DRAFT/PROPOSED CAAPP PERMIT
June 19, 2012

Attention:

Panhandle Eastern Pipe Line Company, LP
Attn: Marc Phillips
5051 Westheimer Road
Houston, Texas 77056

State of Illinois

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Source:

Pleasant Hill (PEPL) Compressor Station
14931 State Highway 96,
Pleasant Hill, Illinois 62366

I.D. No.: 149820AAB
Permit No.: 95120052

Permitting Authority:

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

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Type of Application:	Renewal
Purpose of Application:	Renew Existing CAAPP Permit for 5 Years
ID No.:	149820AAB
Permit No.:	95120052
Statement of Basis No.:	95120052-1204
Date Application Received:	June 05, 2009
Date Issued:	TBD
Expiration Date:	TBD
Renewal Submittal Date:	9 Months Prior to TBD
Source Name:	Panhandle Eastern Pipe Line Company, LP
Address:	4 ½ Miles S.E. Atlas on Highway 96
City:	Pleasant Hill
County:	Pike
ZIP Code:	62366

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 Rosario Johnstone at 217/785-1705.

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

ECB:MTR:RJ:psj

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

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Section 1 – Source Information

1. Addresses

Source

Panhandle Eastern Pipe Line Company, LP
Pleasant Hill Compressor Station
14931 State Highway 96
Pleasant Hill, Illinois 62366

Owner

Panhandle Eastern Pipe Line Company, LP
5051 Westheimer
Houston, Texas 77056

Operator

Panhandle Eastern Pipe Line Company, LP
5051 Westheimer
Houston, Texas 77056

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.

	Name	*Title*
Responsible Official	Jim Kerns	VP Operations, Central Division
Delegated Authority	No other individuals have been authorized by the IEPA.	N/A

Other Contacts

	Name	*Phone No.*	*Email*
Source Contact	Jesse Hudnall	913/906-1560	Jesse.hudnall@sug.com
Technical Contact	Marc Phillips	713/989-7464	Marc.phillips@sug.com
Correspondence	Marc Phillips	713/989-7464	Marc.phillips@sug.com
Billing	Marc Phillips	713/989-7464	Marc.phillips@sug.com

3. Single Source

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

I.D. No.	*Permit No.*	*Single Source Name and Address*
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. <u>Effect of Permit</u>

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. <u>Severability Clause</u>

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

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 _____ (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

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

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

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 particular 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

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 source 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 on the source as specified in 40 CFR 63 Subpart DDDDD Table 3 Condition 3, pursuant to 40 CFR 63.7500(a)(1).

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. PM_{10} Contingency Measure Plan

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM_{10} Contingency Measure Plan reflecting the PM_{10} 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 PM_{10} 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 February 02, 2010 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 SO_2, PM_{10}, NO_2, 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).

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:

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 Report 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 required by Condition 3.5(b).

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.

Monitoring Period	Report Due Date
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 Engines(Subject to 35 IAC 217 Subpart Q)

1. Emission Units and Operations

Emission Units	*Pollutants Being Regulated*	*Original Construction Date*	*Modification/ Reconstruction Date*	*Air Pollution Control Devices or Measures*	*Monitoring Devices*
2,400 HP Natural Gas Engine (1013)	SO_2, HAP, NO_x	1947	N/A	None	None
3,400 HP Natural Gas Engine (1015) with Low Emissions Combustion Technology	SO_2, HAP, NO_x	1963	N/A	None	None
3,400 HP Natural Gas Engine (1016) with Low Emissions Combustion Technology	SO_2, HAP, NO_x	1964	N/A	None	None
3,400 HP Natural Gas Engine (1017) with Low Emissions Combustion Technology	SO_2, HAP, NO_x	1966	N/A	None	None

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. <u>Opacity Requirements</u>

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. <u>Compliance Method (Opacity Requirements)</u>

Monitoring

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 engines, 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

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 (SO_2)

A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

ii. Compliance Method (SO_2 Requirements)

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(e) and the work practice requirement in Condition 4.1.2(f).

c. i. Nitrogen Oxide Requirements (NO_x)

Pursuant to 35 IAC 217.386(a)(1), the engines are subject to 35 IAC 217 Subpart Q for Stationary Reciprocating Internal Combustion Engines:

A. Pursuant to 35 IAC 217.388(a)(2)(A), the engines shall comply with an emissions average plan as set forth in Section 35 IAC 217.390 (Condition 4.1.2(c)(i)(B)).

B. I. Pursuant to 35 IAC 217.390(a)(1)(A)(i), the engines may be included in only one emissions averaging plan as follows: units located at multiple sources in Illinois to address compliance for units identified in 35 IAC 217.386(a)(1), so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations.

II. Pursuant to 35 IAC 217.390(b)(1) and (b)(2)(A), an owner or operator must submit an emissions averaging plan to the IEPA by the applicable compliance date set forth in 35 IAC 217.392, or by May 1 of the year in which the owner or operator is using a new emissions averaging plan to comply.

1. The plan must include, but is not limited to: the list of affected units included in the plan by unit identification number and permit number and a sample calculation demonstrating compliance using the methodology provided in 35 IAC 217.390(f) (Condition 4.1.2(c)(i)(B)(IV)) for both the ozone season and calendar year.

2. The plan will be effective as follows: an initial plan for units required to comply by January 1, 2008 is effective January 1, 2008.

