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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 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Permittee 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 Permittee 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) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

3- General Provisions

- a. Duty to Comply - The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7)(o)(i) of the Act]
- b. Need to Halt or Reduce Activity is not a Defense - It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7)(o)(ii) of the Act]
- c. Duty to Maintain Equipment - The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7)(a) of the Act]
- d. Disposal Operations - The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7)(a) of the Act]
- e. Duty to Pay Fees
 - i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7)(o)(vi) of the Act]
 - ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
 - iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276 Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

Section 2

General Permit Requirements

- 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 Permittee of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act
 - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.

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]
 - ii. 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 shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]
- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Permittee: The IEPA may require the Permittee 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 Permittee 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 Permittee of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

5 - Recordkeeping

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

Section 2

General Permit Requirements

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.
- c. Availability of Records
 - i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
 - ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

6 - Certification

- a. Compliance Certification
 - i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
 - A. The identification of each term or condition of this permit that is the basis of the certification
 - B. The compliance status.
 - C. Whether compliance was continuous or intermittent.
 - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
 - ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
 - iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).
- b. Certification by a Responsible Official - Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

7 - Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after _____ (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.
- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

8 - Title I Conditions

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

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.

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General Permit Requirements

- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR."
 - i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN."
 - i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
 - ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

9 - Reopening and Revising Permit

- a. Permit Actions - This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]
- b. Reopening and Revision - Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur
 - i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
 - ii. Additional requirements become applicable to the source for acid deposition under the acid rain program
 - iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
 - iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements
- c. Inaccurate Application - Pursuant to Sections 39.5(5)(e) and (j) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.
- d. Duty to Provide Information - The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

10 - Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act] As of the date of this permit, this source is not subject to the ERMS program.

11 - Permit Renewal

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

12 - Permanent Shutdown

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

13 - Startup, Shutdown, and Malfunction

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

Source Requirements

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

FUGITIVE PARTICULATE MATTER**REQUIREMENTS**

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.

COMPLIANCE METHODS

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

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.	CUP	FS-OM	FS-RP	PH-PLT	VEN
Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.	CUP	FS-OM	FS-RP	PH-PLT	VEN
Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.	CUP	FS-OM	FS-RP	PH-PLT	VEN
Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.	CUP	FS-OM	FS-RP	PH-PLT	VEN
Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B.	N/A				
Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.	CUP	FS-OM	FS-RP	PH-PLT	VEN

ASBESTOS DEMOLITION AND RENOVATION**REQUIREMENTS**

Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Permittee must file an original 10-day notice of intent to renovate or demolish pursuant to Condition 3.1(c)(ii) below and 40 CFR 61.145(b), the Permittee shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.	EHS	FS-CPD	Med Ctr-PM	Med Ctr-Safety
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).	EHS	FS-CPD	Med Ctr-PM	Med Ctr-Safety
Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).	EHS	FS-CPD	Med Ctr-PM	Med Ctr-Safety

FUTURE EMISSION STANDARDS

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

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

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

EPISODE ACTION PLAN

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.	VEN	CUP
The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.	CUP	
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.	CUP	
The Episode Action Plan, as submitted by the Permittee on August 20, 2012, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO ₂ , PM ₁₀ , NO ₂ , CO and VOM emissions from various emissions units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.	CUP	
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)(iii)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.	CUP	

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).	N/A
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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.	CUP	FS-OM	FS-RP	PH-PLT
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:				
Requirements in Conditions 3.1(a)(i), 3.1(b), 3.1(c) and 3.1(d).				
Requirements in Condition 3.2(c).				
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).				
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).				
The deviation reports shall contain at a minimum the following information:				
Date and time of the deviation.				
Emission unit(s) and/or operation involved.				
The duration of the event.				
Probable cause of the deviation.				
Corrective actions or preventative measures taken.				
All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).				

Semiannual Reporting

Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.	VEN						
<table border="0"> <tr> <td><u>Monitoring Period</u></td> <td><u>Report Due Date</u></td> </tr> <tr> <td>January through June</td> <td>JULY 31</td> </tr> <tr> <td>July through December</td> <td>JANUARY 31</td> </tr> </table>	<u>Monitoring Period</u>	<u>Report Due Date</u>	January through June	JULY 31	July through December	JANUARY 31	
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January through June	JULY 31						
July through December	JANUARY 31						
The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).	VEN						

Annual Emissions Reporting

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

SEE LAST TAB FOR CONSTRUCTION PERMIT

Emission Units	Pollutants Being Regulated	Pollution Control
Boil-1 Steam Plant, 195.5 mmBtu/hr, Natural gas fired	NOx, CO, HAP	Low NOx burner
Boil-2 Steam Plant, 195.5 mmBtu/hr, Natural gas fired	NOx, CO, HAP	Low NOx burner
Boil-3 Steam Plant, 195.5 mmBtu/hr, Natural gas fired	NOx, CO, HAP	Low NOx burner
Boil-4 Steam Plant, 195.5 mmBtu/hr, Natural gas fired	NOx, CO, HAP	Low NOx burner

OPACITY and PM/PM10

REQUIREMENTS

Pursuant to 35 IAC 212.123(a), except as provided by 35 IAC 212.123(b), 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.

COMPLIANCE METHODS

Monitoring

Permittee shall perform observations for opacity in accordance with Method 22 for visible emissions at least once every calendar quarter. 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 affected boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.	CUP
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Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation for visual emissions 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.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements made in accordance with Condition 4.1.2(a)(ii)(A) above.	CUP

CARBON MONOXIDE (CO)

REQUIREMENTS

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.

COMPLIANCE METHODS

The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.1.2(c) and the work practice requirements in 4.1.2(d). Detailed in the very next cell.	CUP
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OPERATIONAL AND PRODUCTION

REQUIREMENTS

Pursuant to Section 39.5(7)(a) of the Act, when natural gas is combusted, pipeline quality natural gas shall be used.

Pursuant to Construction Permit #06080015, fuel usage by the four boilers shall not exceed 6200 million scf of natural gas per year.

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).

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type of fuel fired in the boiler.	CUP
Pursuant to 39.5(7)(b) of the Act, the Permittee shall maintain records of natural gas usage in mscf/month and mscf/year.	CUP

WORK PRACTICES

REQUIREMENTS

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

COMPLIANCE METHODS

Monitoring

Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of the boiler and associated auxiliary equipment.	CUP
Pursuant to Section 39.5(7)(a), the Permittee shall comply with the following inspection and tune-up requirements for the boilers. Inspections/tune-ups shall be conducted annually:	CUP
As applicable (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).	CUP
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.	CUP
Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.	CUP
Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.	CUP
CO must be < 200 PPM- 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).	CUP

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each monthly inspection and annual inspection/tune-up performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records onsite of annual 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.	CUP
The type and amount of fuel used over the 12 months prior to the annual tune-up of the boiler.	CUP

Construction Permit #06080015

REQUIREMENTS

Pursuant to Construction Permit #06080015, emissions of individual HAPs, i.e. formaldehyde and hexane, shall not exceed 0.0018 lb/mmBTU from each boiler and 5.6 tons/year total from the four boilers. [T1]

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).

COMPLIANCE METHODS

Testing

Pursuant to Section 39.5(7)(d) of the Act, the boiler shall be tested by USEPA Method 323 within one year upon issuance of this permit. If the compliance margin is greater than or equal to 40%, then no further testing is required. If the compliance margin is less than 40%, then testing is required once every five years. (Contract out?)	CUP	VEN
Pursuant to Section 39.5(7)(a), the Permittee shall also comply with the requirements in Section 7.1.	CUP	

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of formaldehyde and hexane emissions from the boilers including supporting calculations (pounds/mmBtu)(ton/month)(ton/year).	CUP	VEN
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GENERAL REPORTING REQUIREMENTS

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:	CUP
Requirements in Conditions 4.1.2(a)(i), 4.1.2(b)(i), 4.1.2(c)(i), 4.1.2(d)(i), and 4.1.2(e)(i).	
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).	
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).	
The deviation reports shall contain at a minimum the following information:	
Date and time of the deviation.	
Emission unit(s) and/or operation involved.	
The duration of the event.	
Probable cause of the deviation.	
Corrective actions or preventative measures taken.	

South Plant Boilers - Distillate Oil

SEE LAST TAB FOR CONSTRUCTION PERMIT

Emission Units	Pollutants Being Regulated	Pollution Control
Boil-1 Steam Plant, 195.5 mmBtu/hr, Distillate oil	PM, SO ₂ , CO, HAP	Low NO _x burner
Boil-2 Steam Plant, 195.5 mmBtu/hr, Distillate oil	PM, SO ₂ , CO, HAP	Low NO _x burner
Boil-3 Steam Plant, 195.5 mmBtu/hr, Distillate oil	PM, SO ₂ , CO, HAP	Low NO _x burner
Boil-4 Steam Plant, 195.5 mmBtu/hr, Distillate oil	PM, SO ₂ , CO, HAP	Low NO _x burner

OPACITY and PM/PM10

REQUIREMENTS PER STACK

Pursuant to 35 IAC 212.123(a), except as provided by 35 IAC 212.123(b), 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.

COMPLIANCE METHODS

Monitoring

Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for visual emissions in accordance with Method 22 for visible emissions each time the boilers are heating the source on distillate oil . The observation period shall be 12 minutes unless no visible emissions are observed in the first six minutes. 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 affected boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.	CUP
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Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation for visual emissions 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.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 opacity measurements in accordance with Condition 4.2.2(a)(ii)(A).	CUP

PARTICULATE MATTER (PM)

REQUIREMENTS

Pursuant to 35 IAC 212.206, the emissions of particulate matter (PM) into the atmosphere in any one-hour period shall not exceed 0.15 kg/MW-hr (0.10 lb/mmBtu) of actual heat input from any fuel combustion emission unit using liquid fuel exclusively.

COMPLIANCE METHODS

Testing

Pursuant to Section 39.5(7)(d) of the Act, the boilers shall be tested by USEPA Method 5 upon operation of 48 hours in this mode in a calendar year. Testing shall occur within 90 days after the 48 hours per calendar year threshold has been exceeded.	CUP
Pursuant to Section 39.5(7)(a), the Permittee shall also comply with the requirements in Section 7.1.	CUP

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions from the boilers when fired with distillate oil including supporting calculations (pounds/mmBtu).	CUP	VEN
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SULFUR DIOXIDE (SO₂)

REQUIREMENTS

Pursuant to 35 IAC 214.161(b), no person shall cause or allow the emission of sulfur dioxide (SO₂) into the atmosphere in any one-hour period from any existing fuel combustion emission unit, burning liquid fuel exclusively to exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lb/mmBtu).

Pursuant to Section 39.5(7)(b) of the Act, the sulfur content of the distillate fuel oil shall not exceed 0.28 weight percent.

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO2 emissions from the boilers when fired with distillate fuel oil including supporting calculations (pounds/mmBtu).	CUP	VEN
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the sulfur content of the distillate fuel oil (weight percent).	CUP	

CARBON MONOXIDE (CO)

REQUIREMENTS

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.

COMPLIANCE METHODS

The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.2.2(e) and the work practice requirements in 4.2.2(f). Detailed directly below, starting in next cell.	CUP
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OPERATIONAL AND PRODUCTION

REQUIREMENTS

Monitoring (as so described in cell above when referencing this condition, which is 4.2.2€

Pursuant to Section 39.5(7)(a) of the Act, distillate oil with a sulfur content of no more than 0.3 weight percent shall be the only fuel used in the boiler.
Pursuant to Construction Permit #06080015, total distillate oil usage for the four boilers shall not exceed 2.5 million gallons per year.
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).
Pursuant to Section 39.5(7)(a) of the Act, each boiler is allowed to operate on liquid fuel up to 48 hours for periodic testing, periods of gas curtailment and gas supply interruptions only, during a calendar year.

