

Attention:

Natural Gas Pipeline Company of America
Attn: Charles Barker-Compliance Engineer
370 Van Gordon Street
Lakewood, Colorado 80228

State of Illinois

CLEAN AIR ACT PERMIT
PROGRAM (CAAPP) PERMIT

Source:

Natural Gas Pipeline Company of America, Station 110
16648 Illinois Highway 82 South, RFD #4
Geneseo, IL 61254

I.D. No.: 073816AAA
Permit No.: 95120214

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
[Title I and Title V Permit]

Type of Application: Renewal
Purpose of Application: Renew Existing CAAPP Permit for 5 Years

ID No.: 073816AAA
Permit No.: 95120214
Statement of Basis No.: 95120214-1209

Date Application Received: December 23, 2005
Date Issued: November 8, 2012

Expiration Date: November 8, 2017
Renewal Submittal Date: 9 Months Prior November 8, 2017

Source Name: Natural Gas Pipeline Company of America, Station 110
Address: 16648 Illinois Highway 82 South, RFD #4
City: Geneseo
County: Henry
ZIP Code: 61254

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Wei Han at 217/785-1705

Edwin C. Bakowski, P.E.
Manager, Permit Section
Division of Air Pollution Control

ECB:MTR:WH:jws

cc: IEPA, Permit Section
IEPA, FOS, Region 2

Natural Gas Pipeline Company of America
I.D. No.: 073816AAA
Permit No.: 95120214

Date Received: 12/22/2005
Date Issued: 11/8/2012

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Section 1 - Source Information

1. Addresses

Source

Natural Gas Pipeline Company of America,
 Station 110
 16648 Illinois Highway 82 South, RFD #4
 Geneseo, IL 61254

Owner

Natural Gas Pipeline Company of America
 370 Van Gordon Street
 Lakewood, Colorado 80228

Operator

Natural Gas Pipeline Company of America,
 16648 Illinois Highway 82 South, RFD #4
 Geneseo, IL 61254

Permittee

The Owner or Operator of the source as
 identified in this table.

2. Contacts

Certified Officials

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

| | <i>Name</i> | <i>Title</i> |
|-----------------------------|--|------------------------|
| <i>Responsible Official</i> | Dee Bennett | Director of Operations |
| <i>Delegated Authority</i> | No other individuals have been authorized by the IEPA. | N/A |

Other Contacts

| | <i>Name</i> | <i>Phone No.</i> | <i>Email</i> |
|--------------------------|----------------|------------------|---------------------------------|
| <i>Source Contact</i> | Charles Barker | 303/763-3281 | charles_barker@kindermorgan.com |
| <i>Technical Contact</i> | Charles Barker | 303/763-3281 | charles_barker@kindermorgan.com |
| <i>Correspondence</i> | Charles Barker | 303/763-3281 | charles_barker@kindermorgan.com |
| <i>Billing</i> | Charles Barker | 303/763-3281 | charles_barker@kindermorgan.com |

3. Single Source

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

| <i>I.D. No.</i> | <i>Permit No.</i> | <i>Single Source Name and Address</i> |
|-----------------|-------------------|---------------------------------------|
| N/A | N/A | N/A |

Section 2 - General Permit Requirements

1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
 - i. An emergency occurred and the source can identify the cause(s) of the emergency.
 - ii. The source was at the time being properly operated.
 - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
 - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or

upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

3. General Provisions

a. Duty to Comply

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7)(o)(i) of the Act]

b. Need to Halt or Reduce Activity is not a Defense

It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7)(o)(ii) of the Act]

c. Duty to Maintain Equipment

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7)(a) of the Act]

d. Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7)(a) of the Act]

e. Duty to Pay Fees

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7)(o)(vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

f. Obligation to Allow IEPA Surveillance

Pursuant to Sections 4(a), 39.5(7)(a), and 39.5(7)(p)(ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
 - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
 - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

g. Effect of Permit

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
 - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
 - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
 - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

h. Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7)(i) of the Act]

4. Testing

- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of

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any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Owner or Operator: The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the IEPA: The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

5. Recordkeeping

a. Control Equipment Maintenance Records

Pursuant to Section 39.5(7)(b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

b. Retention of Records

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

c. Availability of Records

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee

shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

6. Certification

a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
 - A. The identification of each term or condition of this permit that is the basis of the certification.
 - B. The compliance status.
 - C. Whether compliance was continuous or intermittent.
 - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after September 6, 2012(date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.
- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way

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affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

8. Title I Conditions

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR."
 - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN."
 - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

9. Reopening and Revising Permit

a. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or

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termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]

b. Reopening and Revision

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

c. Inaccurate Application

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

10. Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act]

11. Permit Renewal

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(l) and (o) of the Act]
- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

12. Permanent Shutdown

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item

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of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

13. Startup, Shutdown, and Malfunction

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

Section 3 - Source Requirements

1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

b. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.
- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

c. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or

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demolish pursuant to Condition 3.1(c)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.

- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

d. NESHAP Standards (40 CFR 63 Subpart DDDDD)

Pursuant to 40 CFR 63.7495(b), no later than March 21, 2014, the Permittee must:

- i. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.2(a).
- ii. Have a one-time energy assessment performed at the source by qualified energy assessor as specified in 40 CFR 63 Subpart DDDDD Table 3 Condition 3, pursuant to 40 CFR 63.7500(a)(1). An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in Table 3, satisfies the energy assessment requirement. The energy assessment must include:
 - A. A visual inspection of the boiler or process heater system;
 - B. An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints;
 - C. An inventory of major energy consuming systems;
 - D. A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage;
 - E. A review of the facility's energy management practices and recommendations for improvements consistent with the definition of energy management practices;
 - F. A list of major energy conservation measures;
 - G. A list of the energy savings potential of the energy conservation measures identified; and
 - H. A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

e. Future Emission Standards

Pursuant to Section 39.5(15)(a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

| |
|---|
| 2. Applicable Plans and Programs |
|---|

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive PM Operating Program

Should this source become subject to 35 IAC 212.302, the Permittee shall prepare and operate under a Fugitive PM Operating Program consistent with 35 IAC 212.310 and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). Any future Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the Fugitive PM Operating Program is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the Fugitive PM Operating Program. In the event that the IEPA notifies the Permittee of a deficiency with any Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.

b. PM₁₀ Contingency Measure Plan

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM₁₀ Contingency Measure Plan reflecting the PM₁₀ emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM₁₀ Contingency Measure Plan.

c. Episode Action Plan

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.
- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on April 18 2012, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO₂, PM₁₀, NO₂, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as

required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

d. Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

e. Engine Maintenance Plan (Subpart Q Maintenance Plan)

Pursuant to 35 IAC 217.388(a)(4), an owner or operator of an affected unit must inspect and perform periodic maintenance on the affected unit, in accordance with a Maintenance Plan that documents:

- i. The manufacturer's recommended inspection and maintenance of the applicable air pollution control equipment, monitoring device, and affected unit; or
- ii. If the original equipment manual is not available or substantial modifications have been made that require an alternative procedure for the applicable air pollution control device, monitoring device, or affected unit, the owner or operator must establish a plan for inspection and maintenance in accordance with what is customary for the type of air pollution control equipment, monitoring device, and affected unit.
- iii. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Subpart Q Maintenance Plan, any amendments or revisions to the Subpart Q Maintenance Plan, and the Permittee shall also keep a record of activities completed according to the 35 IAC 217 Subpart Q Maintenance Plan.
- iv. The Subpart Q Maintenance Plan, as submitted by the Permittee on July 3, 2012 is incorporated herein by reference. The document constitutes the formal Subpart Q Maintenance Plan required by 35 IAC 217.388, addressing the actions that will be implemented to maintain these emissions units.