III. Pursuant to 35 IAC 217.390(c), an owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must include the information from 35 IAC 217.390(b)(1) (Condition 4.1.2(c)(i)(B)(II)) and may change, but is not limited to changing, the group of affected units or reflecting changes in the operation of the affected units. An amended plan must be submitted to the IEPA by May 1 of the applicable calendar year and is effective as set forth in 35 IAC 217.390(b)(2) (Condition 4.1.2(c)(i)(B)(II)). If an amended plan is not received by the IEPA by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.

IV. Pursuant to 35 IAC 217.390(d)(1), (d)(2), and (d)(3), notwithstanding 35 IAC 217.390(c) (Condition 4.1.2(c)(i)(B)(III)), an owner or operator, and the buyer or seller, if applicable:

1. Must submit an updated emissions averaging plan or plans to the IEPA within 60 days if a unit that is listed in an emissions averaging plan is sold or taken out of service.

2. May amend its emissions averaging plan to include another unit within 30 days after discovering that the unit no longer qualifies as an exempt unit pursuant to 35 IAC 217.386(b) or as a low usage unit pursuant to 35 IAC 217.388(a)(3).

3. May submit an updated emissions averaging plan or plans to the IEPA within 60 days after purchasing a new unit to include the new unit.

V. Pursuant to 35 IAC 217.390(e)(1), (e)(2), and (e)(3), an owner or operator must:

1. Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the IEPA pursuant to 35 IAC 217.390(b), (c), or (d) (Condition 4.1.2(c)(i)(B)(II)); the higher of the monitoring or test data determined pursuant to 35 IAC 217.394 (Conditions 4.1.2(c)(ii)(A), (B), (C), and (D)); and the actual hours of operation for the applicable control period.

2. Notify the IEPA by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season.

3. Submit to the IEPA by January 31 following each calendar year, a compliance report containing the information required by 35 IAC 217.396(c)(4) (Condition 4.1.5(b)(iii)).

VI. Pursuant to 35 IAC 217.390(f), the total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x emissions for those units for both the ozone season and calendar year. The equation in 35 IAC 217.390(f) must be used to determine compliance.

VII. Pursuant to 35 IAC 217.390(g), determine actual and allowable NO_x emissions for each unit in the averaging plan, and each fuel used by a unit, using the equations provided.

C. Pursuant to 35 IAC 217.388(a)(4)(B), the owner or operator 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.

D. 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 may not operate the affected engines unless the requirements of this Subpart Q are met.

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(c)(ii)(B), the owner or operator of the engines 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 as follows:

I. A portable NO_x monitor utilizing method ASTM D6522-00, as incorporated by reference in 35 IAC 217.104.

II. NO_x and O_2 concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan, as specified in 35 IAC 217.388.

Testing Requirements

B. Pursuant to 35 IAC 217.394(b)(1), the owner or operator of engines included in the emissions averaging plan must conduct performance tests pursuant to Conditions 4.1.2(c)(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.

C. Pursuant to 35 IAC 217.394(b)(2), if the monitoring required in Condition 4.1.2(c)(ii)(A) shows that engines are not in compliance with the applicable emissions concentration, the owner or operator must report the deviation to the IEPA in writing within 30 days and conduct a performance test pursuant to Conditions 4.1.2(c)(ii)(F) and 7.1 within 90 days of the determination of noncompliance.

D. Pursuant to 35 IAC 217.394(c), the owner or operator 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 the engines are operating at peak load.

Recordkeeping Requirements

E. Pursuant to 35 IAC 217.396(a)(1) through (a)(9), the owner or operator of the engines must maintain records that demonstrate compliance 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 engines 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 engines and reported deviations.

VI. The results of all tests performed on the engines.

VII. The plan for performing inspection and maintenance of 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 the engines' air emissions, monitoring device, and air pollution control device. 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).

IX. If complying with the emissions averaging plan provisions of 35 IAC 217.388(a)(2) and 217.390, copies of the calculations used to demonstrate compliance with the ozone season and annual control period limits, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the IEPA.

d. i. <u>Hazardous Air Pollutant Requirements (HAP)</u>

A. Pursuant to 40 CFR 63.6580, the engines are subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63 Subpart ZZZZ, because the engines are stationary RICE at a major source of HAP emissions. The engines do not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements, because the engines are existing, spark ignition, 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP, pursuant to 40 CFR 63.6590(b)(3)(i).

ii. <u>Compliance Method (HAP Requirements)</u>

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

e. i. <u>Operational and Production Requirements</u>

A. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only fuel fired by each engine.

ii. <u>Compliance Method (Operational and Production Requirements)</u>

Recordkeeping

A. Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type of fuel fired by each engine.

f. i. <u>Work Practice Requirements</u>

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. 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 each engine and associated auxiliary equipment.

