

217/782-2113

"RENEWAL"
CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE:

Western Illinois University
Attn: Charles G Darnell/ Physical Plant Director
1 University Circle
Macomb, Illinois 61455

I.D. No.: 109035AAG
Application No.: 95100006

Date Received: June 30, 2006
Date Issued: July 21, 2011
Expiration Date¹: July 21, 2016

Operation of: Western Illinois University, Educational Facility
Source Location: 1 University Circle, Macomb, McDonough County, 61455
Responsible Official: Charles Darnell, Director of Physical Plant

This permit is hereby granted to the above-designated Permittee to OPERATE a Educational Facility, pursuant to the above referenced permit application. This permit is subject to the conditions contained herein.

If you have any questions concerning this permit, please contact LeeAnne Kinsella at 217/782-2113.

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

ECB:LAK:psj

cc: Illinois EPA, FOS, Region 2
CES
Lotus Notes

1 Except as provided in Conditions 1.5 and 8.7 of this permit.

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1.0 INTRODUCTION

1.1 Source Identification

Western Illinois University
1 University Circle
Macomb, Illinois 61455

I.D. No.: 109035AAG
County: McDonough
Standard Industrial Classification: 8221, Educational Facility

1.2 Owner/Parent Company

Western Illinois University
1 University Circle
Macomb, Illinois 61455

1.3 Operator

Western Illinois University
1 University Circle
Macomb, Illinois 61455

Scott Coker
309/298-1834

1.4 Source Description

The source operates a power plant. In fact, they operate natural gas boilers and coal fired boilers.

Note: This narrative description is for informational purposes only and is not enforceable.

1.5 Title I Conditions

As generally identified below, this CAAPP permit contains certain conditions for emission units at this source that address the applicability of permitting programs for the construction and modification of sources, which programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include PSD and MSSCAM, and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of the Illinois Environmental Protection Act (Act). These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

- a. This permit contains Title I conditions that reflect Title I requirements established in permits previously issued for this source, which conditions are specifically designated as "T1".

2.0 LIST OF ABBREVIATIONS AND ACRONYMS COMMONLY USED

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BACT	Best Available Control Technology
BAT	Best Available Technology
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
ERMS	Emissions Reduction Market System
HAP	Hazardous Air Pollutant
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
LAER	Lowest Achievable Emission Rate
MACT	Maximum Achievable Control Technology
MSSCAM	Major Stationary Sources Construction and Modification (35 IAC 203, New Source Review for non-attainment areas)
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards
PM	Particulate Matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
PSD	Prevention of Significant Deterioration (40 CFR 52.21, New Source Review for attainment areas)
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile Organic Material

3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES

3.1 Identification of Insignificant Activities

The following activities at the source constitute insignificant activities as specified in 35 IAC 201.210:

3.1.1 Activities determined by the Illinois EPA to be insignificant activities, pursuant to 35 IAC 201.210(a)(1) and 201.211, as follows:

None

3.1.2 Activities that are insignificant activities based upon maximum emissions, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

- Natural-fired Kiln

3.1.3 Activities that are insignificant activities based upon their type or character, pursuant to 35 IAC 201.210(a)(4) through (18), as follows:

Direct combustion units designed and used for comfort heating purposes and fuel combustion emission units as follows: (A) Units with a rated heat input capacity of less than 2.5 mmBtu/hr that fire only natural gas, propane, or liquefied petroleum gas; (B) Units with a rated heat input capacity of less than 1.0 mmBtu/hr that fire only oil or oil in combination with only natural gas, propane, or liquefied petroleum gas; and (C) Units with a rated heat input capacity of less than 200,000 Btu/hr which never burn refuse, or treated or chemically contaminated wood [35 IAC 201.210(a)(4)].

Furnaces used for melting metals, other than beryllium, with a brim full capacity of less than 450 cubic inches by volume [35 IAC 201.210(a)(6)].

Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons per year, provided the storage tank is not used for the storage of gasoline or any material listed as a HAP pursuant to Section 112(b) of the CAA [35 IAC 201.210(a)(10)].

Storage tanks of any size containing virgin or re-refined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils [35 IAC 201.210(a)(11)].

Gas turbines and stationary reciprocating internal combustion engines of less than 112 kW (150 horsepower) power output [35 IAC 201.210(a)(15)].

Gas turbines and stationary reciprocating internal combustion engines of between 112 kW and 1,118 kW (150 and 1,500 horsepower) power output that are emergency or standby units [35 IAC 201.210(a)(16)].

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b). Note: These activities are not required to be individually listed.

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.3.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322 (see Attachment 2) and 35 IAC Part 266. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
- 3.2.2 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.
- 3.2.3 For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.
- 3.2.4 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182.

3.3 Addition of Insignificant Activities

- 3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).
- 3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

3.3.3 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type identified in 35 IAC 201.210(b).

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 1	2 Overfeed Stoker Coal-Fired Boilers #2 and #3: Rated 60 mmBtu/Hr (Each)	Both 1960 (In 1981 Both Were Converted Back to Coal-Fired.)	1 Baghouse
Unit 2	Coal and Ash Silos	1960	Dust Collectors
Unit 3	3 Natural Gas-Fired Boilers with Distillate Fuel Oil, including biodiesel: #5: Rated 131 mmBtu/Hr #6: Rated 131 mmBtu/Hr #7: Rated 122 mmBtu/Hr Note: The Back-Up Fuel Oil #6 was replace with Distillate Fuel Oil, including biodiesel, in Construction Permit 10100028	#5: 1966 #6: 1970 #7: 1978	None None None None
Unit 4	2 Gasoline Storage Tanks: 1 - 10,000 Gallon Capacity 1 - 2,500 Gallon Capacity	Both Built May of 1998	Submerged Loading Pipe (Each)

5.0 OVERALL SOURCE CONDITIONS

5.1 Applicability of Clean Air Act Permit Program (CAAPP)

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of NOx and SO2 emissions.

5.2 Area Designation

This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated attainment or unclassifiable for the National Ambient Air Quality Standards for all criteria pollutants (CO, lead, NO₂, ozone, PM_{2.5}, PM₁₀, SO₂).

5.3 Source-Wide Applicable Provisions and Regulations

5.3.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions for Specific Emission Units) of this permit.

5.3.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. 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 overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
- b. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
- c. All normal traffic pattern roads and parking facilities located at this source shall be paved or treated with water, oils, or chemical dust suppressants. All paved areas shall be cleaned on a regular basis. All areas treated with water, oils, or chemical dust suppressants shall have the treatment applied on a regular basis, as needed, in accordance with the operating program [35 IAC 212.306].

5.3.3 Ozone Depleting Substances

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

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.3.4 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 owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

- a. A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or
- b. A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification required by Condition 9.8.

5.3.5 Future Emission Standards

- a. Should this stationary source become subject to a new or revised regulation under 40 CFR Parts 60, 61, 62, or 63, or 35 IAC Subtitle B after the date issued of this permit, then the owner or operator 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 9.8. This permit may also have to be revised or reopened to address such new or revised regulations (see Condition 9.12.2).
- b. 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.

5.3.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.141, 244.142, and 244.143, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144 and is incorporated by reference into this permit.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared by the Director of the Illinois EPA or his or her designated representative.
- c. If an operational change occurs at the source which invalidates the plan, a revised plan shall be submitted to the Illinois EPA for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.

5.4 Source-Wide Non-Applicability of Regulations of Concern

Source-wide non-applicability of regulations of concern are not set for this source. However, there are terms for unit specific non-applicability of regulations of concern set forth in Section 7 of this permit.

5.5 Source-Wide Control Requirements and Work Practices

Source-wide control requirements and work practices are not set for this source. However, there are requirements for unit specific control requirements and work practices set forth in Section 7 of this permit.

