



## Custom E-House Fabrication

Big jobs require big capabilities and Flanders has the size and experience necessary to get big jobs done right! Here is the story of one big job that demonstrates the Flanders difference. Whether you are in the Mining, Metals or any heavy industry, custom electrical gear is NO problem.

This E-house is just one of five that Flanders Electric custom assembled for a mining customer. The South American mine is in an extremely rugged environment and the design and fabrication had to be especially sturdy and innovative.

These E-houses are each designed to operate two 2180hp Wound Rotor motors on a coal conveyance system. Along with the power switchgear and the MV vacuum motor starters, it also houses the PLC and all of the auxiliary equipment controls.



Placed outdoors in very remote locations, the E-houses need to be self contained with lighting, air conditioning and fire suppression. Resistor banks for the motors are mounted outside the enclosure behind louvered doors as seen above. Flanders did full medium voltage (4160) and low voltage control testing before shipment. Wireless Ethernet equipment remotely communicates system status to the operators and coordinates controls between houses.



Not only did we build the control houses, we ALSO reconditioned the matching 2180HP motors!

From the substation to the motor, Flanders has the **Power to Perform**.



More information about specific industry areas like metals, mining and power systems can be found at our website [www.flanderselectric.com](http://www.flanderselectric.com).

Flanders Electric Engineering Division  
10334 Hedden Rd  
Evansville, IN 47725  
(812) 867-4014  
[engineering@flanderselectric.com](mailto:engineering@flanderselectric.com)

## THE POWER TO PERFORM