

## Challenge

### Issue

Service life of 316 stainless liners in grinding mill less than 6 months.

### Goals

- Double the service life of liners
- Substantially reduce associated annual maintenance costs of >\$95K

### Root Cause

Aggressive erosion caused by entrained grit and corrosion from wastewater degrades metallurgy.

## Solution

### Preparation

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

### Application

1. Apply **ARC BX1\*** surfaces at ½" (12,8 mm) thickness
2. Force over with hot air after application
3. Cure time under 5 hours

\*ARC BX1 is the "Bulk" package size of ARC 890

## Results

### Inspection at 23 Months

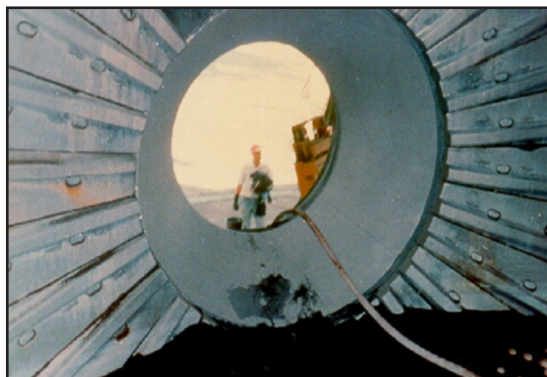
ARC lined surfaces extended maintenance cycle from <6 months to >12 months

Previous annual maintenance:	\$95K
<b>Total applied ARC solution:</b>	<b>-\$25K</b>
<b>Net savings:</b>	<b>\$70K</b>

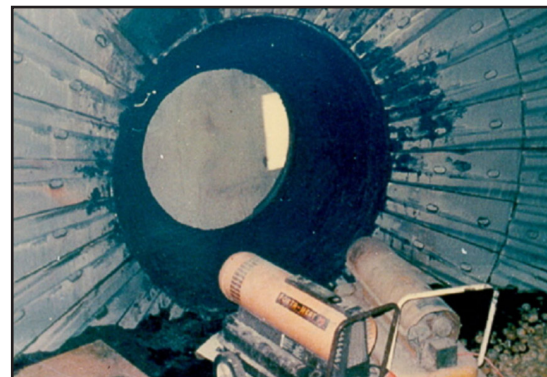
\$=USD



Mill and work area



Prepared surfaces



ARC coated surfaces being force cured in under 5 hours