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type of fuel fired in the boiler and sulfur content.	CUP
Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the amount of distillate oil used in gallons/month and gallons/year.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the reason for distillate oil use and hours of operation when fired with distillate fuel oil (hours/month and hours/year) to ensure each unit stays below 48 hours on oil.	CUP

WORK PRACTICES

REQUIREMENTS

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

COMPLIANCE METHODS

Monitoring

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

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each monthly inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.	CUP
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Construction Permit #06080015

REQUIREMENTS

Pursuant to Construction Permit #06080015, emissions of individual HAPs, i.e. formaldehyde and hexane, shall not exceed 0.0018 lb/mmBTU from each boiler and 5.6 tons/year total from the four boilers. [T1]

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).

COMPLIANCE METHODS

Testing

Pursuant to Section 39.5(7)(d) of the Act, the boiler shall be tested by USEPA Method 323 upon operation of 48 hours of oil usage in single unit in a calendar year. Testing shall occur within 90 days after the 48 hours per calendar year threshold has been exceeded.	CUP	VEN
Pursuant to Section 39.5(7)(a), the Permittee shall also comply with the requirements in Section 7.1.	CUP	

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of formaldehyde and hexane emissions from the boilers including supporting calculations in lb/mmBtu, tons/month and tons/year.	CUP	VEN
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GENERAL REPORTING REQUIREMENTS

Pursuant to Section 39.5(7)(f)(iii) 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:	CUP
Requirements in Conditions 4.2.2(a)(i), 4.2.2(b)(i), 4.2.2(c)(i), 4.2.2(d)(i), 4.2.2(e)(i), 4.2.2(f)(i) and 4.2.2(g)(i).	
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).	
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).	
The deviation reports shall contain at a minimum the following information:	
Date and time of the deviation.	
Emission unit(s) and/or operation involved.	
The duration of the event.	
Probable cause of the deviation.	
Corrective actions or preventative measures taken.	

Section 4.3

West Plant Boilers - Natural Gas

<u>Emission Units</u>	<u>Pollutants Being Regulated</u>	<u>Control Devices</u>
Boil-5 West Plant, 300 mmBtu/hr, Natural gas fired	PM/PM10, CO, SO2, NOx, HAP	Low NOx burner
Boil-6 West Plant, 300 mmBtu/hr, Natural gas fired	PM/PM10, CO, SO2, NOx, HAP	Low NOx burner

OPACITY and PM/PM10

REQUIREMENTS PER STACK

Opacity (emission of smoke or other particulate matter) may not exceed 20%

Per Construction Permit # 06080015 emissions of PM/PM10, from each boiler shall not exceed 0.007 lb/mmBtu, 2.2 lb/hr and 8.0 ton/year.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

COMPLIANCE METHODS PER STACK

Monitoring

Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity in accordance with Method 22 for visible emissions at least once every calendar quarter. 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 affected boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity, Method 9, in accordance with Condition 4.4.2(a)(ii)(D) shall be conducted within 7 days in accordance with Condition 2.4.	CUP
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 affected boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity, Method 9, in accordance with Condition 4.4.2(a)(ii)(D) and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.	CUP
Method 9 shall be conducted in accordance with Condition 4.4.2(a)(ii)(D) and Section 7.1. at least once every calendar year.	CUP

Recordkeeping

Keep records for each observation for visual emissions 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.	CUP	
Keep records for all Method 9 opacity measurements in accordance with Condition 4.3.2(a)(ii)(A) and (B) above.	CUP	
Maintain records of the above emissions from the boiler including supporting calculations in lb/mmBtu, pounds/hour, ton/month, and ton/year.	CUP	VEN

CARBON MONOXIDE (CO) and VOLATILE ORGANIC MATERIAL (VOM)

REQUIREMENTS

Emission of carbon monoxide (CO) shall not exceed 200 ppm, corrected to 50 percent excess air

Emissions of CO from each boiler shall not exceed 0.1 lb/mmBtu, 30 lb/hr and 75 ton/year.

Emissions of VOM from each boiler shall not exceed 1.6 lb/hr and 6.0 ton/year.

Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

COMPLIANCE METHODS

Monitoring

The monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.3.2(f) and the work practice requirements in 4.3.2(g).	CUP	VEN
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West Plant Boilers - Natural Gas

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boilers including supporting calculations in lb/mmBTU, pounds/hour, ton/month, and ton/year.	CUP	VEN
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NITROGEN OXIDES (NOx)

REQUIREMENTS

Pursuant to 40 CFR 60.44b(l)(1) gases containing NOx shall not exceed 86 ng/J (0.20 lb/MMBtu) heat input if the affected facility combusts natural gas.

Pursuant to Construction Permit #06080015, emissions of NOx from each boiler shall not exceed 0.035 lb/mmBtu, 10.5 lb/hr and 25 ton/year.

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).

COMPLIANCE METHODS

Monitoring

Pursuant to 40 CFR 60.44b(h) the standard in 40 CFR 60.44b(l)(1) applies at all times including periods of startup, shutdown, or malfunction.	CUP	VEN
Pursuant to 40 CFR 60.44b(i), compliance with the emission limits in 40 CFR 60.44b(l)(1) is determined on a 30 day rolling average basis.	CUP	VEN
Pursuant to 40 CFR 60.46b(c), (e) and 40 CFR 60.48b(b)(1), the Permittee shall calibrate, maintain and operate CEMS for measuring NOx and O2 (or CO2).	CUP	VEN
Pursuant to 40 CFR 60.48b(e), the Permittee shall evaluate and operate the continuous monitoring system according to the procedures of 40 CFR 60.13.	CUP	VEN
Pursuant to 40 CFR 60.48b(f), when NOX emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7A or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.	CUP	VEN

Recordkeeping

Pursuant to 40 CFR 60.48b(b)(1) and (c), the Permittee shall record the output of the CEMS during all periods of operation except during CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	CUP	VEN				
Pursuant to 40 CFR 60.48b(d), the Permittee shall measure the 1-hour average NOX emission rates from the CEMS in ng/J or lb/MMBtu heat input and use this to calculate the average emission rates. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2).	CUP	VEN				
Pursuant to 40 CFR 60.48b(e)(2), the span value for NOX is determined using one of the following procedures: <table style="margin-left: 40px;"> <tr> <td style="text-align: center;">Fuel _____</td> <td style="text-align: center;">Span values for NOX (ppm)</td> </tr> <tr> <td style="text-align: center;">Natural gas</td> <td style="text-align: center;">500</td> </tr> </table> <p style="text-align: center;">OR</p>	Fuel _____	Span values for NOX (ppm)	Natural gas	500	CUP	VEN
Fuel _____	Span values for NOX (ppm)					
Natural gas	500					
The Permittee may elect to use the NOX span values determined according to section 2.1.2 in appendix A to part 75 of 40 CFR.						
Pursuant to 40 CFR 60.49b(g), the Permittee shall maintain records of the following information for each steam generating unit operating day:						
(1) Calendar date;	CUP	VEN				
(2) The average hourly NOX emission rates (expressed as NO2) (ng/J or lb/MMBtu heat input) measured or predicted;	CUP	VEN				
(3) The 30-day average NOX emission rates (ng/J or lb/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;	CUP	VEN				

West Plant Boilers - Natural Gas

(4) Identification of the steam generating unit operating days when the calculated 30-day average NOX emission rates are in excess of the NOX emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;	CUP	VEN
(5) 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;	CUP	VEN
(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;	CUP	VEN
(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;	CUP	VEN
(8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;	CUP	VEN
(9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and	CUP	VEN
(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	CUP	VEN
Maintain records of the above emissions from the boilers including supporting calculations in lb/mmBtu, pounds/hour, ton/month, and ton/year.	CUP	VEN

SULFUR DIOXIDE (SO2)

REQUIREMENTS

SO2 from each boiler shall not exceed 0.2 lb/hr and 0.8 ton/year.

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).

COMPLIANCE METHODS

Recordkeeping

Maintain records of the above emissions from the boilers including supporting calculations in pounds/hour, ton/month, and ton/year.	CUP	VEN
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HAZARDOUS AIR POLLUTANTS (HAP)

REQUIREMENTS

Emissions of formaldehyde from each boiler shall not exceed 0.0018 lb/mmBtu and 2.0 ton/year.
Emissions of hexane from each boiler shall not exceed 0.0018 lb/mmBtu and 2.0 ton/year.

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boilers including supporting calculations in lb/mmBTU, pounds/hour, ton/month, and ton/year.	CUP	VEN
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OPERATIONAL AND PRODUCTION

REQUIREMENTS

Natural gas and distillate oil shall be the only fuels fired in the boilers

Heat input to the boilers shall not exceed 446,400 million Btu/month and 1,502,000 million Btu/year. [T1]

Pursuant to Construction Permit #06080015, the fuel usage by the boilers shall not exceed the natural gas usage of 1,360 million scf per year. [T1]

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).

Burn only pipeline quality natural gas.

West Plant Boilers - Natural Gas**COMPLIANCE METHODS****Recordkeeping**

Maintain records of the type of fuels fired in the boilers.	CUP
Maintain records of the heat input to the boilers in mmBtu/month and mmBtu/year.	CUP
Maintain records of fuel usage in mm scf / month and mm scf / year.	CUP

WORK PRACTICES**REQUIREMENTS**

At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any boiler including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

COMPLIANCE METHODS**Monitoring**

Perform monthly inspections of the boiler and associated auxiliary equipment.	CUP
Pursuant to Section 39.5(7)(a), comply with the following inspection and tune-up requirements for the boilers. Inspections/tune-ups shall be conducted annually:	CUP
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).	CUP
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.	CUP
Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.	CUP
Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.	CUP
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).	CUP

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each monthly inspection and annual tune-up performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records onsite of annual tune-ups containing the following information:	CUP
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.	CUP
The type and amount of fuel used over the 12 months prior to the annual tune-up of the boiler.	CUP
Record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor as defined in 40 CFR 60.41b for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.	CUP

West Plant Boilers - Natural Gas

GENERAL REPORTING REQUIREMENTS

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:	CUP
Requirements in Conditions 4.3.2(a)(i), 4.3.2(b)(i), 4.3.2(c)(i), 4.3.2(d)(i), 4.3.2(e)(i), 4.3.2(f)(i) and 4.3.2(g)(i).	
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).	
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).	
The deviation reports shall contain at a minimum the following information:	
Date and time of the deviation.	
Emission unit(s) and/or operation involved.	
The duration of the event.	
Probable cause of the deviation.	
Corrective actions or preventative measures taken.	

Federal Reporting

Submit to the Illinois EPA, Compliance Section, the performance evaluation of the NOx CEMS using the applicable performance specifications in Appendix B of this part. This information shall be submitted with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN
Pursuant to 40 CFR 60.49b(i), the Permittee shall submit reports containing the information recorded in Condition 4.3.2(c)(ii)(I), along with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN

West Plant Boilers -Distillate Oil

<u>Emission Units</u>	<u>Pollutants Being Regulated</u>	<u>Pollution Control Devices</u>
Boil-5 West Plant, 300 mmBtu/hr, distillate oil	PM, SO ₂ , CO, NO _x , HAP, VOM	Low NO _x burner
Boil-6 West Plant, 300 mmBtu/hr, distillate oil	PM, SO ₂ , CO, NO _x , HAP, VOM	Low NO _x burner

OPACITY and PM/PM10**REQUIREMENTS PER STACK**

Pursuant to 40 CFR 60.43b(f), opacity from each affected boiler shall not exceed 20 percent, as measured on a six minute average, except for one six minute period per hour of not more than 27 percent. As provided by 40 CFR 60.43b(g) and 60.46b(a), this limit apply at all times except during periods of startup, shutdown, or malfunction.

Pursuant to 35 IAC 212.122(a), except as provided by 35 IAC 212.122(b), no person shall cause or allow the emission of smoke or other particulate matter into the atmosphere from any fuel combustion emission unit for which construction or modification commenced on or after April 14, 1972, with actual heat input greater than 73.2 MW (250 mmbtu/hr), having an opacity greater than 20 percent.