Recordkeeping

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 any maintenance and repair activities that 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 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.

c. 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.

d. 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.

e. The engines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the engines do 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 IEPA, Air Compliance Section, within 30 days of deviations from 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 4.1.2(a)(i), 4.1.2(b)(i), 4.1.2(c)(i), 4.1.2(e)(i), and 4.1.2(f)(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.

b. <u>NO_x Reporting for 35 IAC 217 Subpart Q</u>

i. Pursuant to 35 IAC 217.396(c)(1)and (c)(1)(C),the owner or operator must notify the IEPA in writing 30 days and five days prior to testing, pursuant to 35 IAC 217.394(b) (Conditions 4.1.2(c)(ii)(D)). Notwithstanding Condition 7.1(c), not later than 30 days after the completion of the test, submit the results of the test to the IEPA.

ii. Pursuant to 35 IAC 217.396(c)(3), within 90 days after permanently shutting down an engine in an emissions averaging plan, the owner or operator of the unit must withdraw or amend the applicable permit to reflect that the engine is no longer in service.

iii. Pursuant to 35 IAC 217.396(c)(4):

A. By October 31 following the applicable ozone season, the owner or operator must notify the IEPA if he or she cannot demonstrate compliance for that ozone season; and

B. By January 31 following the applicable calendar year, the owner or operator must submit to the IEPA a report that demonstrates the following:

I. For all units that are part of the emissions averaging plan, the total mass of allowable NO_x emissions for the ozone season and for the annual control period.

II. The total mass of actual NO_x emissions for the ozone season and annual control period for each unit included in the averaging plan.

III. The calculations that demonstrate that the total mass of actual NO_x emissions are less than the total mass of allowable NO_x emissions using equations in 35 IAC 217.390(f) and (g) (Conditions 4.1.2(c)(i)(B)(VI) and (c)(i)(B)(VII)).

IV. The information required to determine the total mass of actual NO_x emissions and the calculations performed in 35 IAC 217.390(c)(4)(B)(iii).

4.2 Natural Gas Engine

1. Emission Units and Operations

Emission Units	*Pollutants Being Regulated*	*Original Construction Date*	*Modification/ Reconstruction Date*	*Air Pollution Control Devices or Measures*	*Monitoring Devices*
2,400 HP Natural Gas Engine (1014)	SO_2, HAP, NO_x	1950	N/A	None	None

2. Applicable Requirements

For the emission units 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. <u>Opacity Requirements</u>

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. <u>Compliance Method (Opacity Requirements)</u>

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the 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

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. <u>Sulfur Dioxide Requirements (SO_2)</u>

A. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

ii. Compliance Method (SO_2 Requirements)

The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.2.2(d) and the work practice requirement in Condition 4.2.2(e).

c. i. Hazardous Air Pollutant Requirements (HAP)

A. Pursuant to 40 CFR 63.6580, the engine is subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines, 40 CFR Part 63 Subpart ZZZZ, because the engine is a stationary RICE at a major source of HAP emissions. The engine does not have to meet the requirements of 40 CFR 63 Subpart ZZZZ and Subpart A, including initial notification requirements, because the engine is an existing, spark ignition, 2 stroke lean burn (2SLB) stationary RICE with a site rating of more than 500 brake HP, pursuant to 40 CFR 63.6590(b)(3)(i).

ii. 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 ZZZZ for the engine.

d. i. Operational and Production Requirements

A. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only fuel fired by the engine.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

A. Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type of fuel fired by the engine.

e. i. Work Practice Requirements

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

ii. 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 the engine and associated auxiliary equipment.

Recordkeeping

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 any maintenance and repair activities that resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

a. The engine is not subject to the New Source Performance Standards (NSPS) for Stationary Spark Ignition Combustion Engines, 40 CFR Part 60 Subpart JJJJ, because the engine commenced construction before June 12, 2006 pursuant to 40 CFR 60.4230(a)(4).

b. The engine is 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.

c. The engine is not subject to 35 IAC 215.301, because the engine does not use organic material that would make them subject to 35 IAC 215.301.

d. The engine is not subject to 35 IAC 216.121, because the engine is not fuel combustion emission unit as defined by 35 IAC 211.2470.

e. The engine is not subject to 35 IAC 217 Subpart Q because the engine is not applicable to 35 IAC 217.386(a)(1) because the engine is not listed in Appendix G of 35 IAC 217.

f. The engine is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the engine 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. <u>Prompt Reporting</u>

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 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(d)(i), and 4.2.2(e)(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 Turbines (NSPS GG)

1. Emission Units and Operations

Emission Units	*Pollutants Being Regulated*	*Original Construction Date*	*Modification/ Reconstruction Date*	*Air Pollution Control Devices or Measures*	*Monitoring Devices*
Natural Gas Fired Turbine-(1018)	SO_2, NO_x, HAP	2001	N/A	None	None
Natural Gas Fired Turbine-(1019)	SO_2, NO_x, HAP	2001	N/A	None	None

2. Applicable Requirements

For the emission units 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. <u>Opacity Requirements</u>

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. <u>Compliance Method (Opacity Requirements)</u>

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the turbines 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

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. <u>Sulfur Dioxide Requirements (SO_2)</u>

A. NSPS Standards (40 CFR 60 Subparts A and GG)

I. Pursuant to 40 CFR 60.1, the provisions of 40 CFR 60 Subpart A apply to the owner or operator.

II. Pursuant to 40 CFR 60.333 (b), no owner or operator shall burn in any stationary gas turbine any fuel which contains total sulfur in excess of 0.8 percent by weight (8000 ppmw).

B. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2000 ppm.

ii. Compliance Method (SO_2 Requirements)

Monitoring

A. Pursuant to 40 CFR 60.334(h)(3)(i), the owner or operator does not need to monitor the total sulfur content of the gaseous fuel combusted in the turbines because the gaseous fuel meets the definition of natural gas in 40 CFR 60.331(u) because the maximum total sulfur content of the fuel is 20.0 grains/100 scf or less as specified in a current, valid purchase contract, tariff sheet, or transportation contract for the gaseous fuel.

