

# **Cooling Water Pipe**

## 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  $\mu\text{m})$  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)

FN23593.01

9/14

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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