Pennsylvania Technical Advisory Committee On Diesel Powered Equipment



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January 7, 2008

Joseph Sbaffoni, Director Bureau of Mine Safety Fayette County Health Center 100 New Salem Road, Room 167 Uniontown, Pa. 15401

RE: Evaluation and approval of a Deutz BF4M 1013 FC 157 HP engine with an Engine Control Systems Model S-18 Silicon-Carbide Filter in a DBT Model 488D Un-A-Trac for the alternative 90 second test procedure for the 5 minute CO tests

Dear Mr. Sbaffoni:

Article II-A of the Pennsylvania Bituminous Coal Mine Act (the act) provides for the use of diesel-powered equipment in underground bituminous coal mines. Section 224-A of the act created a Technical Advisory Committee ("TAC") for the purpose of advising the Department regarding implementation of Article II-A.

Background

On April 6, 2006, DBT America, Inc. submitted a request to the Bureau of Mine Safety (BMS) for evaluation and approval pursuant to Article II-A of the act of a Deutz BF4M 1013 FC 157HP engine (MSHA Approval No. 07-ENA040007-1) with an S 18 Silicon-Carbide Filter in a DBT Model 488D Un-A-Trac Diesel Scoop. Additionally, DBT America, Inc. requested an alternative test procedure for the five minute carbon monoxide (CO) tests required under Sections 217-A and 218-A of the act. In a letter dated November 20, 2007 Rosebud Mining requested temporary approval to use the scoop before the next regularly scheduled TAC meeting in January 2008.

On July 12, 2006 the Director of BMS requested the TAC to evaluate the diesel power package and to advise the Department regarding the TAC's recommendation as to whether the diesel power package meets the requirements of the act and for the TAC's recommendation on DBT's request for an alternate test procedure for CO testing.

The diesel power package includes the following items:

- Deutz BF4M 1013 FC 157HP engine (MSHA Approval No. 07-ENA040007-1)
- Emissions Control System DBT Management System which includes:
 - o Engine Control Systems Model- AZ29 Oxidation Catalyst
 - o DBT / Cooling Systems 350177 heat exchanger
 - o Engine Control Systems Model-S18 DPM filter (MSHA efficiency rating 85%)
 - o CIC Model 804/D-IL-C4C Flame Arrestor

An investigation and evaluation was conducted on the DBT Model 488D scoop by the TAC and DEP on November 14, 2007 at the DBT facility in Pulaski, Va. The TAC made their recommendation for approval in a letter to the Director on November 21, 2007. The TAC also stated in this letter that the need for the alternate test procedure for CO testing was not identified during their investigation, so the 5 minute test, as required in Sections 217-A and 218-A of the act, was recommended.

In a letter to the Director on December 26, 2007 from Dave Sharkins of Rosebud Mining Company (Attachment 1), he requested the TAC further investigate the need for the alternate test procedure for the CO test. Supporting data was supplied to the TAC in a December 5, 2007 letter by Gene Davis, Diesel Consultant, to the TAC (Attachment 2).

Investigation

On November 14, 2007 the BMS and the TAC traveled to the DBT facilities in Pulaski, Va. to inspect the Un-a-trac. Emissions testing of the engine and after-treatment system were performed, as well as exhaust gas temperature monitoring and stall test procedure. Both the 5 minute and alternate 90 second CO tests were conducted. The results of the emission tests were comparable and showed the engine was performing within MSHA's approval specifications. The results of that test are included in Attachment 4.

In his letter to the TAC on December 5, 2007 there were several points identified by Mr. Davis that the TAC feels are justifiable and provide adequate proof of the need for the alternative 90 second test procedure. It should be noted that DBT did not identify any of these concerns during the investigation on November 14, 2007 and the TAC therefore had no reason to recommend the alternate test. Also during this test both 5 minute tests were conducted back to back with no cooling water on the transmission and the maximum transmission shut down temperature was not exceeded.

In addition to the testing that was conducted, our investigation and our observations confirmed that the diesel power package is capable of meeting all the requirements of Section 203-A of Article II-A of the Act without reducing or compromising the level of health or safety afforded by the Act.

Recommendation

Our recommendation is based on the data provided by DBT, our inspection of the DBT Model 488D Un-a-trac on November 14, 2007 and information provided by Gene Davis in his December 5, 2007 letter to the TAC.

The TAC has determined that the Deutz BF4M 1013 FC 157 HP engine with an Engine Control Systems Model S-18 Silicon-Carbide Filter for use in a DBT Model 488D Un-a-trac scoop satisfies the requirements of Section 203-A of Article II-A of the Pennsylvania Bituminous Coal Mine Act.

Although the diesel powered package can withstand the emissions tests as described in Sections 217-A and 218-A of Article II-A, we recommend approval of the attached Alternative Test Procedure (Attachment 3). Test results of both the required test and the alternate test confirm comparable results and as such we recommend the use of the alternate test.