Recordkeeping

A. Pursuant to 40 CFR 60.334(h)(3)(i), the owner or operator shall maintain records of the maximum total sulfur content of the fuel as specified in a current, valid purchase contract, tariff sheet, or transportation contract for the gaseous fuel.

c. i. Nitrogen Oxide Requirements (NO_x) – NSPS Standard

A. NSPS Standards (40 CFR 60 Subparts A and GG)

I. Pursuant to 40 CFR 60.1, the provisions of 40 CFR 60 Subpart A apply to the owner or operator.

II. Pursuant to 40 CFR 60.332(a)(2) and 60.332(c), no owner or operator shall cause to be discharged into the atmosphere from any stationary gas turbine, any gases which contain nitrogen oxides in excess of:

$$STD = 0.0150\frac{(14.4)}{Y} + F$$

where:

STD = allowable ISO corrected (if required as given in 40 CFR 60.335(b)(1)) NO_x emission concentration (percent by volume at 15 percent oxygen and on a dry basis).

Y = manufacturer’s rated heat rate at manufacturer's rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NO_x emission allowance for fuel-bound nitrogen as defined in 40 CFR 60.332(a)(4).

ii. Compliance Method (NO_x Requirements)

Monitoring

A. Pursuant to 40 CFR 60.334(c), the requirements of 40 CFR 60.334 have been waived by the USEPA Region V letter issued on July 17, 2001. This waiver is based on the August 17, 1987 USEPA Guidance Memorandum that the nitrogen monitoring is waive when pipeline quality natural gas is used because there is no fuel-gound nitrogen and the free nitrogen does not contribute appreciably to the emission of Nitrogen Oxides.

d. i. Nitrogen Oxide Requirements (NO_x) – 35 IAC 217 Subpart Q

Pursuant to 35 IAC 217.386(a)(1), the turbines are subject to 35 IAC 217 Subpart Q for Turbines:

A. Pursuant to 35 IAC 217.388(a)(2)(A), the turbines shall comply with an emissions average plan as set forth in Section 35 IAC 217.390 (Condition 4.3.2(d)(i)(B)).

B. I. Pursuant to 35 IAC 217.390(a)(1)(A)(i), the turbines may be included in only one emissions averaging plan as follows: units located at multiple sources in Illinois to address compliance for units identified in 35 IAC 217.386(a)(1), so long as the units are owned by the same company or parent company where the parent company has working control through stock ownership of its subsidiary corporations.

II. Pursuant to 35 IAC 217.390(b)(1) and (b)(2)(A), an owner or operator must submit an emissions averaging plan to the IEPA by the applicable compliance date set forth in 35 IAC 217.392, or by May 1 of the year in which the owner or operator is using a new emissions averaging plan to comply.

1. The plan must include, but is not limited to: the list of affected units included in the plan by unit identification number and permit number and a sample calculation demonstrating compliance using the methodology provided in 35 IAC 217.390(f) (Condition 4.3.2(d)(i)(B)(VI)) for both the ozone season and calendar year.

2. The plan will be effective as follows: an initial plan for units required to comply by January 1, 2008 is effective January 1, 2008.

III. Pursuant to 35 IAC 217.390(c), an owner or operator may amend an emissions averaging plan only once per calendar year. An amended plan must include the information from 35 IAC 217.390(b)(1) (Condition 4.3.2(d)(i)(B)(II)) and may change, but is not limited to changing, the group of affected units or reflecting changes in the operation of the affected units. An amended plan must be submitted to the IEPA by May 1 of the applicable calendar year and is effective as set forth in 35 IAC 217.390(b)(2) (Condition 4.3.2(d)(i)(B)(II)). If an amended plan is not received by the IEPA by May 1 of the applicable calendar year, the previous year's plan will be the applicable emissions averaging plan.

IV. Pursuant to 35 IAC 217.390(d)(1), (d)(2), and (d)(3), notwithstanding 35 IAC 217.390(c) (Condition 4.3.2(d)(i)(B)(III)), an owner or operator, and the buyer or seller, if applicable:

1. Must submit an updated emissions averaging plan or plans to the IEPA within 60 days if a unit that is listed in an emissions averaging plan is sold or taken out of service.

2. May amend its emissions averaging plan to include another unit within 30 days after discovering that the unit no longer qualifies as an exempt unit pursuant to 35 IAC 217.386(b) or as a low usage unit pursuant to 35 IAC 217.388(a)(3).

3. May submit an updated emissions averaging plan or plans to the IEPA within 60 days after purchasing a new unit to include the new unit.

V. Pursuant to 35 IAC 217.390(e)(1), (e)(2), and (e)(3), an owner or operator must:

1. Demonstrate compliance for both the ozone season (May 1 through September 30) and the calendar year (January 1 through December 31) by using the methodology and the units listed in the most recent emissions averaging plan submitted to the IEPA pursuant to 35 IAC 217.390(b), (c), or (d) (Condition 4.3.2(d)(i)(B)(II)); the higher of the monitoring or test data determined pursuant to 35 IAC 217.394 (Conditions 4.3.2(d)(ii)(A), (B), (C), and (D)); and the actual hours of operation for the applicable control period.

2. Notify the IEPA by October 31 following the ozone season, if compliance cannot be demonstrated for that ozone season.

3. Submit to the IEPA by January 31 following each calendar year, a compliance report containing the information required by 35 IAC 217.396(c)(4) (Condition 4.3.5(b)(iii)).