5.6 Source-Wide Production and Emission Limitations

5.6.1 Permitted Emissions for Fees

The annual emissions from the source, not considering insignificant activities as addressed by Section 3.0 of this permit, 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. These limitations (Condition 5.6.1) are set for the purpose of establishing fees and are not federally enforceable (see Section 39.5(18) of the Act).

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	11.19
Sulfur Dioxide (SO ₂)	1300.67

Pollutant	Tons/Year
Particulate Matter (PM)	50.75
Nitrogen Oxides (NO _x)	562.24
HAP, not included in VOM or PM	11.40
Total	1935.99

5.6.2 Emissions of Hazardous Air Pollutants

Pursuant to Section 39.5(7)(a) of the Act, this condition is being imposed so that the source is not a major source of HAP emissions. 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). The Permittee shall fulfill the applicable testing, recordkeeping, and reporting requirements of Conditions 5.6.2 and 5.9.1.

To verify compliance with the requirements of this Condition, that this source is not a major source of HAPs, total plant wide coal usage limitations are established and shall not be exceeded:

	(Tons/Month)	(Tons/Year)
Total Coal Usage	4,200.00	16,600.00

[T1].

5.6.3 Other Source-Wide Production and Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to the federal rules for PSD, state rules for MSSCAM, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

5.7 Source-Wide Testing Requirements

5.7.1 Pursuant to 35 IAC 201.282 and Section 4(b) of the Act, 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:

- a. Testing by Owner or Operator: The Illinois EPA may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Illinois EPA, at such reasonable times as may be specified by the Illinois EPA and at the expense of the owner or operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Illinois EPA shall have the

right to observe all aspects of such tests [35 IAC 201.282(a)].

- b. Testing by the Illinois EPA: The Illinois EPA shall have the right to conduct such tests at any time at its own expense. Upon request of the Illinois EPA, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Illinois EPA, 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 [35 IAC 201.282(b)].
- c. Any such tests are also subject to the Testing Procedures of Condition 8.5 set forth in the General Permit Conditions of Section 8.

5.7.2 HAP Testing to Verify Minor Source Status

Source-wide HAP testing requirements are not set for this source. However, there may be provisions for unit specific HAP testing set forth in Section 7 of this permit.

5.8 Source-Wide Monitoring Requirements

Source-wide monitoring requirements are not set for this source. However, there are provisions for unit specific monitoring set forth in Section 7 of this permit.

5.9 Source-Wide Recordkeeping Requirements

5.9.1 Annual Emission Records

The Permittee shall maintain records of total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.6.1, pursuant to Section 39.5(7)(b) of the Act.

5.9.2 Records for HAP Emissions

- a. The Permittee shall maintain records of individual and combined HAP emissions on a monthly and annual basis for the emission units covered by Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit to demonstrate compliance with Condition 5.6.2, pursuant to Section 39.5(7)(b) of the Act.
- b. If testing is required by Condition 5.7.2, the Permittee shall keep records of the testing, including the test date, conditions, methodologies, calculations, test results, and any discrepancies between the test results and formulation specifications of Condition 5.9.2(c) below.

5.9.3 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.
- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.10 Source-Wide Reporting Requirements

5.10.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the source with the permit requirements within 30 days, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken. There are also reporting requirements for unit specific emission units set forth in Section 7 of this permit.

5.10.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year.

5.11 Source-Wide Operational Flexibility/Anticipated Operating Scenarios

Source-wide operational flexibility is not set for this source. However, there are provisions for unit specific operational flexibility set forth in Section 7 of this permit.

5.12 Source-Wide Compliance Procedures

5.12.1 Procedures for Calculating Emissions

Except as provided in Condition 9.1.3, compliance with the source-wide emission limits specified in Condition 5.6 shall be addressed by the recordkeeping and reporting requirements of Conditions 5.9 and 5.10, and compliance procedures in Section 7 (Unit Specific Conditions for Specific Emission Units) of this permit.

6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

This section is reserved for emissions control programs. As of the date of issuance of this permit, there are no such programs applicable to this source.

7.0 UNIT SPECIFIC CONDITIONS FOR SPECIFIC EMISSION UNITS

7.1 Coal-Fired Boilers

7.1.1 Description

Two coal-fired boilers are used to produce steam, which is piped to campus buildings for heating and cooling. The facility has installed a stack tip nozzle. Coal and ash are stored in silos and are controlled by dust collectors.

Note: This narrative description is for informational purposes only and is not enforceable.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 1	Two Overfeed Stoker Coal-Fired Boilers #2 and #3 (60.0 mmBtu/Hr Each)	Both 1960 (In 1981 Both Were Converted Back to Coal-Fired)	One Baghouse
Unit 2	Coal and Ash Silos	1960	Dust Collectors

7.1.3 Applicable Provisions and Regulations

- a. The "affected boilers" for the purpose of these unit-specific conditions, are fuel combustion emission units described in Conditions 7.1.1 and 7.1.2.
- b. An "affected boiler" for the purpose of these unit-specific conditions, is an existing fuel combustion emission unit, as listed in Condition 7.1.2, for which construction or modification commenced prior to April 14, 1972, with actual heat input greater than 2.9 MW (10 mmBtu/hr) and less than or equal to 73.2 MW (250 mmBtu/hr), burn solid fuel exclusively, and which are located outside the Chicago, St. Louis (Illinois), or Peoria major metropolitan areas [35 IAC 212.142].
- c. Pursuant to 35 IAC 212.123, 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. The emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 1000 ft radius from the center point of any other such emission unit owned or operated by such person, and provided further that such

opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period [35 IAC 212.123].

- d. No person shall cause or allow the emission of particulate matter into the atmosphere from any fuel combustion emission unit for which construction or modification commenced prior to April 14, 1972, using solid fuel exclusively, which is located outside the Chicago major metropolitan area, to exceed the allowable emission standard determined by the equation below: [35 IAC 212.202].

$$S = 5.18(H)^{-0.715}$$

Where:

S = Allowable emission standard in lbs/mmBtu or kg/MW

H = Actual heat input in lbs/mmBtu or MW-hr

- e. No person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from any existing fuel combustion source with actual heat input less than, or equal to, 73.2 MW (250 mmBtu/hr), burning solid fuel exclusively, located outside the Chicago, St. Louis (Illinois) or Peoria major metropolitan areas, to exceed 10.5 kg of sulfur dioxide per MW-hr of actual heat input (6.8 lbs/mmBtu). This is the emission limitation established as the source has demonstrated that a higher level of emission (e.g., 6.8 lbs/mmBtu) will not violate any applicable PSD increment nor the National Ambient Air Quality Standard (NAAQS) [35 IAC 214.142 and 214.186].
- f. No person shall cause or allow the emission of carbon monoxide into the atmosphere from any fuel combustion emission unit with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 parts per million, corrected to 50 percent excess air [35 IAC 216.121].
- g. Each affected silo controlled by dust collectors are subject to the following: 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 [35 IAC 212.301].
- h. Startup Provisions (All affected Boilers)

Pursuant to 35 IAC 201.149 and Part 201, Subpart I, subject to the following terms and conditions for affected Boilers #2 and #3, the Permittee is authorized to violate the applicable opacity and carbon monoxide standards in 35 IAC

212.122(a), 212.123(a) and 216.121 during startup.

Note: This authorization is provided because the Permittee applied for such authorization in its CAAPP application, generally describing the efforts that will be used "...to minimize startup emissions, duration of individual starts, and frequency of startups."