COMPLIANCE METHODS PER STACK**Monitoring**

Pursuant to 40 CFR 60.46b(d)(7), Method 9 shall be used to determine the opacity of visible emissions. (Only necessary if Method 22 observation shows visible emissions)	CUP
Pursuant to 40 CFR 60.49b(h)(3), excess emissions are defined as all 6-minute periods during which the average opacity exceeds the NSPS standard in Condition 4.4.2(a)(i)(A).	CUP
Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for visual emissions in accordance with Method 22 for visible emissions each time the boilers are heating the source on distillate oil. 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 affected boiler and/or maintenance and repair. If corrective action was taken the Permittee shall perform a follow-up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity, Method 9, in accordance with Condition 4.4.2(a)(ii)(D) and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.	CUP
Pursuant to 40 CFR 60.48b(a), Method 9 performance test and the procedures in 40 CFR 60.11 shall be conducted and must comply with one of the following scenarios. The observation period for Method 9 performance tests may be reduced from 3 hours to 60 minutes if all 6-minute averages are less than 10 percent and all individual 15-second observations are less than or equal to 20 percent during the initial 60 minutes of observation.	CUP
If no visible emissions are observed, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 12 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;	CUP
If visible emissions are observed but the maximum 6-minute average opacity is less than or equal to 5 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 6 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later;	CUP
If the maximum 6-minute average opacity is greater than 5 percent but less than or equal to 10 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 3 calendar months from the date that the most recent performance test was conducted or within 45 days of the next day that fuel with an opacity standard is combusted, whichever is later; or	VEN
If the maximum 6-minute average opacity is greater than 10 percent, a subsequent Method 9 of appendix A-4 of this part performance test must be completed within 45 calendar days from the date that the most recent performance test was conducted. OR	
If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A-4 of this part performance test, the Permittee may, as an alternative to performing subsequent Method 9 of appendix A-4 of this part performance tests, elect to perform subsequent monitoring using Method 22 of appendix A-7 of this part according to the procedures specified in paragraphs (a) and (b) below.	VEN
Conduct 10 minute observations (during normal operation) each operating day the affected facility fires fuel for which an opacity standard is applicable using Method 22 of appendix A-7 of this part and demonstrate that the sum of the occurrences of any visible emissions is not in excess of 5 percent of the observation period (i.e. , 30 seconds per 10 minute period). If the sum of the occurrence of any visible emissions is greater than 30 seconds during the initial 10 minute observation, immediately conduct a 30 minute observation. If the sum of the occurrence of visible emissions is greater than 5 percent of the observation period (i.e., 90 seconds per 30 minute period), the Permittee shall either document and adjust the operation of the facility and demonstrate within 24 hours that the sum of the occurrence of visible emissions is equal to or less than 5 percent during a 30 minute observation (i.e., 90 seconds) or conduct a new Method 9 of appendix A-4 of this part performance test using the procedures in paragraph (a) of this section within 45 calendar days according to the requirements in §60.46b(d)(7).	
(b) If no visible emissions are observed for 10 operating days during which an opacity standard is applicable, observations can be reduced to once every 7 operating days during which an opacity standard is applicable. If any visible emissions are observed, daily observations shall be resumed.	CUP

West Plant Boilers -Distillate Oil

If the maximum 6-minute opacity is less than 10 percent during the most recent Method 9 of appendix A-4 of this part performance test, the Permittee may, as an alternative to performing subsequent Method 9 of appendix A-4 performance tests, elect to perform subsequent monitoring using a digital opacity compliance system according to a site-specific monitoring plan approved by the Administrator. The observations shall be similar, but not necessarily identical, to the requirements in paragraph (a)(2) of this section.	VEN
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Recordkeeping

For each performance test conducted using Method 9 the Permittee shall keep the records including the following information:	
Dates and time intervals of all opacity observation periods;	CUP
Name, affiliation, and copy of current visible emission reading certification for each visible emission observer participating in the performance test; and	CUP
Copies of all visible emission observer opacity field data sheets;	CUP
For each performance test conducted using Method 22 the Permittee shall keep the records including the following information:	CUP
Dates and time intervals of all visible emissions observation periods;	CUP
Name and affiliation for each visible emission observer participating in the performance test;	CUP
Copies of all visible emission observer opacity field data sheets; and	CUP
Documentation of any adjustments made and the time the adjustments were completed to the affected facility operation by the Permittee to demonstrate compliance with the applicable monitoring requirements.	CUP

PARTICULATE MATTER (PM)

REQUIREMENTS

Pursuant to 35 IAC 212.206, the emissions of particulate matter from each affected boiler in any one hour shall not exceed 0.15 kg of particulate matter per MW-hr of actual heat input using liquid fuel exclusively (0.10 lbs/mmbtu).

Pursuant to 40 CFR 60.43b(h)(5), the Permittee does not have to meet the PM limits contained in this NSPS if using fuel oil that contains no more than 0.3 weight percent sulfur, but pursuant to 40 CFR 60.49b(r), it must meet recordkeeping requirements.

Pursuant to Construction Permit #06080015, PM/PM10 emissions from each boiler shall not exceed 0.024 lb/mmBtu, 7.2 lb/hr and 2.0 ton/year.

COMPLIANCE METHODS

Testing

Pursuant to Section 39.5(7)(d) of the Act, the boilers shall be tested by USEPA Method 5 upon operation of 48 hours in this mode in a calendar year. Testing shall occur within 90 days after the 48 hours per calendar year threshold has been exceeded.	CUP
Pursuant to Section 39.5(7)(a), the Permittee shall also comply with the requirements in Section 7.1.	CUP

Recordkeeping

Pursuant to 40 CFR 60.49b(r), the Permittee, demonstrating that the source combusts very low sulfur oil or natural gas that are known to contain an insignificant amount of sulfur, shall obtain and maintain at the source, fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that oil meets the definition of distillate oil as defined in 40 CFR 60.41b and that the sulfur content is less than 0.3 weight percent.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boiler including supporting calculations in lb/mmBtu, pounds/hour, ton/month, and ton/year.	CUP VEN

SULFUR DIOXIDE (SO2)

REQUIREMENTS

Pursuant to 35 IAC 214.121(b)(2) the emissions of sulfur dioxide in any one hour period from any new fuel combustion emission source greater than 73.2 MW (250 mmbtu/hr), burning liquid fuel exclusively, shall not exceed 0.46 kg of sulfur dioxide per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mmbtu).

Pursuant to 40 CFR 60.42b(k)(2), the Permittee does not have to meet the SO2 limits contained in 40 CFR 60.42b(k)(1) if complying by the use of fuel oil with a SO2 potential emission rate of 0.32 lb/mmBtu heat input, but pursuant to 40 CFR 60.49b(r), it must meet recordkeeping requirements.

Pursuant to Construction Permit #06080015, emissions of SO2 from each boiler shall not exceed 17.1 lb/hr and 4.8 ton/year.

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).

West Plant Boilers -Distillate Oil**COMPLIANCE METHODS****Recordkeeping**

Pursuant to 40 CFR 60.49(r), the Permittee shall keep records in accordance with Condition 4.4.2(b)(ii)(C).	CUP	
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO ₂ emissions from the boilers when fired with distillate fuel oil including supporting calculations (pounds/mmBtu).	CUP	VEN
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boiler including supporting calculations in pounds/hour, ton/month, and ton/year.	CUP	VEN

CARBON MONOXIDE (CO) and VOLATILE ORGANIC MATERIAL (VOM)**REQUIREMENTS**

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.

Pursuant to Construction Permit #06080015, emissions of CO from each boiler shall not exceed 0.036 lb/mmBtu, 10.9 lb/hr and 3.0 ton/year.

Pursuant to Construction Permit #06080015, emissions of VOM from each boiler shall not exceed 1.6 lb/hr and 0.4 ton/year.

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).

COMPLIANCE METHODS**Monitoring**

The periodic monitoring requirements sufficient to meet 39.5(7)(f) of the Act are addressed by the operational and production requirements in Condition 4.4.2(g) and the work practice requirements in 4.4.2(h).	CUP	
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Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boiler including supporting calculations in lb/mmBtu, pounds/hour, ton/month, and ton/year.	CUP	VEN
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NITROGEN OXIDE (NO_x)**REQUIREMENTS**

Pursuant to 40 CFR 60.44b(l)(1) gases containing NO_x discharged into the atmosphere from an affected facility shall not exceed 86 ng/l (0.20 lb/MMBtu) heat input if the affected facility combusts oil.

Pursuant to Construction Permit #06080015, NO_x emissions from each boiler shall not exceed 0.073 lb/mmBtu, 21.7 lb/hr and 2.7 ton/yr.

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).

COMPLIANCE METHODS**Monitoring**

Pursuant to 40 CFR 60.44b(h) the standard applies at all times including start-up, shut down and malfunction.	CUP	VEN
Pursuant to 40 CFR 60.44b(i), compliance with the emission limits is determined on a 30 day rolling average basis.	CUP	VEN
Pursuant to 40 CFR 60.46b(c), (e) and 40 CFR 60.48b(b)(1), the Permittee shall calibrate, maintain and operate CEMS for measuring NO _x and O ₂ (or CO ₂).	CUP	VEN
Pursuant to 40 CFR 60.48b(e), the Permittee shall evaluate and operate the continuous monitoring system according to the procedures of 40 CFR 60.13.	CUP	VEN
Pursuant to 40 CFR 60.48b(f), when NO _x emission data are not obtained because of CEMS breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7A or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.	CUP	VEN

West Plant Boilers -Distillate Oil**Recordkeeping**

Pursuant to 40 CFR 60.48b(b)(1) and (c), the Permittee shall record the output of the CEMS during all periods of operation except during CEMS breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	CUP	VEN				
Pursuant to 40 CFR 60.48b(d), the Permittee shall measure the 1-hour average NOX emission rates from the CEMS in ng/J or lb/MMBtu heat input and use this to calculate the average emission rates. The 1-hour averages shall be calculated using the data points required under 40 CFR 60.13(h)(2).	CUP	VEN				
Pursuant to 40 CFR 48b(e)(2), the span value for NOX is determined using one of the following procedures:						
<table border="0" style="width: 100%;"> <tr> <td style="text-align: center; width: 30%;"><u>Fuel</u></td> <td style="text-align: center; width: 70%;"><u>Span values for NOX (ppm)</u></td> </tr> <tr> <td style="text-align: center;">Oil</td> <td style="text-align: center;">500</td> </tr> </table>	<u>Fuel</u>	<u>Span values for NOX (ppm)</u>	Oil	500	CUP	VEN
<u>Fuel</u>	<u>Span values for NOX (ppm)</u>					
Oil	500					
OR						
The Permittee may elect to use the NOX span values determined according to section 2.1.2 in appendix A to part 75 of 40 CFR 60.						
Pursuant to 40 CFR 60.49b(g), the Permittee shall maintain records of the following information for each steam generating unit operating day:						
(1) Calendar date;	CUP	VEN				
(2) The average hourly NOX emission rates (expressed as NO2) (ng/J or lb/MMBtu heat input) measured or predicted;	CUP	VEN				
(3) The 30-day average NOX emission rates (ng/J or lb/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;	CUP	VEN				
(4) Identification of the steam generating unit operating days when the calculated 30-day average NOX emission rates are in excess of the NOX emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken;	CUP	VEN				
(5) 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;	CUP	VEN				
(6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data;	CUP	VEN				
(7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted;	CUP	VEN				
(8) Identification of the times when the pollutant concentration exceeded full span of the CEMS;	CUP	VEN				
(9) Description of any modifications to the CEMS that could affect the ability of the CEMS to comply with Performance Specification 2 or 3; and	CUP	VEN				
(10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under appendix F, Procedure 1 of this part.	CUP	VEN				
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boiler including supporting calculations in lb/mmBTU, pounds/hour, ton/month, and ton/year.	CUP	VEN				

HAZARDOUS AIR POLLUTANTS (HAP)**REQUIREMENTS**

Pursuant to Construction Permit #06080015, emissions of Formaldehyde from each boiler shall not exceed 0.0002 lb/mmBtu and 0.1 ton/year.

Pursuant to Construction Permit #06080015, emissions of Hexane from each boiler shall not exceed 0.0002 lb/mmBtu and 0.1 ton/year.

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).

