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Tortue FPSO pumps dispatched to China

Amarinth has delivered over 30 centrifugal pumps for the Tortue FPSO for bp’s Greater Tortue Ahmeyim development offshore Mauritania and Senegal.

Sept. 27, 2021



Vertical inline pump.

Offshore staff

WOODBIDGE, UK – Amarith has delivered over 30 centrifugal pumps for the Tortue FPSO for bp’s Greater Tortue Ahmeyim development offshore Mauritania and Senegal.

COSCO is constructing the vessel at the Qidong shipyard in China. It will have capacity to process 2.5 MM metric tons/yr (2,76 MM tons) of LNG.

Amarinth Malaysia’s office received four orders for the horizontal, vertical, and vertical in-line pumpsets which will be used for various tasks on the topsides and in the hull.

Some were designed to API 610 specifications and a large proportion were manufactured in nickel aluminum bronze, a hard-wearing material said to provide durability to resist cavitation damage in low NPSH environments; low levels of corrosion and oxidation when exposed to sea water; and non-magnetic and non-sparking properties.

The sea water ballast pumps will serve to maintain the vessel’s stability and equilibrium as the volume of processed LNG in the vessel’s internal hull tanks changes.

Amarinth designed compact vertical inline pumps with minimized weight and footprint, but with sufficient height to allow the pumps to be lifted out for maintenance within decks’ restricted headroom of the decks.

These pumps are each 4 m (13 ft) tall and weigh 5 metric tons (5.5 tons), and feature a double-entry, 510-mm dia. impeller and HV variable-speed drives to assist movement of sea water and to compensate for slow or rapid changes of volumes in the process tanks, and tidal conditions.

As for the topsides process pumps for produced water treatment and MEG reclamation, the supplied consignments are designed to handle corrosive fluids, and therefore feature total containment Plan 53B seal support systems with double mechanical seals.

Due to space restrictions Amarith designed special baseplates for the vertical pumps to accommodate the pumps and their seal support systems.

For seawater lift, using self-priming pumps, the company provided its vacuum primer units and designed a support frame for the heavy motor with a footprint to fit the confined space within the hull.

To ensure delivery in alignment with the vessel construction schedule, the company formed a project team for the design and manufacture in the UK, shipping to Malaysia and then onto China, with commissioning engineers deployed to the shipyard.

09/27/2021



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