VI. Pursuant to 35 IAC 217.390(f), the total mass of actual NO_x emissions from the units listed in the emissions averaging plan must be equal to or less than the total mass of allowable NO_x emissions for those units for both the ozone season and calendar year. The equation in 35 IAC 217.390(f) must be used to determine compliance.

VII. Pursuant to 35 IAC 217.390(g), determine actual and allowable NO_x emissions for each unit in the averaging plan, and each fuel used by a unit, using the equations provided.

C. Pursuant to 35 IAC 217.388(a)(4)(B), the owner or operator must inspect and perform periodic maintenance on the turbines in accordance with a Maintenance Plan that documents the operator's maintenance procedures for the applicable air pollution control device, monitoring device, and affected turbine.

D. The turbines 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 may not operate the affected turbines unless the requirements of this Subpart Q are met.

ii. <u>Periodic Monitoring Compliance Method (NO_x Requirements)</u>

Monitoring Requirements

A. Pursuant to 35 IAC 217.394(d), except for those years in which a performance test is conducted pursuant to Condition 4.3.2(d)(ii)(B), the owner or operator of the turbines 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 turbines must be monitored at least once every five years. Monitoring must be performed as follows:

I. A portable NO_x monitor utilizing method ASTM D6522-00, as incorporated by reference in 35 IAC 217.104.

II. NO_x and O_2 concentrations measurements must be taken three times for a duration of at least 20 minutes. Monitoring must be done at highest achievable load. The concentrations from the three monitoring runs must be averaged to determine whether the affected unit is in compliance with the applicable emissions concentration or emissions averaging plan, as specified in 35 IAC 217.388.

Testing Requirements

B. Pursuant to 35 IAC 217.394(b)(1), the owner or operator of the turbines included in the emissions averaging plan must conduct performance tests pursuant to Conditions 4.3.2(d)(ii)(D) 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.

C. Pursuant to 35 IAC 217.394(b)(2), if the monitoring required in Condition 4.3.2(d)(ii)(A) shows that turbines are not in compliance with the applicable emissions concentration or emission averaging plan, the owner or operator must report the deviation to the IEPA in writing within 30 days and conduct a performance test pursuant to Conditions 4.3.2(d)(ii)(D) and 7.1 within 90 days of the determination of noncompliance.

D. Pursuant to 35 IAC 217.394(c), the owner or operator must conduct a performance test using the applicable procedures and methods in 40 CFR 60.4400, as incorporated by reference in 35 IAC 217.104.

Recordkeeping Requirements

E. Pursuant to 35 IAC 217.396(a)(1) through (a)(9), the owner or operator of the turbines must maintain records that demonstrate compliance 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 turbines.

II. Calendar date of the record.

III. The number of hours the turbines 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 the turbines and reported deviations.

VI. The results of all tests performed on the turbines.

VII. The plan for performing inspection and maintenance of the turbines, 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 the turbines' air emissions, monitoring device, and air pollution control device.

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).

IX. If complying with the emissions averaging plan provisions of 35 IAC 217.388(a)(2) and 217.390, copies of the calculations used to demonstrate compliance with the ozone season and annual control period limits, noncompliance reports for the ozone season, and ozone and annual control period compliance reports submitted to the IEPA.

e. i. <u>Hazardous Air Pollutant Requirements (HAP)</u>

A. Pursuant to 40 CFR 63.6085, the turbines are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines, 40 CFR Part 63 Subpart YYYY, because the turbines are located at major sources of HAP emissions.

ii. <u>Compliance Method (HAP Requirements)</u>

A. Pursuant to 40 CFR 63.6090(a)(1) and (b)(4), because the turbines are existing, commenced construction or reconstruction on or before January 14, 2003, the turbines do not have to meet the requirements of 40 CFR Subpart YYYY and Subpart A. No initial notification is necessary for the turbines.

f. i. <u>Operational and Production Requirements</u>

A. Pursuant to Section 39.5(7)(a) of the Act, pipeline quality natural gas shall be the only fuel fired by the turbines.

B. Pursuant to Construction Permit #00100026, the rated output of each turbine shall not exceed 6,130 hp, ISO rated conditions. [T1]

C. Pursuant to Construction Permit #00100026, natural gas usage from the turbines shall not exceed 46 mmscf/month and 540 mmscf/year. 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). [T1]

ii. <u>Compliance Method (Operational and Production Requirements)</u>

Recordkeeping

A. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the type of fuel fired by the turbines.

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the rated output of each turbine.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the natural gas usage from the turbines (mmscf/month and mmscf/year).

g. i. <u>Work Practice Requirements</u>

A. Pursuant to 40 CFR 60.11(d), at all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any turbine including associated air pollution control equipment 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 IEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

ii. 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 the turbines and associated auxiliary equipment.

Recordkeeping

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 any maintenance and repair activities that resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

a. The turbines are not subject to the New Source Performance Standards (NSPS) for Standards of Performance for Stationary Combustion Turbines, 40 CFR Part 60 Subpart KKKK, because the turbines were constructed prior to February 18, 2005 pursuant to 40 CFR 60.4305(a).

b. The turbines are not subject to 35 IAC 212.321 or 212.322, due to the unique 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.

c. The turbines are not subject to 35 IAC 215.301, because the turbines do not use organic material that would make them subject to 35 IAC 215.301.

d. The turbines are not subject to 35 IAC 216.121, because the turbines are not fuel combustion emission units as defined by 35 IAC 211.2470.

e. The turbines are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the turbines do not use an add-on control device to achieve compliance with an emission limitation or standard.

