



pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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BUREAU OF MINE SAFETY

December 14, 2010

Roger Gibbs
Manager of Engineering
Dry Systems Technologies
8102 Lemont Road, Suite 700
Woodridge, IL 60517

Re: Temporary Approval for Dry Systems Technologies and Gunther-Nash Permissible Model GN 953 diesel end loader / mucker utilizing a 185 HP Cummins C8.3 diesel engine (MSHA Part 7 Approval 07-EPA040001) and a DST M250 (MSHA Part 7A Approval 07-FA050001) emission control package for use at the Enlow Fork – Oak Springs Slope Project.

Dear Mr. Gibbs:

This letter is in response to Mr. Gene Davis' letter dated December 2, 2010 requesting temporary approval prior to the next scheduled TAC Meeting on January 12, 2011 for the above referenced piece of equipment which will be used for the slope development project at Oak Springs.

Temporary Approval is granted for this equipment with the understanding that the General Specification Sheet (Attachment 1) is strictly adhered to. The following additional stipulations apply for this approval:

- This approval is site specific to the Gunther Nash Enlow Fork Oak Springs Slope Project and to the Model GN 953 diesel end loader/mucker.
- Permissibility testing on the engine and emissions control system shall be done as follows:
 1. The DST feeler gage must be used for permissibility on all readily accessible joints and gaskets.
 2. A gage must be installed on the intake system to measure the turbo boost pressure. If the gage shows a reduction in boost pressure of 25% or greater, then it may indicate a leak. In this case, the equipment shall be taken out of service until it can be determined if there is a leak in a permissible fitting.
 3. A gas detector (sniffer) must be used on the exhaust system to check for leaks around joints or gaskets that are not readily accessible. The gas detector may detect CO, NO₂ or other exhaust gasses. When the reading of the specific exhaust gas is above ambient there is indication of a leak. In the case of a leak, the equipment shall be immediately taken out of service until the leak is repaired. All trained diesel mechanics that do the permissibility checks will be trained in the use of the specific gas detector (sniffer) and the procedures to check for leaks using the detector. This training will be recorded. The gas detector will be maintained and calibrated monthly or according to the manufacturer's recommendations.

Temporary approval is granted for this equipment to be used prior to the regular scheduled TAC meeting that is scheduled to be held on January 12, 2011.

Sincerely,

A handwritten signature in black ink, appearing to read "Joseph A. Scaffoni". The signature is written in a cursive style with a large initial "J".

Joseph A. Scaffoni
Director
Bureau of Mine Safety

Enclosure

cc: Ron Bowersox
Paul Borchick
Gene Davis
Roy Gunther

MTM

JAS:MTM:cd

bcc: Martin
McCaffrey
Gaida
Antoon
Bookshar
Dunn/TAC File

\\epmsuns03\bms\$\AdvisoryCommittee\TAC - DIESEL LETTERS BY YEAR\2010\ - Dry Systems Technology - Diesel Gunther Nash Temp
Approval Letter - cd.doc

GUNTHER-NASH INC
MODEL GN 953 LOADER

General Specifications of the Diesel Powered Equipment Package

MSHA Machine Approval	Part 36 Pending
MSHA Diesel Electric	DST, 18-DEA070001
Engine	Cummins C8.3
Horsepower	185 HP (Derated to 150 HP for this application)
Rated Speed	2200 RPM
Manufacturer's Maximum Exhaust Back-pressure	41 inches Water Gage
MSHA Approval (Cat A)	07-EPA040001
MSHA Ventilation Rate	13500 CFM
MSHA Weighted Particulate (DPM)	23.08 gr/hr (384.67 mg/min)
Ambient DPM Exposure	0.040 mg/m ³
MSHA Power Package Approval	DST, 07-FA050001 PART 7A
Catalyst	DST - P/N M90-218-02
Heat Exchanger	DST - P/N M90-301-11
Exhaust Filter	DST - P/N M30-411-01R (96% efficient)

ATTACHMENT 1