

217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT¹

PERMITTEE

Soyland Power Cooperative, Inc.
Attn: Randy Fisher, Supt. Illinois Generation
P.O. Box 10
Pearl, Il. 62361

Application No.: 95080060 I.D. No.: 149817AAB
Applicant's Designation: Date Received: August 15, 1995
Operation of: Electrical Power Generation
Date Issued: TO BE DETERMINED Expiration Date²: DATE
Source Location: Highway 100 South, Pearl (Pike County)
Responsible Official: Randy Fisher / Supt. Illinois Generation

This permit is hereby granted to the above-designated Permittee to operate an electrical power generation station, 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 Ross Cooper at 217/782-2113.

Donald E. Sutton, P.E.
Manager, Permit Section
Division of Air Pollution Control

DES:RWC:JRC:

cc: Illinois EPA, FOS, Region 2
USEPA

¹This permit contains terms and conditions that address the applicability, and, if determined applicable, substantive requirements of Title I of the Clean Air Act (CAA) and regulations promulgated thereunder, including 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification. The authority for these provisions is found in these regulations and in the general authority provided to the Illinois EPA by Section 9.1 of the Environmental Protection Act (Act) and Sections 39(a) and 39.5(7) (a) of the Act, which authorize the Illinois EPA to include conditions in permits that are required to accomplish the purposes of the Act. Any such terms and conditions are specifically identified within this permit as T1 conditions. These terms and conditions continue in effect as provided by Condition 8.7 of this permit, notwithstanding the expiration date specified above, as their authority derives from Title I, as well as from Title V of the CAA.

²Except as provided in Condition 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Pearl Station
Highway 100
Pearl, IL 62361
217/829-4291

I.D. No.: 149817AAB
Acid Rain Permit ORIS Code No.: N/A

Standard Industrial Classification: 4911, Electrical Services

1.2 Owner/Parent Company

Soyland Power Cooperative, Inc.
212 Locust Street, P.O. Box 1266
Harrisburg, Pennsylvania 17108-1266

1.3 Operator

Soyland Power Cooperative, Inc.
P.O. Box 10
Pearl, Il. 62361

Randy Fisher/Environmental Contact
217/829-4291

1.4 General Source Description

Pearl station is located at Highway 100 in Pearl. The source operates one coal-fired boiler and one peaking turbine.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

acfm	actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
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
dcfm	dry cubic feet per minute
EGU	Electrical Generating Unit(s)
Gal	Gallon
ESP	Electrostatic Precipitator
°F	degrees Fahrenheit
FGC	Flue Gas Conditioning
FGR	Flue Gas Recirculation
ft	foot
ft ³	cubic foot
HAP	Hazardous Air Pollutant
HP	horsepower
Hr or hr	Hour
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
°K	degrees Kelvin
Kg	kilogram
kW	Kilowatts
Lb or lb	Pound
LNB	Low NO _x Burners
m	meter
MACT	Maximum Achievable Control Technology
mmBtu	million British thermal units
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards (40 CFR Part 60)
NSSA	New Source Set-Aside
ORIS	Office of Regulatory Information System
OFA	Over-Fire Air
OM	organic material
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
ppm	parts per million

PSD	Prevention of Significant Deterioration (40 CFR 52.21)
psia	pounds per square inch absolute
RMP	Risk Management Plan
SO ₂	Sulfur Dioxide
T	ton (2000 pounds)
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
VOC or VOM	volatile organic compounds or volatile organic material
VOL	volatile organic liquid
Yr or yr	year

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:

None

- 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)].

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)].

- 3.1.4 Activities that are considered insignificant activities pursuant to 35 IAC 201.210(b).

Note: The heating of the coal-fired boiler with auxiliary fuel during maintenance and repair of the boiler is considered an insignificant activity under 35 IAC 201.210(b)(29) and is generally not addressed by the unit-specific conditions of this permit for boiler.

