

Case Study



Client: <i>Storr Lochs Power Station</i>	Industry: <i>Power Generation</i>
Scope: <i>Pipeline Internals</i>	Date: <i>May - August 2015</i>
Location: <i>Isle of Skye, Scotland</i>	Products: <i>Epo-chem™ RS 500P & RA 500M</i>

Overview

The internal surface of the water intake pipelines (over 770m), located at the Storr Lochs Power Station, had to be refurbished as the existing bitumen coating was suffering from corrosion and abrasion damage. The client was looking for an environmentally friendly and cost-effective solution.

This project was carried out by Wood Group.

Challenge

Grit blasting was adjudged to be too expensive and impractical; therefore by utilising an innovative combination of water jetting and **Chemco's** unique **solvent-free, wet & rust tolerant** technology, the whole project could be completed in the most cost-effective, safe and convenient manner. There were no manholes located along the confined pipeline for ventilation control and certain sections were situated on a steep incline. This added major difficulty to access and application. The new coating system also had to have good abrasion resistance and a smooth finish to improve water flow efficiency.

Solution

HP water jetting using a robotic aid to WJ-3 standard was utilised as the surface preparation method. A 'cradle system' was installed to support the applicator on the gradient of the pipeline. One stripe coat and one primer coat of **solvent-free, wet & rust tolerant** epoxy **Epo-chem™ RS 500P** was applied. This was followed by one stripe coat and one topcoat of **solvent-free, wet tolerant**, glassflake epoxy **Epo-chem™ RA 500M**.

Outcome

Substantial time and cost savings were achieved by utilising this revolutionary solution offered by these unique products and application techniques. Furthermore, the applicators were extremely satisfied to work with a **solvent-free** coating system which was ideal for application in confined spaces and significantly reduced H&S and Fire Hazard.

Continued overleaf

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*Photographs courtesy of Wood Group

Photographs:

- Nos. 1 - 3 Pipeline Externals

Benefits

- Solvent-free
- Wet & rust tolerant system
- Reduced H&S and Fire Hazard
- No downtime due to adverse weather conditions
- Substantial time and cost savings
- No humidity or dew point restrictions
- Long-term guarantee

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Photographs:

- Nos. 4 - 5 Applying RS 500P (primer)
- No. 6 Applying RA 500M (topcoat)
- No. 7 Completed application

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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