- i. This authorization does not relieve the Permittee from the continuing obligation to demonstrate that all reasonable efforts are made to minimize startup emissions, duration of individual startups and frequency of startups.
 - ii. The Permittee shall conduct startup of the affected boilers in accordance with the manufacturer's written instructions or other written procedures prepared by the Permittee and maintained at the source (see Condition 7.1.9) for the affected boilers, that are specifically developed to minimize emissions from startups and that include, at a minimum a review of the operational condition of the affected boilers prior to initiating startup of the boiler.
 - iii. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.1.9.
 - iv. The Permittee shall fulfill applicable notification and reporting requirements of Condition 7.1.10.
 - v. As provided by 35 IAC 201.265, an authorization in a permit for excess emissions during startup does not shield a Permittee from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.
- i. The affected boilers are subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers 40 CFR Part 63, Subpart JJJJJJ, Area Source Boiler MACT, because the affected boilers are institutional boilers at an area source of HAP emissions, pursuant to 40 CFR 63.11237.
 - i. Pursuant to 40 CFR 63.11194, the affected boilers are existing boilers located at an area source of HAP emissions because the affected boilers commenced construction on or before June 4, 2010 and the source is not a major source of HAP emissions pursuant to Condition 5.6.2.
 - ii. Future Emission Standards (40 CFR 63 Subpart JJJJJJ)

- A. Pursuant to 40 CFR 63.11196, the affected boilers must comply with an applicable emission limitations, work practice and/or management practice standard of a tune-up, and/or energy assessment requirement of 63.11201 and 40 CFR 63 Subpart A, no later than the specified compliance date(s).
- B. Pursuant to 40 CFR 63.11210, the Permittee must meet the applicable notification requirements in 40 CFR 63. 11196, 63.11225 and in 40 CFR Part 63 Subpart A.
- C. Pursuant to 40 CFR 63.11210, the Permittee must meet the applicable notification requirements in 40 CFR 63. 11196 and in 40 CFR Part 63 Subpart A.
- D. Pursuant to 40 CFR 63.11211, the Permittee shall conduct any initial performance test or other initial compliance demonstration that is specified for the affected boilers in 40 CFR 63.11212 and according to the provisions in 40 CFR Part 63 Subpart A.
- E. Pursuant to 40 CFR 63.11225, the Permittee must submit all of the notifications in 40 CFR 63.7(b) and (c); 40 CFR 63.8(e), (f)(4) and (f)(6); and 40 CFR 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified.
- F. Pursuant to 40 CFR 63.112255 and 63.11205, The Permittee must keep records of the maintenance conducted on the affected boilers in order to demonstrate that you operated and maintained the affected boilers according to your own maintenance plan.

7.1.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected boilers and silos not being subject to 35 IAC 215.301, Use of Organic Material, because 35 IAC 215.303 states that the provision of 35 IAC 215.301 shall not apply to fuel combustion emission units [35 IAC 215.303].
- b. The affected boilers are not subject to 35 IAC 217.141, Emissions of Nitrogen Oxides from Existing Fuel Combustion Emission Sources in Major Metropolitan Areas, because the affected boilers are less than 250 mmBtu/hr and not located in the Chicago or St. Louis (Illinois) major metropolitan areas [35 IAC 217.141].

- c. The affected boilers are not subject to 35 IAC 217.121, Emissions of Nitrogen Oxides from New Fuel Combustion Emission Sources, because the actual heat input is less than 73.2 MW (250 mmBtu/hr) [35 IAC 217.121].
- d. The affected boilers are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the affected boilers are subject to an area source NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).
- e. This permit is based on the affected source not being subject to 40 CFR 63, Subpart DDDDD, Major Source Boiler MACT, because the affected source took emission limitations below major thresholds to become a synthetic minor for HAPs (See Section 5.6.2 and 40 CFR 63.7485).

7.1.5 Control Requirements and Work Practices

- a. Bituminous coal shall be the only fuel fired in the affected boilers, pursuant to Section 39.5(7)(a) of the Act;
- b. For each affected silo and each affected boiler the Permittee shall follow good operating practices for the control systems, including periodic inspection, routine maintenance, and prompt repair of defects to prevent emissions beyond the property line, pursuant to Section 39.5(7)(a) of the Act;
- c. The Permittee shall operate, maintain and calibrate a continuous opacity monitoring system on the coal-fired boilers, pursuant to Section 39.5(7)(a) of the Act.

7.1.6 Production and Emission Limitations

In addition to Condition 5.3.2 and the source-wide emission limitations in Condition 5.6, the affected boilers are subject to the following:

- a. i. Total annual Bituminous coal consumption: 16,600 tons (See Section 5.6);
- ii. HAP emissions from the affected coal-fired boilers shall not be equal to or exceeding 10 tons per year of a single HAP or 25 tons per year of any combination of such HAPs. This limit is based on the total coal usage 16,600 tons/year (See Section 5.6);
- iii. The above limitations are being established in this permit. These emission and production limits ensure that the affected coal-fired boilers are not subject to requirements that would be established in the

future by new Federal standards proposed by USEPA [T1]; and

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

b. Annual Emissions, ton/yr:

Pollutant	PM/PM ₁₀	SO ₂	NO _x	VOM	CO
Emissions	14.19	1,104.0	62.25	0.415	49.8

c. These limits are based on the maximum operating rate, standard emission factors (for NO_x, VOM and CO), stack test results (PM/PM₁₀) and allowable emissions (for SO₂). Compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

d. The above limitations contain revisions to previously issued Permits 92100061 and 81110001. The source has requested that the Illinois EPA establish conditions in this permit that allow various refinements from the conditions of this aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically 35 IAC Part 203, Major Stationary Sources Construction and Modification. These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, emission limits have been from the affected coal-fired boilers have been decreased based on the installation of a baghouse, newly submitted stack test results and revised standard emission factors [T1].

7.1.7 Testing Requirements

a. Boiler Testing Requirements:

i. Pursuant to Section 39.5(7)(d) of the Act, the Permittee shall test once every five years, the Permittee shall conduct testing of the affected coal-fired boilers by using approved USEPA methods, unless another method is approved by the Agency: Refer to 40 CFR 60, Appendix A for USEPA test methods for

measuring actual emissions of regulated air pollutants per the conditions of construction permit 92100061 as follows (or any other approved USEPA Reference Method):

- A. Location of Sample Points USEPA Method 1
 - B. Gas Flow and Velocity USEPA Method 2
 - C. Particulate Matter USEPA Method 5
 - D. Carbon Monoxide USEPA Method 10
 - E. Opacity USEPA Method 9.
- ii. Prior to carrying out these tests, the Agency's regional office and the Agency's Source Emission Test Specialist shall be notified a minimum of thirty (30) days prior to the expected date of these tests and further notified a minimum of five (5) working days prior to the test of the exact date, time and place of these tests, to enable the Agency to witness these tests.
 - iii. Three (3) copies of the Final Report(s) for these tests shall be submitted to the Agency within 14 days after the test results are compiled and finalized.
 - iv. A copy of the Summary of Results, General Information, and Conclusions, as contained in the Final Report, shall also be submitted to the Source Emission Test Specialist.
 - v. Copies of the Final Report(s) for these tests shall be submitted to the Agency within 14 days after the test results are compiled and finalized.
 - vi. Within 30 days after completion of sampling, the Final Report shall include as a minimum:
 - A. A summary of results;
 - B. General information;
 - C. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule;
 - D. Detailed description of test conditions, including
 - 1. Process information, i.e., mode(s) of operation, operating parameters, e.g., steam generation rate, coal consumption;

2. Control equipment information, i.e., equipment condition and operating parameters during testing; and
 3. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
- E. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration;
- F. An explanation of any discrepancies among individual tests or anomalous data;
- b. Opacity Testing for Ash and Coal Silos:
- i. Pursuant to Section 39.5(7)(d) of the Act, the Permittee shall test once every five years for opacity for the coal and ash silos. The measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, so as to demonstrate compliance with the emission limits in Condition 7.1.3(c).
 - ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
 - iii. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).
 - iv. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
 - v. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
 - vi. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
 - A. Date and time of testing.
 - B. Name and employer of qualified observer.