COMPLIANCE METHODS**Recordkeeping**

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the above emissions from the boiler including supporting calculations in lb/mmBTU, ton/month, and ton/year.	CUP	VEN
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West Plant Boilers -Distillate Oil**OPERATIONAL AND PRODUCTION****REQUIREMENTS**

Pursuant to Construction Permit #06080015, distillate oil and natural gas shall be the only fuels fired in the boilers [T1]:

Pursuant to Construction Permit #06080015, the heat input to the affected boilers shall not exceed 446,400 million Btu/month and 1,502,000 million Btu/year. [T1]

Pursuant to Construction Permit #06080015, the fuel usage by the affected boilers shall not exceed the distillate oil usage of 544 thousand gallons per year. [T1]

Pursuant to Section 39.5(7)(a) of the Act, the boiler shall not exceed 48 hours of periodic testing, periods of gas curtailment, gas supply and interruption on liquid fuel during a calendar year.

Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall only use very low sulfur oil that contains less than 0.3% weight sulfur.

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).

COMPLIANCE METHODS**Recordkeeping**

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the type of fuels fired in the boilers with sulfur content.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the heat input to the boilers in mmBtu/month and mmBtu/year.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of fuel usage in gallons per month and gallons per year.	CUP
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the reason for distillate oil use and hours of operation when fired with distillate fuel oil (hours/month and hours/year).	CUP

WORK PRACTICES**REQUIREMENTS**

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 boiler including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

COMPLIANCE METHODS**Monitoring**

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

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each monthly inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.	CUP
Pursuant to 40 CFR 60.49b(d)(1), the Permittee shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor as defined in 40 CFR 60.41b for distillate oil. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.	CUP

West Plant Boilers -Distillate Oil**GENERAL REPORTING REQUIREMENTS**

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:	CUP
Requirements in Conditions 4.4.2(a)(i), 4.4.2(b)(i), 4.4.2(c)(i), 4.4.2(d)(i), 4.4.2(e)(i), 4.4.2(f)(i), 4.4.2(g)(i) and 4.4.2(h)(i).	
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).	
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).	
The deviation reports shall contain at a minimum the following information:	
Date and time of the deviation.	
Emission unit(s) and/or operation involved.	
The duration of the event.	
Probable cause of the deviation.	
Corrective actions or preventative measures taken.	
Federal Reporting	
Pursuant to 40 CFR 60.49b(b) the Permittee shall submit to the Illinois EPA, Compliance Section, the performance evaluation of the NOx CEMS using the applicable performance specifications in Appendix B, Specification 2 of 40 CFR 60 Subpart Db. This information shall be submitted with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN
Pursuant to 40 CFR 60.49b(r) the Permittee shall submit to the Illinois EPA, Air Compliance Section, a report certifying that only very low sulfur oil was used during the reporting period. This information shall be submitted with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN
Pursuant to 40 CFR 60.49b(h)(3), the Permittee must report excess emission reports for all 6-minute periods during which the average opacity exceeded the standard in Condition 4.4.2(a)(i)(A) during the reporting period. This information shall be submitted with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN
Pursuant to 40 CFR 60.49b(i), the Permittee shall submit reports containing the information recorded in Condition 4.4.2(e)(ii)(I), along with the Semiannual Monitoring Report required by Condition 3.5(b).	VEN

Emergency Generators - pre-2006

Emission Units	Pollutants Being Regulated	Original Construction Date
Eng-1 (DCAM) - 1183 kW Diesel Engine	SO2	1995
Eng-2 (DCAM) - 1383 kW Diesel Engine	SO2	1995
Eng-3 (GCIS) - 1879 kW Diesel Engine	SO2	2004
Eng-4 (GCIS) - 1879 kW Diesel Engine	SO2	2004
Eng-5 (Comer) - 1195 kW Diesel Engine	SO2	2004
Eng-6 (Comer) - 1195 kW Diesel Engine	SO2	2004
Eng-7 (Comer) - 2145 kW Diesel Engine	SO2	3/9/2006

OPACITY

REQUIREMENTS

Pursuant to 35 IAC 212.123(a), except as provided by 35 IAC 212.123(b), 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.

COMPLIANCE METHODS

Monitoring

Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity in accordance with Method 9 for visible emissions at least once every calendar year.	PH-PLT	FS-OM
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Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with Method 9.	PH-PLT	FS-OM
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SULFUR DIOXIDE (SO2)

REQUIREMENTS

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.

COMPLIANCE METHODS

Monitoring

Pursuant to Section 39.5(7)(b) and (d) of the Act, the Permittee shall use only ultra-low sulfur diesel fuel.	PH-PLT	FS-OM
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Recordkeeping

Pursuant to 39.5(b) of the Act, the Permittee shall keep records of fuel invoices indicating the sulfur content.	PH-PLT	FS-OM
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Operational and Production

REQUIREMENTS

Pursuant to Section 39.5(7)(a) of the Act, distillate fuel oils shall be the only fuels fired in the engines.

Pursuant to 40 CFR 63.6675 and 40 CFR 63.6640 (f)(1), of Subpart ZZZZ, in order to be deemed emergency and not subject to the requirements of Subpart ZZZZ, the Permittee must use the RICE to provide electrical power or mechanical work during an emergency situation. There is no time limit on the use of emergency stationary RICE in an emergency situation.

Pursuant to 40 CFR 63.6675 and 40 CFR 63.6640 (f)(2) of Subpart ZZZZ, in order to be deemed emergency and not subject to the requirements of Subpart ZZZZ, the Permittee must operate each engine less than equal or to 100 hours per calendar year for maintenance, testing and emergency demand response.

Pursuant to 40 CFR 63.6675 and 40 CFR 63.6640(f)(4) of Subpart ZZZZ, in order to be deemed emergency and not subject to the requirements of Subpart ZZZZ, the Permittee must operate each RICE for less than or equal to 50 hours per year in non-emergency situations and as described in 40 CFR 63.6640(f)(4)(i) and (ii). This time is counted towards the 100 hours of operation in Condition 4.6(c)(i)(C) above.

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the type of fuel fired in the engines.	PH-PLT	FS-OM
Pursuant to 39.5(7)(b) of the Act the Permittee must document 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. If the engines are used for demand response operation, the Permittee must keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response.	PH-PLT	FS-OM

Work Practice Requirements

Section 4.6

Emergency Generators - pre-2006

REQUIREMENTS

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.

COMPLIANCE METHODS

Monitoring

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.	PH-PLT	FS-OM
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Recordkeeping

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.	PH-PLT	FS-OM
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Non-Applicability Determinations

The engines are not subject to the New Source Performance Standards (NSPS) for Stationary Compression Ignition Internal Combustion Engines, 40 CFR Part 60 Subpart IIII, because the engines were constructed (ordered) prior to July 11, 2005
Pursuant to 40 CFR 63.6585(f)(3), institutional emergency engines meeting the definition of 40 CFR 63.6640(f) and 40 CFR 63.6675, are not subject to 40 CFR 63 Subpart ZZZZ.
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.
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 in 35 IAC 211.1920.
The engines are not subject to 35 IAC 218.301, because diesel fuel oil is not an organic material as defined in 35 IAC 211.4250(b).
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.

GENERAL REPORTING

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:	PH-PLT	FS-OM
Requirements in Conditions 4.6.2(a)(i), 4.6.2(b)(i), 4.6.2(c)(i) and 4.6.2(d)(i).		
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).		
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).		
The deviation reports shall contain at a minimum the following information:		
Date and time of the deviation.		
Emission unit(s) and/or operation involved.		
The duration of the event.		
Probable cause of the deviation.		
Corrective actions or preventative measures taken.		

Section 4.5

Motor Pool - Gasoline Tank

<u>Emission Units</u> 12,000 gal Gasoline Storage Tank	<u>Pollutants Being Regulated</u> VOM	<u>Pollution Control</u> Submerged Loading Pipe & Vapor Recovery System
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VOLATILE ORGANIC MATERIAL (VOM)

REQUIREMENTS

Pursuant to 35 IAC 218.122(b), the Permittee shall not allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 1 (250 gal) unless such tank is equipped with a permanent submerged loading pipe.

Pursuant to 35 IAC 218.583(a) the Permittee shall not cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing operation unless:

The tank is equipped with a submerged loading pipe.

The vapors displaced from the storage tank during filling and processed by a vapor control system that includes a:

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).

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.

Pursuant to 35 IAC 218.583(c), the Permittee shall:

Install all control systems and make all process modifications required by 35 IAC 218.583(a);

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

Repair, replace or modify any worn out or malfunctioning component or element of design.

COMPLIANCE METHODS

Monitoring

Pursuant to 35 IAC 218.583(d) and 39.5(7)(a) of the Act, the Permittee of a gasoline dispensing operation shall fulfill the following by making monthly inspections:		
Maintain and operate each vapor control system in accordance with the owner's instructions,	FS-CS	
Promptly notify the owner of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system;	FS-CS	
Maintain gauges, meters or other specified testing devices in proper working order;	FS-CS	
Operate the vapor collection system and delivery vessel unloading points in a manner that prevents:	FS-CS	
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 Section 218.112 of this Part-; and	FS-CS	VEN
Avoidable leaks of liquid during the filling of storage tanks; and	FS-CS	
Pursuant to 39.5(7)(a) of the Act, the Permittee shall check for the presence and integrity of a submerged loading pipe	FS-CS	
Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall check for spills, missing gaskets, and proper placement of covers.	FS-CS	
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 lower explosive limit above.	FS-CS	VEN

Testing

Pursuant to 218.583(a)(4), the Permittee demonstrates compliance with Condition 4.5.2(a)(i)(B)(III), annually by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test shall be performed on each tank vent pipe within two hours after product delivery into the respective storage tank. For manifold tank vent systems, observations at any point within the system shall be adequate.	FS-CS	VEN
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Recordkeeping

Pursuant to Section 39.5 (7)(b)of the Act, Permittee shall maintain records of the tank vent pipe pressure, the date/time pressure was recorded, and the date/time of product delivery into the tank.	FS-CS
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the presence of the submerged loading pipe.	FS-CS

Section 4.5

Motor Pool - Gasoline Tank

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records demonstrating that the vapor recovery system meets 100 percent or greater than the lower explosive limit with all supporting information necessary to show that EPA 450/2-78-05 procedures were followed.	FS-CS
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records demonstrating that the delivery vessel displayed the appropriate sticker.	FS-CS
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each inspection performed along with a maintenance and repair log. These records shall include, at a minimum: date and time inspections were performed, name(s) of inspection personnel, identification of equipment being inspected, findings of the inspections, operation and maintenance procedures, and a description of all maintenance and repair activities performed including if the activity resulted in a modification or reconstruction of the piece of equipment.	FS-CS

Operational and Production Requirements

REQUIREMENTS

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

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(a) and (d) of the Act, the Permittee shall keep monthly and annual records of gasoline throughput in gallons.	FS-CS	
Pursuant to 40 CFR 63.11116(4)(b), the Permittee must have records available within 24 hours of a request by the Illinois EPA/USEPA, indicating that throughput is less than 10,000 gallons/month.	FS-CS	
Pursuant to Sections 39.5(7)(a) of the Act, compliance shall be determined by the use of a monthly rolling average (the sum of the data for the current month plus the preceding 11 months).	FS-CS	VEN

Work Practice Requirements

REQUIREMENTS

Pursuant to 40 CFR 63.11116, Gasoline Dispensing Facilities, Subpart CCCCC, requirements for facilities with monthly throughput of less than 10,000 gallons of gasoline, the Permittee, must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time.

COMPLIANCE METHODS

Monitoring

Pursuant to 40 CFR 63.11130 the Permittee must comply with the General Provisions contained in Section 7.3(a).	FS-CS
Pursuant to 40 CFR 63.11116(a), (b), (c) and (d), the Permittee must do the following:	
Minimize gasoline spills;	FS-CS
Clean up spills as expeditiously as practicable, but in no case later than four hours from the time the spill is identified.	FS-CS
Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use or in portable gas containers that meet requirements of 40 CFR Part 59, Subpart F;	FS-CS
Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.	FS-CS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of each spill and the corrective action used to clean the spill and prevent others.	FS-CS
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Non-Applicability Determinations

The storage tank is not subject to the New Source Performance Standards (NSPS) for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) , 40 CFR Part 60, Subpart Kb, because the capacity of the storage tank is less than 75 cubic meters (18,813 gallons) pursuant to 40 CFR 60.110b(a).
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).
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.