3. Title I Requirements

As of the date of issuance of this permit, there are no source-wide Title I requirements that need to be included in this Condition.

4. Synthetic Minor Limits

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:

Natural Gas Pipeline Company of America
 I.D. No.: 073816AAA
 Permit No.: 95120214

Date Received: 12/22/2005
 Date Issued: 11/8/2012

I. Requirements in Conditions 3.1(a)(i), 3.1(b), 3.1(c), and 3.1(d).

II. Requirements in Condition 3.2(c).

B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).

iii. The deviation reports shall contain at a minimum the following information:

A. Date and time of the deviation.

B. Emission unit(s) and/or operation involved.

C. The duration of the event.

D. Probable cause of the deviation.

E. Corrective actions or preventative measures taken.

iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report.

b. Semiannual Reporting

i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

| <u>Monitoring Period</u> | <u>Report Due Date</u> |
|--------------------------|------------------------|
| January through June | July 31 |
| July through December | January 31 |

ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

c. Annual Emissions Reporting

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

Section 4 - Emission Unit Requirements

4.1 Natural Gas Fired Engines

1. Emission Units and Operations

| Emission Units | Pollutants Being Regulated | Original Construction Date | Modification/ Reconstruction Date | Air Pollution Control Devices or Measures | Monitoring Devices |
|---|--|----------------------------|-----------------------------------|--|--------------------|
| 4250 Hp Natural Gas Engine (09-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1966 | 2007 | LEC Technology and Oxidation Catalyst | Injection Pressure |
| 6875 Hp Natural Gas Engine (10-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1969 | 2003 | None | None |
| 5000 Hp Natural Gas Engine (12-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1986 | 2007 | PreCombustion Chamber, LEC Technology, and Oxidation Catalyst System | Injection Pressure |
| 5000 Hp Natural Gas Engine (13-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1986 | 2007 | PreCombustion Chamber, LEC Technology, and Oxidation Catalyst System | Injection Pressure |
| 5000 Hp Natural Gas Engine (14-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1986 | 2007 | PreCombustion Chamber, LEC Technology, and Oxidation Catalyst System | Injection Pressure |
| 5000 Hp Natural Gas Engine (15-Eng) with High Pressure Fuel Injection | PM, SO ₂ , VOM, CO, NO _x , HAP | Prior to 1986 | 2007 | PreCombustion Chamber, LEC Technology, and Oxidation Catalyst System | Injection Pressure |

2. Applicable Requirements

For the emission units in Condition 4.1.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123 (a), the Permittee shall not cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122.

ii. Periodic Monitoring Compliance Method (Opacity Requirements)

Monitoring Requirements

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on each engine in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the engine, maintenance and repair and/or adjustment of fuel usage. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements

of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping Requirements

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation for opacity conducted. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

b. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to 35 IAC 214.301, the Permittee shall not cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

ii. Periodic Monitoring Compliance Method (SO₂ Requirements)

- A. The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.1.2(g) and the work practice requirement in Condition 4.1.2(h).

c. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to Construction Permit #01030079, the limits on VOM emissions for engine 10-Eng shall not exceed as follows:

- I. 0.5 grams per brake horsepower-hour. [T1]
- II. 7.46 lbs/hr and 32.67 tons/yr. [T1]

- B. Pursuant to Construction Permit #05110051, emissions of VOM from the engines listed in the following table shall not exceed the following limits. [T1]

| Engine | Limits |
|--------|-------------|
| | (Tons/Year) |
| 9 | 32.83 |
| 12 | 30.90 |
| 13 | 30.90 |
| 14 | 30.90 |
| 15 | 30.90 |
| Total | 156.4 |

- C. Pursuant to Construction Permit #05110051, emissions of VOM from each of engines 9-Eng, 12-Eng, 13-Eng, 14-Eng and 15-Eng shall not exceed 0.80 gram/brake horsepower-hour, when operating in the normal load range. [T1]

ii. Periodic Monitoring Compliance Method (VOM Requirements)

- A. The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the record keeping requirements in Condition 4.1.2(g) and 4.1.2(h).

- d. i. **Carbon Monoxide Requirements (CO)**
- A. Pursuant to Construction Permit #05110051, the limits on CO emissions for each of the engines (12-Eng, 13-Eng, 14-Eng, 15-Eng), shall not exceed as follows:
- I. 5.0 grams per brake horsepower-hour. [T1]
- II. 44.1 lbs/hr. [T1]
- B. Pursuant to Construction Permit #01030079, the limits on CO emissions for engine 10-Eng shall not exceed as follows:
- I. 3.0 grams per brake horsepower-hour. [T1]
- II. 45.38 lbs/hr and 198.76 tons/yr. [T1]
- ii. **Periodic Monitoring Compliance Method (CO Requirements)**
- A. The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the record keeping requirements in Condition 4.1.2(g) and 4.1.2(h).
- e. i. **Nitrogen Oxide Requirements (NO_x)**
- A. Pursuant to 35 IAC 217.386(a)(1), engines listed in Condition 4.1.1 are subject to 35 IAC 217 Subpart Q for Stationary Reciprocating Internal Combustion Engines.
- I. Pursuant to 35 IAC 217.388(a)(1)(B), the engines are limited to discharge into the atmosphere of any gases that contain NO_x of no more than 210 ppmv (corrected to 15 percent O₂ on a dry basis).
- II. Pursuant to 35 IAC 217.388(a)(4)(B), the Permittee must inspect and perform periodic maintenance on the engines in accordance with a Maintenance Plan that documents the operator's maintenance procedures for the applicable air pollution control device, monitoring device, and for the engines. This plan has been incorporated in Condition 3.2(e).
- III. The engines shall comply with the applicable NO_x Compliance Requirements of 35 IAC 217.392. Pursuant to 35 IAC 217.392(a), on and after January 1, 2008, the owner or operator of the engines may not operate them unless the requirements of the Subpart Q are met.
- B. Pursuant to Construction Permit #05110051, the limits on NO_x emissions for each of the engines (12-Eng, 13-Eng, 14-Eng, 15-Eng), shall not exceed as follows:
- I. 9.0 grams per brake horsepower-hour. [T1]
- II. 79.4 lbs/hr. [T1]
- C. Pursuant to Construction Permit #01030079, the limits on NO_x emissions for engine 10-Eng shall not exceed as follows:
- I. 4.0 grams per brake horsepower-hour. [T1]
- II. 60.5 lbs/hr and 264.99 tons/yr. [T1]

ii. Periodic Monitoring Compliance Method (NO_x Requirements)

Monitoring Requirements

- A. Pursuant to 35 IAC 217.394(d), except for those years in which a performance test is conducted pursuant to Condition 4.1.2(e)(ii)(D), the Permittee must monitor NO_x concentrations annually, once between January 1 and May 1 or within the first 876 hours of operation per calendar year, whichever is later. If annual operation is less than 876 hours per calendar year, the engines must be monitored at least once every five years. Monitoring must be performed using Method 7E of 40 CFR 60, appendix A, as incorporated by reference in 35 IAC 217.104 and the testing requirements of Condition 7.1.