- C. Copy of current certification.
 - D. Description of observation conditions.
 - E. Description of the operating conditions.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.
- c. The Permittee shall comply with the fuel analysis procedures shown in 35 IL Adm. Code 214.101(c) or (e). The specific ASTM procedures, in 35 IAC 214.104(c), shall be used for solid fuel sampling, sulfur, and heating value determinations.

7.1.8 Monitoring Requirements

- a. Boiler Monitoring Requirements:
 - i. The Permittee shall install, calibrate, operate and maintain a continuous opacity monitoring system on the coal fired boilers to indicate any exceedances of the following rule: 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 [35 IAC 212.123(a)], except as allowed by 35 IAC 212.123(b).
- b. Ash and Coal Silo Monitoring Requirements:
 - i. Pursuant to Section 39.5(7)(d) of the Act, the Permittee shall conduct a qualitative visible emissions observation once each day of operation to observe for the presence of abnormal visible emissions of the coal and ash silos.
 - ii. If excess visible emissions are observed, the Permittee shall initiate corrective actions to eliminate the excess visible emissions. If the Permittee cannot eliminate the excess visible emissions, the Permittee shall conduct a Method 9 test as follows:
 - A. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.

- B. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
- C. Date and time of testing.
- D. Name and employer of qualified observer.
- E. Copy of current certification.
- F. Description of observation conditions.
- G. Description of the operating conditions.
- H. Raw data.
- I. Opacity determinations.
- J. Conclusions.

Note: The observations required above is not intended to be a USEPA Test Method 9 opacity test, nor does the observation require a USEPA Test Method 9 certified observer. It is intended to be performed by personnel familiar with the operation of the affected silo who would be able to make a determination based from the observed opacity as to whether or not the affected silo was running properly, and subsequently initiate a corrective action if necessary.

7.1.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected boilers to demonstrate compliance with Conditions 5.6.1, 7.1.3, 7.1.4, 7.1.5, 7.1.6, 7.1.7 and 7.1.8, pursuant to Section 39.5(7)(b) of the Act:

- a. Bituminous coal consumption (tons/month and tons/year);
- b. Coal analysis that includes the bituminous coal sulfur content (weight percent) and heat content;
- c. If required pursuant to Condition 7.1.7(a) and/or (b), the Permittee shall keep records for all boiler and coal, and/or ash silo testing.
- d. Owner or operator of a opacity monitoring system shall keep records of opacity measurements and operating status of the monitoring equipment with the minimum following information:
 - i. For periods of any emissions in excess of any emission limitation applicable to the source:

- A. The start date and time of the excess emissions;
 - B. The duration of the excess emissions;
 - C. The magnitude of excess emissions;
 - D. The cause of the excess emissions, if known;
 - E. Corrective actions and actions taken to lessen the emissions;
 - F. The operating status of the monitoring system, including the dates and times of any periods during which it was inoperative; and
 - G. Other information, including but not limited to, monitoring location, monitoring maintenance records and source operating hours.
- ii. For opacity measurements, recordkeeping shall be based on a minimum of 36 data points equally spaced over 6 minutes to get the 6 minute block average; and the following information:
 - A. The percent opacity for each continuous opacity excess period; and
 - B. The start and stop time in six minute increments of any opacity measurements in excess of the limitation.
 - iii. If there were no excess emissions during the reporting period, the recordkeeping shall so state and include information about the operating status of the monitoring equipment during that period.
- e. For each affected silo the Permittee shall keep the following recordkeeping requirements:
 - i. Update maintenance and/or repair records (monthly);
 - ii. Periodic inspections of the dust collectors (monthly);
 - iii. Periodic inspections of the silos (monthly);
 - iv. Periodic Opacity inspections of each affected silo (monthly); and
 - v. Records shall be kept in a log and maintained onsite.

- vi. If required pursuant to Condition 7.1.7(b), the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 pursuant to Condition 7.1.7(b).
- vii. The Permittee shall keep records for all observations of opacity conducted pursuant to Condition 7.1.8(b). For each occasion on which such observations are made, these records shall include:
 - A. The date and time of the observation.
 - B. The identity of the observer.
 - C. The observed opacity and a description of the various observations that were made.
 - D. Whether or not the affected BOILERS were running properly.
 - E. Whether or not corrective action was necessary or was subsequently initiated.
- f. Records for Startups of Affected Boilers, pursuant to Section 39.5(7)(b) of the Act
 - i. The Permittee shall maintain startup procedures for each affected boiler, as required by Condition 7.1.3.
 - ii. The Permittee shall maintain the following records for each startup of an affected boiler:
 - A. Date, time and duration of the startup.
 - B. A description of the startup and reason(s) for the startup.
 - C. Whether a violation of an applicable standard may have occurred during startup accompanied by the information in Condition 7.1.9(f)(iv) if a violation may have or did occur.
 - D. Whether the established startup procedures, maintained above, were followed accompanied by the information in Condition 7.1.9(f)(iii) if there were departure(s) from those procedures.
 - iii. If the established startup procedures were not followed during a startup, the Permittee shall maintain the following records:
 - A. A description of the departure(s) from the established procedures.

- B. The reason(s) for the departure(s) from the established procedures.
- C. An explanation of the consequences of the departure(s) for emissions, such as whether the departure(s) prolonged the startup or resulted in additional emissions, and if so:
 - 1. The actions taken to minimize emissions and the duration of the startup; and
 - 2. An explanation whether similar incidents might be prevented in the future and if so, the corrective actions taken or to be taken to prevent similar incidents.
- iv. If a violation did or may have occurred during a startup, the Permittee shall maintain the following records:
 - A. Identification of the applicable standard(s) that were or may have been violated.
 - B. An explanation of the nature of such violation(s), including the magnitude of such excess emissions.
 - C. A description of the actions taken or to be taken to minimize the magnitude of emissions and duration of the startup.
 - D. An explanation whether similar incidents could be prevented or ameliorated in the future and if so, a description of the actions taken or to be taken to prevent similar incidents in the future.
- g. Monthly and annual aggregate SO₂, PM, NO_x, CO and HAP emissions, based on bituminous coal consumption with supporting calculations.

7.1.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected boilers with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- b. Submit quarterly, the monthly coal analysis that at least includes, the bituminous coal sulfur content (weight

percent), heat content and amount of coal burned within 45 days of the ending quarter. The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263.

c. Submit quarterly, a continuous opacity emission report within 45 days of the ending quarter. The Permittee shall provide the following notification and reports to the Illinois EPA, Compliance Section and Regional Field Office, pursuant to 35 IAC 201.263. The report shall contain the minimum following information:

i. For periods of any emissions in excess of any emission limitation applicable to the source:

- A. The start date and time of the excess emissions;
- B. The duration of the excess emissions;
- C. The magnitude of excess emissions;
- D. The cause of the excess emissions, if known;
- E. Corrective actions and actions taken to lessen the emissions;
- F. The operating status of the monitoring system, including the dates and times of any periods during which it was inoperative; and
- G. Other information, including but not limited to, monitoring location, monitoring maintenance records and source operating hours.

ii. For opacity measurements, the report shall be based on a minimum of 36 data points equally spaced over 6 minutes to get the 6 minute block average; and the following information:

- A. The percent opacity for each continuous opacity excess period; and
- B. The start and stop time in six minute increments of any opacity measurements in excess of the limitation.

iii. If there were no excess emissions during the reporting period, the report shall so state and include information about the operating status of the monitoring equipment during that period.

d. Reporting for Startups (State Authorization)

Pursuant to 39.5(7)(a) and (f)(ii) of the Act, when startup reports are required for an emission unit by unit specific conditions in Chapter 7 of this permit, such reports shall be submitted to the Illinois EPA, Air Compliance Section and Collinsville Regional Field Office on a semi-annual basis, and include the following information related to startups of such emission unit and associated air pollution control equipment.

