



CLEAR SOLUTIONS for complex fluids

CETCO treats Produced Water and Slop Water on board an FPSO in Brazil; De-bottlenecking client storage issues



CHALLENGE

- Treat emulsified fluid stream with high solids contents in high flow rate offshore Brazil with stringent Over Board (OB) discharge requirements



SOLUTION

- CETCO Energy Services (CETCO) treats Produced Water and Slop Water with patented technology MOST® Modular Offshore Slop Treatment for 15K bbls per day (b/d)



RESULTS

- CETCO provided the client with high uptime on production, low water storage inventory, reduced frequency of offloading operations timely and cost effectively

SUCCESS STORY

Water Treatment & Filtration

CETCO treats Produced Water and Slop Water on board an FPSO in Brazil; De-bottlenecking client storage issues

CHALLENGE

Off spec water inventory building up on a Floating Production Storage and Offloading (FPSO) due to issues with onboard Water Treatment Package. This high inventory causes high frequency of offloads and also high risk of cargo tank structural damage due to aggressive corrosion from water storage. High organic contents and solids contamination on stored water stream. Client tried all strategies to reprocess the water with onboard equipment and chemicals with no success.

CETCO SOLUTION

The CETCO Brazil team was contacted and initially conducted a technical visit onboard to evaluate the site conditions to determine the best solution to the customer. Samples from the stored produced water was sent to an onshore lab for fluids characteristics analysis enabling CETCO to determine the best available technology to separate Oil-In-Water (OIW) and achieve overboard discharge limit. CETCO mobilized a complete MOST® Modular Offshore Slop Treatment package consisting of two Dual Flotation Vessels Skid and one Pumping, Polishing and Metering Skid. CETCO came up with an adjusted chemical solution being able to treat the fluids at ambient temperature, with minimum residue and reaching target flow rate of 15K b/d. CETCO's proprietary MOST® Modular Offshore Slop Treatment technology has been field-proven for years. It effectively treats off-spec water inventory on board with no excursions or non-compliant discharge.

RESULTS

CETCO proprietary technology combined CETCO chemicals and our know-how guaranteed process efficiency and high flow rate of treatment as required by client. Client achieved considerable reduction of formed oily tailings, reducing the frequency of offload operations, improving operational time and optimizing the cost benefit of the treatment unit.

