

PROPOSED DRAFT CAAPP PERMIT
August 21, 2013

Attention:

Loyola University Medical Center
Attn: David Niksic, Director,
Physical Plant and Ground
2160 South First Avenue
Maywood, Illinois 60153

State of Illinois

CLEAN AIR ACT PERMIT
PROGRAM (CAAPP) PERMIT

Source:

Loyola University Medical Center
2160 South First Avenue
Maywood, Illinois 60153

I.D. No.: 031817AAB
Permit No.: 95060004

Permitting Authority:

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

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

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

ID No.: 031817AAB
Permit No.: 95060004
Statement of Basis No.: 95060004-2013

Date Application Received: January 07, 2005
Date Issued: TBD

Expiration Date: TBD
Renewal Submittal Date: 9 Months Prior to TBD

Source Name: Loyola University Medical Center
Address: 2160 South First Avenue
City: Maywood
County: Cook
ZIP Code: 60153

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.

Robert W. Bernoteit
Acting Manager, Permit Section
Division of Air Pollution Control

RWB:MTR:RJ:psj

cc: IEPA, Permit Section
IEPA, FOS, Region 1

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Section 1 - Source Information

1. AddressesSource

Loyola University Medical Center
2160 South First Avenue
Maywood, Illinois 60153

Owner

Loyola University Medical Center
2160 South First Avenue
Maywood, Illinois 60153

Operator

David Niksic, Director, Physical Plant and
Grounds, Loyola University Medical Center
2160 South First Avenue
Maywood, Illinois 60153

Permittee

The owner or operator of the source as
identified in this table.

2. ContactsCertified Officials

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

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	David Niksic	Director, Physical Plant and Ground
<i>Delegated Authority</i>	No other individuals have been authorized by the IEPA.	N/A

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	David Niksic	708/216-8545	dniksic@lumc.edu
<i>Technical Contact</i>	Brigid McHale	773/486-2123	bmchale@gabenv.com
<i>Correspondence</i>	David Niksic	708/216-8545	dniksic@lumc.edu
<i>Billing</i>	David Niksic	708/216-8545	dniksic@lumc.edu

3. Single Source

The source shall be defined to include all the following source(s):

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

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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 or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 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). [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), 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

- a. 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:
 - 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), "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

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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 3(c), 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 Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Fees". [Section 39.5(18)(e) of the Act]

f. Obligation to Allow IEPA Surveillance

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

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

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

g. Effect of Permit

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

h. Severability Clause

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

4. Testing

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

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shall be submitted as specified in Condition 6.1 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

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. [Section 39.5(7) (a) of the Act]

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. 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 pursuant to Section 39.5(7) (a) of the Act.

c. Availability of Records

- i. 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. 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))

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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 including 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. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section pursuant to Section 39.5(7) (p) (v) (D). Addresses are included in Attachment 3.
- iii. All compliance reports required to be submitted shall include a certification in accordance with Condition 2.6 pursuant to Section 39.5(7) (p) (i) of the Act.

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. Except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield pursuant to Section 39.5(7) (j) of the Act. 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. 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.

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8. Title I Conditions

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 pursuant to Sections 39(a), 39(f) and 39.5(7)(a) of the Act.

- 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]

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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

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, pursuant to Sections 39.5(5) (e) and (i) 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) (1) 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.

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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 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Illinois Environmental Protection Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities) 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. Periodic Monitoring Compliance Method. The Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301, upon request by the Illinois EPA, as follows:

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 Illinois EPA, 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. Emissions Reduction Market System (ERMS)

Pursuant to 35 IAC Part 205, ERMS seasonal emissions of VOM during the seasonal allotment period from May 1 through September 30 shall not exceed 10 tons. The Permittee is subject to the ERMS Requirements of Section 7.2.

c. 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. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- ii. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- iii. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
- iv. 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 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. All persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

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- d. Asbestos Demolition and Renovation
 - i. 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).
 - ii. During demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).
- e. Future Emission Standards
 - i. 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.
 - ii. 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 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Illinois Environmental Protection Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities) 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 39.5(7)(a) of the Illinois Environmental Protection Act.

b. PM₁₀ Contingency Measure Plan

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

c. Episode Action Plan

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as

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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 25, 2013, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO₂, PM₁₀, NO₂, CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.
- v. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

d. Risk Management Plan (RMP)

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

3. Title I Requirements

a. i. Construction Permit 03090064 Requirements [T1]

- A. Pursuant to Construction Permit 03090064, plant-wide natural gas usage shall not exceed 1,170 mmscf/year.
- B. Pursuant to Construction Permit 03090064, the Permittee shall operate the turbines, the duct burners, and all the existing emission units such that NO_x or CO emissions from the plant not to exceed 80 tons/year of each such pollutant. For this purpose the Permittee is allowed to balance the natural gas usage in turbines, duct burners and existing emission units as long as above limitations are not exceed.

ii. Compliance Method (Construction Permit 03090064)

Monitoring

- A. Pursuant to Construction Permit #03090064, 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).

Testing

- B. See Section 4 for testing requirements of individual groups of emission units.

Recordkeeping

- C. I. Pursuant to Construction Permit 03090064, the Permittee shall maintain daily and monthly records of total amount of natural gas consumed at the source by all fuel combustion emission units (turbines, duct burners and boilers).
- II. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall keep source-wide monthly and annual records of NO_x and CO emitted by the source with supporting calculations.

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 section.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7) (f) of the Illinois Environmental Protection Act.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Conditions 3.1(a) (i), 3.1(b), 3.1(c), 3.1(d) and 3.1(e).
 - II. Requirements in Condition 3.2(c).
 - III. Requirements in Condition 3.3(a)
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by in 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. Semiannual Reporting

- i. The Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required periodic 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. Addresses are included in Attachment 3.

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

- ii. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report.
- iii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

c. Annual Emissions Reporting

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, pursuant to 35 IAC Part 254.

Section 4 - Emission Unit Requirements

4.1 Cogeneration Plant - Natural Gas Fired Turbine

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Two Natural Gas Fired Turbine with Low NO _x combustors	SO ₂ , CO, NO _x , VOM	Sept 2003	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. Opacity Requirements

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

ii. Compliance Method (Opacity Requirements)

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 turbine 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. Sulfur Dioxide Requirements (SO₂)

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.

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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 (SO₂ Requirements)

Monitoring

A. Pursuant to 40 CFR 60.334(h) (3) (i), the Permittee does not need to monitor the total sulfur content of the gaseous fuel combusted in the turbine 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

B. Pursuant to 40 CFR 60.334(h) (3) (i) and Section 39.5(7) (b), the Permittee shall keep the 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. See also Condition 4.1.2(g) (ii),

c. i. Carbon Monoxide Requirements (CO)

A. Pursuant to Construction Permit #03090064, emissions from the turbines shall not exceed the following limits: [T1]

<u>(Tons/Month)</u>	CO	<u>(Tons/Year)</u>
5.78		68.88

ii. Compliance Method (CO Requirements)

Monitoring

A. Pursuant to Section 39.5(7) (d), the Permittee shall comply with the tune-up requirements for the turbines and conduct such tune-ups at least biennial or at the frequencies required by a manufacturer.

