

Challenge

Issue

Discharge launderer rings below hydrocyclone experienced severe impact abrasion causing ceramic tiles to fail.

Goal

Replace failing system with a solution able to protect against harsh conditions.

Root Cause

High-impact, flow-induced, slurry abrasion

Solution

Preperation

Surfaces cleaned with High Press water then mechanically abraded to roughen surfaces to SP11 cleanliness with 2 + mil profile.

Application

ARC I BX1 was initially applied on all exposed surfaces. After a six-month inspection, the impingment area directly below the discharge cone was upgraded with **ARC MX1** based on our recommendation.

Results

Client Reported

- Unscheduled shutdowns have been reduced 50%. Each shutdown now takes one-third as long as previous weld repair
- Client reports saving >\$100K/year on maintenance per cyclone



Krebs Cyclone



Previous product application



Expertly trained ARC Certified application