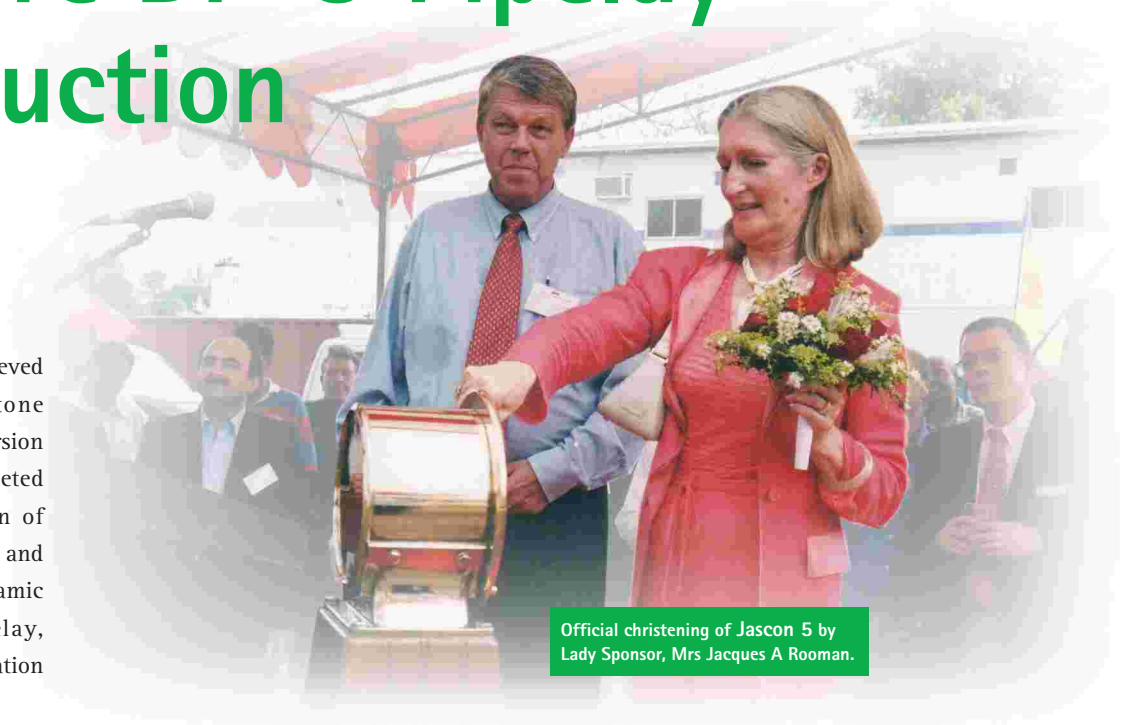




Christening of Jascon 5, Offshore DP-3 Pipelay Construction Barge

Sembawang Shipyard achieved another major milestone in the area of offshore conversion when we successfully completed the sophisticated conversion of *Jascon 5* to a newly outfitted and commissioned Offshore Dynamic Positioning Class 3 Pipelay, Construction and Accommodation



Official christening of *Jascon 5* by Lady Sponsor, Mrs Jacques A Rooman.

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Major Upgrading of Integra Duckling Successfully Completed

to Comply with latest IACS URS Rules for Bulk Carriers

Environment) standards and expert project management that encompassed the management of critical classification requirements on behalf of Owners. In particular, our ability to deliver the ship on time and our excellent reputation for zero shipyard-induced defects after refits were the critical success factors. Faced with a bullish dry bulk freight market, timely delivery by the yard would translate into minimal off-hire time thereby maximizing the trading days of the vessel. Principally, we were also chosen over the Chinese shipyards despite the price differential due to our high quality performance and excellent safety track record.