4. Other Requirements

For the emission units 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. Title I Requirements (Construction Permit #00100026) [T1]

A. Pursuant to Construction Permit #00100026, emissions from each turbine shall not exceed the following limits. The hourly limits on emissions shall not apply during startup of a turbine, when emissions shall be minimized in accordance with Condition 4.3.4(b)(i)(A). 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). [T1]

Nitrogen Oxide		Carbon Monoxide		Volatile Organic Material	
(Lbs/Hour)	(Tons/Year)	(Lb/Hour)	(Tons/Year)	(Lb/Hour)	(Tons/Year)
4.78	25.0	7.11	35.0	0.16	1.31

ii. Compliance Method (Construction Permit 00100026)

Recordkeeping

A. Pursuant to Section 39.5(7)(b) of the Act, in addition to the recordkeeping requirements of natural gas usage in Condition 4.3.2(f)(ii)(C), the Permittee shall maintain records of the NO_x, CO, and VOM emissions from the turbines including supporting calculations (lbs/hour, tons/month, and tons/year).

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

i. Authorization for State Requirements

A. Start-up Requirements

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to operate in violation of the applicable requirements of Condition 4.3.2(a)(i)(A) (Opacity) and the hourly emission limits of Condition 4.3.4(a)(i)(A) during startup. The Permittee shall comply with all applicable requirements in Section 7.3 of this permit.

B. Malfunction Breakdown Requirements

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to continue operation in violation of the applicable requirements of Condition 4.3.2(a)(i)(A) (Opacity) during malfunction breakdown. The Permittee shall comply with all applicable requirements in Section 7.4 of this permit.

c. Operational Flexibility Requirements

Pursuant to Construction Permit #00100026: [T1]

i. This permit authorizes installation of manufacturer supplied replacement components and assemblies for the turbines that takes place either as part of scheduled maintenance of the turbines or in the event of malfunction or unscheduled outage and subsequent repairs. This authorization does not address activities for which a construction permit is not required, such as routine preventive maintenance, minor replacement of turbine components or assemblies, or activities that do not involve, either directly or indirectly, emission-related components or activities that do not involve, either directly or indirectly, emission-related components or assemblies of the turbines.

ii. This authorization is limited to activities that can be accommodated by the original installation of a turbine and in conjunction with an ongoing program of maintenance, repair, and replacement (so as to not constitute a modification of the turbines with respect to the NSPS). The replacement component or assembly must be in good operating condition and come from either a manufacturer or dealer/service provider. This authorization also does not extend to replacement of turbine components or assemblies to such an extent that it would constitute reconstruction with respect to the NSPS or the NESHAP. (Refer to 40 CFR 60 Subpart A and GG (40 CFR 60.14, 60.15, and 60.330 et. seq.) and 40 CFR 63 Subpart A and YYYY. (40 CFR 63.2 and 63.6080 et. seq).

iii. A. This permit does not relax or otherwise revise any requirements and conditions that apply to the operation of the turbines, including applicable emission limits, monitoring, testing, recordkeeping, and reporting requirements of this CAAPP permit, which shall continue to apply to the turbines.

B. This permit also does not excuse the Permittee from any new regulatory requirements that are adopted and applicable to the turbines.

iv. The Permittee shall expeditiously have performance testing conducted on a turbine following replacement of components or assemblies, as required pursuant to the NSPS, 40 CFR 60 Subpart A and GG, if requested by the IEPA or USEPA.

v. The Permittee shall maintain the following records at the source for the replacement activities authorized by this permit:

A. A file containing the paperwork for original and replacement turbine components or assemblies, including documentation for turbine model numbers and serial numbers and copies of the specifications for replacements.

B. Details of activities performed pursuant to this permit including, date that the turbine is removed from the service and the date the turbine is returned to service.

vi. The Permittee shall notify the IEPA prior to carrying out activities pursuant to this Condition 4.3.4(c). This notification shall be submitted at least 15 days in advance or as soon as it is practicable to do so, e.g., in the event of turbine failure. This notification shall include:

A. A description of the activities that are to be performed and the expected schedule for the activities.

B. A confirmation that the activities fall within the authorization provided by this permit, the replacement is or will be in good operating conditions, and the outage of a turbine will not prevent or interfere with compliance with applicable requirements for control of emissions, with supporting information.

C. Confirmation that the proposed activities do not involve reconstruction of a turbine, with explanation and supporting documentation.

vii. The authorization provided by Condition 4.3.4(c) for each turbine will terminate, if the turbine is permanently removed from service or 30 days after notification from the IEPA that this authorization is being terminated, whichever occurs first.

