



Joseph E. Kernan  
Governor

Lori F. Kaplan  
Commissioner

April 19, 2004

100 North Senate Avenue  
P.O. Box 6015  
Indianapolis, Indiana 46206-6015  
(317) 232-8603  
(800) 451-6027  
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TO: Interested Parties / Applicant

RE: National Weather Service Forecast Office / 085-18490-00097

FROM: Paul Dubenetzky  
Chief, Permits Branch  
Office of Air Quality

### Notice of Decision – Approval

Please be advised that on behalf of the Commissioner of the Department of Environmental Management, I have issued a decision regarding the enclosed matter. Pursuant to 326 IAC 2, this approval was effective immediately upon submittal of the application.

If you wish to challenge this decision, IC 4-21.5-3-7 requires that you file a petition for administrative review. This petition may include a request for stay of effectiveness and must be submitted to the Office of Environmental Adjudication, 100 North Senate Avenue, Government Center North, Room 1049, Indianapolis, IN 46204, **within eighteen (18) calendar days from the mailing of this notice**. The filing of a petition for administrative review is complete on the earliest of the following dates that apply to the filing:

- (1) the date the document is delivered to the Office of Environmental Adjudication (OEA);
- (2) the date of the postmark on the envelope containing the document, if the document is mailed to OEA by U.S. mail; or
- (3) The date on which the document is deposited with a private carrier, as shown by receipt issued by the carrier, if the document is sent to the OEA by private carrier.

The petition must include facts demonstrating that you are either the applicant, a person aggrieved or adversely affected by the decision or otherwise entitled to review by law. Please identify the permit, decision, or other order for which you seek review by permit number, name of the applicant, location, date of this notice and all of the following:

- (1) the name and address of the person making the request;
- (2) the interest of the person making the request;
- (3) identification of any persons represented by the person making the request;
- (4) the reasons, with particularity, for the request;
- (5) the issues, with particularity, proposed for considerations at any hearing; and
- (6) identification of the terms and conditions which, in the judgment of the person making the request, would be appropriate in the case in question to satisfy the requirements of the law governing documents of the type issued by the Commissioner.

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178. Callers from within Indiana may call toll-free at 1-800-451-6027, ext. 3-0178.

Enclosures  
FNPER-AM.dot 9/16/03



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

*We make Indiana a cleaner, healthier place to live.*

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April 19, 2004

Mr. Richard L. Smith  
National Weather Service Forecast Office  
7220 NW 101<sup>st</sup> Street, Terrace  
Kansas City, MO 64153

Re: Exempt Construction and Operation Status,  
085-18490-00097

Dear Mr. Smith:

The application from the National Weather Service Forecast Office, received on February 9, 2004, has been reviewed. Based on the data submitted and the provisions in 326 IAC 2-1.1-3, it has been determined that the following emission units, to be located at 7506 East 850 North, Syracuse, Indiana, are classified as exempt from air pollution permit requirements:

- (a) One (1) diesel-fired emergency generator for the office, identified as #48522597, constructed in 1995, with a maximum power output of 125 Kilowatts (168 horse power), operating less than 500 hours per year, and exhausting to the atmosphere.
- (b) One (1) diesel-fired emergency generator for the radar, identified as #294587, constructed in 1995, with a maximum power output of 75 Kilowatts (101 horse power), operating less than 500 hours per year, and exhausting to the atmosphere.
- (c) Two (2) diesel storage tanks, installed in 1995, with maximum capacities of 1,000 and 300 gallons.

The following conditions shall be applicable:

- (1) Pursuant to 326 IAC 5-1-2 (Opacity Limitations) except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following:
  - (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
  - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of 15 minutes (60 readings) in a 6-hour period as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.

This exemption is the first air approval issued to this source.

An application or notification shall be submitted in accordance with 326 IAC 2 to the Office of Air Quality (OAQ) if the source proposes to construct new emission units, modify existing emission units, or otherwise modify the source.