B. See Condition 4.1.2(g) (ii) for inspection requirements.

C. Pursuant to Construction Permit #03090064, 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).

Testing

D. Pursuant to Section 39.5(7) (d), the Permittee shall conduct testing on CO emissions within 60 months of issuance of this permit and every 60 months thereafter, the turbines shall be tested by using USEPA Method 10 or USEPA approved method,

E. Pursuant to Section 39.5(7) (a), the Permittee shall also comply with the requirements in Section 7.1

Recordkeeping

F. Pursuant to Section 39.5(7) (b), the Permittee shall keep the records of monthly and annual CO emissions (tons/month and tons/year), including supporting calculations.

G. Pursuant to Section 39.5(7) (b), the Permittee shall keep the records of tune-up activities performed.

d. i. Nitrogen Oxide Requirements (NO_x)

A. Pursuant to 40 CFR 60.332(a)(2), 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).

B. Pursuant to Construction Permit #03090064, emissions from the turbines shall not exceed the following limits: [T1]

NO _x	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
4.33	52.00

ii. Compliance Method (NO_x Requirements)

Monitoring

A. Pursuant to Construction Permit #03090064, 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]

Testing

B. Pursuant to Section 39.5(7) (d), the Permittee shall conduct testing on NO_x emissions within 60 months of issuance of this permit and every 60 months thereafter in accordance with 40 CFR 60.335.

C. Pursuant to 40 CFR 60.335(a) such tests shall be conducted by using either of the following methods: Method 20, ASTM D6522-00 or Method 7E.

D. Pursuant to Section 39.5(7) (a), the Permittee shall also comply with the requirements in Section 7.1

Recordkeeping

E. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain emission records of the NO_x, from the turbines including supporting calculations (lbs/hour, tons/month, and tons/year).

e. i. Volatile Organic Material Requirements (VOM)

A. Pursuant to Construction Permit #03090064, emissions from the turbines shall not exceed the following limits. [T1]

VOM	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
0.15	1.72

ii. Compliance Method (VOM Requirements)

Monitoring

A. Pursuant to Construction Permit #03090064, 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).

Recordkeeping

B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of VOM emissions from the turbines (lbs/hour, tons/month, and tons/year), including supporting calculations.

f. 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 turbine.

B. Pursuant to Construction Permit #03090064, pipeline quality natural gas usage for the turbines shall not exceed 85 mmscf/month and 1,013 mmscf/year.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

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

B. 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. Work Practice Requirements

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 turbine 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.

3. Non-Applicability Determinations

- a. The turbine is 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 turbine was constructed prior to February 18, 2005 pursuant to 40 CFR 60.4305(a).
- b. The turbine is not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines, 40 CFR Part 63 Subpart YYYY, because the turbine is located at an area source of HAP emissions pursuant to 40 CFR 63.6085.
- c. The turbine is 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.
- d. The turbine is not subject to 35 IAC 218.301, because the turbine does not use organic material that would make them subject to 35 IAC 218.301.
- e. The turbine is not subject to 35 IAC 216.121, because the turbine is not fuel combustion emission units as defined by 35 IAC 211.2470.
- f. The turbine is not subject to 35 IAC 217 Subpart Q because the turbine's potential to emit of NO_x was limited to less than 100 tons/year and, as result, these turbines are not meeting applicable criteria of 35 IAC 217.386(a).
- g. The turbine is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the turbine 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. 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.

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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 4.1.1(a)(i), thorough 4.1.2(g)(i).
 - II. Requirements in Conditions 4.1.4(a).
- 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.

4.2 Duct Burners - Cogeneration Plant

1. Emission Units and Operations

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
Two Duct Burners (104.65 mmBtu/hr each)	CO, NO _x VOM	1983	2004	None	None

2. Applicable Requirements

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

a. i. Opacity Requirements

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

ii. Compliance Method (Opacity Requirements)

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 duct burner in accordance with Method 22 for visible emissions at least quarterly per 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 duct burner, 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, if required, the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9.

b. i. Carbon Monoxide Requirements (CO)

A. Pursuant to 35 IAC 216.121, the emissions of carbon monoxide (CO) into the atmosphere from any fuel combustion emission unit with actual heat input greater than 2.9 MW (10 mmBtu/hr) shall not exceed 200 ppm, corrected to 50 percent excess air.

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- B. Pursuant to Construction Permit #03090064, the Duct burners shall not exceed the following limits: [T1]

	CO	
<u>(Tons/Month)</u>		<u>(Tons/Year)</u>
0.14		1.72

ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to Construction Permit #03090064, 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).
- B. Pursuant to Section 39.5(7) (d), the Permittee shall comply with the inspection and tune-up requirements for the Duct Burners at least biennial or at the frequencies required by a manufacturer.

Recordkeeping

- C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of CO emissions from with supporting calculations (lbs/hour, tons/month, and tons/year).
- D. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of tune-ups containing the following information:
- The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the duct burner.
 - A description of any corrective actions taken as a part of the tune-up of the duct burner.
 - The type and amount of fuel used over the 12 months prior to the biennial tune-up of the duct burner.
- E. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of each tune-up and inspections performed along with a maintenance, repair and tune-ups logs. These records shall include, at a minimum:
- I. Date and time of tune-up or inspections.
 - II. Name(s) of inspection personnel.
 - III. Identification of equipment being inspected.
 - IV. Findings of the inspections.
 - V. Operation and maintenance procedures.
 - VI. Description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

c. i. Nitrogen Oxide Requirements (NO_x)

- A. Pursuant to 40 CFR 60.44b(a) (4) (i) and 60.44b(i), the emission of nitrogen oxides (NO_x) from the Duct Burners, including periods of startup,

malfunction, and breakdown, shall not exceed 0.2 lb/mmBtu, on 30-day rolling average basis.

- B. Pursuant to Construction Permit #03090064, emissions from the Duct Burners shall not exceed the following limits: [T1]

NO _x	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
0.57	6.06

- C. Pursuant to Section 39.5(7) (a), NO_x emissions during ozone season (May 1 - October 1) from each Duct Burner shall not exceed 5.0 tons/year. [T1N].

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to Construction Permit #03090064, 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).

