



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF MINE SAFETY

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July 21, 2010

Mr. Arnemann Grender
Johnson Industries, Inc
101 Pine Fork
Pikeville, KY 41501

RE: **Tentative Approval** of the ECS AZ 26 diesel oxidation catalyst in a Johnson Industries Supersteer with a Deutz BF4L2011 74HP (derated) diesel engine.

Dear Mr. Grender:

This letter acknowledges receipt of a July 21, 2010 request from Gene Davis requesting tentative approval to operate a the Johnson Industries Supersteer utilizing the ECS AZ 26 diesel oxidation catalyst for a 100 hour evaluation and test period.

On June 29, 2010 Johnson Industries submitted a request to the Technical Advisory Committee ("TAC") for approval to use an ECS AZ 26 diesel oxidation catalyst as an alternate catalyst in the currently approved Johnson Industries Supersteer with a Deutz BF4L2011 74HP (derated) diesel engine with an ECS AZ 27 diesel oxidation catalyst.

On July 17, 2010 Johnson Industries submitted a request to the TAC to conduct a maximum 100 hour evaluation and test period to evaluate the performance and maintenance requirements on the Johnson Industries Supersteer utilizing the ECS AZ 26 diesel oxidation catalyst. The evaluation period is based on the concern that because the catalyst is physically smaller in size, it may require more frequent cleaning. The 100 hour test period would provide performance results and maintenance requirements.

The TAC recommended approval of the maximum 100 hour evaluation period, with the following stipulations:

- Only one Johnson Industries Supersteer mantrip equipped with the alternate ECS AZ 26 diesel oxidation catalyst may be used for the evaluation.
- The TAC and Bureau of Mine Safety will be notified when the evaluation period begins.
- The evaluation period will be limited to not more than 100 hours of operation, at which time the TAC and Bureau of Mine Safety will be notified.
- Baseline testing, as required by Section 417, will be conducted prior to putting the equipment in service.
- Diagnostic testing, as required in Section 418, and catalyst inspections will be conducted on the Supersteer at approximately 25, 50, 75 and 100 hours of operation, and the results recorded as required by Section 414. These results will be available to the TAC when

they do their investigation. Any cleaning or maintenance required to comply with Chapter 4 will be done before returning the equipment to service.

- The equipment will be removed from service and the evaluation period suspended if any of the testing produces more than 100 ppm of CO as prescribed by Section 418. The TAC will be notified if the equipment is removed from service for this reason.

Based upon the TAC's recommendation, the Bureau *temporarily approves* the use of the ECS AZ 26 diesel oxidation catalyst in a Johnson Industries Supersteer with a Deutz BF4L2011 74HP (derated) diesel engine. This approval is for a 100 hour evaluation period.

The next scheduled meeting of the Diesel Technical Advisory Committee is October 13, 2010, upon which time a formal recommendation will be provided.

Should you have any questions regarding the process, contact my office at 724-439-7469.

Sincerely,



Joseph A. Scaffoni
Director
Bureau of Mine Safety

Enclosures

cc: Ron Bowersox/TAC
Paul Borchick/TAC
Gene Davis /email

bcc: Bookshar
Martin
McCaffrey
Antoon
Gaida
TAC file/Dunn

JAS/WBB/cd

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evaluation test period ECS AZ 26 diesel oxidation catalyst JI Supersteer with Deutz BF4L2011 74HP - cd.doc