

Challenge

Issue

Galvanic corrosion of supports risked loss of the traveling screens, which are critical to the safe operation of the cooling water intake system.

Goals

- Provide alternative to applying coal tar coatings and substantially exceed 18 month recoat cycle
- Stop galvanic corrosion of the supports

Root Cause

Prior coatings had inadequate dielectric properties to impede galvanic cells.

Solution

Preparation

- Pressure wash and decontaminate the substrate
- Abrasive blast to Sa 2.5 with 3 mil (75 µm) angular profile

Application

1. Apply 2 coats of **ARC 855** in alternating colors achieving total DFT 30-40 mils (750-1000 µm)

Results

Inspection Reports After 5 Years

ARC 855 coating continues in “perfect condition”

Goals:

- | | |
|---------------------------------|-----------------|
| ■ Stopping galvanic corrosion: | Achieved |
| ■ Exceed 18 month recoat cycle: | Achieved |
| ■ Eliminate screen loss: | Achieved |

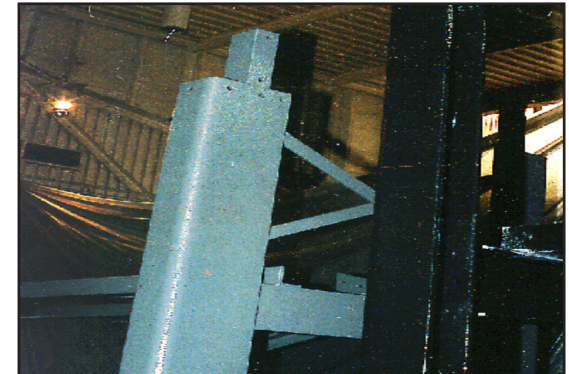
Additionally, **ARC 855** met client’s specification regarding leachable compounds.



Corroded traveling screen



Screen supports coated with ARC 855



Completed ARC 855 application