Notwithstanding such status as an insignificant activity, the opacity of the exhaust from a boiler is at all times subject to 35 IAC 212.123 (Condition 5.2(b) and 7.1.4(a)) and the unit-specific conditions of this permit for boiler

that relate to opacity are applicable during maintenance and repair of a boiler.

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 5.2.2), the Permittee shall comply with the following requirements, as applicable:

- 3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182.
- 3.2.2 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. 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.
- 3.2.3 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 do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

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	Emission Control Equipment
Boiler B1	Foster Wheeler Boiler Nominal 278 mmBtu/hr (1967)	Multiclone and Wet Scrubber
Coal Handling Equipment	Coal Receiving Operations, Coal Crushing House, Coal Storage Operations	Enclosure, Covers, and Dust Suppressant Application System
Crusher House	Coal Crushing Operation	Enclosures and Covers
Coal Mill A	Coal Crushing Operation	Enclosures and Covers
Coal Mill B	Coal Crushing Operation	Enclosures and Covers
Fly Ash Equipment	Conveyor System, Silo, and Loadout Operation	Enclosures and Dust Collection Devices
Lime Handling Equipment	Transfer System and Storage Silo	Enclosure and Filter
Turbine CT-1	Distillate Oil Fired Turbine Nominal 273 mmBtu/hr	None

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

- 5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of SO₂, CO, NO_x, and HAP emissions.

5.2 Applicable Regulations

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

- 5.2.2 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.

Compliance with this requirement shall be based on the procedures in Section 7 (Unit Specific Conditions) of this permit.

- b. No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, pursuant to 35 IAC 212.123(a), except as allowed by 35 IAC 212.123(b) and 212.124.

5.2.3 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.

5.2.4 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal rules for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit:

- 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 applicable 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.

Note: This condition is imposed pursuant to 40 CFR 68.215(a).

5.2.5 Future Emission Standards

- a. Should this source become subject to a regulation under 40 CFR Parts 60, 61, 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 or otherwise demonstrate initial compliance as provided by such regulation. Following the submittal of such a compliance certification or initial compliance demonstration, the Permittee shall address with the applicable requirements of such regulation as part of the annual compliance certification required by Condition 9.8.

Note: This permit may also have to be revised or reopened to address such new regulations. (See Condition 9.12.2.)

- b. No later than upon the submittal for renewal of this permit, the owner or operator shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC Subtitle B that were promulgated after the date issued of this permit.

5.2.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.142, 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.

- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If an operational change occurs at the source that 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.

5.2.7 Compliance Assurance Monitoring (CAM) Plan

Pursuant to 40 CFR 64.5, if the Permittee submits a request for a significant revision of this permit that is applicable to an affected large pollutant-specific emissions unit, as defined by 40 CFR 64.1, 64.2 and 64.5(a), (e.g., a coal-fired boiler as it emits particulate matter), the Permittee shall submit as part of such application the information required under 40 CFR 64.4 for a CAM plan.

Note: As provided by 40 CFR 64.5(a)(1), the Permittee was not required to submit CAM plans for affected large pollutant-specific emissions units with the application for this permit because a complete CAAPP application was submitted before April 20, 1998. For all pollutant-specific emissions units that meet the criteria in 40 CFR 64.42(a), so as to be subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, the source must submit the information required under 40 CFR 64.4 as part of the application for renewal of this permit.

5.3 General Non-Applicability of Regulations of Concern

None

Note: For individual emissions units or groups of similar emission units, non-applicability of regulations is addressed in Section 7 of this permit.

5.4 Source-Wide Operational and Production Limits and Work Practices

In addition to the source-wide requirements in the Standard Permit Conditions in Section 9, the Permittee shall fulfill the following source-wide operational and production limitations and/or work practice requirements:

None

5.5 Source-Wide Emission Limitations

5.5.1 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 5.5.1) are set for the purpose of establishing fees and are not federally enforceable.

