

# solutions

Industry Updates and Solutions  
for Conveyor Material Handling  
Applications.

Providing the World Material Handling Industry with Productive, Safe and Reliable "Complete Conveyor Solutions."

# ASGCO®

Complete Conveyor Solutions

## Improving Operating Efficiency and Reducing Airborne Dust at a Coal-Fired Power Plant

### Problems:

A coal-fired power plant was experiencing major issues with their coal handling systems. The current OSHA NEP combustible dust requirements, has made it mandatory for many coal fired power plants to address any airborne dust issues. The time line for dismantling the existing system and installing the new tripper cars and transfer chutes were on a tight schedule and had to be accomplished one at a time to allow one tripper to continue running during the day to fill the coal bunkers below.

### Solutions:

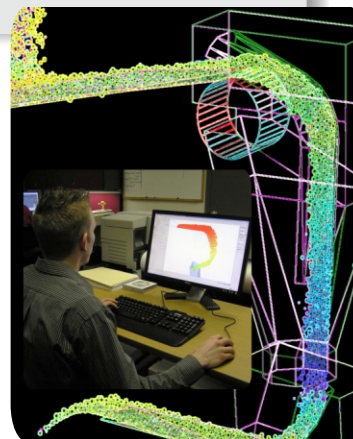
ASGCO modeled and designed two new tripper cars using their 3-DEM material modeling software, to allow the coal to be either loaded down to the bunkers or loaded back onto itself, moving in the same direction, speed and in the center of the receiving conveyor. The new design improved the flow of the coal and the new combination of internal liners improved the wearability of the liners. The amount of airborne dust and spillage is virtually eliminated with the new tripper design, clamp mount skirting, dust curtains and Skalper belt cleaners. Further aiding in the elimination of any fugitive dust and carry-back to help the plant meet and exceed its goals for the project.

The newly installed transfer chutes now operate with improved coal flow through the tripper system without buildup and with less wear in the internal liners, nearly eliminating all spillage and any significant amount of airborne dust. The overall project was a great success and ASGCO has once again provided a "Complete Conveyor Solution".

### ASGCO Transfer Point Design Technology

ASGCO Flo-Control™ transfer point design, fabrication and installations utilizing ASGCO's 3-DEM chute analysis program (Discrete Element Methods) is a revolutionary way to handle granular and particular material handling problems and to increase production capabilities. Combined with our conveyor and material handling knowledge, engineering capabilities and complete turn-key installation services, we are able to make transfer point problems a thing of the past.

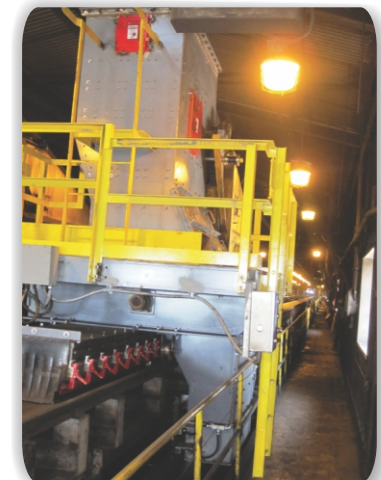
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Before



After



For more information and benefits of the ASGCO 3-DEM Chute Design, Fabrication and Installation contact us at [www.asgco.com](http://www.asgco.com)