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. <u>Prompt Reporting</u>

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

I. Requirements in Conditions 4.3.2(a)(i) through 4.3.2(g)(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.

b. NO_x Reporting for 35 IAC 217 Subpart Q

i. Pursuant to 35 IAC 217.396(c)(1)and (c)(1)(C),the owner or operator must notify the IEPA in writing 30 days and five days prior to testing, pursuant to 35 IAC 217.394(b) (Conditions 4.3.2(d)(ii)(D)). Notwithstanding Condition 7.1(c), not later than 30 days after the completion of the test, submit the results of the test to the IEPA.

ii. Pursuant to 35 IAC 217.396(c)(3), within 90 days after permanently shutting down a turbine in an emissions averaging plan, the owner or operator of the unit must withdraw or amend the applicable permit to reflect that the turbine is no longer in service.

iii. Pursuant to 35 IAC 217.396(c)(4):

A. By October 31 following the applicable ozone season, the owner or operator must notify the IEPA if he or she cannot demonstrate compliance for that ozone season; and

B. By January 31 following the applicable calendar year, the owner or operator must submit to the IEPA a report that demonstrates the following:

I. For all units that are part of the emissions averaging plan, the total mass of allowable NO_x emissions for the ozone season and for the annual control period.

II. The total mass of actual NO_x emissions for the ozone season and annual control period for each unit included in the averaging plan.

III. The calculations that demonstrate that the total mass of actual NO_x emissions are less than the total mass of allowable NO_x emissions using equations in 35 IAC 217.390(f) and (g) (Conditions 4.3.2(d)(i)(B)(VI) and (c)(i)(B)(VII)).

IV. The information required to determine the total mass of actual NO_x emissions and the calculations performed in 35 IAC 217.390(c)(4)(B)(iii).

Section 5 – NSR/PSD 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:

Insignificant Activity	*Number of Units*	*Insignificant Activity Category*
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	22	35 IAC 201.210(a)(4)

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)

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

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

I. Meet the applicable general provisions of 40 CFR 63 Subpart A. See Condition 7.3(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 biennial tune-up must be no more than 25 months after the previous tune-up.

III. Must meet the applicable notification requirements of 40 CFR 63.7545 and 40 CFR Part 63 Subpart A.

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:

Insignificant Activity	*Number of Units*	*Insignificant Activity Category*
Ethylene Glycol Tanks (2,000, 8,000 and 4,000 gallons)	3	35 IAC 201.210(a)(1) and 201.211
Storage tanks < 10,000 gallon with annual throughput < 100,000 gallon (not storing gasoline or any material listed as a HAP).	3	35 IAC 201.210(a)(10)
Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil.	12	35 IAC 201.210(a)(11)
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 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.

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.

5. Compliance Method

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.

6. Notification Requirements for Insignificant Activities

The source shall notify the IEPA accordingly to the addition of insignificant activities:

a. <u>Notification 7 Days in Advance</u>

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 lbs/hr and tons/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. <u>Notification Required at Renewal</u>

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. <u>Notification Not Required</u>

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 Requirements (NESHAP)

a. 40 CFR 63 Subpart A and DDDDD - Boilers

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

General Provision Citation	*General Provision Applicable?*	*Subject of Citation*	*Explanation (if required)*
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:

General Provision Citation	*General Provision Applicable?*	*Subject of Citation*	*Explanation (if required)*
40 CFR 63.1	Yes	General Applicability of the General Provisions	
40 CFR 63.2	Yes	Definitions	Additional terms defined in 40 CFR 63.6675
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	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	

3. Startup Requirements

a. Startup Provisions (For Turbines in Section 4.3)

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to operate in violation of the applicable requirements (as referenced in Section 4 of this CAAPP permit) during startup. The source has applied for such authorization in its application, generally describing the efforts that will be used "…to minimize startup emissions, duration of individual starts, and frequency of startups." As provided by 35 IAC 201.265, authorization in this CAAPP permit for excess emissions during startup does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

i. This authorization does not relieve the source from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual starts, and frequency of startups.

ii. The source shall conduct startups in accordance with written startup procedures prepared by the source and maintained at the source, that are specifically developed to minimize startup emissions, duration of individual starts, and frequency of startups.

b. Monitoring – Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain the following recordkeeping requirements for startup procedures:

i. A copy of the most recent startup procedures that contains at a minimum:

A. Estimates of excess emissions for each regulated air pollutant at startup.

B. Reasonable steps that will be used to minimize startup emissions, duration of individual starts, and frequency of startups.

ii. Records for each individual startup that contains at a minimum:

A. Date, time, duration, and description of the startup.

B. Whether the most recent startup procedures were performed. If not performed, an explanation why the procedures were not performed.

C. Whether normal operation was achieved in the allowed duration (as referenced in Section 3 of this CAAPP permit). If not achieved, and explanation why normal operation was not achieved in the allowed duration.

D. An explanation of whether emissions during the startup exceeded the estimates in the startup procedures and whether emissions exceeded any applicable standard or limit not authorized to be violated during startup.

c. Monitoring – Reporting

Pursuant to Sections 39.5(7)(b) and (f) of the Act, the source shall submit the following reporting requirements:

i. Prompt Reporting

A Deviation Report shall be submitted to the IEPA, Compliance Section (addresses are included Attachment 3) within five (5) days if a startup exceeded the emission

estimates in the startup procedures or emissions exceeded any applicable standard or limit not authorized to be violated during startup.

ii. Semiannual Reporting

As part of the required Semiannual Monitoring Reports, the source shall submit a startup report including the following at a minimum: a list of the startups including the date, duration, and description of each startup accompanied by any explanations whether the most recent startup procedures were or were not performed and whether normal operation was or was not achieved in the allowed duration.