Paul Borchick



ROSEBUD MINING COMPANY

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December 26, 2007 Bureau of Mine Safety Joseph A, Sbaffoni, Director Fayette County Health Center 100 New Salem Road, Room 167 Uniontown, Pa. 15401

RE: Request the Technical Advisory Committee on Diesel Powered Equipment January 9, 2008 meeting agenda to include our concerns of the five minute stall test of the DBT Model 488D Serial No. 488-2735 temporary approved Diesel Scoop.

Dear Mr. Sbaffoni:

Rosebud Mining Company is requesting the Technical Advisory Committee on Diesel Powered Equipment allow time during the January 9, 2008 meeting to discuss our interest in using the enclosed Alternative Stall Test Procedure for Pa State Act 182, Article II-A Diesel Powered Equipment Alternate Procedure, Section 217-A and 218-A for the Toms Run Mine DBT Model 488D Serial No. 488-2735 temporary approved Diesel Scoop.

Enclosed is a letter for the TAC committee from our diesel consultant Gene Davis addressing his concerns after observing the initial base line test of the scoop December 5, 2007 at the Toms Run Mine.

Also enclosed is the base line of the 488D, the 5 @ 1 minute ECOM printouts, 3 weekly 60, 75 and 90 second readings, Alternative Stall Test Procedure for Pa.

Appreciate a reply if I need to do something different to insure this issue is on the agenda for the January 9, 2007 meeting.

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Sincerely

David C. Sharkins

Rosebud Mining Company

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ATTACHMENT 1

To: Paul Borchick

Ron Bowersox

December 5, 2007

Re: Request for recommendation by the Technical Advisory Committee on Diesel Powered Equipment (TAC).

Dear Sirs:

Rosebud Mining has recently purchased a diesel Powered Scoop from DBT inc. The OEM had previously applied for the alternate emissions test for this piece of equipment which was turned down by your committee. We are requesting your committee to revisit the request for the alternate emissions test. (a copy of the test procedure is attached to this request.) This request is being made for the following reasons:

- The equipment has recently undergone a 5 minute stall test for the purpose of establishing a baseline emission value. During that test the transmissions oil temperature increased to about 290° F. we believe this is temperature will be detrimental for the equipment transmission.
- The ambient temperature during testing was approximately 30° F and still the transmission temperature spiked to 290° F we do not believe we will be able to stall the torque converter for the required 5 minutes without an external cooler except during the coldest time of the year.
- It must also be noted that the OEM has stated that the temperature of 290 to 300°F should not hurt the equipment for the first 6 to 9 months. Rosebud Mining does not believe it reasonable to destroy the transmission to produce a 5 minute torque converter stall.
- We must also inject that Brookville Mining Equipment, which has many pieces of
 equipment approved with the alternate stall test restricts the transmission oil
 temperature to 240°F which is far below the temperature listed above.
- The 5 minute baseline emissions test produced an average CO reading of 80.4 ppm while we noted the 2 minute reading during this test was 80 ppm. We believe these CO reading prove that it is not necessary to stall the torque converter for 5 minutes. (A copy of the actual test is attached)

It is for the above listed reasons that we are requesting the TAC revisit the request for an alternate emissions test for the Rosebud DBT scoop.

Best Regards Gene Davis

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ALTERNATIVE STALL TEST PROCEDURE FOR PA STATE ACT 182, ARTICLE II-A <u>DIESEL-POWERED EQUIPMENT</u>

ALTERNATE PROCEDURE, Section 217-A: (an alternative to items 8 through 14)

- 1. Place the equipment into an intake entry. Make sure no personnel are in front of or behind the equipment during test.
- 2. Set the brakes and chock the wheels.
- 3. Start the diesel engine and allow it to warm up to operating temperature.
- 4. Install the carbon monoxide CO sampling devices into the untreated exhaust gas port provided.
- 5. Allow CO sampling device to stabilize.
- 6. Put the transmission in high gear.
- 7. With brake still applied, put the engine at full throttle to induce converter stall for 90 seconds. Stop test immediately if any controls or indicators are not in their operating range, or if equipment moves while at stall.
- 8. Record three CO readings at 60, 75, and 90-second intervals during converter stall.
- 9. Return engine to low idle and put transmission in neutral. Allow the torque converter temperature to stabilize.
- 10. Take an average of the three readings.
- 11. Comply with record-keeping requirements pursuant to Section 214-A.

