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GAS DEW POINT CONTROL

CLIENT



Project: FPSO, Cidade de Ilhabela

Location: Brazil, Offshore

Delivery: 2015

AUSTRALIA

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an STS Group Company



SBM OFFSHORE, FPSO CIDADE DE ILHABELA, BRAZIL

The Cidade de Ilhabela is a floating, production, storage and off loading (FPSO) vessel for the north part of Sapinhoás oil field developing pre-salt discoveries in Brazil's Santos basin. The FPSO was purpose-built by Single Buoy Moorings (SBM) and the hydrocarbon gas dewpoint is achieved by two complete refrigeration packages supplied by RE.

- Offshore on the FPSO "Cidade de Ilhabela"
- Duty 4384kW cooling process gas at 5400kPaA to +10°C
- 2 x 100% screw compressors, Howden 321-220 cooled with liquid refrigerant injection and driven by 1500kW Ex p motors
- Water-cooled plate refrigerant condenser
- Compact thermo-siphon shell & plate gas chillers with NACE-compliant materials

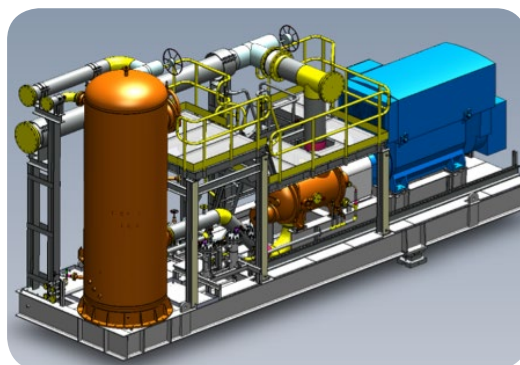
The system operates at all load variations from 100% to 0% capacity, in a corrosive environment off the coast of Brazil.

Acoustic SS316 cladding is included to reduce the sound pressure level to <85 dB(A).

Special considerations were included to allow for ship movements and loads.

The compressor skid structures are isolated from any movement or stresses in the vessel by a three point mounting system. A third party verified RE's design of the skid structures using finite element analysis. A Bently-Nevada machine monitoring system (MMS) is provided. The MMS outputs are incorporated into the redundant PLC system, with logic provided by RE, to monitor, control and protect the unit. The MMS and PLC control panel is located in the control room, whilst the package is located outdoors in a Zone 2 hazardous area.

The system is certified by American Bureau of Shipping (ABS).



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