

Client: <i>Jamaica Energy Partners</i>	Industry: <i>Marine</i>
Vessel: <i>Dr Bird Generator Barge No.1</i>	Date: <i>May 2009</i>
Location: <i>Jamaica</i>	Products: <i>Epo-chem™ RA 500M & RS 5000P</i>

Overview

The Dr Bird Generator Barge (No.1) provides around **15% of Jamaica's electricity**. Under the Local Authority and Classification Legislation of Jamaica, the Barge had to undertake a major overhaul of steel replacement and re-coating works (over 8,000m²) in the ballast tanks to achieve class.

Challenge

The barge had to continue to provide power from its diesel generators while the work was carried out. Dry-grit blasting was not possible due to the risk of contamination to the generators and the pollution risk was unacceptable under the strict H&S standards set by the Jamaican Authorities. Solvent-based paints were unsuitable and would have been a major H&S hazard requiring shut-down of the plant.

Solution

Following high pressure washing to WJ-3 (800 bar) **Epo-chem™ RS 500P solvent-free, rust & wet tolerant primer** was applied to a DFT of 100µ. This was followed by one coat of **Epo-chem™ RA 500M solvent-free, wet tolerant glassflake epoxy @ 200µ**. Total DFT 300µ.

Outcome

The work was carried out safely, on time and with major cost savings; reduced environmental and H&S impacts for the contractor and operator. The client was delighted with the result; consequently when the paint system on the new Dr Bird Generator Barge (No.2) failed, **Chemco** was asked to supply the repair system for its ballast tanks in May 2010.

Benefits

- Hot-work carried out nearby while coating
- Reduced contract duration
- Reduced H&S and Fire Precaution
- Reduced cost of plant and equipment:-
 - No de-humidification necessary
 - No additional ventilation requirement
- **Chemco** system will protect the steel substrate in excess of 10 years

Continued overleaf

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Photographs:

- Nos. 1 and 2 Ballast tank before application
- Nos. 3 and 4 Preparation in progress
- No. 5 RS 500P primer partly applied
- Nos. 6 and 7 Ballast tank after application

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- Solvent-free • Water-based • Wet-tolerant
- Rust-tolerant • Zero VOC
- Tank & Pipe Linings • Under-water & Marine • Glassflake
- Rust Converters & Primers • Ceramic & Metal Repair • Anti-static, Conductive & Anti-slip Flooring
- Approved for Contact with Food, Drinking Water & Beverages • Damp or Green Concrete Primers
- Concrete Repair Systems • Elastomeric System
- High Temperature Systems • Fire Retardant • Insulation Systems

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