



# Sembawang Shipyard Secured S\$88 million FPSO Conversion Contract from Bergesen Worldwide Offshore

In January 2006, Sembawang Shipyard secured a major contract from Bergesen Worldwide Offshore to convert the Ultra Large Crude Carrier, *BW Enterprise* to an FPSO (Floating, Production, Storage & Offloading) vessel. Bergesen Worldwide Offshore, a company within the Bergesen Worldwide Group will own and operate the FPSO in the Gulf of Mexico under a 15-year term agreement with Pemex, a Mexican state-owned oil and gas company. This is the first FPSO to be deployed in the Gulf of Mexico and will serve as a hub in the area and act as an export terminal.

Sembawang Shipyard was awarded this important contract on the strength of its capabilities and established track record in the highly specialised and sophisticated field of FPSO offshore conversion and modification work. The Shipyard's key strengths in project management skills, high Health, Safety, Security and Environment (HSSE) standard, proven Engineering, Procurement and Construction (EPC) expertise and strong organisational capabilities have made the Shipyard, the preferred partner of Bergesen Worldwide Offshore for its maiden venture into the Gulf of Mexico.

The 360,000 dwt tanker will be converted into an FPSO capable of handling 600,000 bpd including processing capacity of 200,000 bpd with gas export capability. The Shipyard will carry out detailed engineering, procurement of bulk materials, vessel's repairs and conversion, installation of topside modules and the internal turret as well as pre-commissioning work. Major conversion and upgrading work include the coating of all slop tanks and ballast tanks, installation of various systems and



BW Enterprise upon arrival into Sembawang Shipyard for conversion work.

equipment such as a new and modified cargo system, submerged pumps in tanks and a new ringmain fire water system. The accommodation will also be upgraded and refurbished to house a complement of 110 persons. The Shipyard will install all the pre-assembled topside modules including the process plant with capacity of 200,000 bpd oil, gas compression module with capacity of 120MMSCFD and a flare system. Upon completion, the FPSO will have the third largest oil production capacity of the existing FPSO units in the world as well as having the largest throughput of oil of any FPSO unit.

The award of BW Enterprise further strengthens SSPL's reputation as a world class shipyard with a strong offshore conversion track record.

In the words of Mr Svein Moxnes Harfjeld, Chief Executive Officer of Bergesen Worldwide Offshore, "As part of the project strategy, Sembawang Shipyard was selected by Bergesen Worldwide Offshore to be our partner shipyard during the challenging tender

process. The Shipyard has demonstrated its ability to work in tandem with us right from the project's initial phase, showing dedication and commitment to resolve challenges as a team. We are confident that this partnership will be the blueprint of a successful conversion project and we thank the Shipyard for their enthusiastic and spirited effort thus far. Besides being a large and complex conversion, it is a fast track project. The way ahead will be challenging and both partners are committed to make this project yet another FPSO delivered on time from Bergesen."

Mr Ong Poh Kwee, Managing Director of Sembawang Shipyard said "We are honoured to have been chosen by Bergesen Worldwide Offshore for this major conversion. Particularly as on-time delivery is a priority, this fast track project will require our project team to demonstrate strong commitment to meet deadlines, innovative engineering solutions to ensure that the latest

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## Sembawang Shipyard Awarded Major Drillship Refurbishment Contract

In February 2006, Sembawang Shipyard was awarded the refurbishment and upgrading of drillship, *Discoverer 534* from a subsidiary of Transocean Inc., the world's largest offshore drilling contractor. We were awarded this major contract on the strength of our capabilities and established track record in offshore drillship and rig refurbishment and more importantly, our dedication to meeting Transocean's QHSE (Quality, Healthy, Safety and Environment) standards for this project.

The *Discoverer 534* is expected to undergo 5 months of major upgrading and refurbishment work. For this project, the



File shot of newly-upgraded *Frontier Ice* before departing for drilling deployment.



File shot of *Roger Mowell* and *Harvey Ward* alongside shipyard's berths.

Shipyard will undertake the accommodation upgrading work, installation of new bow helideck, separation of ballast tanks and installation of new ballast lines, derrick repairs, complete overhaul of 6 thruster units, overhaul of mud pump and the construction of new mud pit tank.

Sembawang Shipyard is very pleased to have been given this exciting and challenging opportunity to strengthen our capabilities in offshore refits and will work closely with our client to achieve a successful project completion.

Our track record in this highly specialised and complex market segments include the major refurbishment of a series of four jack up rigs for Transocean between 2001-2002 (*Trident XV*, *Trident XII*, *Roger W. Mowell* and *Harvey Ward*) and the upgrading of drillship *Frontier Ice* for Aban Lloyd Chilles Offshore of India in 2005. ⚓

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technologies are deployed and most importantly, having the right mindset to work with Owners in achieving the project's main goal, that is, producing a Facility with the largest throughput of oil. We thank Owners for their trust and confidence in our project management know-how, design, engineering, outfitting and commissioning capabilities."

The vessel is scheduled for delivery to the Owners from the Shipyard in the fourth quarter of 2006. On completion, the Facility will be stationed at the Ku-Maloob-Zaap field in Mexico's Bay of Campeche, located 105 kilometres north-west of Ciudad del Carmen.

Both Bergesen Worldwide Offshore and Sembawang Shipyard have enjoyed

strong relationships over the years. Besides the *BW Enterprise*, we have also successfully upgraded the FPSO *Berge Helene* and converted the LPG *Berge Sisar* into a LPG FPSO which was renamed *Berge Okoluba Toru* in 2004. ⚓