



Ballast Water Management Technology
A CALGON CARBON COMPANY

Sembcorp Marine in Singapore selected the Hyde GUARDIAN system for installation a series of semi-submersibles being built for a U.S. owner.



Vessel Type: Semi-submersible

Ballast Pump Capacity: 450 m³/hr

System Model: 2 x HG450G

THE CHALLENGE

With new construction comes detailed requirements that equipment suppliers are expected to meet. Any modification to a complex, engineered product such as a ballast water treatment system needs to be carefully considered for how it may impact system performance.

THE EXECUTION

The shipyard proposed a detailed project management process that easily enabled both parties to identify product modifications and track open issues either in the design or extensive documentation. The extended timeline typically afforded to new construction projects enables such compromise solutions to be developed.

The end result of this effective collaboration was a ballast water treatment system in a skid-mounted configuration. All major mechanical components were installed on a single base frame and piping and wiring between those components was performed in the Hyde Marine factory.

THE REVIEW

Included in the contract with the shipyard was the hosting of a Factory Acceptance Test at Hyde Marine alongside a shipyard representative. This testing and review of the equipment would ensure that the detailed requirements were met and the ballast water treatment systems were ready for installation.

A customer-witnessed review enables any necessary modifications to be made prior to delivery which is a more cost-effective solution for everyone involved.



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5. Final Sign-Off

The Factory Acceptance Test for this project has been:

- Accepted
- Accepted with Deficiencies/Comments
- Rejected

Tested by:	Date:	Witnessed by:	Date:
Tom HAYEN Tom Hagen	6-30-18	Victor Klenzweig <i>[Signature]</i>	6-28-18
Hyde Marine	Customer Representative		

