Ash Cones

Power-Fossil — Ash Handing ARC MX1 Coating Case Study 118

Challenge

Issue

Chrome hardened liners wear out in <3 months and carry high spare parts replacement cost (\$240K per year).

Goals

- Provide MTBR >12 months
- Reduce spare parts replacement cost

Root Cause

Severe high velocity abrasion from the pneumatic transport of fly ash wears liners.



Chrome liner after only 3 months operation

Solution

Preparation

 Grit blast to Sa 2.5 with 3 mil (75 μm) angular profile

Application

- 1. Fabricate urethane mold using new liner with annular gap of .75" (1.9 cm)
- 2. Insert mold and center in cone
- 3. Fill annular gap between OD of mold and ID of cone with ARC MX1 and compact



Final stage of molding ARC MX1

Results

Client Reported

- At 12 months, ARC MX1 showed no noticeable wear
- Liner MTBR extended to >36 months
- The plant has eliminated the use of chrome liners and is exclusively utilizing ARC MX1 in all abrasion areas

Savings

New chrome linings: \$240,000/year
ARC MX1 lining: -\$ 32,000/year
Net Savings: \$208,000/year

\$=USD



Ash cone after molding ARC MX1 in place

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