- i. If startups occurred during the reporting period, the report shall include the following:
 - A. The number of startups.
 - B. The number of departures from established procedures.
 - C. The number of exceedances of each applicable standard.
 - D. A general explanation for the magnitude of the numbers reported and the significance or meaning of those numbers.
 - E. A general explanation for the departures.
 - F. A general explanation for the exceedances.
 - G. A general discussion of whether any improvements were made to startup practices
- ii. If there were no startups for the reporting period, a statement that "No startups occurred during this reporting period."
- iii. Startups that resulted in excess emissions shall be addressed in the deviation reports as required by unit specific conditions in Section 7 of this permit.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected boilers. However, there are provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.1.12 Compliance Procedures

- a. Compliance with the opacity limitation of condition 7.1.3(c) and (g) is addressed by the testing requirements in Condition 7.1.7(a) and 7.1.7(b), the monitoring requirements in Condition 7.1.8(a) and (b), the records required in Condition 7.1.9(c) and (d), and the reports required in Condition 7.1.10.

- b. Compliance with the PM limitation of condition 7.1.3(d) is addressed by the testing requirements in Condition 7.1.7(a) and 7.1.7(b), the monitoring requirements in Condition 7.1.8(a) and (b), the records required in Condition 7.1.9, and the reports required in Condition 7.1.10.
- c. Compliance with the SO₂ limitation of condition 7.1.3(e) shall be based on the bituminous coal analyses required by testing requirements condition 7.1.7(c), the records required in Condition 7.1.9(b) and (d), and the reports required in Condition 7.1.10.
- d. Compliance with the CO limitation of Condition 7.1.3(f) is addressed by the testing requirements in Condition 7.1.7(a), the records required in Condition 7.1.9, and the reports required in Condition 7.1.10.
- e. Compliance with the emission limitations of Condition 7.1.6 is addressed by the testing requirements in Condition 7.1.7(a), the records required in Conditions 7.1.9(a), (b) and (f), and the reports required in Condition 7.1.10.
- f. Compliance with the emission limits in Condition 5.6 is addressed by the records required in Condition 7.1.9(f).

7.2 Natural Gas-Fired Boilers

7.2.1 Description

Three natural gas-fired boilers are used to produce steam, which is piped to campus buildings for heating and cooling. The three boilers are capable of burning distillate fuel oil, including biodiesel, as a backup energy service.

Note: This narrative description is for informational purposes only and is not enforceable.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 3	3 Natural Gas-Fired Boilers with Distillate Fuel Oil, including biodiesel:		
	#5: Rated 131 mmBtu/Hr	#5: 1966	None
	#6: Rated 131 mmBtu/Hr	#6: 1970	None
	#7: Rated 122 mmBtu/Hr	#7: 1978	None
	Note: The Back-Up Fuel Oil #6 was replace with Distillate Fuel Oil, including biodiesel, in Constr. Permit 10100028		None

7.2.3 Applicable Provisions and Regulations

- a. An "affected boiler" for the purpose of these unit specific conditions, are the boilers described in Conditions 7.2.1 and 7.2.2.
- b. Pursuant to 35 IAC 212.123, 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. The emission of smoke or other particulate matter from any such emission unit may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes in any 60 minute period provided that such opaque emissions permitted during any 60 minute period shall occur from only one such emission unit located within a 1000 ft radius from the center point of any other such emission unit owned or operated by such person, and provided further that such opaque emissions permitted from each such emission unit shall be limited to 3 times in any 24 hour period [35 IAC 212.123].

- c. All affected boilers are subject to 35 IAC 216.121. No person shall cause or allow the emission of carbon monoxide 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 50 percent excess air [35 IAC 216.121].
- d. Pursuant to 35 IAC 214.122 and 214.161, the sulfur content of fuel oil used in Boilers 5, 6 and 7 shall not exceed 0.15 pound per million Btu (equivalent to sulfur dioxide (SO₂) emissions of 0.30 pound per million Btu.) [35 IAC 214.122; 214.161] [T1].
- e. No person shall cause or allow the emission of particulate matter (PM) into the atmosphere in any one hour period to exceed 0.15 kg of particulate matter per MW-hr of actual heat input from any fuel combustion emission unit (affected boilers 5, 6 and 7) using liquid fuel exclusively (0.10 lbs/mmBtu) [35 IAC 212.206].

7.2.4 Non-Applicability of Regulations of Concern

- a. The affected boilers are not subject to 35 IAC 217.121, Emissions of Nitrogen Oxides from New Fuel Combustion Emission Sources, because the actual heat input of each affected boilers is less than 73.2 MW (250 mmBtu/hr) [35 IAC 217.121].
- b. The affected boilers are not subject to the continuous monitoring requirements of 35 IAC 201, Subpart L, because each affected boiler has a firing rate less than 250 mmBtu/hr and combusts gas and distillate fuel oil, including biodiesel, exclusively [35 IAC 201.401].
- c. Fuel combustion emission units are not subject to 35 IAC 215.301 or 215.302, Use Of Organic Material [35 IAC 215.303].
- d. The affected boilers are not subject to 35 IAC 217.141, Emissions of Nitrogen Oxides from Existing Fuel Combustion Emission Sources in Major Metropolitan Areas, because the affected boilers are less than 250 mmBtu/hr and not located in the Chicago or St. Louis (Illinois) major metropolitan areas [35 IAC 217.141].
- e. This permit is issued based on the affected boilers not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because each affected boiler does not use an add-on control device to achieve compliance with an emission limitation or standard.
- f. This permit is based on the affected source not being subject to 40 CFR 63, Subpart DDDDD, Major Source Boiler

MACT, because the affected source took emission limitations below major thresholds to become a synthetic minor for HAPs [See Section 5.6.2 and 40 CFR 63.7485].

- g. This permit is based on the affected source not being subject to 40 CFR 63, Subpart JJJJJJ, Area Source Boiler MACT, because the affected source meets the definition of a natural gas fired boiler. The definition is as follows: Gas-fired boiler includes any boiler that burns gaseous fuels not combined with any solid fuels, burns liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year. [40 CFR 63.11195 and 63.11237].

7.2.5 Control Requirements and Work Practices

- a. Each affected boiler shall only be operated with natural gas or distillate oil, including biodiesel, pursuant to Section 39.5(7)(a) of the Act [T1].
- b. The Illinois EPA shall be allowed to sample all fuels stored at the source, pursuant to Section 39.5(7)(b) of the Act.

7.2.6 Production and Emission Limitations

Production and emission limitations are not set for the affected boilers. However, there are source-wide production and emission limitations set forth in Condition 5.6.

7.2.7 Testing Requirements

- a. Opacity Testing
 - i. Pursuant to Section 39.5(7)(d) of the Act, the Permittee shall test once every six months for opacity while using natural gas, distillate fuel oil, including biodiesel. The measurements of opacity shall be conducted in accordance with Method 9, 40 CFR Part 60, Appendix A, so as to demonstrate compliance with the emission limits in Condition 7.2.3(b).
 - ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
 - iii. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness

testing. This notification shall include the name and employer of the qualified observer(s).

