



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

TO: Interested Parties / Applicant

DATE: June 20, 2012

RE: NIPSCO – R.M. Schafer Generating Station / 073-31914-00008

FROM: Matthew Stuckey, Branch 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, Suite N 501E, 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.dot12/3/07



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Mr. John. Ross
NIPSCO - R. M. Schahfer Generating Station
801 E. 86th Avenue
Merrillville, IN 46410

June 20, 2012

Re: Approval for a Temporary Operation No. 073-31914-00008 to Part 70 Operating Permit No. 073-6792-00008

Dear Mr. Ross:

On May 21, 2012, NIPSCO - R.M. Schahfer Generating Station submitted a letter informing the Office of Air Quality (OAQ) of their intention to test the effectiveness of a coal additive - NALCO MerControl - at R.M. Schahfer Generating Station Unit 18.

Northern Indiana Public Services Company (NIPSCO) plans to test the effectiveness of a coal additive - NALCO MerControl - at R.M. Schahfer Generating Station Unit 18. The main purpose of the test is to assess the additive's capability to reduce mercury emissions. The use of the additive is experimental in nature and not part of the normal operation of the facility.

The Nalco product being tested is a liquid material and will be injected to the boiler prior to the ESP. There are no additions of solid material in the Nalco tests. In addition, the Nalco product testing consists of only just the liquid and as a result, there will be no emissions from the on-site handling of liquid material for Nalco product. The particulate emissions generated from the liquid material during the process will be controlled by the ESP and there will be negligible particulate emissions. The other particulate emissions from this testing are from the truck traffic used for delivering the materials

The uncontrolled emissions from this temporary operation are less than the PSD significant level of 25 tons per year of PM, 15 tons per year of PM₁₀, 10 tons per year of PM_{2.5}, 100 tons of CO and 40 tons per year, each for NO_x, SO₂ and VOC.

Temporary Operations General Information

Unit:	Dry bottom pulverized coal-fired boiler, Unit 18
Location of the Operation:	2733 E. 1500 North, Wheatfield, IN 46392
County:	Jasper
County Status:	Attainment for all criteria pollutants
Starting Date of the Operation:	June 18, 2012 [326 IAC 2-1.1-3(h)(3)(F)]
Duration of the Operation:	Less than 30 days of total operating time
Activity	Research and Development

Applicable Requirements:

Pursuant to 326 IAC 2-1.1-3(h) (Exemption for Temporary Operations), the above mentioned temporary operations shall satisfy the following requirements:



1. The potential emissions from the operation are less than 25 tons per year for the duration of the operation. [326 IAC 2-1.1-3(h)(3)(A)]
2. The operation is not a major source or modification as defined under 326 IAC 2-2, or 326 IAC 2-7. [326 IAC 2-1.1-3(h)(3)(B)]
3. The purpose of the temporary operation is to:
 - (a) temporarily conduct an operation not considered as part of the normal operation or production of the facility or source. [326 IAC 2-1.1-3(h)(3)(C)(ii)]
4. The duration of the temporary operations is less than 30 days of total operating time. [326 IAC 2-1.1-3(h)(3)(D)]
5. The Permittee shall submit a report containing the following information, at most seven (7) days after the conclusion of the temporary operations: [326 IAC 2-1.1-3(h)(3)(G)]
 - (a) The actual dates of the construction and operation.
 - (b) The duration of the operation.
 - (c) The actual emissions occurring during the operation.
6. The report shall be submitted to:
Indiana Department of Environmental Management
Permits Administration and Support Section
Office of Air Quality
100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204-2251

Expiration Date

The approval for the Temporary Operations expires after 30 days of actual operating time.

IDEM Contact

If you have any questions regarding this approval, please contact Josiah Balogun of my staff at the Indiana Department Environmental Management, Office of Air Quality, 100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, Indiana 46204-2251 or by telephone at (317) 234-5257 or toll free at 1-800-451-6027 extension 4-5257.

Sincerely,



Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Enclosure: Temporary Operations Report

cc: File – Jasper County
Jasper County Health Department
Compliance and Enforcement Branch

**Indiana Department of Environmental Management
Office of Air Quality, Permits Branch
100 North Senate Avenue, MC 61-53 IGCN 1003, Indianapolis, IN 46204-2251**

Temporary operations Report

Source Name: NIPSCO - R. M. Schahfer Generating Station
Source Location: 2733 E. 1500 North, Wheatfield, IN 46392
County Location: Jasper
Experimental Operation: 073-31914-00008

Temporary Operation	
Type of unit/operation:	
Actual starting date of the construction:	
Actual ending date of the construction:	
Actual starting date of the operation:	
Actual ending date of the operation:	
Actual number of days of the operation:	
Calculated emissions during the duration of the operation:	
Additional Comments:	

I certify under penalty of law that this report was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

NIPSCO R.M. Schahfer Unit 15, 17, 18 NALCO/MOBOTEC Additives Project

1. Emission Factors: AP-42

According to AP-42, Chapter 13.2.1 - Paved Roads (1/11), the PM/PM10 emission factors for paved roads can be estimated from the following equation:

$$E = k \times (sL)^a \times (w)^b$$

where:

E = emission factor (lb/vehicle mile traveled)	
sL = road surface silt loading (g/m ²) =	7.0 (g/m ²)
empty vehicle weight (tons) =	15.0 tons
loaded vehicle weight (tons) =	40.0 tons
w = mean vehicle weight (tons) =	27.5 tons
k = empirical constant for PM-30=	0.011 lb/VMT
k = empirical constant for PM-10=	0.0022 lb/VMT
k = empirical constant for PM-2.5=	0.00054 lb/VMT
a = empirical constant =	0.91
b = empirical constant =	1.02

No consideration is included here for number of "wet" days in a year.