Testing

- B. Pursuant to 40 CFR 60.46b(f) (1) (i), the owner or operator of the Duct Burners subject to the NO_x standards under 40 CFR 60.44b(a) (4) shall conduct the performance test required under 40 CFR 60.8 as follows:

- I. The emissions rate (E) of NO_x shall be computed using Equation 1 in this section:

$$E = E_{zg} + \left(\frac{H_g}{H_b} \right) (E_{zg} - E_{zg}) \quad (\text{Eq.1})$$

Where:

E = Emissions rate of NO_x from the duct burner, ng/J (lbs/mmBtu) heat input;

E_{sg} = Combined effluent emissions rate, in ng/J (lbs/mmBtu) heat input using appropriate F factor as described in Method 19 of Appendix A of this part;

H_g = Heat input rate to the combustion turbine, in J/hr (mmBtu/hr);

H_b = Heat input rate to the duct burner, in J/hr (mmBtu/hr); and

E_g = Emissions rate from the combustion turbine, in ng/J (lbs/mmBtu) heat input calculated using appropriate F factor as described in Method 19 of Appendix A.

- II. Method 7E of Appendix A shall be used to determine the NO_x concentrations. Method 3A or 3B of Appendix A shall be used to determine O₂ concentration.

- III. The owner or operator shall identify and demonstrate to the ILEPA's satisfaction suitable methods to determine the average hourly heat input rate to the combustion turbine and the average hourly heat input rate to the affected duct burner.

- IV. Compliance with the emissions limits under 40 CFR 60.44b(a)(4) is determined by the three-run average (nominal 1-hour runs) for the subsequent performance tests.
- C. Pursuant to Section 39.5(7)(d), the Permittee shall conduct testing on NO_x emissions by using USEPA Method 7E. Such test shall be conducted within 60 months of issuance of this permit and every 60 months thereafter.
- D. Pursuant to Section 39.5(7)(a), the Permittee shall also comply with the requirements in Section 7.1

Recordkeeping

- E. Pursuant to 40 CFR 60.49b(g), the owner or operator of the Duct Burners subject to the NO_x standards under 40 CFR 60.44b(a)(4) shall maintain records of the following information for the duct burners operating daily:
 - I. Calendar date;
 - II. The average hourly NO_x emission rates (expressed as NO₂) (ng/J or lbs/mmBtu heat input) measured or predicted;
 - III. The 30-day average NO_x emission rates (ng/J or lbs/mmBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days;
 - IV. Identification of the steam generating unit operating days when the calculated 30-day average NO_x emission rates are in excess of the NO_x emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;
 - V. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken;
 - VI. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;
 - VII. Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;

d. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to Construction Permit #03090064, emissions from the Duct Burners shall not exceed the following limits. [T1]

<u>(Tons/Month)</u>	VOM <u>(Tons/Year)</u>
0.01	0.14

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Construction Permit #03090064, 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).

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of VOM emissions from the Duct Burners when fired with natural gas (pounds/hour, tons/month, and tons/year), including supporting calculations.

e. i. Operational or Production Requirements

- A. Pursuant to Construction Permit #03090064, natural gas shall be the only fuel fired in the Duct Burners.
- B. Pursuant to Construction Permit #03090064, natural gas usage shall not exceed 8.2 million scf/month and 98 million scf/year. [T1]

ii. Compliance Method (Operational or Production Requirements)

Monitoring

- A. Pursuant to Construction Permit #03090064, 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).

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of the type of fuel fired in the Duct Burners.
- C. Pursuant to Section 39.5(7) (a), the Permittee shall keep the records of the natural gas combusted (mmscf/mo and mmscf/yr).
- D. Pursuant to 40 CFR 60.49b(r) (1), the Permittee shall obtain and maintain fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that gaseous fuel meets the definition of natural gas as defined in 40 CFR 60.41b.

3. Non-Applicability Determinations

- a. Pursuant to 35 IAC 218.303, because the Duct Burners is a fuel combustion emission unit, the Duct Burners are not subject to 35 IAC Part 218, Subpart G.
- b. Pursuant to 35 IAC 217.141, the existing Duct Burners with an actual heat input less than 73.2 MW (250 mmBtu/hr) are not subject to 35 IAC 217.141(a) through (c).
- c. The Duct Burners are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because it does not use an add-on control device(s) to achieve compliance with the limitations for any regulated air pollutant.
- e. The Duct Burners are not subject to the National Emission Standards for Hazardous Air Pollution (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR Part 63 Subpart DDDDD, because the boiler is not located at a major source of HAP emissions.

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- f. The Duct Burners are not subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Source, 40 CFR Part 63 Subparts A and JJJJJJ, because the duct burners are gas-fired as defined in 40 CFR 63.11237 pursuant to 40 CFR 63.11195(e).
- g. The Duct Burners are not subject to 35 IAC 217 Subparts D, E, F, G, H, I, and M, because the Duct Burners are operating under a federally enforceable limit of NO_x emissions from each Duct Burner to less than 15 tons per year and less than 5 tons per ozone season (see these limits in Condition 4.2.2(c) (i)(C)), pursuant to 35 IAC 217.162 exemption.

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.

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:
 - Requirements in Conditions 4.2.2(a)(i), (b)(i), (c)(i), (d)(i), (e)(i), and (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 in Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

b. Federal Reporting

- i. A. Pursuant to 40 CFR 60.49b(r)(1), the Permittee shall submit reports to notify the IEPA, Air Compliance Section, certifying that natural gas, that are known to contain insignificant amounts of sulfur were combusted in the affected facility during the reporting period, as part of the Semiannual Monitoring Reports required by in Condition 3.5(b).

4.3 Natural Gas Boilers, (40 CFR 60 Subpart Dc)

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
65.291 mmBtu/hr Natural Gas Fired Boiler (#2 and #4)	CO	#2 1992 #4 1990	None	None	None
89.59 mmBtu/hr Natural Gas Fired Boiler (#3)	CO	1993	None	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. Opacity Requirements

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

ii. Compliance Method (Opacity Requirements)

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 boiler in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the boiler, 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. Carbon Monoxide Requirements (CO)

A. Pursuant to 35 IAC 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission

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source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(d), the Permittee shall comply with the following tune-up requirements for the boiler and conduct such tune-ups at least biennial. Each biennial tune-up must be conducted no later than 25 months after the previous tune-up:
- I. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).
 - II. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - III. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - IV. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - V. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of tune-ups containing the following information:
- The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
 - A description of any corrective actions taken as a part of the tune-up of the boiler.
 - The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance, repair log and tune-ups performed. 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,
- description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

D. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of CO emissions from the boiler with supporting calculations (lbs/hour, tons/month, and tons/year).

c. 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 each boiler.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

A. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of the natural gas usage for the boilers with supporting calculations (mmscf/month and mmscf/year).

d. i. **Work Practice**

A. Pursuant to 40 CFR 60.48c(g) (2), the natural gas is the only fuel combusted at these boilers.

ii. Compliance Method (Work Practice Requirements)

A. Pursuant to 40 CFR 60.48c(g) (2), the Permittee shall keep records that the natural gas is the only fuel used at these boilers.

