

# PERMIT BOOK



Jeremiah W. (Jay) Nixon, Governor • Kip A. Stetzler, Acting Director

## DEPARTMENT OF NATURAL RESOURCES

[www.dnr.mo.gov](http://www.dnr.mo.gov)

OCT 28 2010

CERTIFIED MAIL: 70082810000020165790  
RETURN RECEIPT REQUESTED

Ms. Sarah Hoffman  
Environmental Engineer  
Dyno Nobel - Louisiana  
11025 Highway D  
Louisiana, MO 63353

RE: New Source Review Temporary Permit Request - Project Number: 2010-09-056

Installation ID Number: 163-0031

Temporary Permit Number: 102010-012

Expiration Date: October 31, 2010

Dear Ms. Hoffman:

The Missouri Department of Natural Resources' Air Pollution Control Program has completed a review of your request to install five temporary diesel fired generators and diesel fired boiler at Dyno Nobel - Louisiana, located in Louisiana, Missouri. The Air Pollution Control Program is hereby granting your request to conduct this temporary operation at this location in accordance with Missouri State Rule 10 CSR 10-6.060(3).

Dyno Nobel, Inc. is planning to install five temporary generators and a boiler to supply power to the facility during a maintenance shutdown of the normal power utility, provided by Ashland Hercules, to last approximately one week. There will be three 20 Kilowatt (KW) generators and two 30 KW generators all combusting diesel fuel. The boiler is rated at 6 million British Thermal Units and also will be combusting diesel fuel.

The emission factors for the diesel generators were obtained from Environmental Protection Agency document AP-42, Compilation of Air Pollutant Emission Factors, Fifth Edition, Section 3.3, Gasoline and Diesel Industrial Engines (October 1996). The emissions factors for the boiler were calculated based on the data obtained from the manufacturer's specifications provided by Dyno Nobel, Inc. Potential emissions are calculated at the maximum design rate operating at 8,760 hours annually, although Dyno Nobel, Inc. is expecting to operate the temporary generator for approximately seven (7) days. Since all criteria air pollutant emissions from this project are



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below 100 tons per year, the Air Pollution Control Program is hereby granting your request for the temporary usage of the generators and boiler. However, in order to continue operating the generator past the expiration date, Dyno Nobel, Inc. will need to seek permission from the Air Pollution Control Program.

**Table 1: Emissions Impact from Temporary Generators and Boiler**

Criteria Air Pollutant	Potential Emissions for Boiler (lb/hr)	<sup>2</sup> Projected Emissions (tons)
PM <sub>10</sub> <sup>1</sup>	1.95	0.07
NO <sub>x</sub>	31.16	1.07
SO <sub>x</sub>	1.70	0.06
VOC	2.38	0.08
CO	6.63	0.23
Lead	0.03	1.17E-03
HAPs	0.03	1.10E-03

<sup>1</sup>PM<sub>10</sub> includes both filterable and condensable PM<sub>10</sub> emissions.

<sup>2</sup>Projected Emissions based on 300 hours of operation.

You are still obligated to meet all applicable air pollution control rules, Department of Natural Resources' rules, or any other applicable federal, state, or local agency regulations. Specifically, you should avoid violating 10 CSR 10-6.045 *Open Burning Requirements*, 10 CSR 10-6.220, *Restriction of Emission of Visible Air Contaminants*, 10 CSR 10-3.090 *Restriction of Emission of Odors*, 10 CSR 10-6.170 *Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin*, and 10 CSR 10-3.090, *Restriction of Emission of Odors*; and 10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter From Fuel Burning Equipment Used for Indirect Heating*.

A copy of this letter should be kept with the unit and be made available to Department of Natural Resources' personnel upon verbal request. If you have any questions regarding this determination, please do not hesitate to contact Gerad Fox at the Departments' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102 or by telephone at (573) 75 1-4817. Thank you for your time and attention to this matter.

Sincerely,

AIR POLLUTION CONTROL PROGRAM



for  
James L. Kavanaugh  
Director

JLK:gfl

c: PAMS File: 2010-09-056  
Northeast Regional Office