

FPSO Slop Water Flowbacks: Completing 40,000 bbls discharge in GoM, carbon free

BACKGROUND

Remote locations, ultra-deepwater operations and costly infrastructure are continuing to make viable the use of FPSOs as oil and gas production facilities.

In addition to many other benefits of using an FPSO, one is the ability to store large amounts of “slop water” in below deck vessel tackage. In some cases, this water is stored for months or years, but inevitably there comes a point where this “slop water” has to be managed. Historically, options were to transport this water to shore for disposal or use consumable medias to treat the water for on-site discharge.



SITUATION

Previously, there were no non-consumable options on the market. The operator and the Baleen Process Solutions team worked together to field test a newly developed KLEEN FLUX™ technology for overboard treatment of slop water fluids. The goals were to meet NPDES discharge compliance, reduce slop water volumes to more manageable levels, and perform incident-free operations, while providing a cost-effective solution.

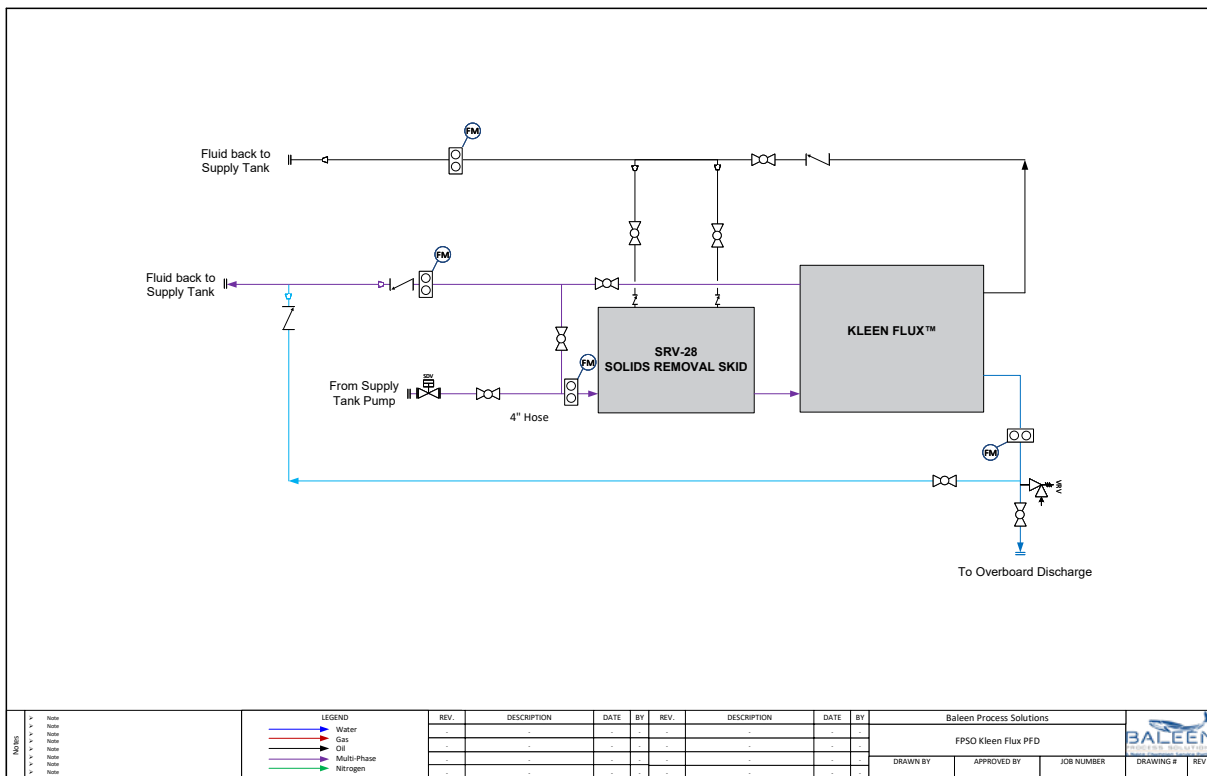
SOLUTION

The Baleen Process Solutions team worked closely with the operator to engineer a custom-designed system to meet all objectives. The design included KLEEN FLUX™, a filtration technology that uses a regenerable composite membrane that breaks reverse emulsion and enables fluids to be discharged while meeting overboard compliance standards. The use of this technology allowed 100% of fluids discharge to meet overboard compliance.

The technology developed by the Baleen Process Solutions team was simple to deploy. The engineering team provided all documentation (P&ID's, Safe Charts, and Procedures) facilitating the regulatory submittal process hassle-free for the operator. A live demonstration at Baleen Process Solutions' facility in Scott, Louisiana provided a great opportunity to verify the equipment package could safely meet footprint limitations and could execute all safety system requirements as needed.

RESULTS

The Baleen Process Solution option allowed for more than 40,000 barrels of slop water to be treated for overboard discharge while not exceeding NPDES discharge compliance. The oil content entering the treatment system averaged 100 ppm with effluent always below 29 ppm. The operations were successfully executed with incident-free activity.



The small footprint and simple process of solids removal and Kleen Flux for water polishing

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