PROBLEM SOLVED™ PAPER

SOLUTION: MartinPLUS® Walk the Belt™, QC1™ Cleaner XHD, Trackers™

INDUSTRY: Coal-Fired Power

LOCATION: Coal-Fired Power Plant in Midwestern US

The patented "CARP" Constant Angle Radial Pressure design maintains cleaning performance through all stages.

PROBLEM

The plant handles 1,000,000 tons of PRB Coal per year and was experiencing carryback and belt wander on the rail unloading belt feeders. The carryback was reducing efficiency and profitability and increasing maintenance and cleanup expenses. The buildup of material on rolling components was also contributing to increased power consumption and the wandering belt. Unsafe working conditions were a concern due to material accumulation on floors and walkways, creating slip/trip hazards along with fire hazards.

The Martin® Tracker™ provides immediate, continuous precision adjustment of wandering conveyor belts.

SOLUTION

After analyzing results from the MartinPLUS® Walk the Belt™, a detailed inspection of the entire conveyor system, Martin recommended upgrading the existing belt cleaners to properly remove carryback and installing lower trackers to resolve the belt tracking issues.
Martin provided two primary belt cleaners, the Martin® QC1™ Cleaner XHD and two heavy-duty lower Martin® Trackers™.

Service technicians inspect & analyze the conveyor system while looking for opportunities for improvement.

RESULTS

In addition to resolving the carryback and belt tracking issues, Martin's upgrades improved maintenance planning and conveyor availability as emergency outages and unscheduled downtime were drastically reduced. Therefore, maintenance expenses were lowered and working conditions and plant safety were improved as well.

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