Note, this monitoring using Method 7E is in lieu of the monitoring of 35 IAC 217.394(d)(1) and (d)(2) as approved by the IEPA on March 21, 2008 as authorized by 35 IAC 217.394(d)(1).

- B. Pursuant to Section 39.5(7)(b) and the approval by the IEPA on March 21, 2008, if the Permittee intends to use a previously submitted protocol for the monitoring required in Condition 4.1.2(e)(ii)(A), a statement of intent to use the protocol shall be included with the 30-day test notification of Condition 7.1(b)(i). If the Permittee intends not to use a previously submitted protocol, a new protocol must be submitted 60 days prior to testing in accordance with Condition 7.1(a).
- C. Pursuant to Sections 39.5(7)(b) and 39.5(7)(d) of the Act, the Permittee must conduct annual calibration and maintenance on the engines as specified in the source's Maintenance Plan. This calibration and maintenance is performed for, but not limited to, fuel pressures, suction and discharge pressures, engine speed, gas and air temperatures, gas meters, air filters and hydraulic pressures.

Testing Requirements

- D. Pursuant to 35 IAC 217.394(b)(1), the Permittee must conduct performance tests on each of the engines pursuant to Conditions 4.1.2(e)(ii)(F) and 7.1 once every five years. Testing must be performed in the calendar year by May 1 or within 60 days after starting operation, whichever is later.
- E. Pursuant to 35 IAC 217.394(b)(2), if the monitoring required in Condition 4.1.2(e)(ii)(A) shows that engines 9-Eng, 10-Eng, 12-eng, 13-Eng, 14-Eng, or 15-Eng are not in compliance with the applicable emissions concentration, the Permittee must report the deviation to the IEPA in accordance with Condition 4.1.5(a) and conduct a performance test pursuant to Conditions 4.1.2(e)(ii)(F) and 7.1 within 90 days of the determination of noncompliance.
- F. Pursuant to 35 IAC 217.394(c), the Permittee must conduct a performance test using Method 7 or 7E of 40 CFR 60, appendix A, as incorporated by reference in 35 IAC 217.104. Each compliance test must consist of three separate runs, each lasting a minimum of 60 minutes. NO_x emissions must be measured while each engine is operating at peak load.

Recordkeeping Requirements

- G. Pursuant to 35 IAC 217.396(a)(1) through (a)(8), the Permittee must maintain records that demonstrate compliance of the engines with the requirements of 35 IAC 217 Subpart Q, which include, but are not limited to:
- I. Identification, type (e.g., lean-burn, gas-fired), and location of the engines.

- II. Calendar date of the record.
 - III. The number of hours each engine operated on a monthly basis and during each ozone season.
 - IV. Type and quantity of the fuel used on a daily basis.
 - V. The results of all monitoring performed on each engine and reported deviations.
 - VI. The results of all tests performed on each engine.
 - VII. The plan for performing inspection and maintenance of the engines, air pollution control equipment, and the applicable monitoring device pursuant to 35 IAC 217.388(a)(4).
 - VIII. A log of inspections and maintenance performed on air emissions, and monitoring device from each engine. These records must include, at a minimum, date, load levels and any manual adjustments, along with the reason for the adjustment (e.g., air to fuel ratio, timing or other settings).
- H. Pursuant to 39.5(7)(b), the Permittee must maintain records of the annual calibration and maintenance for the engines as required in Condition 4.1.2(e)(ii)(c).

f. i. Hazardous Air Pollutant Requirements (HAP)

- A. Future NESHAP Standards (40 CFR 63 Subpart ZZZZ)
- Pursuant to 40 CFR 63.6595(a)(1), no later than October 19, 2013, the source must:
- I. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.3(a).
 - II. Pursuant to 40 CFR 63.6595(a)(1), the engines must comply with the applicable emission limitations and operating limitations; general compliance requirements; testing and initial compliance requirements; continuous compliance requirements; notifications, reports, and records; and other requirements and information of 40 CFR 63 Subpart ZZZZ.
 - III. Must meet the applicable notification requirements of 40 CFR 63.6645 and 40 CFR Part 63 Subpart A.
 - IV. Must meet the applicable reporting requirements of 40 CFR 63.6650.

g. i. Operational or Production Requirements

- A. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only fuel fired by each engine.
- B. Pursuant to Construction Permit #05110051, the Permittee shall operate, calibrate and maintain permanent instrumentation on each of the engines to measure natural gas injection pressure and any other critical operating parameters, i.e., inlet temperature and pressure drop of catalytic conversion system, of the LEC Technology. [T1]
- C. Pursuant to Construction Permit #05110051, the instrumentation required shall be operated and maintained in accordance with good practice for effective operational monitoring. [T1]

D. Pursuant to Construction Permit #01030079, engine 10-Eng shall be operated and maintained with high pressure fuel injection technology for natural gas firing. [T1]

ii. Periodic Monitoring Compliance Method (Operational or Production Requirements)

Recordkeeping Requirements

- A. Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type and amount (mmscf) of fuel fired by and operation hours of each engine on a monthly and annual basis.
- B. Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the emissions of NO_x, CO, VOM, SO₂ and HAP of each engine with supporting calculations (lbs/hr, grams per brake horsepower and tons/year).
- C. Pursuant to Section 39.5(7)(d), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- D. Pursuant to Section 39.5(7)(d), the Permittee shall maintain the following records for required instrumentation:
 - I. A file for each instrument that contains: 1) The manufacturer's specifications for the engine; and 2) The written instructions provided by manufacturer for operation, calibration, maintenance and repair of the engine.
 - II. A log other than records for the instruments, which at a minimum identifies any outage of the instrument, with explanation, and calibration, maintenance and repair activities performed on the system, with date and description.

h. i. Work Practice Requirements

A. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall maintain and operate the engines in a manner consistent with safety and good air pollution control practice for minimizing emissions.

ii. Periodic Monitoring Compliance Method (Work Practice Requirements)

Monitoring Requirements

A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of each engine and associated auxiliary equipment.

