore Ventilation systems, has been put to good use throughout the project.

SCOPE OF WORK

For this project it was a complete HVAC turnkey contract, for all 3 rigs, from detail design to final commissioning.

Novenco's Offshore division, took overall responsibility for the management of the project including the detail system design and engineering, whilst their office in Singapore looked after the installation works.

Equipment supply included all parts of the Air conditioning and ventilation systems, including refrigeration.

The local HVAC control systems was also part of Novenco's scope.

A more detailed description of Novenco's scope of work is enclosed on the other page.

SCOPE OF SUPPLY:

EQUIPMENT:

- 6 off inlet water mist eliminators
- 16 off Air Handling Units with local control panel
- 35 off Fire dampers with electrical actuator
- 7 off Humidifiers
- 2 off Chilled water units' ea with capacity 1 MW
- 2 off Chilled water pumps
- 1 off Expansion tank for chilled water system
- 1 off Chemical injection tank for chilled water system
- 4 off Chilled water fan coils
- 3 off Air cooled split dx units
- 3 off Galley extract hoods
- 2 off Axial flow fans
- 4 off Centrifugal flow fans
- 1 lot Control valves for cooling coils
- 1 lot Sound attenuators - circular and square
- 1 lot Airflow regulating dampers
- 1 lot Shut off dampers
- 1 lot Smoke dampers
- 1 lot Supply grilles and diffusers
- 1 lot Extract grilles and valves
- 1 lot Duct mounted electrical re-heaters
- 1 lot Cabin units with re-heat coils
- 1 lot Cabin units without re-heat coils
- 8 off Outlet louvers

