

Challenge

Issue

Corrosion occurs at weld seams, requiring welding within 3 years. Loss of screen deck structure can shut down plant.

Goals

- Provide an easy-to-apply erosion/corrosion resistant liner
- Increase service life to 48 months

Root Cause

Urethane liners fail prematurely. Acidic wash water combined with erosive particulates attacks exposed steel at weld seams.



Damaged coal screen

Solution

Preparation

- Remove remaining urethane liners
- Decontaminate surface
- Grit blast to Sa 2.5 with 3 mil (75 µm) angular profile

Application

1. Stripe coat all edges and welds with **ARC S2**
2. Spray two coats of **ARC S2** @ 15 mils (375 µm)
3. Apply **ARC BX2*** @ 120 mils (3 mm) on top rails

*ARC BX2 is the "Bulk" package size of ARC 897



ARC S2 grey applied to coal screen

Results

Client Reported

- ARC-lined screen decks have been in service for over 4 years without any required maintenance
- Service life increased by 33% to date
- Application cost reduced by 50%
- Annual maintenance costs cut by 30%



ARC BX2* applied to top rails