# Cooling Water Pipe

*Power-Fossil — Circ & Service Water System*
**ARC 858 and 855 Coatings**
*Case Study 009*

## Challenge

### Goals

- Provide an alternative to rubber lining
- Perform an in situ repair of significantly corroded large diameter cooling water pipes

### Root Cause

Due to failure of the existing rubber lining, the large diameter cooling water pipes were corroding and in danger of rupture.

## Solution

### Preparation

1. Remove old rubber lining
2. Remove contaminants using water based cleaners
3. Grit blast to Sa 2.5 with 3 mil (75 µm) profile

### Application

- Apply ARC 858 to all pitting and deeply corroded areas
- Apply 2 coats of ARC 855 ceramic coating at DFT of 38 mils (900 µm) to existing piping and replacement sections

## Results

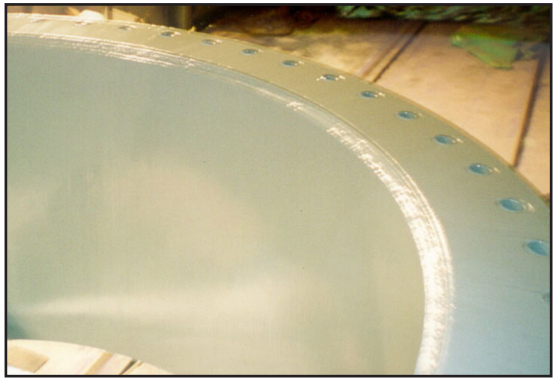
Client reported that the ARC Solution succeeded in provided an effective in situ coating solution that restored integrity to the cooling channels.

### Improved Performance

Subsequent inspections confirm superior performance compared to previous coating selection.

*Significant corrosion in area of failed rubber lining*

*Rubber lining removal before cleaning*



*New stub-pipes grit-blasted coated with ARC 855, ARC 900 microns (35 mils)*



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