- iv. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- v. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- vi. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
 - A. Date and time of testing.
 - B. Name and employer of qualified observer.
 - C. Copy of current certification.
 - D. Description of observation conditions.
 - E. Description of the operating conditions.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.

b. Fuel Oil Testing

- i. In the event that the fuel oil supplier is unable to provide the sulfur content of the fuel oil supply for the affected boilers, the Permittee shall have the sulfur content of the oil supply to the affected boilers, in lbs/mmBtu, determined from an analysis of representative sample of the oil supply, as follows, pursuant to Section 39.5(7)(d) of the Act:
 - A. From a sample taken no later than 90 days after first operating the affected boilers pursuant to this permit, provided, however, that if such sample is taken following operation of the affected boilers, the sample shall be taken prior to adding more oil to the storage tank.
 - B. From a sample taken no later than 30 days after acceptance of a shipment of fuel whose sulfur content would not meet Condition 7.2.3(d) based upon supplier data, provided however, that if the affected BOILERS are operated following acceptance of such a shipment, the sample shall

be taken prior to adding a subsequent shipment of oil to the relevant storage tank.

C. From a sample taken no later than 30 days after a request for such a sample is made by the Illinois EPA, provided, however, that such sample shall be taken prior to adding more oil to the relevant storage tank.

ii. Sampling and analysis, including that which forms the basis for the suppliers' data, shall be conducted using methods that would be acceptable under the Optional SO₂ Emissions Data Protocol for Gas-Fired and Oil-Fired Units e.g., ASTM D4057-88 and ASTM D129-91.

Note: Condition 7.2.7(b)(ii) is for fuel testing methodology only, and is in no way intended to subject the source to those provisions.

7.2.8 Monitoring Requirements

- a. Pursuant to Section 39.5(7)(d) of the Act, the Permittee shall conduct a qualitative visible emissions observation once each day to observe for the presence of abnormal visible emissions when using natural gas, distillate oil, including biodiesel.
- b. If excess visible emissions are observed, the Permittee shall initiate corrective actions to eliminate the excess visible emissions. If the Permittee cannot eliminate the excess visible emissions, the Permittee shall conduct a Method 9 test as described in 7.2.7 of this permit.

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.9, the Permittee shall maintain records of the following items for the affected boilers to demonstrate compliance with Conditions 5.6.1, 7.2.3, 7.2.5, 7.2.7 and 7.2.8, pursuant to Section 39.5(7)(b) of the Act:

- a. Records for Natural Gas:
 - i. Natural gas consumption in standard cubic feet or therms per month and standard cubic feet or therms per year (mmscf/mo and mmscf/year);
 - ii. If required pursuant to Condition 7.2.7(a), the Permittee shall keep records for all natural gas testing.
- b. Records for Distillate Fuel Oil, including Biodiesel:

- i. A. Records for each shipment of fuel oil for the affected boilers, including date, supplier, quantity, and sulfur content (in Wt) for each shipment of distillate fuel oil, including biodiesel, used in the affected boilers;
 - B. If required pursuant to Condition 7.2.7(b), the Permittee shall keep records for all fuel oil testing.
 - ii. Fuel oil supplier certification, including:
 - A. The name of the oil supplier; and
 - B. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil, including biodiesel found at 35 IAC 211.1770;
 - iii. An operating log or other records that identify periods when oil was used in a boiler, with reason, e.g., exercise of oil firing capability or curtailment of natural gas supply (Hr/Mon, Hr/Yr);
- c. Records for Emissions
 - i. Maximum hourly emissions of NO_x, CO, SO₂, VOM, and PM from each affected boiler with supporting calculations.
 - ii. Emissions of NO_x, CO, SO₂, VOM, and PM from each affected boiler in tons/month and tons/year with supporting calculations.
 - iii. Total emissions of NO_x, CO, SO₂, VOM, and PM from all affected boilers, combined in tons/month and tons/year with supporting calculations.
- d. Records for Opacity
 - i. If required pursuant to Condition 7.2.7(a)(i), the Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 pursuant to Condition 7.2.7(a).
 - ii. The Permittee shall keep records for all observations of opacity conducted pursuant to Condition 7.2.8(a). For each occasion on which such observations are made, these records shall include:
 - A. The date and time of the observation.
 - B. The identity of the observer.

- C. The observed opacity and a description of the various observations that were made.
- D. Whether or not the affected boilers were running properly.
- E. Whether or not corrective action was necessary or was subsequently initiated.

7.2.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected boilers with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. The Permittee shall notify the Illinois EPA's regional office by telephone as soon as possible during normal working hours, but no later than three (3) days, upon the occurrence due to noncompliance with the opacity limitations in Condition 7.2.3(b), with a copy of such record for each incident.
- ii. Upon achievement of compliance, the Permittee shall give a written follow-up notice to the Illinois EPA within 30 days, Compliance Section and Regional Field Office, providing a detailed explanation of the event, an explanation why continued operation of the affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected boiler was taken out of service.
- iii. If there is an exceedance of sulfur content of distillate oil, including biodiesel in excess of the limit specified in Condition 7.2.3, the Permittee shall submit a report within 30 days after receipt of a noncompliant shipment of distillate oil and/or including biodiesel.
- iv. If the affected source no longer meets the definition of a natural gas fired boiler for 40 CFR 63, Subpart JJJJJJ, Area Source Boiler MACT, specified in Condition 7.2.4, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after not meeting the definition for natural gas fired boiler

and the actions to be taken to become compliant with 40 CFR 63, Subpart JJJJJJ, Area Source Boiler MACT.

- v. If there is an exceedance of the emission limitations in Condition 7.2.3, as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

Operational flexibility is not set for the affected boilers. However, there are provisions for source-wide operational flexibility set forth in Condition 5.11 of this permit.

7.2.12 Compliance Procedures

- a. Compliance with the opacity limitation of Condition 7.2.3(b) is addressed by the testing requirements in Condition 7.2.7(a), the monitoring requirements in Condition 7.2.8(a) and (b), the records required in Condition 7.2.9(d), and the reports required in Condition 7.2.10.
- b. Compliance with the SO₂ emission limitation of Conditions 7.2.3(d) is addressed by the testing *requirements* in Condition 7.2.7(b), the records required in Conditions 7.2.9(b) and (c) and (ii), and the reports required in Condition 7.2.10.
- c. Compliance with the emission limits in Condition 5.6 is addressed by the records required in Condition 7.2.9(c).

7.3 Gasoline Storage Tanks

7.3.1 Description

The gasoline storage tanks are associated with gasoline non-retail dispensing operations for university vehicles.

Note: This narrative description is for informational purposes only and is not enforceable.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Date Constructed	Emission Control Equipment
Unit 4	2 Gasoline Storage Tanks: 1 - 10,000 Gallon Capacity 1 - 2,500 Gallon Capacity	Both Built May of 1998	Submerged Loading Pipe Submerged Loading Pipe

7.3.3 Applicable Provisions and Regulations

- a. The "affected storage tanks" for the purpose of these unit-specific conditions, are the storage tanks described in Conditions 7.3.1 and 7.3.2.
- b. The affected storage tanks are subject to the emission limits identified in Condition 5.3.2.
- c. i. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 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) [35 IAC 215.122(b)].
 - ii. Exception: If no odor nuisance exists the limitations of Condition 7.3.3(c) shall only apply to the loading of volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F) [35 IAC 215.122(c)].
- d. No person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank

at a gasoline dispensing facility unless the tank is equipped with a submerged loading pipe [35 IAC 215.583(a)(1)].