Recordkeeping Requirements

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

- a. The engines are not subject to the New Source Performance Standards (NSPS) for Stationary Spark Ignition Combustion Engines, 40 CFR Part 60, Subpart JJJJ, because the engines commenced construction before June 12, 2006 pursuant to 40 CFR 60.4230(a)(4).
- b. The engines are not subject to the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR Part 63, Subpart HHH because:
 - i. The source does not have a natural gas storage facility pursuant to 40 CFR 63.1270(a), and
 - ii. The facility does not contain an affected source, as specified in 40 CFR 63.1270(b) (i.e., a glycol dehydration unit), pursuant to 40 CFR 63.1270(c).
- c. The engines are not subject to 35 IAC 212.321 or 212.322, due to the unique nature of such units, a process weight rate cannot be set so that such rules cannot reasonably be applied, pursuant to 35 IAC 212.323.
- d. The engines are not subject to 35 IAC 215.301, because the engines do not use organic material that would make them subject to 35 IAC 215.301.
- e. The engines are not subject to 35 IAC 216.121, because the engines are not fuel combustion emission units as defined by 35 IAC 211.2470.
- f. The engines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for SO₂, VOM, CO, NO_x or HAPs, because the engines do not use an add-on control device to achieve compliance with an emission limitation or standard.

4. Other Requirements

A. Start-up, Shutdown, and Malfunction Breakdown Requirements

- i. Authorization for State Requirements
 - A. Pursuant to Construction Permit #01030079, the Permittee is authorized to operate engine 10-Eng during startup pursuant to 35 IAC 201.262, as the Permittee has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual starts, and frequency of startups. This authorization is subject to the following:
 - I. It only extends for a period of up to two-hours following initial firing of natural gas during each startup event for the engine. [T1]
 - II. The Permittee shall implement the established startup procedures to minimize startup emissions, the duration of startups and minimize the frequency of startups. [T1]
 - III. The Permittee shall provide the total number of startups for engine Eng-10 in the annual report submitted to the Illinois EPA. [T1]

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:

Natural Gas Pipeline Company of America
I.D. No.: 073816AAA
Permit No.: 95120214

Date Received: 12/22/2005
Date Issued: 11/8/2012

Section 4 - Emission Unit Requirements
4.1 - Natural Gas Fired Boiler

- I. Requirements in Conditions 4.1.2(a)(i), 4.1.2(b)(i), 4.1.2(c)(i), 4.1.2(d)(i), 4.1.2(e)(i), 4.1.2(f)(i), 4.1.2(g)(i), and 4.1.2(h)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.2 Natural Gas Fired Turbine (16-Eng)

1. Emission Units and Operations

| <i>Emission Units</i> | <i>Pollutants Being Regulated</i> | <i>Original Construction Date</i> | <i>Modification/ Reconstruction Date</i> | <i>Air Pollution Control Devices or Measures</i> | <i>Monitoring Devices</i> |
|---|--|-----------------------------------|--|--|---------------------------|
| 10,300 Hp (77.1 mmBtu/Hr Input Heat) Natural Gas Stationary Turbine(16-ENG) | NO _x , SO ₂ , VOM, HAP, PM, CO | 1998 | 2006, 2007, 2009 | None | None |

2. Applicable Requirements

For the emission unit in Condition 4.2.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123 (a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122.

ii. Periodic Monitoring Compliance Method (Opacity Requirements)

Monitoring Requirements

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on turbine 16-Eng in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the turbine, maintenance and repair and/or adjustment of fuel usage. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping Requirements

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation for opacity conducted. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, if required, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

b. i. Particulate Matter Requirements (PM)

A. Pursuant to Construction Permit #97070041, PM emissions from turbine 16-Eng shall not exceed 3.3 lbs/hr and 14.5 tons/yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data. [T1]

ii. Periodic Monitoring Compliance Method (PM Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, monthly emissions of PM from turbine 16-Eng shall be calculated based on fuel consumption and operating data and site-specific emission factors developed from emission test or by other procedures approved by the Illinois EPA.

c. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to 40 CFR 60.333, the Permittee shall comply with one or the other of the following conditions:
- I. Pursuant to 40 CFR 60.1, the provisions of 40 CFR 60 Subpart A apply to turbine 16-Eng.
- II. Pursuant to 40 CFR 60.333, the Permittee shall not cause to be discharged into the atmosphere from the turbine (16-ENG) any gases which contain SO₂ in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis. [40 CFR 60.333(a)]
- B. Pursuant to 35 IAC 214.301, the Permittee shall not cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to excess 2000 ppm.
- C. Pursuant to Construction Permit #97070041, SO₂ emissions from turbine 16-Eng shall not exceed 0.045 Lbs/Hr and 0.197 Tons/Yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data. [T1]

ii. Periodic Monitoring Compliance Method (SO₂ Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.334(b), the Permittee shall monitor the sulfur content of the fuel being fired in turbine 16-Eng unless a custom schedule or other alternative provisions for monitoring are approved by the USEPA.
- B. Pursuant to 40 CFR 60.334(h), the Permittee shall:
- I. Monitor the total sulfur content of the fuel being fired in the turbine, except as provided in paragraph 40 CFR 60.334(h)(3). The sulfur content of the fuel must be determined using total sulfur methods described in 40 CFR 60.335(b)(10). Alternatively, if the total sulfur content of the gaseous fuel during the most recent performance test was less than 0.4 weight percent (4000 ppmw), ASTM D4084-82, 94, D5504-01, D6228-98, or Gas Processors Association Standard 2377-86 (all of which are incorporated by reference-see 40 CFR 60.17), which measure the major sulfur compounds, may be used; and
- II. Notwithstanding the provisions of 40 CFR 60.334(h)(1), the Permittee may elect not to monitor the total sulfur content of the gaseous fuel combusted in the turbine, if the gaseous fuel is demonstrated to meet the definition of natural gas in 40 CFR 60.331(u), regardless of whether an existing custom schedule approved by the administrator for 40 CFR Subpart GG requires such monitoring. The Permittee shall use one of the following sources of information to make the required demonstration:

1. The gas quality characteristics in a current, valid purchase contract, tariff sheet or transportation contract for the gaseous fuel, specifying that the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less; or
 2. Representative fuel sampling data which show that the sulfur content of the gaseous fuel does not exceed 20 grains/100 scf. At a minimum, the amount of fuel sampling data specified in section 2.3.1.4 or 2.3.2.4 of appendix D to 40 CFR Part 75 is required.
- C. Pursuant to 40 CFR 60.334(h)(4)(i)(2), any applicable sulfur content value of the gaseous fuel shall be determined and recorded once per unit operating day. For owners and operators that elect not to demonstrate sulfur content using options in 40 CFR 60.334(h)(3), and for which the fuel is supplied without intermediate bulk storage, the sulfur content value of the gaseous fuel shall be determined and recorded once per unit operating day.