Sincerely,

Original Signed by Paul Dubenetzky  
Paul Dubenetzky, Chief  
Permits Branch  
Office of Air Quality

ERG/YC

cc: File - Kosciusko County  
Kosciusko County Health Department  
Air Compliance – Dave Rice  
Northern Regional Office  
Permit Tracking – Sara Cloe  
Compliance Data Section

**Indiana Department of Environmental Management  
Office of Air Quality**

Technical Support Document (TSD) for an Exemption

**Source Background and Description**

Source Name:	National Weather Service Forecast Office
Source Location:	7506 East 850 North, Syracuse, Indiana 46567
County:	Kosciusko
SIC Code:	1731
Exemption No.:	085-18490-00097
Permit Reviewer:	ERG/YC

The Office of Air Quality (OAQ) has reviewed an application from the National Weather Service Forecast Office relating to the operation of two (2) emergency generators and two (2) diesel storage tanks.

**Permitted Emission Units and Pollution Control Equipment**

There are no permitted emission units and pollution control devices at this source.

**Unpermitted Emission Units and Pollution Control Equipment**

There are no unpermitted emission units operating at this source during this review process.

**Exempted Emission Units and Pollution Control Equipment**

The application includes information relating to the operation of the following equipment:

- (a) One (1) diesel-fired emergency generator for the office, identified as #48522597, constructed in 1995, with a maximum power output of 125 Kilowatts (168 horse power), operating less than 500 hours per year, and exhausting to the atmosphere.
- (b) One (1) diesel-fired emergency generator for the radar, identified as #294587, constructed in 1995, with a maximum power output of 75 Kilowatts (101 horse power), operating less than 500 hours per year, and exhausting to the atmosphere.
- (c) Two (2) diesel storage tanks, installed in 1995, with maximum capacities of 1,000 and 300 gallons.

**Existing Approvals**

This exemption is the first air approval issued to this source.

**Enforcement Issue**

There are no enforcement actions pending.

## Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A complete application for the purposes of this review was received on February 9, 2004. Additional information was received on March 11, 2004 and March 12, 2004.

## Emission Calculations

See Appendix A of this document for detailed emission calculations (Appendix A, page 1).

## Potential to Emit of the Source Before Controls

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as "the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U.S. EPA, the department, or the appropriate local air pollution control agency."

Pollutant	Potential to Emit (tons/yr)
PM	0.15
PM-10	0.15
SO <sub>2</sub>	0.14
VOC	0.17
CO	0.45
NO <sub>x</sub>	2.08

HAPs	Potential to Emit (tons/yr)
Total	Negligible

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) all criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-1.1-1(16)) of a combination of HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (c) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of criteria pollutants is less than 25 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-6.1.
- (d) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of pollutants is less than the levels listed in 326 IAC 2-5.5-1(b), therefore the source is not subject to the provisions of 326 IAC 2-5.5-1.
- (e) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of pollutants is less than the levels listed in 326 IAC 2-1.1-3(d)(1), therefore, the source is subject to the provisions of 326 IAC 2-1.1-3.

- (f) **Fugitive Emissions**  
 Since this type of operation is not in one of the twenty-eight (28) listed source categories under 326 IAC 2-2 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

**County Attainment Status**

The source is located in Kosciusko County.

Pollutant	Status
PM-10	Attainment
SO <sub>2</sub>	Attainment
NO <sub>2</sub>	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Kosciusko County has been designated as attainment or unclassifiable for ozone. Therefore, VOC emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (b) Kosciusko County has been classified as attainment or unclassifiable for all other criteria pollutants. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2. See the State Rule Applicability for the source section.
- (c) **Fugitive Emissions**  
 Since this type of operation is not one of the 28 listed source categories under 326 IAC 2-2 or 2-3 and since there are no applicable New Source Performance Standards that were in effect on August 7, 1980, the fugitive particulate matter (PM) and volatile organic compound (VOC) emissions are not counted toward determination of PSD applicability.

**Source Status**

New Source PSD Definition (emissions after controls, based on 8760 hours of operation per year at rated capacity and/or as otherwise limited):

Pollutant	Emissions (tons/yr)
PM	0.15
PM-10	0.15
SO <sub>2</sub>	0.14
VOC	0.17
CO	0.45
NO <sub>x</sub>	2.08
Single HAP	Negligible
Combination HAPs	Negligible

This new source is not a major stationary source because no attainment pollutant is emitted at a rate of 250 tons per year or greater and it is not in one of the 28 listed source categories. Therefore, pursuant to 326 IAC 2-2, the PSD requirements do not apply.

### **Part 70 Permit Determination**

#### **326 IAC 2-7 (Part 70 Permit Program)**

This new source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons per year.

This is the first air approval issued to this source.