PM Emission Factor (trucks) =	$0.011 \times (7.0)^{0.91} \times (24.6)^{1.02} =$	1.90 lbs/mile
PM10 Emission Factor (trucks) =	$0.0022 \times (7.0)^{0.91} \times (24.6)^{1.02} =$	0.38 lbs/mile
PM2.5 Emission Factor (trucks) =	$0.00054 \times (7.0)^{0.91} \times (24.6)^{1.02} =$	0.09 lbs/mile
Length of Paved Roads in One Direction =		1.89 miles

2. Potential to Emit (PTE) of PM/PM10 Before Control from Paved Roads:

NALCO - Maximum Trial Throughput 5 tons

Vehicle Type	Maximum Trucks Per Year	Average Vehicle Weight (tons)	Total Trip Number (trips/yr)	Vehicle Mile Traveled Return Trips(VMT) (miles/yr)	PTE of PM (tons/yr)	PTE of PM10 (tons/yr)	PTE of PM2.5 (tons/yr)
Covered Trucks for Single Unit	1	25.0	1	4	0.0036	0.0007	0.0002
Total for Unit 15, 17, 18					0.0108	0.0022	0.0005

Methodology

Average Vehicle Weight (ton) = (Weight of Unloaded Vehicles + Weight of Loaded Vehicles) / 2

Total Trip Number (trips/yr) = Maximum Yearly Throughput / 25 tons per load

VMT (miles/yr) = Length of Paved Roads in One Direction (miles) x 2 x Total Trip Number (trips/yr)

PTE of PM/PM10 (tons/yr) = VMT (miles/yr) x Emission Factor (lbs/mile) x 1 tons/ 2000 lbs



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SENT VIA U.S. MAIL: CONFIRMED DELIVERY AND SIGNATURE REQUESTED

TO: John M. Ross
NIPSCO - R.M. Schahfer Generating Station
801 E 86th Ave
Merrillville, IN 46410

DATE: June 20, 2012

FROM: Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

SUBJECT: Final Decision
Title V
073-31914-00008

Enclosed is the final decision and supporting materials for the air permit application referenced above. Please note that this packet contains the original, signed, permit documents.

The final decision is being sent to you because our records indicate that you are the contact person for this application. However, if you are not the appropriate person within your company to receive this document, please forward it to the correct person.

A copy of the final decision and supporting materials has also been sent via standard mail to:
OAQ Permits Branch Interested Parties List

If you have technical questions regarding the enclosed documents, please contact the Office of Air Quality, Permits Branch at (317) 233-0178, or toll-free at 1-800-451-6027 (ext. 3-0178), and ask to speak to the permit reviewer who prepared the permit. If you think you have received this document in error, please contact Joanne Smiddie-Brush of my staff at 1-800-451-6027 (ext 3-0185), or via e-mail at jbrush@idem.IN.gov.

Final Applicant Cover letter.dot 11/30/07

Mail Code 61-53

IDEM Staff	CDENNY 6/20/2012 NIPSCO - R.M. Schahfer Generating Station 073-31914-00008 (final)		AFFIX STAMP HERE IF USED AS CERTIFICATE OF MAILING
Name and address of Sender		Indiana Department of Environmental Management Office of Air Quality – Permits Branch 100 N. Senate Indianapolis, IN 46204	
			TYPE OF MAIL: CERTIFICATE OF MAILING ONLY

Line	Article Number	Name, Address, Street and Post Office Address	Postage	Handling Charges	Act. Value (If Registered)	Insured Value	Due Send if COD	R.R. Fee	S.D. Fee	S.H. Fee	Rest. Del. Fee
											Remarks
1		John M. Ross NIPSCO - R.M. Schahfer Generating Station 801 E 86th Ave Merrillville IN 46410 (Source CAATS)									
2		Philip W Pack NIPSCO - R.M. Schahfer Generating Station 801 E 86th Ave Merrillville IN 46410 (RO CAATS)									
3		State Senator District 7 P.O. Box 766 Monticello IN 47960 (Legislator)									
4		State Representative District 16 P.O. Box 1 Rensselaer IN 47978 (Legislator)									
5		Jasper County Commissioners 115 W. Washington Street Rensselaer IN 47978 (Local Official)									
6		Jasper County Health Department 105 W. Kellner St Rensselaer IN 47978-2623 (Health Department)									
7		Wheatfield Town Council 170 S Grace Street Wheatfield IN 46392 (Local Official)									
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10											
11											
12											
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14											
15											

Total number of pieces Listed by Sender	Total number of Pieces Received at Post Office	Postmaster, Per (Name of Receiving employee)	The full declaration of value is required on all domestic and international registered mail. The maximum indemnity payable for the reconstruction of nonnegotiable documents under Express Mail document reconstructing insurance is \$50,000 per piece subject to a limit of \$50, 000 per occurrence. The maximum indemnity payable on Express mil merchandise insurance is \$500. The maximum indemnity payable is \$25,000 for registered mail, sent with optional postal insurance. See Domestic Mail Manual R900, S913, and S921 for limitations of coverage on inured and COD mail. See International Mail Manual for limitations o coverage on international mail. Special handling charges apply only to Standard Mail (A) and Standard Mail (B) parcels.
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