Recordkeeping

- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall:
- I. Record monthly and annual emissions of SO₂ from turbine 16-Eng. Emissions shall be calculated based on fuel consumption, operating data, and site-specific emission factors developed from emission test data or by other procedures approved by the Illinois EPA.
 - II. Determine the heat and sulfur content of the fuels being fired in turbine 16-Eng, with supporting documentation.

d. i. Nitrogen Oxide Requirements (NO_x)

- A. Pursuant to 40 CFR 60.332(a)(2), the Permittee shall not discharge into the atmosphere from the gas turbine, any gases which contain nitrogen oxides in excess of 204 ppm by volume at 15 percent oxygen and on a dry basis.
- B. Pursuant to Construction Permit #97070041, NO_x emissions from turbine 16-Eng shall not exceed 7.96 lbs/hr and 34.86 tons/yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data. [T1]

ii. Periodic Monitoring Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.334(h)(2), the Permittee shall monitor the nitrogen content of the fuel combusted in the turbine, if the owner or operator claims an allowance for fuel bound nitrogen (i.e. , if an F-value greater than zero is being or will be used by the owner or operator to calculate STD in 40 CFR 60.332). The nitrogen content of the fuel shall be determined using methods described in 40 CFR 60.335(b)(9) or an approved alternative by USEPA.
- B. Pursuant to 40 CFR 60.334(h)(4)(i)(2), any applicable nitrogen content value of the gaseous fuel shall be determined and recorded once per unit operating day.
- C. Pursuant to Sections 39.5 (7)(b) and 39.5(7)(d) of the Act, the Permittee must conduct annual calibration and maintenance on turbine 16-Eng as specified in the source's Maintenance Plan. This calibration and maintenance is performed for, but not limited to, fuel pressures, suction

and discharge pressures, turbine speed, gas and air temperatures, gas meters, air filters and hydraulic pressures.

Recordkeeping

- D. Pursuant to 39.5(7)(b), the Permittee shall maintain records of the annual calibration and maintenance for turbine 16-Eng.
- E. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of a file that contains the information including the nitrogen content of the fuel relied upon, if greater than zero, to determine the applicable standard and show compliance with such standard and the hourly emission limit set in this section.

e. i. **Volatile Organic Material Requirements (VOM)**

- A. Pursuant to Construction Permit #97070041, VOM emissions from turbine 16-Eng shall not exceed 0.276 Lbs/Hr and 1.21 tons/yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data. [T1]

ii. Periodic Monitoring Compliance Method (VOM Requirements)

Recordkeeping Requirements

- A. Pursuant to 39.5(7)(b), monthly emissions of VOM from turbine 16-Eng shall be calculated based on fuel consumption and operating data and site-specific emission factors developed from emission test data or by other procedures approved by the Illinois EPA.

f. i. **Carbon Monoxide Requirements (CO)**

- A. Pursuant to Construction Permit #97070041, CO emissions from turbine 16-Eng shall not exceed 9.7 lbs/hr and 42.49 tons/yr. Compliance with annual limits shall be determined on a monthly basis from a running total of 12 months of data. [T1]

ii. Periodic Monitoring Compliance Method (CO Requirements)

Recordkeeping

- A. Pursuant to 39.5(7)(b), monthly emissions of CO from turbine 16-Eng shall be calculated based on fuel consumption and operating data and site-specific emission factors developed from emission test data or by other procedures approved by the Illinois EPA.

g. i. **Hazardous Air Pollutant Requirements (HAP)**

- A. Pursuant to 40 CFR 63.6085, turbine 16-Eng is subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Combustion Turbines, 40 CFR Part 63 Subpart YYYY. However there are no applicable requirements for 16-Eng.

ii. Periodic Monitoring Compliance Method (HAP Requirements)

There are no periodic monitoring requirements that need to be separately addressed because there are no applicable requirements in 40 CFR 63 Subpart YYYY for the turbine.

h. i. **Operational and Production Requirements**

- A. Pursuant to Construction Permit #97070041, pipeline quality natural gas shall be the only fuel fired by turbine 16-Eng. [T1]
 - B. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate the gas turbine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or the USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- ii. Periodic Monitoring Compliance Method (Operational and Production Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of:
 - 1. The type and amount of fuel used by turbine 16-Eng (mmscf), on a monthly and annual basis.
 - 2. Operating hours of turbine 16-Eng (hr/yr).
 - 3. The heat content (Btu/ft³) of fuel fired in turbine 16-Eng.
 - 4. Monthly and annual aggregate NO_x, PM, SO₂, and VOM emissions from the gas turbine shall be maintained, based operating hours, with supporting calculations.
 - 5. Each inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of any maintenance and repair activities that resulted in a modification or reconstruction of the piece of equipment.

i. Work Practice Requirements

- A. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected gas turbine in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or the USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]
- ii. Periodic Monitoring Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of turbine 16-Eng and associated auxiliary equipment.

3. Non-Applicability Determinations

- a. Turbine 16-Eng is not subject to the New Source Performance Standards (NSPS) for Stationary Combustion Turbines, 40 CFR Part 60, Subpart KKKK, because the it did not commence construction, modification, or reconstruction after February 18, 2005 pursuant to 40 CFR 60.4305(a), and is therefore subject to 40 CFR Part 60, Subpart GG for Stationary Gas Turbines.
- b. This permit is issued based on turbine 16-Eng not being subject to the control requirements of 40 CFR 63, Subpart YYYY, the NESHAP for Stationary Combustion Turbines. This is because the turbine was constructed prior January 15, 2003 so that they are considered existing sources for purposes of this NESHAP. [40 CFR 63.6090(b)(4)]
- c. The turbine is not subject to the National Emission Standards for Hazardous Air Pollutants From Natural Gas Transmission and Storage Facilities, 40 CFR Part 63, Subpart HHH because:
 - i. The source does not have a natural gas storage facility pursuant to 40 CFR 63.1270(a), and
 - ii. The facility does not contain an affected source, as specified in 40 CFR 63.1270(b) (i.e., a glycol dehydration unit), pursuant to 40 CFR 63.1270(c).
- d. This permit is issued based on turbine 16-Eng not being subject to the requirements of 35 IAC 212.321 because, due to the nature of such unit, a process weight rate cannot be set so that such rules cannot reasonably be applied, pursuant to 35 IAC 212.323.
- e. Turbine 16-Eng is not subject to 35 IAC 215.301, because it does not use organic material that would make it subject to 35 IAC 215.301.
- f. Turbine 16-Eng is not subject to 35 IAC 216.121 or 217.141 because it is not fuel combustion units, as defined by 35 IAC 211.2470.
- g. Turbine 16-Eng is not subject to 35 IAC 217 Subpart Q because the turbine does not meet the applicability requirements in 35 IAC 217.386.
- h. This permit is issued based on turbine 16-Eng not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for the emissions of NO_x, SO₂ and VOM because it does not use add-on control devices to achieve compliance with an emission limitation or standard.

