



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
MC 61-53 IGCN 1003
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
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March 13, 2012

Thomas Mitchell
ANR Pipeline Co.
4715 Traders Way, Ste 110
Thompson's Station, TN 37179

Re: Approval for a Temporary Operation No.
145-31530-00011 to Part 70 operating
No. T 145-28774-00011

Dear Mr. Mitchell:

On February 22, 2012, ANR Pipeline Co., Shelbyville Compressor Station submitted a letter informing the Office of Air Quality (OAQ) of their intention to conduct a temporary operation.

Trans Canada intends to conduct testing on Engine 907 (Emission Unit E07). The testing will utilize a different Low Emission Combustion (LEC) engine design, which consists of precombustion chambers, sparkplug reconfiguration and control system software changes to determine if the NOx emissions are lower than the existing LEC configuration.

The uncontrolled emissions from the emission units for PM, PM10, PM2.5, VOC, CO, NOx and Pb are less than the PSD significant levels of 25, 15, 10, 40, 100, 40 and 0.6 tons per year, respectively.

Temporary Operations General Information

Units	Engine 907 (Emission Unit E07)
Location of the Operation:	5500 Smithland Road, Shelbyville IN 46176
County:	Shelby
County Status:	Attainment for all criteria pollutants
Starting Date of the Operation:	March 05, 2012
Duration of the Operation:	Less than 30 days of total operating time
Activity:	Testing Low Emission Combustion (LEC) on the engine to determine NOx emission.

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

Expiration Date

The approval for the Temporary Operation expires after 30 days of total operating time.

IDEM Contact

If you have any questions regarding this approval, please contact Anh Nguyen 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) 233-5334 or toll free at 1-800-451-6027 extension 3-5334.

Sincerely,



Matt Stuckey, Branch Chief
Permits Branch
Office of Air Quality

Enclosure: Temporary Operations Report

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

**Appendix A: Emission Calculations
Natural Gas-fired Reciprocating Engines**

Company Name: ANR Pipeline - Shelbyville Compressor Station
Address City IN Zip: 5500 Smithland Road, Marietta, IN 46176
Temporary Operation No.: 145-31530-00011
Permit No.: T 145-28774-00011
Reviewer: Anh Nguyen
Date: 2/27/12

Operational Flexibility Change

ANR Shelbyville Compressor Station

Operation Permit Renewal No: T 145-28774-00011

Engine 907 Testing

Actual-To-Projected-Actual (ATPA) Applicability Test

Only NOx and PM2.5 are evaluated. All other pollutants, including GHGs are not expected to change pre-project to post-project per the project description.

$$PEI = PAE - BAE - EE$$

Where:

PEI = Project Emissions Increase: the PSD significant emission rate threshold for NOx is 40 tons per year.

BAE = Baseline Actual Emissions: for the affected unit, average actual emissions (tons per year) for any consecutive 24-month period within the 10-year period immediately preceding the date ANR begins construction on the subject project.

PAE = Projected Actual Emissions: for the affected unit, maximum emissions (tons per year) projected for any one year in the five year period after the project.

EE = Excludable Emissions: for the affected unit, emissions following the project (tons per year) that the unit could have accommodated in the period selected for BAE and that are otherwise unrelated to the project (e.g., demand growth-related emissions).

Assumptions:

EE = 0 - conservative simplifying assumption

BAE = 0 - conservative simplifying assumption

Post project NOx emission factor = 4976.07 lbs/mmscft, the same as pre-LEC.

Testing will last no longer than 400 hours

	NOx
Emission Factor	4976.07 lbs/mmscft
Conversion Factor	1.00E-06 mmscft/scft
Fuel Use	18500 scft/hr
Operating Hours	400 hrs
Conversion Factor	0.0005 lbs/ton
PAE	18.41 tons
PAE	18.41 tons
BAE	0 tons
EE	0 tons
PEI*	18.41 tons
Significance Threshold	40 tons

* PEI of both NOx and NOx as a precursor to PM2.5

Mail Code 61-53

IDEM Staff	MIDENNEY 3/13/2012 ANR Pipeline Company - Shelbyville Stati 145-31530-00011 (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	

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1		Thomas Mitchell ANR Pipeline Company - Shelbyville Stati 717 Texas St Houston TX 77002 (Source CAATS)										
2		Shelbyville City Council and Mayors Office 44 West Washington Shelbyville IN 46176 (Local Official)										
3		Shelby County Commissioners 25 West Polk Shelbyville IN 46176 (Local Official)										
4		Shelby County Health Department 1600 E. SR 44B Shelbyville IN 46176 (Health Department)										
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