

THE WORLD LEADER IN CLEAN AIR SOLUTIONS

**AAF® INTERNATIONAL**  
CASE STUDY

**PROJECT LOCATION:**

Kentucky

**SECTOR:**

Power Generating Station

**EQUIPMENT DESCRIPTION:**

(2) 12-3H PulsePak Prime Cartridge Collectors

## Project Summary

A utility company called into the AAF offices looking to upgrade their current collection system. They had two AAF AmerPulse bag collectors from the 1970's that were indoors and collecting coal dust. They were looking to not only increase collection efficiency but also to comply with the most current NFPA codes. Joe Goding at Airflow Equipment visited the facility to look at the system and develop a solution. The collectors were collecting the coal dust from a material handling system in the bunkers underneath.



## Outcome

Based on where the PulsePak Prime units had to be located, Joe and the customer agreed that chemical explosion suppression on the collector was the best route as it was not possible to vent an explosion vent outdoors in accordance with NFPA standards. The PulsePak Prime units were utilized to replace the bag collectors due to the great dust holding capacity and true downflow design that the customer requested. The system was designed so that each dust collector would pull 8,722 cfm @ 20" w.g. The customer wanted to utilize their current set-up of a rotary airlock and screw conveyer so AAF and Joe Goding worked with Michael Munafa of Young and Bertke Air Systems to install the dust collectors so that the footprint was equal or less than that of the original collectors. So as to fully comply with the relevant combustible dust requirements of NFPA 68 and NFPA 69, chemical suppression was used in the inlet air duct as well to prevent a fireball from returning through the air duct. The cleaned air outlet was exhausted to the outdoors.

The utility company now has an industrial dust collection system that keeps workers safe, maintains good housekeeping, while also complying with OSHA, NFPA and EPA regulations.



## AAF® CASE STUDY



For further information about AAF dust collection capabilities or how to comply with NFPA standards, contact your local AAF Representative.