4. Other Requirements

a. Start-up, Shutdown, and Malfunction Breakdown Requirements

i. Authorization for Federal Requirements

Pursuant to 40 CFR 60.7(b), the Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of turbine 16-Eng.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from

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Date Received: 12/22/2005
Date Issued: 11/8/2012

applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:

- I. Requirements in Conditions 4.2.2(a)(i), 4.2.2(b)(i), 4.2.2(c)(i), 4.2.2(d)(i), 4.2.2(e)(i), and 4.2.2(f)(i), 4.2.2(g)(i), 4.2.2(h)(i), and 4.2.2(i)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.3 Natural Gas Fired Boiler

1. Emission Units and Operations

| Emission Units | Pollutants Being Regulated | Original Construction Date | Modification/ Reconstruction Date | Air Pollution Control Devices or Measures | Monitoring Devices |
|---|----------------------------|----------------------------|-----------------------------------|---|--------------------|
| 8.4 mmBtu/hr Natural Gas Boiler (01-Boil) | PM, CO, HAP | Prior to 1985 | N/A | None | None |

2. Applicable Requirements

For the emission unit in Condition 4.3.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123 (a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122.

ii. Periodic Monitoring Compliance Method (Opacity Requirements)

Monitoring Requirements

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping Requirements

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation for opacity conducted. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

b. i. Hazardous Air Pollutants (HAP)

A. Future NESHAP Standards (40 CFR 63 Subpart DDDDD)

No later than when the postponed date March 21, 2014 for 40 CFR 63 Subpart DDDDD becomes final, the source must:

I. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.2(a).

- II. Pursuant to 40 CFR 63.7500(a)(1) and 40 CFR 63 Subpart DDDDD Table 3, conduct a tune-up of the boiler biannually as specified in 40 CFR 63.7540. Pursuant to 40 CFR 63.7515(e), each biannually tune-up must be no more than 25 months after the previous tune-up. Pursuant to 40 CFR 63.7540(a)(12), if the boiler is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.
- III. Pursuant to 40 CFR 63.7540(a)(10)(i) through 63.7540(a)(10)(v), each biannual tune-up shall consist of:
 - 1. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but must inspect each burner at least once every 36 months).
 - 2. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - 3. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - 4. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - 5. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

ii. Periodic Monitoring Compliance Method (HAP Requirements)

Recordkeeping Requirements

- A. Pursuant to 40 CFR 63.7540(a)(10)(vi)(A) through (C), the Permittee shall maintain records of each tune-up as follows:
 - I. The concentrations of carbon monoxide in the effluent stream in parts per million by volume, and oxygen in volume percent, measured before and after the adjustments of the boiler.
 - II. A description of any corrective actions taken as a part of the combustion adjustment.
 - III. The type and amount of fuel used over the 12 months prior to the annual adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the reporting requirements of 40 CFR 63.7550. See also Condition 4.3.5(b).

- c. i. Operational or Production Requirements
 - A. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only fuel fired in the boiler.
- ii. Periodic Monitoring Compliance Method (Operational or Production Requirements)
Recordkeeping Requirements
 - A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the type of fuel fired in the boiler.
- d. i. Work Practice Requirements
 - A. Pursuant to 40 CFR 63.7500(a)(3) and Section 39.5(7)(a) of the Act, at all times, the Permittee shall operate and maintain the boiler, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the IEPA that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the boiler.
- ii. Periodic Monitoring Compliance Method (Work Practice Requirements)
Monitoring Requirements
 - A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of the boiler and associated auxiliary equipment.
Recordkeeping Requirements
 - B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

| |
|--|
| 3. Non-Applicability Determinations |
|--|

- a. The boiler is not subject to the New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Dc, because the boiler was constructed prior to June 9, 1989 pursuant to 40 CFR Part 60.40(c)(a).
- b. The boiler is not subject to 40 CFR NESHAP Subpart JJJJJJ, because the boiler is a gas-fired boiler as defined in 40 CFR 63.11237, pursuant to 40 CFR Part 63.11195.
- c. The boiler is not subject to 35 IAC 212.206 because the boiler uses natural gas exclusively.
- d. The boiler is not subject to 35 IAC 214.161 because the boiler uses natural gas exclusively.
- e. Pursuant to 35 IAC 215.303, the provisions of 35 IAC 215.301 and 215.302 shall not apply to fuel combustion emission sources.

- f. The boiler is not subject to 35 IAC 216.121 because the boiler does not have an actual heat input greater than 10 mmbtu/hr.
- g. The boiler is not subject to 35 IAC 217.141 because the heat input of the boiler is less than 250 mmBtu/hr.
- h. The boiler is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources for PM, CO and HAP, because the boiler does not use an add-on control device to achieve compliance with an emission limitation or standard.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Conditions 4.3.2(a)(i), 4.3.2(b)(i), 4.3.2(c)(i), and 4.3.2(d)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. Future NESHAP Reporting (40 CFR 63 Subpart DDDDD)

No later than when the postponed date of March 21, 2014 for 40 CFR 63 Subpart DDDDD becomes final, the Permittee must meet the applicable reporting requirements of 40 CFR 63.7550.

Section 5 - Additional Title I Requirements

This Section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this Section.

Section 6 - Insignificant Activities Requirements

1. Insignificant Activities Subject to Specific Regulations

Pursuant to 35 IAC 201.146, the following activities at the source constitute insignificant activities obligated to comply with Sections 9.1(d) and Section 39.5 of the Act; Sections 165, 173, and 502 of the Clean Air Act; or any other applicable permit or registration requirements:

| <i>Insignificant Activity</i> | <i>Number of Units</i> | <i>Insignificant Activity Category</i> |
|--|------------------------|--|
| Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4). | 13 | 35 IAC 201.210(a)(4) |
| Gas turbines and stationary reciprocating internal combustion engine of < 112 kW (150 HP). | 1 | 35 IAC 201.210(a)(15) |
| Gas turbines and stationary reciprocating internal combustion engine of between 1118 and 112 kW (1500 and 150 HP) that is emergency or standby unit. | 1 | 35 IAC 201.210(a)(16) |

a. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements in addition to the applicable requirements in Condition 6.4:

i. National Emission Standards for Hazardous Air Pollutants (NESHAP) - Boiler

A. Future NESHAP Standards for Natural Gas Boilers (40 CFR 63 Subpart DDDDD)

No later than when the postponed effective date of March 21, 2014 for 40 CFR 63 Subpart DDDDD becomes final, the Permittee shall:

- I. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.2(a).
- II. Conduct a tune-up of the boilers biennially as specified in 40 CFR 63.7540, pursuant to 40 CFR 63.7500(a)(1) and 40 CFR 63 Subpart DDDDD Table 3. Pursuant to 40 CFR 63.7515(e), each biennially tune-up must be no more than 25 months after the previous tune-up.
- III. Meet the applicable reporting requirements of 40 CFR 63.7550.

ii. National Emission Standards for Hazardous Air Pollutants (NESHAP) - Engines

A. Future NESHAP Standards for Natural Gas Engines (40 CFR 63 Subpart ZZZZ)

- I. The Permittee shall meet the applicable general provisions of 40 CFR 63 Subpart A no later than October 19, 2013. See Condition 7.2(b).
- II. Pursuant to 40 CFR 63.6595(a)(1), the Permittee shall comply with the applicable emission limitations and operating limitations; general compliance requirements; testing and initial compliance requirements; continuous compliance requirements; notifications, reports, and records; and other requirements and information of 40 CFR 63 Subpart ZZZZ no later than October 19, 2013.