Permitted Emissions of Regulated Pollutants

Pollutant	Tons/Year
Volatile Organic Material (VOM)	4.40
Sulfur Dioxide (SO ₂)	8316.34
Particulate Matter (PM)	152.14
Nitrogen Oxides (NO _x)	1344.82
HAP, not included in VOM or PM	78.6
TOTAL	9896.3

5.5.2 Emissions of Hazardous Air Pollutants (HAPs)

Source-wide emission limitations for HAPs as listed in Section 112(b) of the CAA are not set. This source is considered to be a major source of HAPs.

5.5.3 Other Source-Wide Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to either the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, state rules for Major Stationary Sources Construction and Modification, 35 IAC Part 203, 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.

5.6 General Recordkeeping Requirements

5.6.1 Records for Emissions

The Permittee shall maintain records for the source to prepare its Annual Emission Report including the following items, pursuant to Section 39.5(7)(b) of the Act:

- a. Records of annual emissions from the emission units that are covered by Section 7 (Unit Specific Conditions) of this permit, including emissions of mercury, hydrogen chloride, and hydrogen fluoride.
- b. i. For purposes of estimating mercury emissions from the source, the mercury content of coal burned in boiler shall be based on the data collected by USEPA in its Information Collection Request (ICR) pursuant to Section 112 of the Clean Air Act.

- ii. If such data above is not available for a coal that is burned in a boiler, the Permittee shall collect representative data on the elemental composition of the coal, including mercury, similar to the ICR data collected by USEPA.

5.6.2 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.
- c. Upon written request by the Illinois EPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the Illinois EPA. For this purpose, material shall be submitted to the Illinois EPA within 30 days unless additional time is provided by the Illinois EPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 9.12.4.)
- d. For certain records required to be kept by this permit as specifically identified in the recordkeeping provisions in Section 7 of this permit, which records are a basis for control practices or other recordkeeping required by this permit, the Permittee shall promptly submit a copy of the record to the Illinois EPA when the record is created or revised. For this purpose, the initial record shall be submitted within 30 days of the issuance of this permit. Subsequent revisions shall be submitted within 10 days of the date the Permittee begins to rely upon the revised record.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA of deviations of the source with the permit requirements as follows, pursuant to Section 39.5(7)(f)(iii) of the Act.

Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

- i. For emissions units that are addressed by the unit-specific conditions of this permit, the timing for reporting of deviations shall be in accordance with such conditions.
- ii. A. For other emissions units and activities at the source, the timing for reporting of deviations shall be in accordance with the provisions of relevant regulations if such provisions address timing of deviation reports.
B. Otherwise, if the relevant regulations do not address timing of deviation reports, deviation reports shall be submitted within 30 days.

5.7.2 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year including information for emissions of mercury, hydrogen chloride, hydrogen fluoride, and other hazardous air pollutants, as specified by 35 IAC Part 254 (see also Condition 9.7).

5.8 General Operational Flexibility/Anticipated Operating Scenarios

None

Note: For individual emissions units or groups of similar emission units, operation flexibility and anticipated operating scenarios are addressed in Section 7 of this permit.

5.9 General Compliance Procedures

5.9.1 General Procedures for Calculating Emissions

Compliance with the source-wide emission limits specified in Condition 5.5 shall be based on the recordkeeping and reporting requirements of Conditions 5.6 and 5.7, and Compliance Procedures in Section 7 (Unit Specific Conditions) of this permit.

6.0 PROVISIONS FOR EMISSION TRADING PROGRAMS

This permit is issued based on the following market-based emission control programs, which provide for allocation and trading of emission allowances and trading units, not being applicable to this source because of its location and the age and size of the coal-fired boiler at the source:

The Acid Rain Control Program, pursuant to Title IV of the Clean Act, because although the coal boiler at the source is a utility unit, the boiler commenced commercial operation before November 15, 1990 and did not, as of November 15, 1990, and does not currently, serve an electrical generator with a nameplate capacity of greater than 25 MWe, as provided by 40 CFR 72.6(b)(2).