Section 4.5

Motor Pool - Gasoline Tank

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

GENERAL REPORTING

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:	FS-CS
Requirements in Conditions 4.5.2(a)(i), 4.5.2(b)(i) and 4.5.2(c)(i).	
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).	
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).	
The deviation reports shall contain at a minimum the following information:	
Date and time of the deviation.	
Emission unit(s) and/or operation involved.	
The duration of the event.	
Probable cause of the deviation.	
Corrective actions or preventative measures taken.	

Emergency Generators - post-2006 (NSPS IIII)

Emission Units	Pollutants Being Regulated	Original Construction Date
Eng-8 (West Plant) - 2000 kW Diesel Engine	PM, SO2, VOM, CO, NMHC + NOx, NOx, HAP	Feb-09
Eng-9 (KCBBD) - 2180 kW Diesel Engine	PM, SO2, CO, NMHC + NOx,	2008
Eng-10 (KCBBD) - 2180 kW Diesel Engine	PM, SO2, CO, NMHC + NOx,	2008
Eng-11 (Hosp Pav) - 2000 kW Diesel Engine	PM, SO2, VOM, CO, NMHC + NOx, NOx,	2011
Eng-12 (Hosp Pav) - 2000 kW Diesel Engine	PM, SO2, VOM, CO, NMHC + NOx, NOx,	2011
Eng-13 (Hosp Pav) - 2000 kW Diesel Engine	PM, SO2, VOM, CO, NMHC + NOx, NOx,	2011
Eng-14 (Hosp Pav) - 2000 kW Diesel Engine	PM, SO2, VOM, CO, NMHC + NOx, NOx,	2011

OPACITY

REQUIREMENTS

Pursuant to 35 IAC 212.123(a), except as provided by 35 IAC 212.123(b), 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.

Pursuant to 40 CFR 60.4205(b) and 40 CFR 60.4202(a)(2), engines with a maximum engine power greater than or equal to 37 KW (50 HP), must meet the emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.113 for all pollutants beginning in model year 2007 as follows:

- 20% Opacity during the acceleration mode
- 15% Opacity during the lugging mode
- 50% Opacity during the peaks in either the acceleration or lugging mode

COMPLIANCE METHODS

Monitoring

Pursuant to 40 CFR 89.113(b), the Permittee shall measure and calculate opacity in accordance with the procedures in 40 CFR part 86, subpart I for visible emissions at least once every calendar year.	PH-PLT	CUP
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Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all opacity measurements made in accordance with the procedures in 40 CFR part 86, subpart I.	PH-PLT	CUP
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PARTICULATE MATTER (PM)

REQUIREMENTS

Pursuant to 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) and 40 CFR 89.112, engines with a maximum engine power greater than or equal to 37 KW (50 HP), must meet the emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 for all pollutants beginning in model year 2007 as follows:

Exhaust emissions shall not exceed 0.2 g/kw-hr of particulate matter from each engine.

Pursuant to 40 CFR 60.4205(e), the Permittee of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in 40 CFR 60.4212.

Pursuant to Construction Permit #06080015, PM/PM10 limits from Eng-8 shall not exceed 5.9 lb/hour and 0.15 tons/year. [T1-R]

Pursuant to Construction Permit #11100019, PM emissions from Eng-11, Eng-12, Eng-13 and Eng-14 shall not exceed 0.2 lb/hr (each), 0.05 ton/yr (each), 0.2 ton/yr (total). [T1]

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).

COMPLIANCE METHODS

Monitoring

Pursuant to 40 CFR 60.4206, the Permittee 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.	PH-PLT	CUP
Pursuant to 40 CFR 60.4212(c), exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, or Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 may follow the testing procedures specified in 40 CFR 60.4213.	PH-PLT	CUP
Pursuant to 40 CFR 60.4211(c), the Permittee of a 2007 model year and later stationary CI internal combustion engine that complies with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.	PH-PLT	CUP
Pursuant to 40 CFR 60.4211(g), if the Permittee does not install, configure, operate, and maintain the engines and control devices 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, the Permittee must demonstrate compliance according to 40 CFR 60.4211(g)(3)	PH-PLT	CUP

Recordkeeping

Section 4.7

Emergency Generators - post-2006 (NSPS IIII)

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard as determined by the equation in 40 CFR 89.112.	PH-PLT	CUP	VEN
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions including supporting calculations in g/kW-hr.	PH-PLT	CUP	VEN
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the PM emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.	PH-PLT	CUP	VEN
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 post-2007 model engine installation, configuration and maintenance.	PH-PLT	CUP	
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep certification records and documentation related to 40 CFR 60.4211(g)(3) as applicable.	PH-PLT	CUP	

SULFUR DIOXIDE (SO2)

REQUIREMENTS

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.

Pursuant to Construction Permit #11100019, emissions shall not exceed 0.1 lb/hr and 0.1 ton/year from Eng-11, Eng-12, Eng-13 and Eng-14. [T1]

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).

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the SO2 emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.	PH-PLT	CUP	VEN
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VOLATILE ORGANIC MATERIAL (VOM)

REQUIREMENTS

Pursuant to Construction Permit #06080015, VOM emissions from Eng-8 shall not exceed 6.7 lbs/hour and 0.2 tons/year. [T1-R]

Pursuant to Construction Permit #11100019, emissions from Eng-11, Eng-12, Eng-13 and Eng-14 shall not exceed 1.6 lb/hr (each), 0.4 ton/yr (each), 1.6 ton/yr (total). [T1]

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).

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the VOM emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.	PH-PLT	CUP	VEN
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CARBON MONOXIDE (CO)

REQUIREMENTS

Pursuant to 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) and 40 CFR 89.112, engines with a maximum engine power greater than or equal to 37 KW (50 HP), must meet the emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 for all pollutants beginning in model year 2007 as follows:

Exhaust emissions shall not exceed 3.5 g/kW-hr of carbon monoxide from each engine.

Pursuant to 40 CFR 60.4205(e), the Permittee of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in 40 CFR 60.4212.

Pursuant to Construction Permit #06080015, CO emissions from Eng-8 shall not exceed 17.9 lb/hour and 0.5 tons/year. [T1-R]

Pursuant to Construction Permit #11100019, emissions from Eng-11, Eng-12, Eng-13 and Eng-14 shall not exceed 1.9 lb/hr (each), 0.5 ton/yr (each), 2.0 ton/yr (total). [T1]

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).

COMPLIANCE METHODS

Monitoring

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.	PH-PLT	CUP	
Pursuant to 40 CFR 60.4212(c), exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, or determined from the following equation: Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 may follow the testing procedures specified in 40 CFR 60.4213.	PH-PLT	CUP	
Pursuant to 40 CFR 60.4211(c), the Permittee of a 2007 model year and later stationary CI internal combustion engine that complies with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.	PH-PLT	CUP	

Section 4.7

Emergency Generators - post-2006 (NSPS III)

Pursuant to 40 CFR 60.4211(g), if the Permittee does not install, configure, operate, and maintain the engines and control devices 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, the Permittee must demonstrate compliance according to 40 CFR 60.4211(g)(3)	PH-PLT	CUP
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Recordkeeping

Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of CO emissions including supporting calculations in g/kW-hr.	PH-PLT	CUP	VEN
Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard as determined by equation in 40 CFR 89.112..	PH-PLT	CUP	VEN
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the CO emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.	PH-PLT	CUP	VEN
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 post-2007 model engine installation, configuration and maintenance.	PH-PLT	CUP	
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep certification records and documentation related to 40 CFR 60.4211(g)(3) as applicable.	PH-PLT	CUP	

NON-METHANE HYDROCARBONS + NITROGEN OXIDE (NMHC + Nox)

REQUIREMENTS

Pursuant to 40 CFR 60.4205(b), 40 CFR 60.4202(a)(2) and 40 CFR 89.112, engines with a maximum engine power greater than or equal to 37 KW (50 HP), must meet the emission standards for new nonroad CI engines for the same model year and maximum engine power in 40 CFR 89.112 for all pollutants beginning in model year 2007 as follows:

Exhaust emissions of NMHC + NOx shall not exceed 6.4 g/kW-hr from each engine.

Pursuant to 40 CFR 60.4205(e), the Permittee of emergency stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests in-use must meet the NTE standards as indicated in 40 CFR 60.4212.

COMPLIANCE METHODS

Monitoring

Pursuant to 40 CFR 60.4206, the Permittee 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.	PH-PLT	CUP
Pursuant to 40 CFR 60.4212(c), exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard in 40 CFR 89.112, or Alternatively, stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 may follow the testing procedures specified in 40 CFR 60.4213.	PH-PLT	CUP
Pursuant to 40 CFR 60.4211(c), the Permittee of a 2007 model year and later stationary CI internal combustion engine that complies with the emission standards specified in 40 CFR 60.4205(b), must comply by purchasing an engine certified to the emission standards in or 40 CFR 60.4205(b) as applicable, for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's emission-related specifications.	PH-PLT	CUP
Pursuant to 40 CFR 60.4211(g), if the Permittee does not install, configure, operate, and maintain the engines and control devices 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, the Permittee must demonstrate compliance according to 40 CFR 60.4211(g)(3)	PH-PLT	CUP

Recordkeeping

Pursuant to 39.5(7)(b) of the Act, the Permittee shall maintain records of NOx emissions in either g/KW-hr.	PH-PLT	CUP	VEN
Pursuant to Section 39.5(b) of the Act, the Permittee shall maintain records of the not-to exceed (NTE) standard, as determined in 40 CFR 89.112..	PH-PLT	CUP	VEN
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 post-2007 model engine installation, configuration and maintenance.	PH-PLT	CUP	
Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep certification records and documentation related to 40 CFR 60.4211(g)(3) as applicable.	PH-PLT	CUP	

NITROGEN OXIDE (NOx)

REQUIREMENTS

Pursuant to Construction Permit #06080015, NOx emissions from Eng-8 shall not exceed 83.1 lb/hour and 2.1 tons/year. [T1-R]

Pursuant to Construction Permit #11100019, emissions from Eng-11, Eng-12, Eng-13 and Eng-14 shall not exceed 34.9 lb/hr (each), 8.7 ton/yr (each), 34.8 ton/yr (total). [T1]

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).

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the NOx emissions from the engines including supporting calculations in lb/hour, tons/month and tons/year.	PH-PLT	CUP	VEN
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Emergency Generators - post-2006 (NSPS IIII)**HAZARDOUS AIR POLLUTANT (HAP)****REQUIREMENTS**

Pursuant to Construction Permit #06080015, formaldehyde emissions from Eng-8 shall not exceed 0.05 ton/year. [T1]

Pursuant to Construction Permit #06080015, hexane emissions from Eng-8 shall not exceed 0.1 ton/year. [T1]

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).

COMPLIANCE METHODS**Recordkeeping**

Pursuant to 39.5(7)(b) of the Act, the Permittee shall maintain records of formaldehyde and hexane including supporting calculations emissions in tons/month and tons/year.

PH-PLT

CUP

VEN

OPERATIONAL AND PRODUCTIONS**REQUIREMENTS**

Pursuant to Construction Permit #06080015, Eng-8 shall not operate more than 50 engine hours per year. [T1-R]

Pursuant to Construction Permit #11100019, the rated electrical output capacity of Eng-11, Eng-12, Eng-13 and Eng-14 shall not exceed 2000 kWe, each. [T1]

Pursuant to 40 CFR 60.4207(b), beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must purchase diesel fuel that meets the requirements of 40 CFR 80.510(b) for nonroad diesel fuel as follows:

Sulfur content of 15 ppm maximum non-road diesel fuel,

Cetane index of 40 minimum and aromatic content of 35 volume percent maximum

Pursuant to 40 CFR 60.4211(f) emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine.

Maintenance checks and readiness testing of such units is limited to 100 hours per year.

There is no time limit on the use of emergency stationary ICE in emergency situations.

