



# PROBLEM SOLVED™ PAPER

**SOLUTION:** Martin® QC1™ Cleaner XHD

**INDUSTRY:** Coal-Fired Power

**LOCATION:** MidAmerican Energy, George Neal Station South  
Salix, Iowa



*MidAmerican Energy Neal Station South*



*Martin® QC1™ Cleaner XHD*



*Martin® QC1™ Cleaner XHD installed  
at Neal Station South.*

## PROBLEM

Competitive belt cleaners were ineffective and their air tensioning system proved cumbersome.

## SOLUTION

Martin® QC1™ Cleaner XHD

Plant officials agreed to test a Martin® QC1™ Cleaner XHD from Martin Engineering. The test installation provided a blade life of approximately one year, and its “one-pin” blade change simplified maintenance. Because a pre-cleaner works on the head pulley, the removed material returns to the main material flow without requiring a dribble chute that can plug up.

After testing one cleaner, plant officials agreed to install four more Martin® QC1™ Cleaners, equipped with spring tensioners and Martin® Inspection Doors in steel on coal yard conveyors.

A crew from MartinPLUS® Services performed installation of the cleaners. The work received good reviews from Plant Coal Handling Supervisor Doug Dickman, “We’re very happy with the performance of the installation crew. They knew what they were doing. They got in and got out; they got the job done. And they complied with all our safety and lock-out procedures which is important to us.”

## RESULTS

Coal Handling Supervisor Doug Dickman reports that cleaning performance has been good, and based on results from the trial installation, blade life should be longer.

This success will allow the plant to move to standardize on one belt cleaning system. Doug Dickman explains, “By standardizing we only have to know how to maintain one kind of cleaner, and we only need to keep one style in inventory.”

In line with this goal, the plant is planning to add additional Martin® Belt Cleaners on other conveyors in the coal-handling system.

*Martin® QC1™ Cleaner XHD is protected by U.S. Patent No. 4,917,231.*

*Martin® Inspection Doors are protected by U.S. Patent No. 5,704,167.*

**Martin Engineering • One Martin Place • Neponset, IL 61345-9766 USA**  
**Ph. 800-544-2947 • Fx. 800-814-1553 • [info@martin-eng.com](mailto:info@martin-eng.com) • [www.martin-eng.com](http://www.martin-eng.com)**

**Form P1118**