### **Federal Rule Applicability**

- (a) There are no New Source Performance Standards (NSPS) (326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (b) The diesel storage tanks have capacities less than 40 cubic meters (10,560 gallons). Therefore, the New Source Performance Standards for Volatile Organic Liquid Storage Vessels for which construction, reconstruction, or modification commenced after July 23, 1984 (326 IAC 12, 40 CFR 60.110b - 117b, Subpart Kb) are not applicable to these tanks.
- (c) There are no National Emission Standards for Hazardous Air Pollutants (NESHAPs)(326 IAC 14 and 40 CFR Part 63) applicable to this source.

### **State Rule Applicability – Entire Source**

#### **326 IAC 2-2 (Prevention of Significant Deterioration (PSD))**

This source was constructed in 1995 and is not in 1 of the 28 source categories defined in 326 IAC 2-2-1(p)(1). The potential to emit of each criteria pollutant and PM before control is less 250 tons per year. Therefore, this source is not major under 326 IAC 2-2 (PSD).

#### **326 IAC 2-4.1 (New Sources of Hazardous Air Pollutants)**

The source was constructed before July 27, 1997, the effective date of this rule. Therefore, the requirements of 326 IAC 2-4.1 are not applicable.

#### **326 IAC 2-6 (Emission Reporting)**

This source is located in Kosciusko County and the potential to emit of all criteria pollutants is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

#### **326 IAC 5-1 (Opacity Limitations)**

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in the permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.

- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

#### **State Rule Applicability - Emergency Generators**

##### 326 IAC 9-1-2 (Carbon Monoxide Emission Requirements)

This source is not among the listed source categories in 326 IAC 9-1-2. Therefore, the requirements of 326 IAC 9-1-2 are not applicable.

##### 326 IAC 10-1 (Nitrogen Oxide Emission Requirements)

This source is not located in Clark or Floyd County. Therefore, the requirements of 326 IAC 10-1 are not applicable.

#### **State Rule Applicability - Diesel Storage Tanks**

##### 326 IAC 8-9 (Volatile Organic Liquid Storage Vessels)

This source is not located in Clark, Floyd, Lake, or Porter County. Therefore, the requirements of 326 IAC 8-9 are not applicable to the storage tanks at this source.

##### 326 8-4-3 (Petroleum Liquid Storage Facilities)

The fuel storage tanks at this source have capacities less than 39,000 gallons. Therefore, the requirements of 326 IAC 8-4-3 are not applicable to these tanks.

#### **Conclusion**

The operation of these emergency generators and fuel oil storage tanks shall be subject to the conditions of the Exemption No.: 085-18490-0097.

**Appendix A: Emission Calculations  
Internal Combustion Engines**

**From the Two (2) Diesel Emergency Generators**

**Company Name: National Weather Service Forecast Office  
Address: 7506 E 850 N, Syracuse, IN 46567  
Exemption #: 085-18490-00097  
Reviewer: ERG/YC  
Date: March 11, 2004**

Power Output  
Horse Power (HP)

Operation Limit  
hr/yr

269

500

(2 units total)

Emission Factor in lb/HP-hr	Pollutant					
	PM*	PM10*	SO <sub>2</sub>	NO <sub>x</sub>	**VOC	CO
	2.20E-03	2.20E-03	2.05E-03	3.10E-02	2.47E-03	6.68E-03
<b>Potential to Emit in tons/yr</b>	<b>0.15</b>	<b>0.15</b>	<b>0.14</b>	<b>2.08</b>	<b>0.17</b>	<b>0.45</b>

\*Assume PM10 emissions are equal to PM emissions.

\*\* Assume TOC (total organic compounds) emissions are equal to VOC emissions.

Emission factors are from AP-42, Chapter 3.3, Table 3.3-1, SCC #2-02-001-02 and 2-03-001-01 (AP-42 Supplement B, 10/96).

Note: As defined in the September 6, 1995 memorandum from John S. Seitz of US EPA on the subject of "Calculating Potential to Emit for Emergency Generators", an emergency generator's sole function is to provide back-up power when power from the local utility is interrupted. The only circumstances under which an emergency generator would operate when utility power is available are during operator training or brief maintenance checks. The generator's potential to emit is based on an operating time of 500 hours per year as set forth in the EPA memo.

**Methodology**

PTE (tons/yr) = Power Output (HP) x Emission Factor (lb/HP-hr) x Operation Limit (hr/yr) x 1 ton/2000 lbs