

Client: <i>ITT</i>	Industry: <i>Oil & Gas</i>
Scope: <i>Impeller Refurbishment</i>	Date: <i>June 2012</i>
Location: <i>Australia</i>	Product: <i>RB 300, RS 500P, RP 500</i>

Overview

A sea water process pump had a heavily corroded bronze impeller which required to be refurbished. The lead time on a new impeller was 12 weeks, therefore repairing the damaged impeller was the only option until the new impeller arrived. This project was carried out by Corrosion Control Services, Australia.

Challenge

Upon blasting the impeller, there was severe material loss to the body and vanes. This project also had a very short time frame for completion, with a lot of rebuilding and shaping to perform.

Solution

Grit blasting the impeller to SA 2.5 standards to achieve a surface profile of 75µ. Utilise **Chem-tect™ RB 300 series** for priming and rebuilding the wear ring landings, vanes and body of the impeller. Upon completion of the rebuild, prime the impeller using **Epo-chem™ RS 500P @ 75µ DFT**, followed by a topcoat of **Ceram-chem™ RP 500 @ 400µ DFT**.

Outcome

This project was completed within 4 days, much quicker than was anticipated by the client. The repair of the impeller utilising the **Chemco** system was so good that the repaired impeller is still in service after 18 months with the new impeller acting as a spare.

Benefits

- No major delays
- Reduced downtime
- Very smooth, high gloss finish
- **Damaged impeller repaired to "as good as new" condition**
- High abrasive resistant system

Continued overleaf

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Photographs

- Nos. 1-2 Before surface preparation

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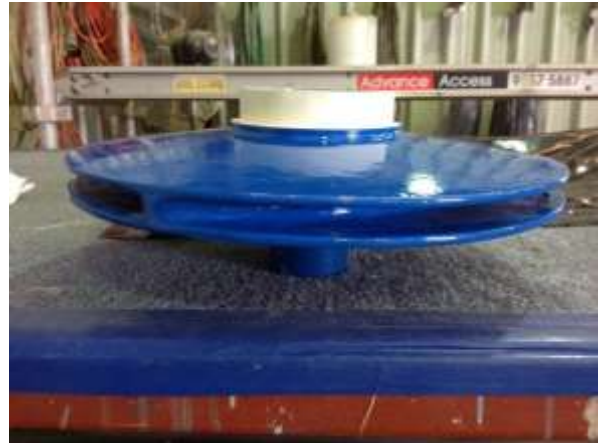
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Photographs

- Nos. 3-4 After surface preparation
- Nos. 5-6 During application process
- Nos. 7-8 Completed application

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