3. Non-Applicability Determinations

- a. The boilers are not subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Source, 40 CFR Part 63 Subparts A and JJJJJJ, because the boilers are gas-fired boilers as defined in 40 CFR 63.11237 pursuant to 40 CFR 63.11195(e).
- b. The boilers are not subject to the National Emission Standards for Hazardous Air Pollution (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heat, 40 CFR Part 63 Subpart DDDDD, because the source is not located in a major area of HAPs.
- c. The boilers are not subject to 35 IAC 212.206 and 35 IAC 214.161 because the boilers use natural gas exclusively.
- d. Pursuant to 35 IAC 218.303, because these are the fuel combustion emission units, the boilers are not subject to 35 IAC Part 218, Subpart G.
- e. The boilers are not subject to 35 IAC 217.141 because the heat input of the boilers are less than 250 mmBtu/hr.
- f. The boilers are not subject to 35 IAC 217 Subparts D and E, because each boiler heat input is less than 100 mmBtu/hr.
- g. The boilers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the boilers 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 4.3.2(a)(i) through 4.3.2(c)(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 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.

4.4 Natural Gas Fired Boiler

1. Emission Units and Operations

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
25.1 mmBtu/hr Natural Gas Fired Boilers (#5)	CO	1981	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. Opacity Requirements

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

ii. Compliance Method (Opacity Requirements)

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 boiler in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the boiler, 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. Carbon Monoxide Requirements (CO)

A. Pursuant to 35 IAC 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

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ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(d), the Permittee shall comply with the following tune-up requirements for the boilers and conduct such tune-ups at least biennial. Each biennial tune-up must be conducted no later than 25 months after the previous tune-up:
- I. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 36 months).
 - II. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - III. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - IV. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - V. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of tune-ups containing the following information:
- The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.
 - A description of any corrective actions taken as a part of the tune-up of the boiler.
 - The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance, repair log and tune-ups performed. 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,

- description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.

3. Non-Applicability Determinations

- a. The boilers are not subject to the New Source Performance Standards (NSPS) for Small Industrial Commerce Institutional Steam Generating Units, 40 CFR Part 60, Subpart Dc, because the boilers were constructed or reconstructed before Jun 9, 1989 pursuant to 40 CFR 60.40c(a).
- b. The boilers are not subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers Area Source, 40 CFR Part 63 Subparts A and JJJJJJ, because the boiler is a gas-fired boiler as defined in 40 CFR 63.11237 pursuant to 40 CFR 63.11195(e).
- c. The boilers are not subject to the National Emission Standards for Hazardous Air Pollution (NESHAP) for National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heat, 40 CFR Part 63 Subpart DDDDD, because the source is not located in a major area of HAPs.
- d. The boilers are not subject to 35 IAC 212.206 because the boilers use natural gas exclusively.
- e. The boilers are not subject to 35 IAC 214.161 because the boilers use natural gas exclusively.
- f. Pursuant to 35 IAC 215.303, the provisions of Sections 215.301 and 215.302 shall not apply to fuel combustion emission sources.
- g. The boilers are not subject to 35 IAC 217.141 because the actual heat input is less than 250 mmBtu/hr.
- h. The boilers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the boilers do not use an add-on control device to achieve compliance with an emission limitation or standard.
- i. The boilers are not subject to 35 IAC 217 Subparts D and E, because each boiler heat input is less than 100 mmBtu/hr.

4. Other Requirements

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

5. Reporting Requirements

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

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Conditions 4.5.2(a)(i), and 4.5.2(b)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

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- ii. The Permittee shall notify the Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.5 Gasoline Storage Tank

1. Emission Units and Operations

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
One Gasoline Storage Tank (2,500 gallons capacity)	VOM	1994	None	Submerged Loading Pipe, Stage II Vapor Recovery System	None

2. Applicable Requirements

For the emission units in Condition 4.5.1 above, the Permittee shall comply with the following applicable requirements pursuant to 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

- a. i. **Work Practice Requirements (35 IAC Part 218)**
 - A. Pursuant to 35 IAC 218.122(b), no person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe.
 - B. Pursuant to 35 IAC 218.583(a), the transfer of gasoline from any delivery vessel into the stationary storage tank at a gasoline dispensing operations shall include the following:
 - I. The tank is equipped with a submerged loading pipe.
 - II. The vapors displaced from the storage tank during filling and processed by a vapor control system that includes one or more of the following:
 - A vapor collection system that meets the requirements of 218.583(d) (4); and
 - The delivery vessel displays the appropriate sticker pursuant to the requirements of Section 218.584(b) or (d).
 - III. All tank vent pipes are equipped with pressure/vacuum relief valves and shall be set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column.
 - C. Pursuant to 35 IAC 218.583(c), the Permittee shall:
 - I. Install all control systems and make all process modifications required by 35 IAC 218.583(a);
 - II. Provide instructions to the operator of the gasoline dispensing operation describing necessary maintenance operations and procedures for prompt notification of the owner in case of any malfunction of a vapor control system; and
 - III. Repair, replace or modify any worn out or malfunctioning component or element of design.
 - D. Pursuant to 35 IAC 218.583(d), the operator of a gasoline dispensing operation shall fulfill the following:

- I. Maintain and operate each vapor control system in accordance with the owner's instructions;
 - II. Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;
 - III. Maintain gauges, meters or other specified testing devices in proper working order;
 - IV. Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:
 - A reading equal to or greater than 100 percent of the lower explosive limit (LEL measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B incorporated by reference in 35 IAC 218.112; and
 - Avoidable leaks of liquid during the filling of storage tanks; and
 - V. Within 15 business days after discovery of the leak by the owner, operator, or the Illinois EPA, repair and retest a vapor collection system which exceeds the limits of 35 IAC 218.583(d) (4) (A) (Condition 4.5.2(a) (i) (C) (IV) above).
- E. Pursuant to 35 IAC 218.585(a), (b) and (c), no person shall sell, offer for sale, dispense, supply, offer for supply, or transport for use in Illinois gasoline whose Reid vapor pressure exceeds the following applicable limitations during the regulatory control periods, which shall be May 1 to September 15 for retail outlets, wholesale purchaser-consumer, operations, and all other operations:
- I. The Reid vapor pressure of gasoline, a measure of its volatility, shall not exceed 9.0 psi (62.07 kPa) during the regulatory control period in 1990 and each year thereafter.
 - II. The Reid vapor pressure of ethanol blend gasolines shall not exceed the limitations for gasoline set forth in subsection (b) of this Section by more than 1.0 psi (6.9 kPa). Notwithstanding this limitation, blenders of ethanol blend gasolines whose Reid vapor pressure is less than 1.0 psi above the base stock gasoline immediately after blending with ethanol are prohibited from adding butane or any product that will increase the Reid vapor pressure of the blended gasoline.

ii. Compliance Method (State Work Practice Requirements)

Monitoring

- A. Pursuant to 35 IAC 218.583(a) (4), the Permittee shall demonstrate compliance with 35 IAC 218.583(a) (3) at least annually, by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe.
- B. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall conduct semi-annual inspections of the gasoline storage tank and dispensing operation while the tank is being filled by inspecting at least the following:
 - I. Retractors, hoses, breakaways, swivels.
 - II. Adapters, vapor caps, rubber gaskets, and spill containment buckets.

