



PROBLEM SOLVED™ PAPER

SOLUTION: MartinPLUS® Process Improvement

INDUSTRY: Coal-Fired Power

LOCATION: Entergy Operations Services, Inc.
Independence Generating Plant, Newark, Arkansas



Independence Steam Generating Plant.

PROBLEM

In normal operations, Conveyor 4B, a 72-inch (1800 mm) feeder belt, loads coal onto the 72-inch (1800 mm) belt of Conveyor 5A.

Plant engineers wanted to be able to bypass Conveyor 5A and load material directly from Conveyor 4B onto Conveyor 10A.

The plant needed engineering assistance to accomplish this redesign and avoid bottlenecks and plugs in the new chute.

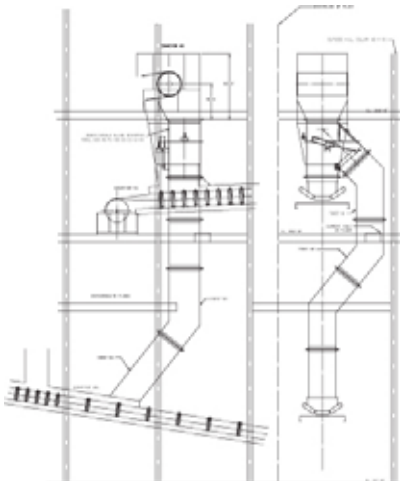
SOLUTION

Following a site survey, MartinPLUS® Process Improvement specialists designed a flop gate for installation between Conveyors 4A and 5A. They also developed the chutework to connect the flop gate to Conveyor 10A. This chute required a material drop of about 45 feet (13.7 m) with a lateral offset of approximately 10 feet (3 m).

Martin Engineering prepared conceptual drawings. After plant approval, Martin developed detailed fabrication drawings of all chutework sections for local fabrication and installation.

RESULTS

The re-engineered chutework fit within 1/16 of an inch (1.5 mm) of desired location. Material flow rate achieves operating goals.



MartinPLUS® Process Improvement specialists designed a new chute that allows material to go from Conveyor 4B to Conveyor 10A, bypassing Conveyor 5A.