

## Challenge

### Goal

Rescue a 20-year-old split case pump running far off BEP and achieve a cost avoidance of \$225K for a new pump.

### Root Cause

Sulfuric acid added to pulp increased internal corrosion in a pump that was already worn.

## Solution

### Preparation

- Pressure wash and decontaminate surfaces
- Grit blast to Sa 2.5 with 3 mil (75 µm) profile

### Application

1. Rebuild cut-water using wire mesh and **ARC 890**
2. Use **ARC 858** to coat and fill pits and gouges
3. Apply 2 coats of **ARC 855** in alternative colors over repaired and uncoated metal

## Results

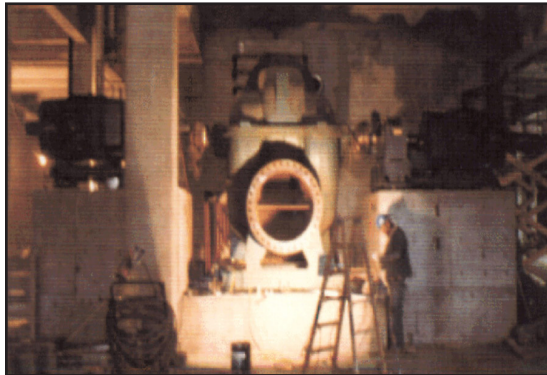
### Repair Time

All repair work completed and pump returned to service in 2 weeks.

### Client Reported

CAPEX avoidance: \$225,000

**Estimated Repair Life:** 5+ years

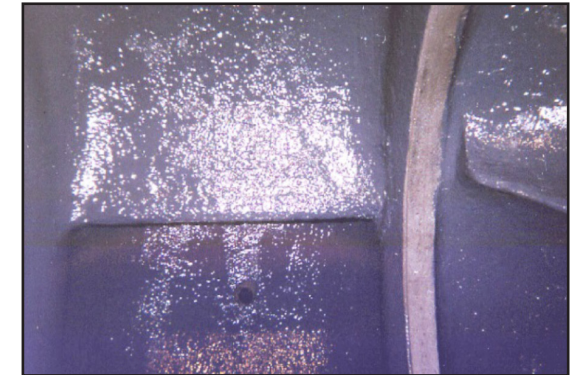


Disassembled pump prior to installation



Split case fan pump, coated with ARC 855, ARC 858 and ARC 890

\$=USD



Damaged cutwater rebuilt with ARC 890 and topcoated with ARC 855