

Dry ESP Removes Particulate at Mining Plant

For industrial installations, the dry electrostatic precipitator (dry ESP, or DESP) provided by Babcock & Wilcox Environmental (B&W) offers highly efficient control of particulate.

Background

A major mining facility in Canada needed a solution to remove particulate.

Scope

We designed and supplied a new dry ESP. Material supply consisted of the ESP and auxiliaries including our G-Opzel collecting plates, rigid spiked electrodes, support steel, access steel, ductwork, and high-frequency power supplies. We also supplied a CFD model study and a technical advisor for construction, startup, training, and commissioning services.

The ESP was designed with high-density MIGI LV4 roof-mounted rappers to accommodate the particularly sticky particulate. To save field erection time, the collecting plates and discharge electrodes were shop-assembled and shipped to the site as modules.

Results

The project successfully started up in 2012 and passed all performance guarantees.



PROJECT HIGHLIGHTS

PLANT TYPE	Mining
LOCATION	New Brunswick, Canada
APPLICATION	Potash Dryer
GAS VOLUME	248,000 ACFM
PRIMARY CONSTRUCTION MATERIAL	Carbon Steel
AWARD DATE	2010
RESULTS	Passed all performance guarantees

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