- III. Gauges and meters.
- IV. Submerged loading pipe is physically present and the condition of the pipe for integrity.

Recordkeeping

- C. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall maintain the records of conducted inspections, with a date and results of such inspections.
- D. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall keep a copy of operating instructions and maintenance log.

b. i. **Work Practice Requirements (40 CFR 63 Subpart CCCCCC)**

- A. Pursuant to 40 CFR 63.1116(a), the Permittee shall fulfill at least the following requirements in regards to the gasoline dispensing facility with monthly throughput of less than 10,000 gallons of gasoline:
 - I. Minimize gasoline spills;
 - II. Clean up spills as expeditiously as practicable;
 - III. Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use; and
 - IV. Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

ii. Compliance Method (Federal Work Practice Requirements)

Monitoring

- A. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall conduct semi-annual inspections of the gasoline storage tank and dispensing operation while the tank is being filled by inspecting at applicable operating requirements established by 40 CFR 63 Subpart CCCCCC.

Recordkeeping

- B. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall keep on site written operating procedures or instructions on how to implement operating requirements established by 40 CFR 63 Subpart CCCCCC.
- C. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall maintain the records of conducted inspections, with a date and results of such inspections.

c. i. **Operational and Production Requirements**

- A. Pursuant to Section 39.5(7) (a) of the Act, the average monthly gasoline throughput shall not exceed 10,000 gallons.

ii. Compliance Method (Operational and Production Requirements)

Recordkeeping

- A. Pursuant to Section 39.5(7) (a) and (d) of the Act, the Permittee shall keep monthly and annual records of gasoline throughput.

3. Non-Applicability Determinations

- a. The gasoline storage tank and associated dispensing operations are not subject to 40 CFR 64, Compliance Assurance Monitoring (CAM) because these operations do not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.
- b. The gasoline storage tank is not subject to 35 IAC 218.301 because the gasoline storage tank does not use organic material as defined in 35 IAC 211.4250(b).
- c. The gasoline storage tank is not subject to 35 IAC 218.586(c) because the average monthly gasoline throughput is less than 10,000 gallons.
- d. The gasoline storage tank is not subject to 35 IAC 218.581 and 218.582 the tank is not a bulk gasoline plant or bulk gasoline terminal as defined in 35 IAC 211.790 and 211.810, respectively.

4. Other Requirements

As of the date of issuance of this permit, there are no such requirements that need to be included for gasoline storage tank.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to 39.5(7)(f) of the Illinois Environmental Protection Act.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7) (f) (ii) of the Act, the Permittee shall promptly notify the Illinois EPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
- Requirements in Conditions 4.5.2(a) (i), (b) (i) and (c) (i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the Illinois EPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Reports required by in Condition 3.5(b).
- iii. The deviation report 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.

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4.6 Ethylene Oxide Sterilizers (NESHAP WWWW)

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Four Ethylene Oxide Sterilizers Model 5XL	HAP	1994	1996	None	Abator System

2. Applicable Requirements

For the emission units in Condition 4.6.1 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. **Hazardous Air Pollutants (HAP)**
 - A. Pursuant to Construction Permit #96030259, emissions and operations of the four sterilizers controlled by two abators systems shall not exceed ethylene oxide used: 1.18 lbs/hr. HAP emissions shall not exceed 0.01 lb/hr and 0.04 ton/year total. The limits are based on 8,760 hours of operation per year and 99.9% destruction efficiency of control systems. [T1]
 - B. Pursuant to Sections 39.5(7) (a) of the Act, 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).

ii. **Compliance Method (HAP)**

- A. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of ethylene oxide used and emitted from the four Ethylene Oxide Sterilizers including supporting calculations tons/month and tons/year.

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

- A. Pursuant to Construction Permit #96030259, emissions from of four sterilizers controlled by two abators systems, shall not exceed the following limits. [T1]

VOM	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
0.01	0.04

ii. **Compliance Method (VOM Requirements)**

Monitoring

- A. Pursuant to Sections 39.5(7) (a) of the Act, 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).

Recordkeeping

- B. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall maintain records of VOM emissions from the four Ethylene Oxide Sterilizers including supporting calculations tons/month and tons/year.

c. i. Work Practice Requirements

- A. Pursuant to 40 CFR 63.10390, of Subpart WWWW-National Emission Standards for Hospital Ethylene Oxide Sterilizers, the Permittee must sterilize full loads of items having a common aeration time, except under medically necessary circumstances, as that term is defined in 40 CFR 63.10448.
- B. Pursuant to 40 CFR 63.10440, the Permittee is subject to the General Provisions in Condition 7.4(a).

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall maintain the sterilizers according to manufacturer's instructions.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the manufacturer maintenance instructions and associated maintenance.
- C. Pursuant to 40 CFR 63.10432 the Permittee must keep the following records:
 - I. The name and address of the Permittee.
 - II. The address (i.e., physical location) of the affected source.
 - III. An identification of the standard and other applicable requirements in this subpart.
 - IV. A brief description of the sterilization facility, including the number of ethylene oxide sterilizers, the size (volume) of each, the number of aeration units, if any, the amount of annual ethylene oxide usage at the facility, the control technique used for each sterilizer, and typical number of sterilization cycles per year.
 - V. A statement that the affected source is an area source.

3. Non-Applicability Determinations

- a. The ethylene oxide sterilizers are not subject to the National Emission Standards for Hazardous Air Pollution (NESHAP) for Ethylene Oxide Emissions Standards for Sterilization Facilities, 40 CFR Part 63 Subpart O, because pursuant to 40 CFR 63.630(e) Subpart O does not apply to hospitals, doctors offices, or clinics.
- b. The ethylene oxide sterilizers are not subject to the requirements of 35 IAC Part 218, Subpart G, Use of Organic Material, because ethylene oxide is a gas and not a solvent pursuant to the definition of a volatile organic compound in 35 IAC 211.4250(b).
- c. The ethylene oxide sterilizers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the sterilizers do not use any pollution control device.

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.

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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 4.6.2(a)(i) through 4.6.2(c)(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 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.

4.7 Emergency Generator- Engines (New Source Performance Standard, NSPS Subparts A and IIII and NESHAP Subpart ZZZZ)

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
1500 kW (2010 HP) Diesel Engine ENG-13	PM, SO ₂ , VOM, CO, NO _x , HAP	1999	N/A	None	None
1250 kW (1675 HP) Diesel Engine ENG-9	PM, SO ₂ , VOM, CO, NO _x , HAP	1999	N/A	None	None

2. Applicable Requirements

For the emission units in Condition 4.7.1 above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7) (a), 39.5(7) (b), and 39.5(7) (d) of the Act.

a. i. Opacity Requirements

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

ii. Compliance Method (Opacity Requirements)

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 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. Particulate Matter Requirements (PM)

A. Pursuant to 40 CFR 60.4205(a), the Permittee shall comply with the applicable emission standards for emergency stationary CI, internal combustion engines.

