

Fayette County Health Center  
100 New Salem Road, Room 167  
Uniontown, PA 15401  
March 31, 2006

Bureau of Mine Safety

724-439-7469  
Fax: 724-439-7324

Todd Shultz  
Brookville Mining Corp.  
175 Evans Street  
Brookville, Pa 15825

Re: **ITEM:** Deutz 100 HP BF4M2012 Engine with DST Model 30 Exhaust Emission System  
**APSID NO:** 580221  
**APPROVAL OF BOTE-DEES 0036-06**

Dear Mr. Shultz:

This letter is a response to the Technical Advisory Committee's ("TAC") recommendation for approval of the Deutz BF4M2012, 100HP turbo charged diesel engine with a DST Model M30 exhaust emissions system. The emission system includes a Bosch fuel injection pump, a Syncat Corp., oxidation catalyst, a Pass Technologies Heat Exchanger, and a Fleet Guard particulate filter.

The standards and procedures for using diesel-powered equipment in Pennsylvania's underground bituminous coal mines are established by Article II-A of the Pennsylvania Coal Mine Act (Act). Section 224-A of the Act establishes the Technical Advisory Committee on Diesel-Powered Equipment (TAC) whose duties include reviewing requests to use alternative technologies or methods to comply with the requirements of the Act. Any alternative technologies or methods recommended by the advisory committee and approved by the secretary shall not reduce or compromise the level of health and safety protection afforded by Article II-A.

Based on the information provided and the TAC's recommendation, the Department approves the Deutz BF4M2012, 100HP turbo charged diesel engine with a DST Model M30 exhaust emissions system. The General Specifications Sheet dated Oct. 12, 2005 shall be strictly complied with. The TAC also recommended approval of the *alternate test procedure* for Section 217-A and 218-A. The Secretary approves the TAC's recommendations because the alternative methods will not reduce or compromise the level of health and safety protection afforded by Article II-A of the Pennsylvania Bituminous Coal Mine Act.

The engine and emission system are assigned approval number BOTE-DEES-0036-06. The minimum ventilating air quantity for this specific piece of diesel powered equipment is 6000 cfm. This approval number and ventilation rate must be stamped on an approval plate that must be attached to the diesel powered engine and emission system.

If you have any questions on this approval, please contact me at the above telephone number or e-mail me at [jsbaffoni@state.pa.us](mailto:jsbaffoni@state.pa.us).

Sincerely,

Joseph A. Sbaffoni  
Director  
Bureau of Mine Safety

cc TAC  
D Walker  
A Martin  
M McCaffrey  
R Ceschini  
T Shumaker  
S Gaida  
S Strange  
W Gardner  
P Keruskin  
W Bookshar  
A Gaida