The Emissions Reduction Market System (ERMS), pursuant to 35 IAC Part 205, because the source is located outside of the Chicago ozone nonattainment area where the ERMS is applicable, as provided by 35 IAC 202.200.

The NOx Trading Program for Electrical Generating Units, pursuant to 35 IAC Part 217, Subpart W, because although the coal boiler at the source is an electrical generating unit, the boiler does not currently serve an electrical generator with a nameplate capacity of greater than 25 MWe, as provided by 35 IAC 217.454 and 217.754.

7.0 UNIT SPECIFIC CONDITIONS

7.1 Coal Fired Boiler

7.1.1 Description

The Permittee operates a coal-fired boiler for electric power generation. The boiler, which was built in 1976, has a nominal capacity of 278 mmBtu/hour. In addition to coal, this boiler fires distillate fuel oil during startup and for flame stabilization. Particulate matter (PM) emissions from the boiler are controlled by a multiclone followed by a wet scrubber. Because of this wet scrubber, opacity monitoring is not considered practical for the boiler.

7.1.2 List of Emission Units and Air Pollution Control Equipment

These unit-specific conditions address the following emission units:

Boiler ID	Description	Emission Control Equipment
Boiler B1	Foster Wheeler Boiler Nominal 278 mmBtu/hr (1967)	Multiclone and Wet Scrubber

7.1.3 Applicability Provisions

a. An "affected boiler" for the purpose of these unit-specific conditions is the boiler described in Conditions 7.1.1 and 7.1.2.

b. Startup Provisions

The Permittee is authorized to operate the affected boiler in violation of the applicable standards in Condition 7.1.4(a) (35 IAC 212.123), Condition 7.1.4(b) (35 IAC 212.202), and Condition 7.1.4(d) (35 IAC 216.121), during startup subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262, as the Permittee "... has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual startups and frequency of startups."

i. This authorization only extends for a period of up to 24 hours following initial firing of fuel for each startup event. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.

ii. The Permittee shall conduct startup of the affected boiler in accordance with written

procedures prepared by the Permittee and maintained on site, that are specifically developed to minimize excess emissions from startups and that include, at a minimum, the following measures:

- A. Review of the operational condition of the boiler prior to initiating startup of the boiler.
- B. Use of oil burners to heat the boiler prior to initiating burning of coal.
- C. Review of the operating parameters of boiler during each startup to make appropriate adjustments to the startup to reduce or eliminate excess emissions.
- D. Appropriate inspection of ash hopper system to ensure the proper operation of the multiclones to minimize emissions without damage or risk to personnel or equipment.

iii. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.1.9(c) and (e).

c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of the affected boiler in violation of the applicable requirements of Condition 7.1.4(a) (35 IAC 212.123), Condition 7.1.4(b) (35 IAC 212.202), and Condition 7.1.4(d) (35 IAC 216.121), in the event of a malfunction or breakdown of the affected boiler, including the associated control equipment (multiclone and wet scrubber) and support systems (coal bunkers, coal pulverizers, ash removal and handling system, etc.), subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted "... proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment." This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.

i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima

facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.

- ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable reduce boiler load, repair the affected boiler, or remove the affected boiler from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24 hours* or noon of the Illinois EPA's next business day*, whichever is later. The Permittee may obtain an extension for up to a total of 72 hours* from the Illinois EPA, Air Regional Office. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that extraordinary circumstances exist and the affected boiler can not reasonably be repaired or removed from service within the allowed time, it will repair the affected boiler or remove the boiler from service as soon as practicable; and it is taking all reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.

* For this purpose and other related provisions, time shall be measured from the start of a particular incident. The absence of excess emissions for a short period shall not be considered to end the incident if excess emissions resume. In such circumstances, the incident shall be considered to continue until corrective actions are taken so that excess emissions cease or the Permittee takes the boiler out of service.

- iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.1.9(c) and (e), 7.1.10-2(a) and 7.1.10-3(a).
- iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.1.4 Applicable Emission Standards

- a. The affected boiler shall comply with the standard in Condition 5.2.2(b) [35 IAC 212.123], which addresses the opacity of the emission of smoke or other particulate matter from the affected boiler. Compliance with this standard shall be determined in

accordance with USEPA Reference Method 9, as provided by 35 IAC 212.109.

- b. The emissions of PM from the affected boiler shall not exceed 0.10 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.202.
- c. The emission of SO₂ from the affected boiler shall not exceed 6.8 lb/mmBtu of actual heat input, pursuant to 35 IAC 214.142.
- d. The affected boiler is subject to 35 IAC 216.121 which provides that no person shall cause or allow the emission of CO into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

7.1.5 Non-Applicability of Regulations of Concern

- a. i. The Permittee is shielded from the PM and SO₂ rules for combination of fuels, 35 IAC 212.207 and 35 IAC.214.162, for the affected boiler when the boiler is using solid fuel (coal) as its principal fuel. This is because incidental use of other fuels generally serves as a good combustion practice for firing of solid fuel and does not provide a decrease in emissions that can be used to reduce the emission rate that must be achieved for the emissions associated with combustion of solid fuel.
- ii. If the affected boiler is not using solid fuel (coal) as its principal fuel, the affected boiler shall comply with the requirements of the following conditions. During such periods, for PM, Condition 7.1.5(a) (ii) (A), below shall substitute for Condition 7.1.4(b). For SO₂, Condition 7.1.5(a) (ii) (B), below, shall supplement Condition 7.1.4(c):
 - A. The emissions of PM from the affected boiler in any one hour period shall not exceed the amount, in lb/hr, allowed by the formula in 35 IAC 212.207. For this purpose, the applicable PM standard for heat input from liquid fuel and natural gas shall be 0.1 and 0.0 lb/mmBtu, respectively, pursuant to 35 IAC 212.206 and 212.207.
 - B. The emissions of SO₂ from the affected boiler in any one hour period shall not exceed the amount, in lb/hr, allowed by the formula in 35 IAC 214.162. For this purpose, the applicable SO₂ standards for heat input from residual fuel oil,

distillate fuel oil, and natural gas shall be 1.0, 0.3 and 0.0 lb/mmBtu, respectively, pursuant to 35 IAC 214.161(a), 214.161(b), and 214.162.

- iii. For the purpose of the above conditions, the affected boiler shall be considered to be using solid fuel (coal) as its principal fuel if the use of natural gas and/or fuel oil is incidental to the use of coal, occurring for specific purposes associated with routine firing of solid fuel, such as startup, opacity reduction emission mitigation, flame stabilization, outage of a coal pulverizer, or other temporary interruption in solid fuel supply. A boiler shall not be considered to be using solid fuel as its principal fuel if the use of natural gas and/or fuel oil is more than incidental to the firing of coal in the boiler or the use of coal is incidental to the operation of the boiler.
- iv. The Permittee shall notify the Illinois EPA if the status of the affected boiler changes to or from using solid fuel (coal) as its principal fuel. This notification shall be provided at least 7 days in advance of such change in status unless the change results from a sudden event that precludes such advance notification, in which case notification shall be provided as soon as practicable prior to the change.
- b. This permit is issued based on the affected boiler is not being subject to the requirements of the NO_x Trading Programs, 35 IAC Part 217, Subpart W, because the generator associated with the affected boiler has a nameplate capacity of less than 25 MWe.
- c. This permit is issued based on the affected boiler not being subject to the requirements of the Acid Rain Program because the affected boiler commenced commercial operation before November 15, 1990 and did not, as of November 15, 1990, and does not currently, serve a generator with a nameplate capacity of greater than 25 MWe, as provided by 40 CFR 72.6(b) (2).