PM	
(g/KW-hr)	(g/HP-hr)
0.54	(0.40)

B. Pursuant to 40 CFR 60.4212(d), exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in 40 CFR 60.4205(a), must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 60.4205(a), determined from the equation in paragraph 40 CFR 60.4212(c).

ii. Compliance Method (PM Requirements)

Monitoring

A. Pursuant to 40 CFR 60.4206, the Permittee shall operate and maintain stationary CI ICE that achieves the emission standards as required in 60.4205 over the entire life of the engine.

Recordkeeping

B. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard.

C. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of PM emissions including supporting calculations in g-kW-hr (g/HP-hr).

c. i. Sulfur Dioxide Requirements (SO₂)

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 (SO₂ Requirements)

The monitoring requirements sufficient to meet 39.5(7)(d)(ii) of the Act are addressed by the operational and production requirements in Condition 4.7.2(h) and the work practice requirement in Condition 4.7.2(i).

d. i. Volatile Organic Material Requirements (VOM)

A. Pursuant to 40 CFR 60.4205(a), the Permittee shall comply with the following emission standards for VOM (Hydrocarbons) for emergency stationary CI, internal combustion engines.

(g/KW-hr)	(g/HP-hr)
1.3	(1.0)

B. Pursuant to 40 CFR 60.4212(d), exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in 40 CFR 60.4205(a), must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 60.4205(a), determined from the equation in paragraph 40 CFR 60.4212(c).

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.4206, the Permittee shall operate and maintain stationary CI ICE that achieves the emission standards as required in 60.4205 over the entire life of the engine.

Recordkeeping

- B. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard.
- C. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of HC emissions including supporting calculations in g-kW-hr (g/HP-hr).

e. i. Carbon Monoxide Requirements (CO)

- A. Pursuant to 40 CFR 60.4205(a), the Permittee shall comply with the applicable emission standards for emergency stationary CI, internal combustion engines.

CO	
<u>(g/KW-hr)</u>	<u>(g/HP-hr)</u>
11.4	(8.5)

- B. Pursuant to 40 CFR 60.4212(d), exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in 40 CFR 60.4205(a), must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 60.4205(a), determined from the equation in paragraph 40 CFR 60.4212(c).

ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.4206, owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 60.4205 over the entire life of the engine.

Recordkeeping

- B. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of CO emissions including supporting calculations in g-kW-hr.
- C. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard.

f. i. Nitrogen Oxide Requirements (NO_x)

- A. Pursuant to 40 CFR 60.4205, the Permittee shall comply with the applicable emission standards for emergency stationary CI, internal combustion engines.

NO _x	
<u>(g/KW-hr)</u>	<u>(g/HP-hr)</u>
9.2	(6.9)

- B. Pursuant to 40 CFR 60.4212(d), exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines in

40 CFR 60.4205(a), must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 60.4205(a), determined from the equation in paragraph 40 CFR 60.4212(c).

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to 40 CFR 60.4206, owners and operators of stationary CI ICE must operate and maintain stationary CI ICE that achieve the emission standards as required in 60.4205 over the entire life of the engine.

Recordkeeping

- B. Pursuant to 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x emissions in either g/KW-hr (g/HP-hr)
- C. Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard.
- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the NMHC + NO_x emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.

g. i. Hazardous Air Pollutant Requirements (HAP)

- A. Pursuant to 40 CFR 63.6640(f), the Permittee shall operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640 (f)(1) through (f)(4). (See permit Condition 4.7.2(h)(i)).

ii. Compliance Method (HAP Requirements)

The monitoring requirements sufficient to meet 40 CFR 63.6640(f), are addressed by the operational and production requirements in Condition 4.7.2(h) and the work practice requirement in Condition 4.7.2(i).

h. i. Operational and Production Requirements

- A. Pursuant to Section 39.5(7)(a) of the Act, diesel fuel oil shall be the only fuel fired in the engine.
- B. Pursuant to 40 CFR 60.4207(b), the Permittee shall comply with the fuel requirements required in 40 CFR 80.5110.
- C. Pursuant to 40 CFR 60.4211(f) and 40 CFR 63.6640(f), The Permittee must operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f)(1) through (f)(3) and 40 CFR 63.6640(f)(1), (f)(2) and (f)(4).
- I. There is no time limit on the use of emergency stationary ICE in emergency situations.
- II. The Permittee may operate the emergency stationary ICE for any combination of the purposes specified in paragraphs 40 CFR 60.4211(f)(2)(i) through (iii) for a maximum of 100 hours per calendar year. Any operation for non-emergency situations as allowed by 40 CFR 60.4211(f)(3) counts as part of the 100 hours per calendar year allowed by 40 CFR 60.4211(f)(2) and 40 CFR 66.6640(f)(2).
- III. Emergency stationary RICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per

calendar year for maintenance and testing and emergency demand response provided in 40 CFR 60.4211(f) (2).

IV. After May 3, 2014, the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity provided in 40 CFR 63.6640(f) (4) (i) and (ii).

D. Pursuant to 40 CFR 60.4218, the engines are subject to the General Provisions in Section 7.2(b).

E. Pursuant to Sections 39.5(7) (a) of the Act, 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).

ii. Compliance Method (Operational and Production Requirements)

Monitoring

A. Pursuant to 40 CFR 60.4211(f), the Permittee must operate the emergency stationary ICE according to the requirements in 40 CFR 60.4211(f) (1) through (f) (3). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in paragraphs 40 CFR 60.4211(f) (1) through (f) (3).

B. Pursuant to 40 CFR 60.4212, the Permittee shall comply with the applicable testing requirements in 40 CFR 60.4212.

Recordkeeping

C. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of engine operation in hours/month and hours/year from the non-resettable hour meter required in Condition 4.7.2(i) (ii) (C) and indicate how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

D. Pursuant to 40 CFR 60.4214(b), the Permittee shall comply with the applicable requirements in 40 CFR 60.4214.

E. Pursuant to Section 39.5(7) (b), the Permittee shall maintain records of the type of fuel fired in the engines.

F. Pursuant to Section 39.5(7) (b), the Permittee shall maintain records for each shipment of distillate fuel oil for the engines, including date, supplier, quantity, and sulfur content.

G. Pursuant to Section 39.5(7) (b), the Permittee shall maintain records of cetane index and aromatic content.

i. Work Practice Requirements

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

B. Pursuant to 40 CFR 60.4209(a), the Permittee shall comply with the applicable monitoring including installing a non-resettable hour meter prior to startup of the engine.

