

A Minerals Technologies Company

SUCCESS STORY

Brownfield Optimization & Retrofit



CLEAR SOLUTIONS for complex fluids

Increasing Production Capacity, Brownfield existing FPSO - Espirito Basin Brazil



CHALLENGE

• Space restrictions on-board existing FPSO, overboard disposal of 20ppmv oil-in-water (OIW), challenging process fluids



SOLUTION

• Install Water Treatment Package 4,000 m3/d to run in parallel of existing unit. Preform Oily water separation based on Hydrocyclone & flotation process, Pipe Stress Analysis and, close client interface



RESULTS

• Increase Capacity from 8000 to 12,000m3/d, hook-up of two new gas production wells, one new oil well

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CHALLENGE

An FPSO which was operating in the Golfinho Field offshore Brazil since 1977 required an increase in produced water treatment capacity from 8,000 to 12,000 m3/d due to the hookup of new production wells. CETCO Energy Services (CETCO), was requested to supply a Produced Water (PW) treatment package to cater for this increase and to allow overboard disposal of <20ppm oil in water. Package consisted of a DGF Compact Flotation Unit, L-L Hydrocyclone and a PW Cooler.

CETCO SOLUTION

To cater for the new flow rate of 4,000 m3/d CETCO supplied a bespoke system comprising its patented CrudeSep® DGF 'Compact Flotation Unit, Liquid -Liquid Hydrocyclone and plate type produced water cooler. The system was supplied as a package for site integration by the client.

All design and engineering was carried out by CETCO process team in collaboration with our partner fabricators and contractors. Project Management, commissioning, integration and client interface was delivered through our UK Project Team with assistance from CETCO's Brazil Operations team.





CLEAR SOLUTIONS

RESULTS

The system was commissioned by CETCO HUC team following detailed process optimization activities delivered through CETCO's consultancy based ORCA[™] service. Testing results consistently indicated <20PPM at full flow rate in accordance with the initial project specifications.





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