The Permittee may petition the Illinois EPA for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the Permittee maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year.

Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing.

The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

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

COMPLIANCE METHODS**Monitoring**

Pursuant to 40 CFR 60.4209(a), a 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.

PH-PLT

CUP

Recordkeeping

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 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.

PH-PLT

CUP

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

PH-PLT

CUP

Pursuant to Section 39.5(7)(b), the Permittee shall maintain records of the engines' rated electrical output capacity in kWe.

PH-PLT

CUP

WORK PRACTICES**REQUIREMENTS**

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.

COMPLIANCE METHODS**Monitoring**

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.

PH-PLT

CUP

Section 4.7

Emergency Generators - post-2006 (NSPS IIII)

Pursuant to 40 CFR 60.4208(h), in addition to the requirements specified in 60.4202, and 60.4205, it is prohibited to import stationary CI ICE with a displacement of less than 30 liters per cylinder that do not meet the applicable requirements specified in paragraphs 40 CFR 60.4208(a) through (g) after the dates specified in paragraphs (a) through (g).	PH-PLT	CUP
Pursuant to 40 CFR 60.4211(a) the Permittee must do the following:		
Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions	PH-PLT	CUP
Change only those emission-related settings that are permitted by the manufacturer	PH-PLT	CUP

Recordkeeping

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.	PH-PLT	CUP
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 post-2007 model engine installation, configuration and maintenance.	PH-PLT	CUP

Non-Applicability Determinations

Pursuant to 40 CFR 63.6585(f)(3), institutional emergency engines meeting the definition of 40 CFR 63.6640(f) and 40 CFR 63.6675, are not subject to 40 CFR 63 Subpart ZZZZ.
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.
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.
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.
The engines are not subject to 35 IAC 218.301, because diesel fuel oil is not an organic material as defined in 35 IAC 211.4250(b).
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.

GENERAL REPORTING

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:	PH-PLT	CUP
Requirements in Conditions 4.7.2(a)(i), 4.7.2(b)(i), 4.7.2(c)(i), 4.7.2(d)(i), 4.7.2(e)(i), 4.7.2(f)(i), 4.7.2(g)(i), 4.7.2(h)(i) and 4.7.2(i)(i).		
All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).		
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).		
The deviation reports shall contain at a minimum the following information:		
Date and time of the deviation.		
Emission unit(s) and/or operation involved.		
The duration of the event.		
Probable cause of the deviation.		
Corrective actions or preventative measures taken.		

Residential Boilers

Emission Units	Pollutants Being Regulated	Original Construction Date
Boil-7 (6021-35 S.Kimbark) - 2.5 mmBtu/hr, natural gas	NONE	1908
Boil-8 (5532 S Kenwood Ave) - 2.5 mmBtu/hr, natural gas	NONE	1916
Boil-9 (5801-11 S. Dorchester - Unit #1) - 3.0 mmBtu/hr, natural gas	NONE	1927
Boil-10 (5801-11 S. Dorchester- Unit #2) - 3.0 mmBtu/hr, natural gas	NONE	1927

OPACITY

REQUIREMENTS

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.

COMPLIANCE METHODS

Monitoring

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

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.	FS-RP
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.	FS-RP

Operational and Production

REQUIREMENTS

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

COMPLIANCE METHODS

Recordkeeping

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the type of fuel fired in the boiler.	FS-RP
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Work Practices

REQUIREMENTS

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

COMPLIANCE METHODS

Monitoring

Pursuant to Sections 39.5(7)(a) of the Act, at a minimum, the Permittee shall perform monthly inspections of the boiler and associated auxiliary equipment.	FS-RP
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Recordkeeping

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

The boilers are not subject to the New Source Performance Standards (NSPS) for Small Industrial-Commercial-Institutional Steam Generating Units, 40 CFR Part 60, Subpart Dc, because the boilers are less than 10 mmBtu/hr pursuant to 40 CFR Part 60.40c(a).
The boilers are not subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial-Commercial-Institutional Boilers Area Sources, 40 CFR 63 JJJJJ, because the boilers are considered gas-fired as defined by 40 CFR 63.11237.
The boilers are not subject to 35 IAC 212.206 because the boilers use natural gas exclusively.
The boilers are not subject to 35 IAC 214.161 because the boilers use natural gas exclusively.
The boilers are not subject to 35 IAC 216.121 because each boiler is less than 10 mmBtu/hr.
Pursuant to 35 IAC 218.303, the provisions of 35 IAC 218.301 and 218.302 shall not apply to fuel combustion emission sources.

Section 4.8

Residential Boilers

The boilers are not subject to 35 IAC 217.141 because the heat input of the boilers are less than 250 mmBtu/hr.

The boilers are not subject to 35 IAC 217.150 because their NOx emissions to not been the applicable thresholds . "h.The boilers are not subject to 35 IAC 217.150, because their NOx emissions do not meet the applicable thresholds. "

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.

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:

Insignificant Activity	Number of Units	Insignificant Activity Category
Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units.	18	35 IAC 201.210(a)(16)

a. Applicable Requirements-Engines

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. Pursuant to 40 CFR 60.4218, the engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.2(b).

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. Pursuant to 40 CFR 60.4246, the engines shall meet the applicable general provisions of 40 CFR 60 Subpart A. See Condition 7.2(a).

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 63 Subpart ZZZZ):

I. Pursuant to 40 CFR 63.6585(f) 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:

Insignificant Activity	Number of Units	Insignificant Activity Category
2000 gal Diesel Storage Tank	1	35 IAC 201.210(a)(1) and 201.211
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	33	35 IAC 201.210(a)(4)
Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oil.	16	35 IAC 201.210(a)(11)
Gas turbines and stationary reciprocating internal combustion engines < 112 kW (150 HP).	4	35 IAC 201.210(a)(15)
Gas Turbines and Engines between 112 KW and 1,118 KW (150 and 1,500 HP) that are emergency or standby units.	12	35 IAC 201.210(a)(16)
Any size storage tanks containing exclusively soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions, or aqueous caustic solutions where an organic solvent has not been mixed.	2	35 IAC 201.210(a)(17)

Section 6

Insignificant Activities Requirements

3 Insignificant Activities in 35 IAC 201.210(b)

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

4 Applicable Requirements

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

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b).
- b. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.
- c. Pursuant to 35 IAC 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 218 Subpart G shall apply only to photochemically reactive material.
- d. 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 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
 - Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act; for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
 - A. A description of the emission unit including the function and expected operating schedule of the unit.
 - B. A description of any air pollution control equipment or control measures associated with the emission unit.
 - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
 - D. The means by which emissions were determined or estimated.
 - E. The estimated number of such emission units at the source.
 - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
 - ii. Pursuant to 35 IAC 201.212(b), 35 IAC 201.146(kkk), and Sections 39.5(12)(a) and (b) of the Act; for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. A construction permit is not required. Addresses are included in Attachment 3.
 - iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any change made in Condition 6.6(a) above.
- b. Notification Required at Renewal

Section 6

Insignificant Activities Requirements

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 7.1
Other Requirements

7.1 Testing

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

Section 7.1

Other Requirements

- 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.

Section 7.2

40 CFR 60 Subpart A Requirements (NSPS)

a. 40 CFR 60 Subpart A and 40 CFR 60 Subpart JJJJ, Spark Ignition IC Engines

Pursuant to 40 CFR 60 Subpart A and Subpart JJJJ, 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 60.1	Yes	General Applicability of the General Provisions	
40 CFR 60.2	Yes	Definitions	Additional terms defined in 40 CFR 60.4248
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 60.7 only applies as specified in 60.4245
40 CFR 60.8	Yes	Performance Tests	Except that 60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
40 CFR 60.9	Yes	Availability of Information	
40 CFR 60.10	Yes	State Authority	
40 CFR 60.11	Yes	Compliance with Standards and Maintenance Requirements	Requirements are specified in subpart JJJJ.
40 CFR 60.12	Yes	Circumvention	
40 CFR 60.13	No	Monitoring Requirements	
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	

b. 40 CFR 60 Subpart A and 40 CFR 60 Subpart IIII, Compression Ignition IC Engines

Pursuant to 40 CFR 60 Subpart A and 40 CFR 60 Subpart IIII, 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 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 60.7 only applies as specified in 60.4214(a).
40 CFR 60.8	Yes	Performance Tests	Except that 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	

Section 7.2

40 CFR 60 Subpart A Requirements (NSPS)

40 CFR 60.13	Yes	Monitoring Requirements	Except that § 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	

Section 7.3

40 CFR 63 CFR Subpart A Requirements NESHAP

Pursuant to 40 CFR 63 Subpart A and 40 CFR 63 Subpart CCCCC-Gasoline Dispensing Facility, the Permittee shall comply with the following applicable General Provisions as indicated:

General Provision Citation	Subject	Brief Description	Applies to subpart CCCCC
40 CFR 63.1	Applicability	Initial applicability determination; applicability after standard established; permit requirements; extensions, notifications	Yes, specific requirements given in § 63.11111.
40 CFR 63.1(c)(2)	Title V Permit	Requirements for obtaining a title V permit from the applicable permitting authority	Yes, § 63.11111(f) of subpart CCCCC exempts identified area sources from the obligation to obtain title V operating permits.
40 CFR 63.2	Definitions	Definitions for part 63 standards	Yes, additional definitions in § 63.11132.
40 CFR 63.3	Units and Abbreviations	Units and abbreviations for part 63 standards	Yes.
40 CFR 63.4	Prohibited Activities and Circumvention	Prohibited activities; Circumvention, severability	Yes.
40 CFR 63.5	Construction/Reconstruction	Applicability; applications; approvals	Yes, except that these notifications are not required for facilities subject
40 CFR 63.6(a)	Compliance with Standards/Operation & Maintenance—Applicability	General Provisions apply unless compliance extension; General Provisions apply to area sources that become major	Yes.
40 CFR 63.6(b)(1)-(4)	Compliance Dates for New and Reconstructed Sources	Standards apply at effective date; 3 years after effective date; upon startup; 10 years after construction or reconstruction commences for CAA section 112(f)	Yes.
40 CFR 63.6(b)(5)	Notification	Must notify if commenced construction or reconstruction after proposal	Yes.
40 CFR 63.6(b)(6)	[Reserved]		
40 CFR 63.6(b)(7)	Compliance Dates for New and Reconstructed Area Sources That Become Major	Area sources that become major must comply with major source standards immediately upon becoming major, regardless of whether required to comply when they were an area source	No.
40 CFR 63.6(c)(1)-(2)	Compliance Dates for Existing Sources	Comply according to date in this subpart, which must be no later than 3 years after effective date; for CAA section 112(f) standards, comply within 90 days of effective date unless compliance extension	No, § 63.11113 specifies the compliance dates.
40 CFR 63.6(c)(3)-(4)	[Reserved]		
40 CFR 63.6(c)(5)	Compliance Dates for Existing Area Sources That Become Major	Area sources That become major must comply with major source standards by date indicated in this subpart or by equivalent time period (e.g., 3 years)	No.
40 CFR 63.6(d)	[Reserved]		
40 CFR 63.6(e)(1)(i)	General duty to minimize emissions	Operate to minimize emissions at all times; information Administrator will use to determine if operation and maintenance requirements were met.	No. See § 63.11115 for general duty requirement.
63.6(e)(1)(iii)	Requirement to correct malfunctions ASAP	Permittee must correct malfunctions as soon as possible.	No.
40 CFR 63.6(e)(2)	[Reserved]		
40 CFR 63.6(e)(3)	Startup, Shutdown, and Malfunction (SSM) Plan	Requirement for SSM plan; content of SSM plan; actions during SSM	No.
§ 63.6(f)(1)	Compliance Except During SSM	You must comply with emission standards at all times except during SSM	No.
40 CFR 63.6(f)(2)-(3)	Methods for Determining Compliance	Compliance based on performance test, operation and maintenance plans, records, inspection	Yes.
§ 63.6(g)(1)-(3)	Alternative Standard	Procedures for getting an alternative standard	Yes.
40 CFR 63.6(h)(1)	Compliance with Opacity/Visible Emission (VE) Standards	You must comply with opacity/VE standards at all times except during SSM	No.
40 CFR 63.6(h)(2)(i)	Determining Compliance with Opacity/VE Standards	If standard does not State test method, use EPA Method 9 for opacity in appendix A of part 60 of this chapter and EPA Method 22 for VE in appendix A of part 60 of this chapter	No.
40 CFR 63.6(h)(2)(ii)	[Reserved]		
40 CFR 63.6(h)(2)(iii)	Using Previous Tests To Demonstrate Compliance With Opacity/VE Standards	Criteria for when previous opacity/VE testing can be used to show compliance with this subpart	No.
40 CFR 63.6(h)(3)	[Reserved]		
40 CFR 63.6(h)(4)	Notification of Opacity/VE Observation Date	Must notify Administrator of anticipated date of observation	No.
40 CFR 63.6(h)(5)(i), (iii)-(v)	Conducting Opacity/VE Observations	Dates and schedule for conducting opacity/VE observations	No.
40 CFR 63.6(h)(5)(ii)	Opacity Test Duration and Averaging Times	Must have at least 3 hours of observation with 30 6-minute averages	No.
40 CFR 63.6(h)(6)	Records of Conditions During Opacity/VE Observations	Must keep records available and allow Administrator to inspect	No.
40 CFR 63.6(h)(7)(i)	Report Continuous Opacity Monitoring System (COMS) Monitoring Data From Performance Test	Must submit COMS data with other performance test data	No.
40 CFR 63.6(h)(7)(ii)	Using COMS Instead of EPA Method 9	Can submit COMS data instead of EPA Method 9 results even if rule requires EPA Method 9 in appendix A of part 60 of this chapter, but must notify Administrator before performance test	No.