- C. Pursuant to 40 CFR 60.4211(a) the Permittee must comply with the compliance requirements as follows, except as permitted under 40 CFR 60.4211(g):
 - I. Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions
 - II. Change only those emission-related settings that are permitted by the manufacturer.
 - III. Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply.
- D. Pursuant to 40 CFR 60.4211(b), the Permittee of a pre-2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4205(a), the Permittee must comply according to one of the methods specified in paragraphs 40 CFR 60.4211(b) (1) through (b) (5):
 - I. Keeping records of engine manufacturer data indicating compliance with the standards.

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 engines and associated auxiliary equipment.
- B. Pursuant to 40 CFR 60.4209(a), an Permittee of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines, must install a non-resettable hour meter prior to startup of the engine.
- C. Pursuant to 40 CFR 60.4211(g), the Permittee shall operate and maintain the engines according to the manufacturer's emission-related written instructions, or the Permittee changes emission-related settings in a way that is not permitted by the manufacturer.

Recordkeeping

- D. Pursuant to 40 CFR 60.4211(g) (3), the Permittee must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
- E. 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.
- F. Pursuant to Section 39.5(7) (b) of the Act, the Permittee shall keep records of the manufacturer's emission-related written instructions and documentation of pre-2007 model engine installation, configuration and maintenance.

- G. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep certification records and documentation related to Condition 4.7.2.(i)(ii)(F)
- H. Pursuant to 40 CFR 60.4211(b)(3), the Permittee must keep records of engine manufacturer data indicating compliance with the standards.

3. Non-Applicability Determinations

- a. 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.
- b. The engines are not subject to 35 IAC 216.121, because the engines are not fuel combustion units as defined by 35 IAC 211.2470.
- c. The engines are not subject to 35 IAC 217, Subpart Q, Stationary Reciprocating Internal Combustion Engines and Turbines, because the engines are used as emergency or standby as defined by 35 IAC 211.1920.
- d. The engines are not subject to 35 IAC 218.301, because diesel oil is not an organic material as defined in 35 IAC 211.4250(b).
- 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 4.7.2(a)(i), through 4.7.2(i)(i).
 - B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring 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.

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- D. Probable cause of the deviation.
- E. Corrective actions or preventative measures taken.

Section 5 - 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.

a. i. Construction Permit 03090064 Requirements [T1]

A. Pursuant to Construction Permit 03090064, emissions from turbines and duct burners combined, shall not exceed the following limits: [T1]

Combined (tons/year)

NO _x	58.85
CO	70.60
VOM	1.86

ii. Compliance Method (Construction Permit 03090064)

Monitoring

A. Pursuant to Construction Permit #03090064, 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).

Testing

B. See Section 4 for testing requirements of individual groups of emission units.

Recordkeeping

C. Pursuant to Section 39.5(7) (a) of the Act, the Permittee shall keep emissions from turbines and duct burners combined, monthly and annual records of NO_x, CO and VOM emitted with supporting calculations.

Section 6 - Insignificant Activities Requirements

1. Insignificant Activities Subject to Specific Regulations

Pursuant to 35 IAC 201.210 and 201.211, the following activities at the source constitute insignificant activities. Pursuant to Sections 9.1(d) and 39.5(6)(a) of the Act, the insignificant activities are subject to specific standards promulgated pursuant to Sections 111, 112, 165, or 173 of the Clean Air Act. The Permittee shall comply with the following applicable requirements:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units.	11	35 IAC 201.210(a)(16)

a. Applicable Requirements

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

i. New Source Performance Standard Requirements (NSPS)

- A. Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR 60 Subpart IIII)
 - I. Pursuant to 40 CFR 60.4205(b) and 60.4202(a)(2), the engines are subject to the emission limitations of 40 CFR 89.112 and 89.113.
 - II. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.2(b).
 - III. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart IIII and 40 CFR 89 Subpart B.
- B. Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40 CFR 60 Subpart JJJJ)
 - I. The engines shall meet the emission limitation requirements of 40 CFR 60.4233.
 - II. The engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.2(a).
 - III. The engines shall comply with the applicable emission limitations and operating limitations, fuel requirements, general compliance requirements, testing and initial compliance requirements, continuous compliance requirements, notifications, reports, and records and other requirements and information of 40 CFR 60 Subpart JJJJ.

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

- A. Standards of Performance for Stationary Reciprocating Internal Combustion Engines (40 CFR 60 Subpart ZZZZ)

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- I. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 63.6590(b)(3)(viii), the existing engines do not have to meet the requirements of this subpart and of subpart A including initial notification requirements.
- II. Pursuant to 40 CFR 63.6590(a)(1)(iii) and 40 CFR 60.6590(c), new engines must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines.

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 pursuant to 35 IAC 201.210 and 201.211:

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	3	35 IAC 201.210(a)(4)
Storage tanks of organic liquids with a capacity of less than 10,000 gallons and annual throughput of less than 100,000 provided the tank is not used for storage of gasoline or any listed Hazardous air pollutant pursuant to section 112(b) of the Clean Air Act.	4	35 IAC 201.210(a)(10)
Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units.	9	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 218.182, for each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 218.182, except as provided in 35 IAC 218.181.
- b. 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).
- c. 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.
- d. Pursuant to 35 IAC 218.301, no person shall cause or allow the discharge of more than 8 lbs/hr of organic material into the atmosphere from any emission source, except as provided in 35 IAC 218.302, 218.303, 218.304 and the following exception: If no odor nuisance exists the limitation of 35 IAC 215 Subpart K shall apply only to photochemically reactive material.
- e. Pursuant to 35 IAC 218.122(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

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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 218.122(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 70oF.

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. Notification 7 Days in Advance

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

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b. Notification Required at Renewal

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

c. Notification Not Required

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

Section 7 - Other Requirements

1. Testing

- a. Pursuant to Section 39.5(7) (a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The Illinois EPA 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 Illinois EPA'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 Illinois EPA, Compliance Section and Illinois EPA, 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 Illinois EPA, Compliance Section shall be notified prior to these tests to enable the Illinois EPA to observe these tests pursuant to Section 39.7(a) 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 Illinois EPA 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 Illinois EPA's ability to observe testing.

- c. Copies of the Final Report(s) for these tests shall be submitted to the Illinois EPA, 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 Illinois EPA 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). 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. Emissions Reduction Market System (ERMS) Requirements

- a. Pursuant to 35 IAC Part 205, ERMS seasonal emissions of VOM during the seasonal allotment period from May 1 through September 30 shall not exceed 10 tons/year.
- b. The Permittee shall maintain the following records to allow the confirmation of actual VOM emissions during the seasonal allotment period:
 - i. Records of operating data and other information for each individual emission unit or group of related emission units at the source, as specified in Sections 3 and 4 of this permit, as appropriate, to determine actual VOM emissions during the seasonal allotment period.
 - ii. Records of the VOM emissions, in tons, during the seasonal allotment period, with supporting calculations, for each individual emission unit or group of related emission units at the source, determined in accordance with the procedures specified in Sections 3 and 4 of this permit.
 - iii. Total VOM emissions from the source, in tons, during each seasonal allotment period, which shall be compiled by November 30 of each year.
- c. In the event that the source's VOM emissions during the seasonal allotment period equal or exceed 10 tons, the source shall become a participating source in the ERMS and beginning with the following seasonal allotment period, shall comply with 35 IAC Part 205, by holding allotment trading units (ATUs) for its VOM emissions during each seasonal allotment period, unless the source obtains exemption from the ERMS by operating with seasonal VOM emissions of no more than 15 tons pursuant to a limitation applied for and established in its CAAPP permit.

