



DIVISION

POTABLE WATER TREATMENT

PROJECT NAME

DELTA HOUSE

OWNER

LLGO EXPLORATION

ABOUT THIS PROJECT: POTABLE WATER SYSTEM

LOCATION: GULF OF MEXICO

PROJECT FACTS

The Delta House semi-submersible Floating Production System achieved first oil production in 2015. It is installed in Mississippi Canyon 254 and sits in water depth of 4,500 feet. H2O was awarded the complete potable water system including the watermaker, storage tank and pressure set packages.

CHALLENGE

Initially, the scope was intended as three separate packages installed in various locations throughout the platform: a 5,000 gallon per day reverse osmosis desalination plant to supply enough water for 50 people, a 2,500 gallon day tank and a 2 X 50 gallons per minute pressure set skid. The customer was interested in ways to save space and reduce costs for the project.

SOLUTION

H2O offered to package the entire potable water system for the platform on a single skid. The single skid resulted in smaller footprint and easier installation as it was now a single lift item. Additionally, the customer saved considerable costs in three primary areas:

- 1) Engineering:
 - with the same engineering team reviewing the specifications and submitting documentation for all three packages, H2O was able to reduce 30% of engineering hours required
- 2) Control system:
 - with a single supplier, only one PLC was required to control all three packages as opposed to having a separate PLC per package
- 3) Field installation:
 - all of the interconnecting plumbing and wiring between the three packages was conducted prior to delivery. Hence, having three packages on a single skid minimized field plumbing and cabling.

RESULT

LLOG was able to achieve desired cost reduction, while saving space and minimizing the amount of field work typically required to interconnect these packages. H2O was able to design, test, document and deliver this entire custom potable water system in less than 20 weeks.