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40 CFR 63 CFR Subpart A Requirements NESHAP

40 CFR 63.6(h)(7)(iii)	Averaging Time for COMS During Performance Test	To determine compliance, must reduce COMS data to 6-minute averages	No.
40 CFR 63.6(h)(7)(iv)	COMS Requirements	Owner/operator must demonstrate that COMS performance evaluations are conducted according to § 63.8(e); COMS are properly maintained and operated according to § 63.8(c) and data quality as § 63.8(d)	No.
40 CFR 63.6(h)(7)(v)	Determining Compliance with Opacity/VE Standards	COMS is probable but not conclusive evidence of compliance with opacity standard, even if EPA Method 9 observation shows otherwise. Requirements for COMS to be probable evidence-proper maintenance, meeting Performance Specification 1 in appendix B of part 60 of this chapter, and data have not been altered	No.
40 CFR 63.6(h)(8)	Determining Compliance with Opacity/VE Standards	Administrator will use all COMS, EPA Method 9 (in appendix A of part 60 of this chapter), and EPA Method 22 (in appendix A of part 60 of this chapter) results, as well as information about operation and maintenance to determine compliance	No.
40 CFR 63.6(h)(9)	Adjusted Opacity Standard	Procedures for Administrator to adjust an opacity standard	No.
40 CFR 63.6(i)(1)-(14)	Compliance Extension	Procedures and criteria for Administrator to grant compliance extension	Yes.
40 CFR 63.6(j)	Presidential Compliance Exemption	President may exempt any source from requirement to comply with this subpart	Yes.
40 CFR 63.7(a)(2)	Performance Test Dates	Dates for conducting initial performance testing; must conduct 180 days after compliance date	Yes.
40 CFR 63.7(a)(3)	CAA Section 114 Authority	Administrator may require a performance test under CAA section 114 at any time	Yes.
40 CFR 63.7(b)(1)	Notification of Performance Test	Must notify Administrator 60 days before the test	Yes.
40 CFR 63.7(b)(2)	Notification of Re-scheduling	If have to reschedule performance test, must notify Administrator of rescheduled date as soon as practicable and without delay	Yes.
40 CFR 63.7(c)	Quality Assurance (QA)/Test Plan	Requirement to submit site-specific test plan 60 days before the test or on date Administrator agrees with; test plan approval procedures; performance audit requirements; internal and external QA procedures for testing	Yes.
40 CFR 63.7(d)	Testing Facilities	Requirements for testing facilities	Yes.
40 CFR 63.7(e)(1)	Conditions for Conducting Performance Tests	Performance test must be conducted under representative conditions	No, § 63.11120(c) specifies conditions for conducting performance tests.
40 CFR 63.7(e)(2)	Conditions for Conducting Performance Tests	Must conduct according to this subpart and EPA test methods unless Administrator approves alternative	Yes.
40 CFR 63.7(e)(3)	Test Run Duration	Must have three test runs of at least 1 hour each; compliance is based on arithmetic mean of three runs; conditions when data from an additional test run can be used	Yes.
40 CFR 63.7(f)	Alternative Test Method	Procedures by which Administrator can grant approval to use an intermediate or major change, or alternative to a test method	Yes.
40 CFR 63.7(g)	Performance Test Data Analysis	Must include raw data in performance test report; must submit performance test data 60 days after end of test with the Notification of Compliance Status; keep data for 5 years	Yes.
40 CFR 63.7(h)	Waiver of Tests	Procedures for Administrator to waive performance test	Yes.
40 CFR 63.8(a)(1)	Applicability of Monitoring Requirements	Subject to all monitoring requirements in standard	Yes.
40 CFR 63.8(a)(2)	Performance Specifications	Performance Specifications in appendix B of 40 CFR part 60 apply	Yes.
40 CFR 63.8(a)(3)	[Reserved]		
40 CFR 63.8(a)(4)	Monitoring of Flares	Monitoring requirements for flares in § 63.11 apply	Yes.
40 CFR 63.8(b)(1)	Monitoring	Must conduct monitoring according to standard unless Administrator approves alternative	Yes.
40 CFR 63.8(b)(2)-(3)	Multiple Effluents and Multiple Monitoring Systems	Specific requirements for installing monitoring systems; must install on each affected source or after combined with another affected source before it is released to the atmosphere provided the monitoring is sufficient to demonstrate compliance with the standard; if more than one monitoring system on an emission point, must report all monitoring system results, unless one monitoring system is a backup	No.
40 CFR 63.8(c)(1)	Monitoring System Operation and Maintenance	Maintain monitoring system in a manner consistent with good air pollution control practices	No.
40 CFR 63.8(c)(1)(i)-(iii)	Operation and Maintenance of Continuous Monitoring Systems (CMS)	Must maintain and operate each CMS as specified in § 63.6(e)(1); must keep parts for routine repairs readily available; must develop a written SSM plan for CMS, as specified in § 63.6(e)(3)	No.

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40 CFR 63.8(c)(2)-(8)	CMS Requirements	Must install to get representative emission or parameter measurements; must verify operational status before or at performance test	No.
40 CFR 63.8(d)	CMS Quality Control	Requirements for CMS quality control, including calibration, etc.; must keep quality control plan on record for 5 years; keep old versions for 5 years after revisions	No.
40 CFR 63.8(e)	CMS Performance Evaluation	Notification, performance evaluation test plan, reports	No.
40 CFR 63.8(f)(1)-(5)	Alternative Monitoring Method	Procedures for Administrator to approve alternative monitoring	No.
40 CFR 63.8(f)(6)	Alternative to Relative Accuracy Test	Procedures for Administrator to approve alternative relative accuracy tests for continuous emissions monitoring system (CEMS)	No.
40 CFR 63.8(g)	Data Reduction	COMS 6-minute averages calculated over at least 36 evenly spaced data points; CEMS 1 hour averages computed over at least 4 equally spaced data points; data that cannot be used in average	No.
40 CFR 63.9(a)	Notification Requirements	Applicability and State delegation	Yes.
40 CFR 63.9(b)(1)-(2), (4)-(5)	Initial Notifications	Submit notification within 120 days after effective date; notification of intent to construct/reconstruct, notification of commencement of construction/reconstruction, notification of startup; contents of each	Yes.
40 CFR 63.9(c)	Request for Compliance Extension	Can request if cannot comply by date or if installed best available control technology or lowest achievable emission rate	Yes.
40 CFR 63.9(d)	Notification of Special Compliance Requirements for New Sources	For sources that commence construction between proposal and promulgation and want to comply 3 years after effective date	Yes.
40 CFR 63.9(e)	Notification of Performance Test	Notify Administrator 60 days prior	Yes.
40 CFR 63.9(f)	Notification of VE/Opacity Test	Notify Administrator 30 days prior	No.
40 CFR 63.9(g)	Additional Notifications when Using CMS	Notification of performance evaluation; notification about use of COMS data; notification that exceeded criterion for relative accuracy alternative	Yes, however, there are no opacity standards.
40 CFR 63.9(h)(1)-(6)	Notification of Compliance Status	Contents due 60 days after end of performance test or other compliance demonstration, except for opacity/VE, which are due 30 days after; when to submit to Federal vs. State authority	Yes, however, there are no opacity standards.
40 CFR 63.9(i)	Adjustment of Submittal Deadlines	Procedures for Administrator to approve change when notifications must be submitted	Yes.
40 CFR 63.9(j)	Change in Previous Information	Must submit within 15 days after the change	Yes.
40 CFR 63.10(a)	Recordkeeping/Reporting	Applies to all, unless compliance extension; when to submit to Federal vs. State authority; procedures for owners of more than one source	Yes.
40 CFR 63.10(b)(1)	Recordkeeping/Reporting	General requirements; keep all records readily available; keep for 5 years	Yes.
40 CFR 63.10(b)(2)(i)	Records related to SSM	Recordkeeping of occurrence and duration of startups and shutdowns	No.
40 CFR 63.10(b)(2)(ii)	Records related to SSM	Recordkeeping of malfunctions	No. See § 63.11125(d) for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunction.
40 CFR 63.10(b)(2)(iii)	Maintenance records	Recordkeeping of maintenance on air pollution control and monitoring equipment	Yes.
40 CFR 63.10(b)(2)(iv)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.
40 CFR 63.10(b)(2)(v)	Records Related to SSM	Actions taken to minimize emissions during SSM	No.
40 CFR 63.10(b)(2)(vi)-(xi)	CMS Records	Malfunctions, inoperative, out-of-control periods	No.
40 CFR 63.10(b)(2)(xii)	Records	Records when under waiver	Yes.
40 CFR 63.10(b)(2)(xiii)	Records	Records when using alternative to relative accuracy test	Yes.
40 CFR 63.10(b)(2)(xiv)	Records	All documentation supporting Initial Notification and Notification of Compliance Status	Yes.
40 CFR 63.10(b)(3)	Records	Applicability determinations	Yes.
40 CFR 63.10(c)	Records	Additional records for CMS	No.
40 CFR 63.10(d)(1)	General Reporting Requirements	Requirement to report	Yes.
40 CFR 63.10(d)(2)	Report of Performance Test Results	When to submit to Federal or State authority	Yes.
40 CFR 63.10(d)(3)	Reporting Opacity or VE Observations	What to report and when	No.
40 CFR 63.10(d)(4)	Progress Reports	Must submit progress reports on schedule if under compliance extension	Yes.

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40 CFR 63.10(d)(5)	SSM Reports	Contents and submission	No. See § 63.11126(b) for malfunction reporting requirements.
40 CFR 63.10(e)(1)-(2)	Additional CMS Reports	Must report results for each CEMS on a unit; written copy of CMS performance evaluation; two-three copies of COMS performance evaluation	No.
40 CFR 63.10(e)(3)(i)-(iii)	Reports	Schedule for reporting excess emissions	No.
40 CFR 63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c)(7)-(8) and 63.10(c)(5)-(13)	No.
40 CFR 63.10(e)(3)(iv)-(v)	Excess Emissions Reports	Requirement to revert to quarterly submission if there is an excess emissions and parameter monitor exceedances (now defined as deviations); provision to request semiannual reporting after compliance for 1 year; submit report by 30th day following end of quarter or calendar half; if there has not been an exceedance or excess emissions (now defined as deviations), report contents in a statement that there have been no deviations; must submit report containing all of the information in §§ 63.8(c)(7)-(8) and 63.10(c)(5)-(13)	No, § 63.11130(K) specifies excess emission events for this subpart.
40 CFR 63.10(e)(3)(vi)-(viii)	Excess Emissions Report and Summary Report	Requirements for reporting excess emissions for CMS; requires all of the information in §§ 63.10(c)(5)-(13) and 63.8(c)(7)-(8)	No.
40 CFR 63.10(e)(4)	Reporting COMS Data	Must submit COMS data with performance test data	No.
40 CFR 63.10(f)	Waiver for Recordkeeping/Reporting	Procedures for Administrator to waive	Yes.
40 CFR 63.11(b)	Flares	Requirements for flares	No.
40 CFR 63.12	Delegation	State authority to enforce standards	Yes.
40 CFR 63.13	Addresses	Addresses where reports, notifications, and requests are sent	Yes.
40 CFR 63.14	Incorporations by Reference	Test methods incorporated by reference	Yes.
40 CFR 63.15	Availability of Information	Public and confidential information	Yes.