7.3.4 Non-Applicability of Regulations of Concern

- a. This permit is issued based on each affected storage tank not being subject to 35 IAC 215.121, because each affected storage tank is less than 40,000 gallons [35 IAC 215.121].
- b. This permit is issued based on each affected storage tank not being subject to 35 IAC 215.122(a), because each affected storage tank is less than 40,000 gallons [35 IAC 215.122].
- c. The requirements of 35 IAC 215.583(a)(2) shall not apply to transfers of gasoline to a stationary storage tank at a gasoline dispensing facility because the tank is not located in any of the following counties: Boone, Cook, DuPage, Kane, Lake, Madison, McHenry, Peoria, Rock Island, St. Clair, Tazewell, Will or Winnebago [35 IAC 215.583(b)].
- d. This permit is issued based on each affected storage tank not being subject to 40 CFR 60, Subpart Kb, because each affected storage tank is not larger than 75 m³ (19,800 gallons) [40 CFR 60.110b].
- e. This permit is issued based on the affected storage tanks not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each affected storage tank does not use an add-on control device to achieve compliance with an emission limitation or standard.

7.3.5 Control Requirements and Work Practices

- a. Pursuant to Section 39.5(7)(a) of the Act, the affected storage tanks subject to the applicable provisions of Condition 7.3.3(c) (loading of volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F)) or Condition 7.3.3(d) (loading of gasoline) shall be equipped and operated with a submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA, pursuant to 35 IAC 215.122(b) and 215.583(a). (The Illinois EPA has not approved use of other equivalent equipment in lieu of a submerged loading pipe or submerged loading fill.)

7.3.6 Production and Emission Limitations

Production and emission limitations are not set for the affected storage tanks. However, there are source-wide production and emission limitations set forth in Condition 5.6.

7.3.7 Testing Requirements

Testing requirements are not set for the affected storage tanks. However, there are source-wide testing requirements in Condition 5.7 and general testing requirements in Condition 8.5.

7.3.8 Monitoring Requirements

Monitoring requirements are not set for the affected storage tanks. However, there are provisions for source-wide monitoring requirements set forth in Condition 5.8 of this permit.

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected storage tanks to demonstrate compliance with Conditions 5.6.1, 7.3.3 and 7.3.5, pursuant to Section 39.5(7)(b) of the Act:

- a. Design information for the affected storage tanks showing the presence of permanent submerged loading pipe or the use of submerged loading fill when loading of volatile organic liquid with a vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3°K (70°F) or loading of gasoline.
- b. Maintenance and repair records for the affected storage tanks, as related to the repair or replacement of the loading pipe.
- c. Identification and throughput of each material stored in the affected storage tanks, gal/month and gal/yr.
- d. The VOM emissions from the affected storage tanks based on the materials stored, the tank throughputs, and the applicable emission factors and formulas with supporting calculations, ton/month and ton/yr.

7.3.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA, Air Compliance Unit, of deviations of the affected storage tanks with the permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken:

- i. Any storage of VOL in the affected storage tanks that is not in compliance with the requirements of Conditions 7.3.3(c) or 7.3.3(d) within 30 days of becoming aware of the non-compliance status. This

notification shall include a description of the event, the cause for the non-compliance, actions taken to correct the non-compliance, and the steps taken to avoid future non-compliance.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected storage tanks without prior notification to the Illinois EPA or revision of this permit. This condition does not affect the Permittee's obligation to properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

- a. Changes to components related to either the submerged loading pipe or submerged fill, including addition of new components and repair and replacement of components.
- b. Changes in the material stored in the affected storage tanks, provided the affected storage tank continues to comply with the Conditions of Section 7.3 of this permit.

7.3.12 Compliance Procedures

- a. Compliance with Conditions 7.3.3(c) and (d) is considered to be assured by the use of submerged loading pipe or submerged fill as required in Condition 7.3.5(a), by the recordkeeping requirement of Condition 7.3.9(a) and reporting as required by condition 7.3.10.
- b. Compliance with the emission limits in Conditions 5.5 shall be based on the recordkeeping requirements in Condition 7.3.9 and the emission factors and formulas listed below:
 - i. For purposes of calculating VOM emissions, the current version of the USEPA's Tanks Program is acceptable.
- c. Compliance with the emission limits in Condition 5.6 is addressed by the records required in Condition 7.3.9(d).

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee 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 Illinois EPA, 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 May 30, 2011 (the date of issuance of the proposed permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is not an affected source under Title IV of the CAA and is not subject to requirements pursuant to Title IV of the CAA.

8.3 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].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

Physical or operational changes specifically addressed by the Conditions of this permit that have been identified as not requiring Illinois EPA notification may be implemented without prior notice to the Illinois EPA.

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

- a. The changes do not violate applicable requirements;
- b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test

methods), recordkeeping, reporting, or compliance certification requirements;

- c. The changes do not constitute a modification under Title I of the CAA;
- d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and
- e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:
 - i. Describe the physical or operational change;
 - ii. Identify the schedule for implementing the physical or operational change;
 - iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;
 - iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
 - v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

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 Illinois EPA shall be submitted as specified in Conditions 8.6.3 and 8.6.4.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA

every six months as follows, unless more frequent submittal of such reports is required in Sections 5 or 7 of this permit [Section 39.5(7)(f) of the Act]:

<u>Monitoring Period</u>	<u>Report Due Date</u>
January - June	September 1
July - December	March 1

All instances of deviations from permit requirements must be clearly identified in such reports. All such reports shall be certified in accordance with Condition 9.9.

8.6.2 Test Notifications

Unless otherwise specified elsewhere in this permit, a written test plan for any test required by this permit shall be submitted to the Illinois EPA for review at least 60 days prior to the testing pursuant to Section 39.5(7)(a) of the Act. The notification shall include at a minimum:

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. 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 source and any control equipment will be determined;
- d. The specific determinations of emissions and operation that are intended to be made, including sampling and monitoring locations;
- e. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The

test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;
- c. The date any analyses were performed;
- d. The name of the company that performed the tests and/or analyses;
- e. The test and analytical methodologies used;
- f. The results of the tests including raw data, and/or analyses including sample calculations;
- g. The operating conditions at the time of the sampling or measurements; and
- h. The name of any relevant observers present including the testing company's representatives, any Illinois EPA or USEPA representatives, and the representatives of the source.

8.6.4 Reporting Addresses

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Unit with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:

- i. Illinois EPA - Air Compliance Unit

Illinois Environmental Protection Agency
Bureau of Air
Compliance & Enforcement Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

- ii. Illinois EPA - Air Quality Planning Section

Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section (MC 39)
P.O. Box 19276
Springfield, Illinois 62794-9276

iii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
5407 North University
Peoria, Illinois 61614

iv. USEPA Region 5 - Air Branch

USEPA (AR - 17J)
Air & Radiation Division
77 West Jackson Boulevard
Chicago, Illinois 60604

- c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the address of the Air Permit Section is as follows:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
P.O. Box 19506
Springfield, Illinois 62794-9506

8.7 Title I Conditions

Notwithstanding the expiration date on the first page of this CAAPP permit, Title I conditions in this permit, which are identified by a T1, T1N, or T1R designation, remain in effect until such time as the Illinois EPA takes action to revise or terminate them in accordance with applicable procedures for action on Title I conditions. This is because these conditions either: (a) incorporate conditions of earlier permits that were issued by the Illinois EPA pursuant to authority that includes authority found in Title I of the CAA (T1 conditions), (b) were newly established in this CAAPP permit pursuant to authority that includes such Title I authority (T1N conditions), or (c) reflect a revision or combination of conditions established in this CAAPP permit (T1R conditions). (See also Condition 1.5.)

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule.

9.1.2 In particular, this permit does not alter or affect the following [Section 39.5(7)(j)(iv) of the Act]:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
- c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and
- d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Section 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.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee 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].

The Permittee shall meet applicable requirements that become effective during the permit term in a timely manner unless an alternate schedule for compliance with the applicable requirement is established.

9.2.2 Duty to Maintain Equipment

The Permittee 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.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless this permit provides for such continued operation consistent with the Act and applicable Illinois Pollution Control Board regulations [Section 39.5(6)(c) of the Act].

