

<b>Client:</b> <i>ITT</i>	<b>Industry:</b> <i>Oil &amp; Gas</i>
<b>Scope:</b> <i>Impeller Refurbishment</i>	<b>Date:</b> <i>June 2012</i>
<b>Location:</b> <i>Australia</i>	<b>Product:</b> <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 and 2 Before surface preparation
- Nos. 3 and 4 After surface preparation
- Nos. 5 and 6 During application process
- Nos. 7 and 8 Completed application

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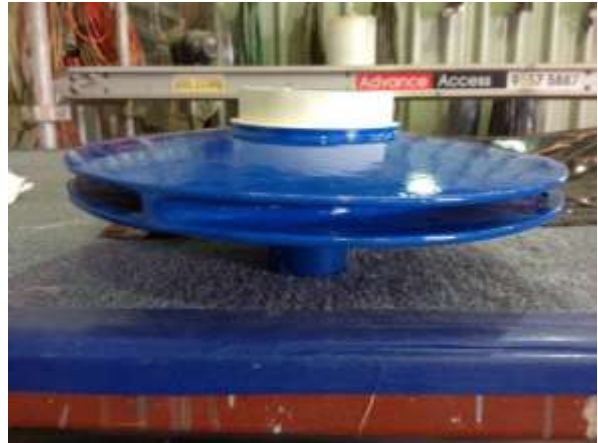
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