3. 40 CFR 60 Subpart A Requirements (NSPS)

a. 40 CFR 60 Subpart A and Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Pursuant to 40 CFR 60 Subpart A and **Subpart IIII**, the Permittee shall comply with the following applicable General Provisions as indicated:

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	Additional terms defined in 40 CFR 60.4219
40 CFR 60.3	Yes	Units and Abbreviations	
40 CFR 60.4	Yes	Address	
40 CFR 60.5	Yes	Determination of Construction or Modification	
40 CFR 60.6	Yes	Review of Plans	
40 CFR 60.7	Yes	Notification and Recordkeeping	Except that 40 CFR 60.7 only applies as specified in 40 CFR 60.4214 (a).
40 CFR 60.8	Yes	Performance Tests	Except that 40 CFR 60.8 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder and engines that are not certified.
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	No	Compliance with Standards and Maintenance Requirements	Requirements are specified in subpart IIII.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	Yes	Monitoring Requirements	Except that 40 CFR 60.13 only applies to stationary CI ICE with a displacement of (≥30 liters per cylinder.
40 CFR 60.14	Yes	Modification	
40 CFR 60.15	Yes	Reconstruction	
40 CFR 60.16	Yes	Priority List	
40 CFR 60.17	Yes	Incorporations by Reference	
40 CFR 60.18	No	General Control Device Requirements and Work Practice Requirements	
40 CFR 60.19	Yes	General Notification and Reporting Requirements	

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4. 40 CFR 63 Subpart A Requirements (NESHAP)

a. 40 CFR 63 Subpart A and Subpart WWWW

Pursuant to 40 CFR 63 Subpart A and **Subpart WWWW**, 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(a)(1)-(4), (6), (10)-(12), (b)(1), (3)	Yes	Applicability	
40 CFR 63.1(a)(5), (7)-(9)		[Reserved]	
40 CFR 63.1(b)(2)		[Reserved]	
40 CFR 63.1(c)(1)-(2)	Yes	Applicability of this part after a relevant standard has been set	40 CFR 63.10446 of this subpart exempts affected sources from the obligation to obtain title V operating permits for purposes of being subject to this subpart
40 CFR 63.1(c)(3)-(4)		[Reserved]	
40 CFR 63.1(c)(5)	No	Subject to notification requirements	
40 CFR 63.1(d)		[Reserved]	
40 CFR 63.1(e)	Yes	Emission limitation by permit	
40 CFR 63.2	Yes	Definitions	
40 CFR 63.3	Yes	Units and abbreviations	
40 CFR 63.4	Yes	Prohibited activities	
40 CFR 63.5	No	Construction/reconstruction	
40 CFR 63.6(a), (b)(1)-(5), (7)	Yes	Compliance with standards and maintenance requirements	
40 CFR 63.6(b)(6)		[Reserved]	
40 CFR 63.6(c)(1)	Yes	Compliance dates for existing sources	Subpart WWWW requires compliance 1 year after the effective date.
40 CFR 63.6(c)(2), (5)	No	Compliance dates for CAA section 112(f) standards and for area sources that become major	
40 CFR 63.6(c)(3)-(4)		[Reserved]	
40 CFR 63.6(d)		[Reserved]	
40 CFR 63.6(e)-(h)	No	Alternative non opacity emission standard	
40 CFR 63.6(i)-(j)	Yes	Compliance extension	
40 CFR 63.7	No	Performance testing requirements	
40 CFR 63.8	No	Monitoring requirements	

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Section 7 - Other Requirements
7.3 - 40 CFR 60 Subpart A Requirements

<i>General Provision Citation</i>	<i>General Provision Applicable?</i>	<i>Subject of Citation</i>	<i>Explanation (if required)</i>
40 CFR 63.9(a)	Yes	Applicability and initial notifications addressees	
40 CFR 63.9(b)	No	Initial notifications	
40 CFR 63.9(c)	Yes	Request for extension of compliance	
40 CFR 63.9(d)-(j)	No	Other notifications	
40 CFR 63.10(a)(1)-(2)	Yes	Recordkeeping and reporting requirements, applicability	
40 CFR 63.10(a)(3)-(4)	Yes	General information	
40 CFR 63.10(a)(5)-(7)	No	Recordkeeping and reporting requirements, reporting schedules	
40 CFR 63.10(b)(1)	Yes	Retention time	
40 CFR 63.10(b)(2)-(f)	No	Recordkeeping and reporting requirements	
40 CFR 63.11	No	Control device requirements	
40 CFR 63.12	Yes	State authority and delegations	
40 CFR 40 CFR 63.13-63.16	Yes	Addresses, Incorporations by Reference, availability of information, performance track provisions	

Section 8 - State Only Requirements

1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. 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)	5.522
Sulfur Dioxide	(SO ₂)	3.697
Particulate Matter	(PM)	5.513
Nitrogen Oxides	(NO _x)	62.770
HAP, not included in VOM or PM	(HAP)	21.193
Total		98.695

Attachment 1 - List of Emission Units at This Source

Section	Emission Units	Description
4.1	Cogeneration Plant - Natural Gas Fired Turbine	Cogeneration facility with two natural gas fired turbines with associated heat recovery steam generator (HRSG) with duct burners
4.2	Duct Burners	Cogeneration
4.3	Natural Gas Fired Boilers	Boilers are used to produce heat and steam at the source
4.4	Natural Gas Fired Boiler	Boiler is used to produce heat and steam at the source
4.5	Gasoline Storage Tank and Dispensing Operations	Gasoline storage tank is associated with gasoline non-retail dispensing operations.
4.6	Ethylene Oxide Sterilizers	Sterilizers are used for sterilization of medical instruments
4.7	Engines	Emergency Generators

Attachment 2 - Acronyms and Abbreviations

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

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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
CFR	Codified Federal Regulation
SO ₂	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

Attachment 3 - Contact and Reporting Addresses

<p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #1</p> <p style="text-align: center;">IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance & Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016 Phone No.: 847/294-4000</p> <p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276 Phone No.: 217/782-2113</p> <p>Illinois EPA, Bureau of Air Regional Office #1 9511 Harrison Street Des Plaines, Illinois 60016 Phone No.: 847/294-4000</p> <p>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</p>
<p style="text-align: center;">USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604 Phone No.: 312/353-2000</p>

Attachment 4 - Example Certification by a Responsible Official

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

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