

## Challenge

### Goal

Prevent erosion and extend life of large trash racks covering cooling water intakes.

### Root Cause

Racks eroded by debris pounded against them by waves, resulting in loss of low grade coatings and severe corrosion.

## Solution

### Preparation

- Decontaminate for chlorides
- Grit blast Sa 2.5 with 3 mil (75 µm) profile

### Application

1. Apply **ARC 855** ceramic coating for corrosion and abrasion protection
2. Apply additional copper-based anti-fouling system to reduce marine growth

## Results

Client reported that the ARC Solution succeeded in providing 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.



Racks showing corrosion due to impact



Two coats of ARC 855 - the end to be coated after welding



Finished product with ARC coating