ALTERNATIVE PROCEDURE, Section 218-A: (an alternative to items 10-14)

- 1. Place the equipment into an intake entry. Make sure no personnel are in front of or behind the equipment during test.
- 2. Set the brakes and chock the wheels.
- 3. Start the diesel engine and allow it to warm up to operating temperature.
- 4. Install the carbon monoxide CO sampling device into the untreated exhaust gas port provided.
- 5. Allow CO sampling device to stabilize.
- 6. Put the transmission in high gear.
- 7. With brakes still applied, put the engine at full throttle to induce converter stall for 90 seconds. Stop test immediately if any controls or indicators are not in their operating range, or if equipment moves while at stall.
- 8. Record three CO readings at 60, 75, and 90-second intervals during converter stall.
- 9. Return engine to low idle and put transmission in neutral. Allow the torque converter temperature to stabilize.
- 10. Take an average of the three CO readings.
- 11. Install the carbon monoxide CO sampling device into the treated exhaust gas port provided.
- 12. Repeat steps (5) thru (10).
- 13. If CO reading for untreated exhaust gas is greater than twice the baseline established under 217-A(b), or if the CO reading for treated exhaust is greater than 100 ppm, the equipment has failed and must be serviced and retested before it is returned to regular service; and
- 14. Comply with record-keeping requirements pursuant to Section 214-A.

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| V,ZZ,ZZ 19,Z 140 00Z 00 4Z0 0 0 0.0 1E 00.0 000 | | | | | | | | | | | | | | | |
| | | U;22:22 | 10.2 | 140 | 302 | 00 | 440 | | - | J J. | _ /2 | | | | - |

| | | 40.0 | 455 | 004 | 00 | 404 | | | 2.4 | 71 | 63.6 | 99.4 | 4.47 | |
|---|--------------------|--------------|------------|------------|----------|------------|-----|-----|----------------|--------------|--------------|--------------|---------------------------------------|----------------------|
| | 0:22:32 | 16.3 17 | 155 156 | 364 335 | 60 56 | 424 391 | 0 | | | 72 | 63.6 | 99.2 | | |
|) | 0:22:42 0:22:52 | 17.2 | | 325 | 50 | 375 | C | | | 71 | 63.8 | 99.3 | 5.53 | |
| | Time(h:m:s) | | CO(ppm) | | NO2(ppm) | | | | | T Gas(F) | | | | Comments: |
| | 0:23:02 | 17.2 | | 328 | 47 | 375 | Ċ | | | 71 | 63.8 | 99.3 | | start 90 sec raw |
| | 0:23:12 | 14.7 | 136 | 415 | 46 | 461 | C | | | 72 | 63.6 | 99.5 | | |
| | 0:23:22 | 10.6 | | 423 | 44 | 467 | Q | | | 72 | 63.8 | 99.7 | | |
| | 0:23:32 | 10.7 | | 438 | 41 | 479 | 0 | | | 71 71 | 63.8 63.8 | 99.7 99.7 | | |
| | 0:23:42 | 10.6 | | 460 | 40 40 | 500 512 | 0 | | | | 63.9 | 99.7 | | |
| | 0:23:52 0:24:02 | 10.3 10.3 | | 472 478 | 39 | 517 | Č | | | | 63.8 | 99.7 | | |
| | 0:24:02 | 10.3 | | 483 | 38 | 521 | Č | | | | 63.8 | | | |
| | 0:24:22 | 10.3 | | 485 | 38 | 523 | C | | 7.8 | 71 | 63.9 | 99.7 | | |
| | 0:24:32 | 10.3 | | 487 | 37 | 524 | 9 |) 0 | 7.8 | | 63,8 | | | end |
| | 0:24:42 | 10.3 | 82 | 489 | 37 | 526 | . (| | | | 63.8 | | | |
| | 0:24:52 | 11.6 | | 520 | 36 | 556 | 0 | | | | 63.7 | | | |
| | 0:25:02 | 16 | | 479 | 37 | 516 | (| | | | 63.7 64 | | | |
| | 0:25:12 | 16.1 | | 472 | 37 | 509 | (| | | | 64.1 | | | |
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| | 0:25:52 | 18.8 | | 192 | | `222 | Ò | | | | 64.1 | 98.7 | 9.55 | |
| | 0:26:02 | 20,2 | | | | 125 | (|) (| 0.6 | | 64.2 | | | |
| | 0:26:12 | 20.6 | 68 | 64 | | 79 | (| | | | | | | |
| | 0:26:22 | 20.8 | | 50 | | 62 | (| | | | | | | |
| | 0:26:32 | 20.8 | | | | 53 | | | | | | | | |
| | 0:26:42 | 20.8 | | | 8 | 49 43 | | | | | | | | |
| | 0:26:52 | 20.9 20.9 | | | | | | - | | | | | | |
| | 0:27:02 0:27:12 | | | | | | | Š | | | | | | |
| | 0:27:12 | 20.9 | | | | | | |) (| 74 | 64.1 | | | |
| | 0:27:32 | 20.9 | | | | | |) (| | | | | | |
| | 0:27:42 | 21 | 0 | 26 | 5 | | | | | | | | | |
| | 0:27:52 | 21 | | | | | | - |) (| | | | | |
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| | 0:30:32 | 18 | | | | | | | 0 2. | - | | | · · · · · · · · · · · · · · · · · · · | 7 start 90 sec clean |
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| | 0:31:02 | | | | | | | - | 0 7. | - | | | | |
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| | 0:31:32 | | | | | | | | 0 7. | | | | 6 1.9 | 6 |
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