4. Malfunction Breakdown Requirements

a. Malfunction Breakdown Provisions

Pursuant to 35 IAC 201.149, 201.161, and 201.262, the source is authorized to continue operation in violation of the applicable requirements (as referenced in Section 4 of the CAAPP permit) during malfunction or breakdown. The source has applied for such authorization in its application, generally describing "such continued operation is necessary to prevent injury to persons or severe damage to equipment; or that such continued operation is required to provide essential services; provided, however, that continued operation solely for the economic benefit of the source shall not be sufficient for granting of permission." As provided by 35 IAC 201.265, authorization in this CAAPP permit for continued operation during malfunction or breakdown does not shield the source from enforcement for any violation of applicable emission standard(s) that occurs during malfunction or breakdown and only constitutes a prima facie defense to such an enforcement action provided that the source has fully complied with all terms and conditions connected with such authorization.

i. Upon continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall as soon as practical, remove from service and repair the emission unit(s) or undertake other measures as described in the application so that any violation of the applicable requirements cease.

ii. For continued operation in violation of the applicable requirements during malfunction or breakdown, the time shall be measured from the start of a particular incident and ends when violation of the applicable requirements ceases. The absence of a violation of the applicable requirements for a short period shall not be considered to end the incident if a violation of the applicable requirements resume. In such circumstances, the incident shall be considered to continue until corrective measures are taken so that a violation of the applicable requirements cease or the source takes the emission unit(s) out of service.

iii. Following notification to the IEPA of continued operation in violation of the applicable requirements during malfunction or breakdown, the source shall comply with all reasonable directives of the IEPA with respect to such incident, pursuant to 35 IAC 201.263.

b. Monitoring - Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act and 35 IAC 201.263, the source shall maintain records of continued operation in violation of the applicable requirements during malfunction or breakdown shall include at a minimum:

i. A malfunction breakdown plan that includes the following at a minimum:

A. Estimates of typical emissions during malfunction or breakdown.

B. Reasonable steps that will be taken to minimize emissions, duration, and frequency of malfunction or breakdown.

ii. Date and duration of the malfunction or breakdown.

iii. A detailed explanation of the malfunction or breakdown.

iv. An explanation why the emission unit(s) continued operation.

v. The measures used to reduce the quantity of emissions and the duration of the event.

vi. The steps taken to prevent similar malfunctions or breakdowns and reduce their frequency and severity.

vii. An explanation of whether emissions during malfunction or breakdown were above typical emissions in the malfunction or breakdown procedures and whether emissions exceeded any applicable requirements.

c. Monitoring - Reporting

Pursuant to Sections 39.5(7)(b) and (f) of the Act and 35 IAC 201.263, the source shall provide the following notification and reports to the IEPA, Compliance Section and Regional Field Office (addresses are included in Attachment 3) concerning continued operation in violation of the applicable requirements during malfunction or breakdown:

i. Prompt Reporting

When the granted duration is exceeded (as referenced in Section 4 of the CAAPP permit) or continued operation in violation of the applicable requirements during malfunction or breakdown:

A. The source shall notify the IEPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence of noncompliance due to malfunction or breakdown.

B. Upon achievement of compliance, the source shall give a written follow-up notice within 15 days to the IEPA, Air Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the source to minimize and correct deficiencies with chronology, and when the repairs were completed or when the unit(s) was taken out of service.

C. If compliance is not achieved within 5 working days of the occurrence, the source shall submit interim status reports to the IEPA, Air Compliance Section and Regional Field Office, within 5 days of the occurrence and every 14 days thereafter, until compliance is achieved. These interim reports shall provide a brief explanation of the nature of the malfunction or breakdown, corrective actions accomplished to date, actions anticipated to occur with schedule, and the expected date on which repairs will be complete or the emission unit(s) will be taken out of service.

ii. Semiannual Reporting

As part of the required Semiannual Monitoring Reports, the source shall submit a semiannual malfunction breakdown report including the following at a minimum:

A. A listing of all malfunctions and breakdowns, in chronological order, that includes: the date, time, and duration of each incident; and identity of the affected operation(s) involved in the incident.

B. Dates of the notices and reports required by Prompt Reporting requirements of 3(A) above.

C. The aggregate duration of all incidents during the reporting period.

D. If there have been no such incidents during the reporting period, this shall be stated in the report.

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.

Pollutant		*Tons/Year*
Volatile Organic Material	(VOM)	126.71
Sulfur Dioxide	(SO_2)	1.86
Particulate Matter	(PM)	26.74
Nitrogen Oxides	(NO_x)	1,173.98
HAP, not included in VOM or PM	(HAP)	----
Total		1,329.29

Attachment 1 – List of Emission Units at This Source

Section	*Emission Units*	*Description*
4.1	2,400 Hp Natural Gas Engine (1013)	Cooper Reciprocating Compressor Engine
4.1	3,400 Hp Natural Gas Engine (1015)	Cooper Reciprocating Compressor Engine
4.1	3,400 Hp Natural Gas Engine (1016)	Cooper Reciprocating Compressor Engine
4.1	3,400 Hp Natural Gas Engine (1017)	Cooper Reciprocating Compressor Engine
4.2	2,400 Hp Natural Gas Engine (1014)	Cooper Reciprocating Compressor Engine
4.3	6,130 Hp Natural Gas Turbine (1018)	Solar Turbines
4.3	6,130 Hp Natural Gas Turbine (1019)	Solar Turbines

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
^{o}F	Degrees Fahrenheit
GHG	Green house gas
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
HP	Horsepower
hr	Hour
H_2S	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
lb	Pound

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

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

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