2. Insignificant Activities in 35 IAC 201.210(a)

In addition to any Insignificant Activities identified in Condition 6.1, the following additional activities at the source constitute insignificant activities:

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Date Received: 12/22/2005

Date Issued: 11/8/2012

| <i>Insignificant Activity</i> | <i>Number of Units</i> | <i>Insignificant Activity Category</i> |
|---|------------------------|--|
| Emission unit not emitting more than 1.0 lb/hr of any regulated nono-HAP air pollutant and 0.1 lb/hr of HAP in the absence of air emission control equipment, and not a process unit | 4 | 201.211(a) |
| Emission Units with emissions that never exceed 0.1 lbs/hr or 0.44 tons/year of any regulated air pollutant in the absence of air pollution control equipment and that do not emit any air pollutant listed as hazardous pursuant to Section 112(b) of the Act. | 8 | 35 IAC 201.210(a)(2) and (a)(3) |
| Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4). | 13 | 35 IAC 201.210(a)(4) |
| Storage tanks of virgin or refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil. | 3 | 35 IAC 201.210(a)(11) |
| Gas turbines and stationary reciprocating internal combustion engines < 112 kW (150 HP). | 1 | 35 IAC 201.210(a)(15) |
| Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units. | 1 | 35 IAC 201.210(a)(16) |

3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (28) as being present at the source. The source is not required to individually list the activities.

4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 215.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 215.302, 215.303, 215.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- c. Pursuant to 35 IAC 215.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 250 gal, unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the IEPA according to 35 IAC Part 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2). Exception as provided in 35 IAC 215.122(c): If no odor nuisance exists the limitations of 35 IAC 215.122 shall only apply to the loading of volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

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| 5. Compliance Method |
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Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed.
- b. Potential to emit emission calculations before any air pollution control device for each insignificant activity.

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| 6. Notification Requirements for Insignificant Activities |
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The source shall notify the IEPA accordingly to the addition of insignificant activities:

a. Notification 7 Days in Advance

- i. Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act; for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
 - A. A description of the emission unit including the function and expected operating schedule of the unit.
 - B. A description of any air pollution control equipment or control measures associated with the emission unit.
 - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
 - D. The means by which emissions were determined or estimated.
 - E. The estimated number of such emission units at the source.
 - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act; for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3.
- iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any change made in Condition 6.6(a) above.

b. Notification Required at Renewal

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit. A construction permit is not required.

c. Notification Not Required

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as describe in Condition 6.3, a notification is not required. A construction permit is not required.

Section 7 - Other Requirements

1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
 - i. The name and identification of the emission unit(s) being tested.
 - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
 - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
 - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
 - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
 - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
 - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
 - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but no later than ninety (90) days after completion of the test, unless it is required

otherwise in applicable state or federal statutes or the IEPA may at the discretion of the Compliance Section Manager (or designee) an alternative date is agreed upon in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
 - ii. A summary of results.
 - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
 - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - v. Detailed description of test conditions, including:
 - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
 - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
 - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
 - vii. An explanation of any discrepancies among individual tests or anomalous data.
 - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
 - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
 - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

2. 40 CFR 63 Subpart A, ZZZZ and DDDDD Requirements (NESHAP)

a. 40 CFR 63 Subpart A and DDDDD - Boiler

Pursuant to 40 CFR 63 Subpart A and DDDDD, the Permittee shall comply with the following applicable General Provisions as indicated:

| <i>General Provision Citation</i> | <i>General Provision Applicable?</i> | <i>Subject of Citation</i> | <i>Explanation (if required)</i> |
|-----------------------------------|--------------------------------------|--|--|
| 40 CFR 63.1 | Yes | General Applicability of the General Provisions | |
| 40 CFR 63.2 | Yes | Definitions | |
| 40 CFR 63.3 | Yes | Units and Abbreviations | |
| 40 CFR 63.4 | Yes | Prohibited Activities and Circumvention | |
| 40 CFR 63.5 | Yes | Preconstruction Review and Notification Requirements | |
| 40 CFR 63.6 | Yes | Compliance with Standards and Maintenance Requirements | Except 40 CFR 63.6(e)(1)(i); (e)(1)(ii); (e)(3); (f)(1); (h)(1) |
| 40 CFR 63.7 | Yes | Performance Testing Requirements | Except 40 CFR 63.7(e)(1) |
| 40 CFR 63.8 | Yes | Monitoring Requirements | Except 40 CFR 63.8(c)(1)(i); (c)(1)(iii) |
| 40 CFR 63.9 | Yes | Notification Requirements | |
| 40 CFR 63.10 | Yes | Recordkeeping and Reporting Requirements | Except 40 CFR 63.10(b)(2)(ii); (b)(2)(iv)-(v); (b)(3); (c)(10)-(11); (c)(15); (d)(3); (d)(5) |
| 40 CFR 63.11 | No | Control Device and Work Practice Requirements | |
| 40 CFR 63.12 | Yes | State Authority and Delegations | |
| 40 CFR 63.13 | Yes | Addresses of State Air Pollution Control Agencies and EPA Regional Offices | |
| 40 CFR 63.14 | Yes | Incorporations by Reference | |
| 40 CFR 63.15 | Yes | Availability of Information and Confidentiality | |
| 40 CFR 63.16 | No | Performance Track Provisions | |

b. 40 CFR 63 Subpart A and ZZZZ - Engines

Pursuant to 40 CFR 63 Subpart A and ZZZZ, the Permittee shall comply with the following applicable General Provisions as indicated:

| <i>General Provision Citation</i> | <i>General Provision Applicable?</i> | <i>Subject of Citation</i> | <i>Explanation (if required)</i> |
|-----------------------------------|--------------------------------------|--|--|
| 40 CFR 63.1 | Yes | General Applicability of the General Provisions | |
| 40 CFR 63.2 | Yes | Definitions | |
| 40 CFR 63.3 | Yes | Units and Abbreviations | |
| 40 CFR 63.4 | Yes | Prohibited Activities and Circumvention | |
| 40 CFR 63.5 | Yes | Preconstruction Review and Notification Requirements | |
| 40 CFR 63.6 | Yes | Compliance with Standards and Maintenance Requirements | Except 40 CFR 63.6(e); (f)(1); (h) |
| 40 CFR 63.7 | Yes | Performance Testing Requirements | Except 40 CFR 63.7(e)(1); |
| 40 CFR 63.8 | Yes | Monitoring Requirements | Except 40 CFR 63.8(a)(4); (c)(5); (c)(4); (c)(4)(ii); (c)(6); (f)(6); (g)(5) |
| 40 CFR 63.9 | Yes | Notification Requirements | Except 40 CFR 63.9(f); (g)(2) |
| 40 CFR 63.10 | Yes | Recordkeeping and Reporting Requirements | Except 40 CFR 63.10(b)(2)(i)-(v); (d)(3); (d)(5); (e)(2)(ii); (e)(4) |
| 40 CFR 63.11 | Yes | Control Device and Work Practice Requirements | |
| 40 CFR 63.12 | Yes | State Authority and Delegations | |
| 40 CFR 63.13 | Yes | Addresses of State Air Pollution Control Agencies and EPA Regional Offices | |
| 40 CFR 63.14 | Yes | Incorporations by Reference | |
| 40 CFR 63.15 | Yes | Availability of Information and Confidentiality | |
| 40 CFR 63.16 | No | Performance Track Provisions | |

