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GAS REFRIGERATION & CHILLER PACKAGE

CLIENT



Project: FPSO Guanabara MV31
Location: Brazil, Offshore
Delivery: 2019

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MODEC, FPSO GUANABARA MV31, BRAZIL

FPSO GUANABARA MV31 is designed to be operational in Mero Field» off the southern coast of Brazil, receiving the production from subsea oil wells and has production plant facilities to process crude oil, stabilize and separate produced water and natural gas. Refrigeration package will be used to cool down high pressure gas to liquify heavy hydrocarbons.

- Offshore on the Guanabara MV31 FPSO
- 2 x 100% compressor train, 2,987 kW cooling duty at 2°C.
- single-stage screw compressor, Mycom 320VL
- shell and tube chiller
- plate and frame water cooled oil cooler and condenser
- economiser/receiver vessel
- separate coalesce vessel for minimal oil carryover
- On skid UCP including PLC and VMS

Refrigeration systems will be delivered in 4 separate skids each will be installed at one level of the module in the FPSO. Compressor and motor will be mounted on a separate base which is installed on 3 point mounts on to the main skid.

Complete package is designed to allow to motions of the vessel at various conditions while the system is still operational.



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