State Only Requirements

1. Permitted Emissions for Fees

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

Pollutant		Tons/Year
Volatile Organic Material	(VOM)	14.62
Sulfur Dioxide	(SO2)	116.1
Particulate Matter	(PM)	28.33
Nitrogen Oxides	(NOx)	354.63
HAP, not included in VOM or PM	(HAP)	2.8
Total		516.48

2. NOx RACT Requirements

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
Boil-1 Steam Plant, 195.5 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Jun-70	N/A	Low NOx burner	NOx CEMS
Boil-2 Steam Plant, 195.5 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Jun-70	N/A	Low NOx burner	NOx CEMS
Boil-3 Steam Plant, 195.5 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Jun-70	N/A	Low NOx burner	NOx CEMS
Boil-4 Steam Plant, 195.5 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Jun-70	N/A	Low NOx burner	NOx CEMS
Boil-5 West Plant, 300 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Dec-07	N/A	Low NOx burner	NOx CEMS
Boil-6 West Plant, 300 mmBtu/hr, Natural gas fired, Distillate oil back-up	NOx	Dec-07	N/A	Low NOx burner	NOx CEMS

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.

Nitrogen Oxide Requirements (NOx)

REQUIREMENTS

A. Pursuant to 35 IAC 217.152, Subpart D: NOx General Requirements, compliance with Subpart E is required by January 1, 2015. If after the issuance of this permit, the Permittee elects to accept Federally enforceable limits below the applicability criteria in 35 IAC 217.150(a)(1)(B) in order to avoid the requirements below, a permit modification application must be submitted to the Illinois EPA Permit Section by October 1, 2014.

B. Pursuant to 35 IAC 217.164, Subpart E: Industrial Boilers, the Permittee shall not cause or allow emissions to exceed the following

Fuel	Heat Input Capacity	NOx Emission Limitation
Natural Gas	> 100 mmBtu/hr	0.08 (lb/mmBtu)
Distillate Oil	> 100 mmBtu/hr	0.10 (lb/mmBtu)

COMPLIANCE METHODS

Monitoring/Testing

- A. The Permittee must perform testing and monitoring pursuant to 35 IAC 217.154 and 35 IAC 217.157
- B. Pursuant to 35 IAC 217.164(a), compliance must be demonstrated on an ozone season and annual basis

Recordkeeping/Reporting

- C. The Permittee must keep records and report pursuant to 35 IAC 217.156.

Note to IEPA – This has been updated to reflect the data provided on the 292-CAAPP form submitted with the May 2009 Significant Permit Modification

Note to IEPA – UC requests that this section be expanded to include all compliance options per the rule (such as emissions averaging, PEMS as an alternative to CEMS, etc.).

Section 9

South Plant Construction Permit (Published: March 24, 2014 - rev)

1 Introduction

<p>This permit addressed physical and operational changes to the boilers in the Permittee’s South Steam Plant, which supplies steam to campus buildings for comfort heating. This plant has four boilers that fire natural gas and, as a backup fuel, distillate oil. This project is being pursued to ensure future compliance with the requirements in 35 IAC Part 217 Subparts D and E, which establish requirements that reflect Reasonably Available Control Technology for certain boilers related to emissions of nitrogen oxides (NOx), which have a compliance date of January 1, 2015.</p>	<p>CUP</p>
<p>a. For Boilers #1 and #2 (the affected boilers), this permit authorizes the following physical changes:</p>	<p>CUP</p>
<p>i. Replacement of the existing burners with new low-NOx burners with an identical heat input capacity.</p>	<p>CUP</p>
<p>ii. Replacement of the existing preheaters with economizers.</p>	<p>CUP</p>
<p>iii. Installation of flue gas recirculation systems.</p>	<p>CUP</p>
<p>b. For Boilers #3 and #4, this permit limits operation and NOx emissions so these boilers are not subject to the requirements of 35 IAC 217 Subparts D and E.</p>	<p>CUP</p>

2 Coordination with Other Permits

<p>This permit does not affect other applicable requirements for the affected boilers as set forth in existing permits for the boilers.</p>	<p>CUP</p>
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3 Non-Applicability Provisions

<p>a. i. This permit is issued based on this project not constituting a major modification subject to 40 CFR 52.21, Prevention of Significant Deterioration (PSD) because it will not be accompanied by significant increases in emissions of a pollutant regulated under PSD.</p>	<p>CUP</p>
<p>ii. This permit is issued based on this project not constituting a major modification subject to 35 IAC 203, Major Stationary Sources Construction and Modification (MSSCAM) because it will not be accompanied by significant increases in emissions of a pollutant regulated under MSSCAM.</p>	<p>CUP</p>
<p>b. For purposes of federal New Source Performance Standards (NSPS), 40 CFR 60 Subpart Db:</p>	
<p>i. This permit is issued based on this project not constituting a modification as defined in 40 CFR 60.2, because it will not be accompanied by an increase in the emission rate of any pollutant to which a standard applies pursuant to 40 CFR 60 Subpart Db.</p>	<p>CUP</p>
<p>ii. This permit is issued based on this project not constituting reconstruction as defined in 40 CFR 60.15, because the changes made to each affected boiler will not exceed 50 percent of the capital cost of the unit.</p>	<p>CUP</p>

4 Additional Requirements for Boilers #1 and #2

<p>a. Pursuant to 35 IAC 217.150, 217.152, and 217.160, beginning on the applicable compliance date for 35 IAC Part 217 Subparts D and E, the Permittee shall comply with applicable requirements of these rules for the affected boilers, including:</p>	<p>CUP</p>
<p>i. Compliance with the applicable NOx emissions limitation in lbs/mmBtu, calculated in accordance with 35 IAC 217.165, on an ozone season (May 1 through September 30) and annual basis. [35 IAC 217.164 and 217.165]</p>	<p>CUP</p>
<p>ii. Operation of each affected boiler in a manner consistent with good air pollution control practices to minimize NOx emissions. [35 IAC 217.150(e)]</p>	<p>CUP</p>
<p>iii. Certifying to the Illinois EPA that the affected boilers will be in compliance with the applicable emissions limitation of 35 IAC 217.164 by the applicable compliance date. [35 IAC 217.152 and 217.155(b)]</p>	<p>CUP</p>

Section 9

South Plant Construction Permit (Published: March 24, 2014 - rev)

iv.	Installation, operation and maintenance of a Continuous Emissions Monitoring Systems (CEMS) or a Predictive Emissions Monitoring System (PEMS) on each affected boiler to measure emissions of NOx, with accompanying recordkeeping and reporting for the operation and maintenance of each CEMS or PEMS. [35 IAC 217.157(a)(2) or (f) and 217.156(b)(9), (b)(10) and (j)]	CUP
b.	Beginning on the applicable compliance date of January 1, 2015 for 35 IAC Part 217 Subparts D and E, the Permittee shall maintain the following records for the affected boilers:	CUP
i.	The following operating information for each affected boiler:	
A.	Usage of natural gas, in million ft ³ per month and million ft ³ per year, and usage of distillate fuel oil, in thousand gallons per month and thousand gallons per year.	CUP
B.	The actual heat input in mmBtu per ozone season and mmBtu per year, for each fuel, with supporting documentation for the heat content of each fuel.	CUP
C.	The applicable NOx emission limitation in lbs/mmBtu for each ozone season and each calendar year, calculated in accordance with 35 IAC 217.165.	CUP
c.	Beginning on the applicable compliance date for Part 217 Subpart D and E, the Permittee shall maintain the following records related to NOx emissions from each affected boiler:	
i.	The average hourly NOx emission data as determined by the CEMS or PEMS.	CUP
ii.	The ozone season and annual NOx emissions (pounds).	CUP
iii.	The ozone season average and annual average NOx emission rates (lbs/mmBtu heat input), calculated within 30 days of the end of the averaging periods (i.e., calculated by October 30 for ozone season averaging period and by January 30 of the following year for annual averaging period).	CUP
d.	The Permittee shall keep inspection, maintenance, and repair logs with dates and the nature of such activities for each affected boiler.	CUP
5 Additional Requirements for Boilers #3 and #4		
	Beginning January 1, 2015, the Permittee shall comply with the following requirements for Boilers #3 and #4:	CUP
a.	The heat content of the fuels combusted in each boiler shall not exceed 41,000 million Btu/ozone season and 124,000 million Btu per year.	CUP
b.	Emissions of NOx from each boiler shall not exceed 4.8 tons in each ozone season and 14.5 tons in each calendar year.	CUP
c.	The Permittee shall keep the following records for each boiler:	CUP
i.	Usage of natural gas, in million ft ³ per month and million ft ³ per year, and usage of distillate fuel oil, in thousand gallons per month and thousand gallons per year.	CUP
ii.	The ozone season and annual NOx emissions (tons), with supporting data and calculations.	CUP
6 Reporting Requirements		
a.	If there is any deviation of the requirements of this permit, as determined by the records required by this permit or by other means, the Permittee shall promptly report to the Illinois EPA as specified below until such time as the applicable provisions of this permit are addressed in an operating permit. The report shall include a description of the deviation, the probable cause of the deviation, corrective actions taken, and any preventive measures taken.	CUP

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<p>i. Deviations from the NOx emission limitation in 35 IAC 217.164 as calculated pursuant to 35 IAC 217.165 shall be reported with an explanation of the causes of such exceedances within 30 days following the end of the compliance period in which the emissions limitation was not met. [35 IAC 217.156(g)]</p>	CUP
<p>ii. For deviations that are not related to seasonal requirements, deviations from Condition 5 shall be reported by January 30 of the year following the calendar year for which the deviation occurred; all other deviations shall be reported within 30 days of the end of the ozone season for which the deviation occurred.</p>	CUP
<p>iii. Other deviations shall be reported in the Semi-Annual Monitoring Report required under the CAAPP permit for the source, Permit 95080059.</p>	CUP

7 Expiration of Construction Permit and Authorization to Operate

<p>a. For Boilers #1 and #2:</p>	CUP
<p>i. This permit will expire if construction of the permitted changes to these boilers is not begun by December 31, 2014. This condition supersedes Standard Condition 1.</p>	CUP
<p>ii. If construction of the permitted changes is begun in a timely manner, the Permittee is allowed to operate the affected boilers with changes under this permit until an operating permit is issued addressing the boiler with these changes. This condition supersedes Standard Condition 6.</p>	CUP
<p>b. For Boilers #3 and #4, the permit will take effect on January 1, 2015. This condition supersedes Standard Condition 1.</p>	CUP

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<p>CUP Central Utility Plants (Engineering & Utilities)</p> <p>FS-OM Facilities Services - Operations & Maintenance</p> <p>FS-CS Facilities Services - Campus Services</p> <p>FS-RP Facilities Services - Residential Properties & Services</p> <p>FS-CPD Facilities Services - Construction Management</p> <p>EHS Environmental Health and Safety</p>	<p>PH-PLT UCM-BSD Physical Plant</p> <p>Med Ctr-PM Medical Center/BSD Project Managers</p> <p>Med Ctr-Safety Medical Center Safety Office</p> <tr> <th colspan="2" data-bbox="1039 695 1904 750">Non-University Entities</th> </tr> <p>VEN Vendors that impact Title V Sources</p>	Non-University Entities	
Non-University Entities			