Section 8 - State Only Requirements

1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

| <i>Pollutant</i> | | <i>Tons/Year</i> |
|--------------------------------|--------------------|------------------|
| Volatile Organic Material | (VOM) | 190.4 |
| Sulfur Dioxide | (SO ₂) | 0.8 |
| Particulate Matter | (PM) | 54.1 |
| Nitrogen Oxides | (NO _x) | 2,184.9 |
| HAP, not included in VOM or PM | (HAP) | --- |
| Total | | 2,430.2 |

Attachment 1 - List of Emission Units at This Source

| <i>Section</i> | <i>Emission Units</i> | <i>Description</i> |
|----------------|---|---|
| 4.1 | 4250 Hp Natural Gas Engine (09-Eng) | Clark TCV-10, 1966 |
| 4.1 | 6875 Hp Natural Gas Engine (10-Eng) | Worthington MLV-14, 1969 |
| 4.1 | 5000 Hp Natural Gas Engine (12-Eng) | Worthington MLV-10, 1986 |
| 4.1 | 5000 Hp Natural Gas Engine (13-Eng) | Worthington MLV-10, 1986 |
| 4.1 | 5000 Hp Natural Gas Engine (14-Eng) | Worthington MLV-10, 1986 |
| 4.1 | 5000 Hp Natural Gas Engine (15-Eng) | Worthington MLV-10, 1986 |
| 4.2 | 10,300 Hp Natural Gas Turbine (16-Eng) | Solar Taurus, 1998 |
| 4.3 | 8.4 mmBtu/hr Natural Gas Boiler (01-Boil) | Providing space heat and steam tracing of lube oil lines for the compressor engines, 1985 |

Attachment 2 - Acronyms and Abbreviations

| | |
|------------------|--|
| acfm | Actual cubic feet per minute |
| ACMA | Alternative Compliance Market Account |
| Act | Illinois Environmental Protection Act [415 ILCS 5/1 et seq.] |
| AP-42 | Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711 |
| ATU | Allotment trading unit |
| BACT | Best Available Control Technology |
| BAT | Best Available Technology |
| BTU | British Thermal Units |
| CAA | Clean Air Act [42 U.S.C. Section 7401 et seq.] |
| CAAPP | Clean Air Act Permit Program |
| CAIR | Clean Air Interstate Rule |
| CAM | Compliance Assurance Monitoring |
| CEMS | Continuous Emission Monitoring System |
| CFR | Code of Federal Regulations |
| CISWI | Commercial Industrial Solid Waste Incinerator |
| CO | Carbon monoxide |
| CO ₂ | Carbon dioxide |
| COMS | Continuous Opacity Monitoring System |
| CPMS | Continuous Parameter Monitoring System |
| dscf | Dry standard cubic foot |
| dscm | Dry standard cubic meter |
| EAF | Electric arc furnace |
| ERMS | Emissions Reduction Market System |
| °F | Degrees Fahrenheit |
| GHG | Green house gas |
| gr | Grains |
| HAP | Hazardous air pollutant |
| Hg | Mercury |
| HMIWI | Hospital medical infectious waste incinerator |
| HP | Horsepower |
| HPFI | High Pressure Fuel Injection |
| hr | Hour |
| H ₂ S | Hydrogen sulfide |
| I.D. No. | Identification number of source, assigned by IEPA |
| IAC | Illinois Administrative Code |
| ILCS | Illinois Compiled Statutes |
| IEPA | Illinois Environmental Protection Agency |
| KW | Kilowatts |
| LAER | Lowest Achievable Emission Rate |

Natural Gas Pipeline Company of America

I.D. No.: 073816AAA

Permit No.: 95120214

Date Received: 12/22/2005

Date Issued: 11/8/2012

| | |
|-------------------|--|
| lb | Pound |
| LEC | Low Emission Control |
| m | Meter |
| MACT | Maximum Achievable Control Technology |
| mm | Million |
| mon | Month |
| MSDS | Material Safety Data Sheet |
| MSSCAM | Major Stationary Sources Construction and Modification (Non-attainment New Source Review) |
| MW | Megawatts |
| NESHAP | National Emission Standards for Hazardous Air Pollutants |
| NO _x | Nitrogen oxides |
| NSPS | New Source Performance Standards |
| NSR | New Source Review |
| PM | Particulate matter |
| PM ₁₀ | Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods |
| PM _{2.5} | Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods |
| ppm | Parts per million |
| ppmv | Parts per million by volume |
| PSD | Prevention of Significant Deterioration |
| PSEU | Pollutant-Specific Emission Unit |
| psia | Pounds per square inch absolute |
| PTE | Potential to emit |
| RACT | Reasonable Available Control Technology |
| RMP | Risk Management Plan |
| scf | Standard cubic feet |
| SCR | Selective catalytic reduction |
| SIP | State Implementation Plan |
| SO ₂ | Sulfur dioxide |
| T1 | Title I - identifies Title I conditions that have been carried over from an existing permit |
| T1N | Title I New - identifies Title I conditions that are being established in this permit |
| T1R | Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit |
| USEPA | United States Environmental Protection Agency |
| VOM | Volatile organic material |

Attachment 3 - Contact and Reporting Addresses

| | |
|---|---|
| <p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #2</p> <p style="text-align: center;">IEPA Permit Section</p> | <p>Illinois EPA, Bureau of Air Compliance & Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276</p> <p>Phone No.: 217/782-2113</p> |
| | <p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, IL 60016</p> <p>Phone No.: 847/294-4000</p> |
| | <p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, IL 62794-9276</p> <p>Phone No.: 217/782-2113</p> |
| | <p>Illinois EPA, Bureau of Air Regional Office #2 5415 North University Peoria, IL 61614</p> <p>Phone No.: 309/693-5462</p> |
| | <p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, IL 62794-9506</p> <p>Phone No.: 217/782-2113</p> |
| <p style="text-align: center;">USEPA Region 5 - Air Branch</p> | <p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, IL 60604</p> <p>Phone No.: 312/353-2000</p> |

Attachment 4 - Example Certification by a Responsible Official

| SIGNATURE BLOCK | |
|---|--------------------|
| NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE. | |
| I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H)) | |
| AUTHORIZED SIGNATURE: | |
| BY: _____ | _____ |
| AUTHORIZED SIGNATURE | TITLE OF SIGNATORY |
| _____ | _____/_____/_____ |
| TYPED OR PRINTED NAME OF SIGNATORY | DATE |

Natural Gas Pipeline Company of America
I.D. No.: 073816AAA
Permit No.: 95120214

Date Received: 12/22/2005
Date Issued: 11/8/2012