The success of this major project led to the signing of a Favoured Customer Contract (FCC) between TMT Ltd and Sembawang Shipyard in March 2004. The FCC contract was signed in our shipyard by Mr Nobuyoshi Morimoto, Chief Executive Officer of TMT Ltd and Mr Heng Chiang Gnee, Chairman of Sembawang Shipyard. This milestone contract is Sembawang Shipyard's first long term contract with a major Asian shipping company and we are grateful for TMT's strong confidence in our shipyard's ability to deliver consistently high quality and timely refits that conform with world-class HSE standards. TMT Ltd is a major and fast expanding Taiwanese shipping company with a diversified fleet of more than 40 ships comprising bulk carriers, VLCCs, ro-ro ships, woodchip carriers and LNG carriers. ⚓



barge. *Jascon 5* is built to American Bureau of Shipping Classification rules with notation ABS + A1 Barge + PAS + DPS2 "Pipelay" and is operated by Offshore Contractors Ltd (OFFCON), owned by the Nigerian based Sea Trucks Group.

We were awarded this major contract in October 2002 by Consolidated Projects Limited (CPL) against strong international competition based on the shipyard's technical / project expertise, Engineering, Procurement and Construction (EPC) capabilities and established track record in the highly specialized and sophisticated field of conversion and modification of offshore vessels.

During the christening ceremony held in April 2004, *Jascon 5* was officially named by Lady Sponsor, Mrs A Roomans, wife of Mr Jacques A Roomans, President of Sea Trucks Group. In the words of Mr Jacques A Roomans, "With the successful completion of this project to complete, outfit and commission the *Jascon 5* to our stringent



Presentation of momento from Mr P K Ong, Executive Director to Master of *Jascon 5*.

offshore quality and HSE standards, Sembawang Shipyard has demonstrated its strong Engineering, Procurement and Construction capabilities, professionalism and project management expertise".

Mr P.K. Ong, our Executive Director in his speech said, "One of the most challenging aspects of this major project required the Shipyard to undertake part of the basic design and detailed EPC and the installation and commissioning of the complex



Mr Heng Chiang Gnee, Chairman (3rd from right), and Mr P K Ong, Executive Director (2nd from right), with Mr Jacques Roomans (centre), President of the Sea Trucks Group and VIP guests.



Jascon 5 during sea trials in the South China Sea.

DP system onto a new barge hull constructed in China. We are indeed pleased that we have successfully completed this project in partnership with CPL”.

For this sophisticated and first of its kind conversion, Sembawang Shipyard’s experienced Project Management Team worked closely with the Owner’s team to manage all aspects of the work with special attention due to the fast track nature and tight schedule of the project. The Shipyard’s engineering team carried out 3-D modeling of the vessel’s structure, pipes, cables and ventilation services in order to ensure smooth progress during outfitting. In total, we fabricated and installed 55 km of pipework and 300 km of cables. The shipyard also carried out detailed engineering of specialized systems such as the HVAC, fuel, compressed air, water and the complete electrical power and vessel management systems.

Major work carried out by the Shipyard included the installation of specialized equipment including the SAS pipe laying equipment, Kongsberg Simrad Dynamic Positioning System, a pipelay stinger and A frame. The dynamic positioning system features 8 azimuth type thrusters type HRP 700, powered by 8 Caterpillar D3516B diesel engines of 2100 bhp each, controlled by a DPS-3 class Kongsberg Simrad dynamic positioning system. The barge can also work on an 8-point mooring system at a limited working draft of 3.5 metres when making shore pipeline approaches. The pipelay equipment has a capacity of 4 to 48 inch diameter pipes (max. coated pipe dia 60 inch), and 6 x 60 tons davits for pipeline recovery and repair. The DP system also allows the vessel to have a J-lay tower to be eventually installed, when required.

Additionally, the shipyard also installed a Huisman heavy lift crane which can revolve with a full load of 800 tonne and a TTS/Norlift 25 tonne capacity pedestal crane which will enable the *Jascon 5* to handle all pipeloading and general duties. A second 35 tonne offshore rated TTS/Norlift crane will be installed shortly. The Shipyard also undertook the complete engineering and outfitting of the accommodation deckhouse for a complement of up to 350 persons.

The newly completed *Jascon 5* sailed from the shipyard on 29 April 2004 to undertake its first contract in the Middle East and will be deployed worldwide by the Sea Trucks Group.

The successful completion of this highly sophisticated and challenging offshore conversion project has further strengthened our excellent track record. ⚓