



PROBLEM SOLVED™ D5D9F

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INDUSTRY: Coal-Fired Power

LOCATION: Warrick Power Plant, Alcoa Generating Company
Newburgh, Indiana



This is a typical transfer point at Alcoa's Warrick Power Plant before the MartinPLUS® Services reconstruction project.



Following the project, transfer points at the Alcoa's Warrick Power Plant featured new chute work, improved support and skirting systems.

PROBLEM

The Warrick Power Plant is operated by the Alcoa Generating Company to supply electricity for smelting operations at Alcoa's Warrick facility.

The plant's coal handling equipment needed reconstruction and improvement, including improved systems to control spillage and dust, to provide a cleaner, safer and more productive coal handling system.

SOLUTION

Crews from Martin® Services performed the reconstruction of all 16 transfer points in the Warrick Power Plant coal handling system. The actual working time was roughly nine weeks, but to avoid any interference with Alcoa production schedules, it was performed during the plant's periodic schedule outages in a six-month period.

At each transfer point, the project included:

- Removal of existing chute walls and skirtboard.
- Removal of existing idlers and impact roll assemblies.
- Installation of new chute wall with supports, covers and Martin® Wear Liner.
- Installation of Martin® Support Cradle(s) with center support rollers.
- Installation of Martin® Apron Seal™ Skirting* with clamps.
- Installation of a Martin® Tail Sealing Box.
- Installation of Martin® Dust Curtains and Martin® Dust Bags.
- Installation of Martin® Tires.

Additionally, the work included the removal of the existing chute and flop-gate assembly. Martin® Services crews field-fabricated stainless steel pulley guard assemblies for the 10 conveyors in the coal handling system.

RESULTS

The transfer point reconstruction project has dramatically improved plant conditions by controlling dust, eliminating material spillage, controlling dust and improving belt tracking.

The Martin® Services crews received high marks for their efforts from Warrick Plant personnel.

Martin® Apron Seal™ Skirting is protected by U.S. Patent No. 5,016,747.
Martin® Support Cradle is protected by U.S. Patent No. 4,898,272.

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