iNOVaTHERM Delivers Impressive Results Offshore Angola

Case study facts

Location: Offshore Angola

Results

- Eliminated the need for about 1,500 crane lifts
- Delivered less than 0.3% oil-on-cuttings
- Reduced net carbon emissions
- Reduced operating costs

Brandt iNOVaTHERM system proves arguably better for the environment than zero-discharge regulations after waste treatment and disposal operations.

Background

As the oil and gas industry evolves, environmental regulations, cost-cutting, and safety standards continue to tighten. To minimize environmental impact, Angola has had zero-discharge regulations in place since 2016, which prohibit dumping of waste from drilling operations into the ocean.

Due to these regulations, operators are required to use traditional “skip-and-ship” methods of treatment, which involve hauling waste by supply boats for onshore treatment and disposal. These supply boat trips pose a significant increase in cost, fuel consumption, carbon emissions, and risk of injury from loading the boats using a crane.

Angola came to an agreement with an operator to test a new method of waste treatment and disposal while drilling a deep offshore well. Using iNOVaTHERM™, the operator could dump waste offshore if the oil-on-cuttings remained less than 0.3%.

Solution

Our iNOVaTHERM portable treatment system enables the operator to treat drilling waste at the source, which reduces the environmental impact, CO_2 emissions, operating costs, and risk of injury. During drilling, iNOVaTHERM was able to significantly reduce the costs of the operation by eliminating the need to run supply boats to shore. The operator found that the use of the iNOVaTHERM treatment and disposal unit results in far less environmental impact than operations required by zero-discharge regulations.

Results

The iNOVaTHERM system successfully treated waste to less than 0.3% oil-on-cuttings and proved to be more environmentally friendly than the implications of zero-discharge regulations. Treating waste at the source introduced massive cost savings and eliminated carbon emissions associated with supply boat trips.

Replacing the skip-and-ship method with iNOVaTHERM also eliminated the need for approximately 1,500 crane lifts to load waste onto the supply boat, enhancing safety by decreasing the risk of injury.

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