9.2.4 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.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA 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]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents as may be required by law and in accordance with constitutional limitations, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Sections 4 and 39.5(7)(a) and (p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment),

practices, or operations regulated or required under this permit;

- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance or applicable requirements; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and
- f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any regulated activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply with Other Requirements

The issuance of this permit does not release the Permittee from applicable State and Federal laws and regulations, and applicable local ordinances addressing subjects other than air pollution control.

9.5 Liability

9.5.1 Title

This permit shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located.

9.5.2 Liability of Permittee

This permit does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the sources.

9.5.3 Structural Stability

This permit does not take into consideration or attest to the structural stability of any unit or part of the source.

9.5.4 Illinois EPA Liability

This permit in no manner implies or suggests that the Illinois EPA (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the source.

9.5.5 Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege [Section 39.5(7)(o)(iv) of the Act].

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

A maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9.6.2 Records of Changes in Operation

A record shall be kept describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this permit, and the emissions resulting from those changes [Section 39.5(12)(b)(iv) of the Act].

9.6.3 Retention of Records

- a. 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].
- b. 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 longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

The Permittee shall submit an annual emissions report to the Illinois EPA, Air Quality Planning Section no later than May 1 of the following year, as required by 35 IAC Part 254.

9.8 Requirements for Compliance Certification

Pursuant to Section 39.5(7)(p)(v) of the Act, the Permittee shall submit annual compliance certifications. The compliance certifications shall be submitted no later than May 1 or more frequently as specified in the applicable requirements or by permit condition. The compliance certifications shall be submitted to the Air Compliance Unit, Air Regional Field Office, and USEPA Region 5 - Air Branch. The addresses for the submittal of the compliance certifications are provided in Condition 8.6.4 of this permit.

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the

certification; the compliance status; whether compliance was continuous or intermittent; 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.

- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee 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 as Attachment 1 to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee 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].

9.10.2 Emergency Provision

- a. An emergency shall be an affirmative defense to an action brought for noncompliance with the technology-based emission limitations under this permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence [Section 39.5(7)(k) of the Act]:

- i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency.

Note: For this purpose, emergency means a situation arising from sudden and reasonably unforeseeable events beyond the control of the source, as further defined by Section 39.5(7)(k)(iv) of the Act.

- ii. The permitted source was at the time being properly operated;
- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two 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; and

iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations [Section 39.5(7)(k)(iv) of the Act].

9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated 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.

9.12 Reopening and Reissuing Permit for Cause

9.12.1 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 Permittee 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].

9.12.2 Reopening and Revision

This permit must be reopened and revised if any of the following occur [Section 39.5(15)(a) of the Act]:

- a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit.
- b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program.
- c. The Illinois EPA or USEPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emission standards or limitations, or other terms or conditions of this permit.

- d. The Illinois EPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation and reissuance under Section 39.5(15) of the Act, pursuant to Sections 39.5(5)(e) and (i) of the Act.

9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA 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 Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7)(o)(v) of the Act].

9.13 Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of the permit, other portions of the 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 Permittee 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].

9.14 Permit Expiration and Renewal

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 this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5)(l) and (o) of the Act].

Note: Pursuant to Sections 39.5(5)(h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal

application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements. Section 39.5(7)(a) of the Act is also another basis of authority for terms and conditions of this permit that do include a specific citation for their authority.

Note: This condition is included in this permit pursuant to Section 39.5(7)(n) of the Act.

10.0 ATTACHMENTS

Attachment 1 Example Certification by a Responsible Official

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

Attachment 2 Emissions of Particulate Matter from Process Emission Units

- a. New Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972 [35 IAC 212.321].
- i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].
- ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.321(b)]:

$$E = A(P)^B$$

where:

P = Process weight rate; and
 E = Allowable emission rate; and,

A. Up to process weight rates of 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.214	2.54
B	0.534	0.534

B. For process weight rate greater than or equal to 408 Mg/hr (450 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	11.42	24.8
B	0.16	0.16

iii. Limits for Process Emission Units For Which Construction or Modification Commenced On or After April 19, 1972 [35 IAC 212.321(c)]:

Metric		English	
P	E	P	E
<u>Mg/hr</u>	<u>kg/hr</u>	<u>T/hr</u>	<u>lb/hr</u>
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58
0.5	0.84	0.50	1.75
0.7	1.00	0.75	2.40
0.9	1.15	1.00	2.60
1.8	1.66	2.00	3.70
2.7	2.1	3.00	4.60
3.6	2.4	4.00	5.35
4.5	2.7	5.00	6.00
9.0	3.9	10.00	8.70
13.0	4.8	15.00	10.80
18.0	5.7	20.00	12.50
23.0	6.5	25.00	14.00
27.0	7.1	30.00	15.60
32.0	7.7	35.00	17.00
36.0	8.2	40.00	18.20
41.0	8.8	45.00	19.20
45.0	9.3	50.00	20.50
90.0	13.4	100.00	29.50
140.0	17.0	150.00	37.00
180.0	19.4	200.00	43.00
230.0	22.0	250.00	48.50
270.0	24.0	300.00	53.00
320.0	26.0	350.00	58.00
360.0	28.0	400.00	62.00
408.0	30.1	450.00	66.00
454.0	30.4	500.00	67.00

iv. For process weight rates of less than 100 pounds per hour, the allowable rate is 0.5 pounds per hour [35 IAC 266.110].

b. Existing Process Emission Units for Which Construction or Modification Prior to April 14, 1972 [35 IAC 212.322].

- i. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].
- ii. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.322(b)]:

$$E = C + A(P)^B$$

where:

P = Process weight rate; and
 E = Allowable emission rate; and,

A. Up to process weight rates up to 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	1.985	4.10
B	0.67	0.67
C	0	0

B. For process weight rate in excess of 27.2 Mg/hr (30 T/hr):

	<u>Metric</u>	<u>English</u>
P	Mg/hr	T/hr
E	kg/hr	lb/hr
A	25.21	55.0
B	0.11	0.11
C	- 18.4	- 40.0

iii. Limits for Process Emission Units For Which Construction or Modification Commenced Prior to April 14, 1972 [35 IAC 212.322(c)]:

Metric P <u>Mg/hr</u>	E <u>kg/hr</u>	English P <u>T/hr</u>	E <u>lb/hr</u>
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.2	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22
0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.0	8.7	10.00	19.20
13.0	11.1	15.00	25.20
18.0	13.8	20.00	30.50
23.0	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

iv. For process weight rates of less than 100 pounds per hour, the allowable rate is 0.5 pounds per hour [35 IAC 266.110].

Attachment 3 Compliance Assurance Monitoring (CAM) Plan

There are no specific emission units that require a CAM plan as identified in the Monitoring Requirements of Subsection 8 for each Section 7, Unit Specific Conditions for Specific Emission Units.

Attachment 4 Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, www.epa.state.il.us. This guidance includes instructions on applying for a revision or renewal of the CAAPP permit.

Guidance On Revising A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-revising.pdf

Guidance On Renewing A CAAPP Permit:

www.epa.state.il.us/air/caapp/caapp-renewing.pdf

The application forms prepared by the Illinois EPA for the CAAPP are also available from the Illinois EPA's Internet site:

www.epa.state.il.us/air/caapp/index.html

These CAAPP application forms should also be used by a CAAPP source when it applies for a construction permit. For this purpose, the appropriate CAAPP application forms and other supporting information, should be accompanied by a completed Application For A Construction Permit form (199-CAAPP) and Fee Determination for Construction Permit Application form (197-FEE):

www.epa.state.il.us/air/caapp/199-caapp.pdf

www.epa.state.il.us/air/permits/197-fee.pdf

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