7.1.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. The Permittee shall perform detailed inspections of the multiclones and wet scrubber at least every 15 months while the affected boiler is out of service, with an initial inspection performed before any maintenance and repair activities are conducted during the period the boiler is out of service and a follow-up inspection performed after any such activities are completed [Section 39.5(7) (a) of the Act].

7.1.7 Testing Requirements

- a. Pursuant to Section 39.5(7)(d)(ii) of the Act, the Permittee shall have the PM, CO and SO₂ emissions of the affected boiler measured by an approved testing service as specified below:
 - i.
 - A. PM emission measurements shall be made prior to July 31, 2006. (To satisfy the requirement, the measurements must be made after December 31, 2003)
 - B. PM emission measurements shall be made within 90 days of operating the affected boiler for more than 24 hours total in a calendar quarter at a load* that is more than 5 percent higher than the greatest load on the boiler, during the most recent set of PM tests on the affected boiler in which compliance is shown (refer to Condition 7.1.7(e)(iii)(D)), provided, however, that, the Illinois EPA may upon request of the Permittee provide more time for testing (if such time is reasonably needed to schedule and perform testing or coordinate testing with seasonal conditions) or waive this requirement for further testing (if other information, e.g., the margin of compliance shown by previous testing, indicates compliance at such higher load).
 - * For this purpose, load shall be expressed in terms of either gross megawatt output or steam flow, consistent with the form of the records kept by the Permittee pursuant to Condition 7.1.9(a).
 - C. Periodic PM emission measurements shall be made for the affected boiler within a time period determined from the compliance margin for the applicable PM emission standard, based on the results of the preceding PM measurement, as follows. For this purpose, the compliance margin is the extent to which the actual PM emissions as measured are lower than the applicable PM limit. For example, if the measured PM emissions of the affected boiler are 0.075 lb/mmBtu, the compliance margin for the applicable PM limit, 0.10 lb/mmBtu, would be 25 percent. ($0.100 - 0.075 = 0.025$, $0.025 / 0.100 = 0.25$ or 25 percent)

- I. If the compliance margin is less than 15 percent, within 18 months of the previous measurement.
 - II. If the compliance margin is between 15 and 30 percent, within 30 months of the previous measurement.
 - III. If the compliance margin is greater than 30percent, within 42 months of the previous measurement.
- D. Measurements of CO emissions shall be made:
- I. In conjunction with the initial measurement of PM emissions as required by Condition 7.1.7(a) (i) (A).
 - II. In conjunction with each subsequent measurement of PM emissions made pursuant to Condition 7.1.7(a) (i) (B) or (C).
- E.
- I. If standard fuel (i.e., coal, fuel oil, and gas) is less than 97.0 percent by weight of the fuel supply to a boiler during a quarter, the Permittee shall have measurements of PM and CO emissions from the boiler made during the next quarter while firing alternative fuel or process waste in the boiler.
 - II. The Permittee shall conduct such measurements while firing the boiler with 1.25 times the greatest percentage of alternative fuel material or process waste that it would normally fire in the boiler. If the boiler has been firing a mix of alternative fuel materials or process wastes, the mix of fuel during such measurements shall be approved by the Illinois EPA.
 - III. The Permittee shall repeat such measurements if the percentage of alternative fuel materials and process wastes burned in a boiler during a quarter is more than the percentage of such material in the fuel supply to the boiler when previous emission measurements were conducted.

- F. Measurements of PM, CO and SO₂ emissions shall be made within 90 days (or such later date set by the Illinois EPA) following a reasonable request by the Illinois EPA for such measurements.
- ii. A. These measurements shall be performed at the maximum operating load of the affected boiler and other operating conditions that are representative of normal operation. In addition, the Permittee may perform measurements at other operating conditions to evaluate variation in emissions.
- B. Measurements shall be taken at an appropriate location in the ductwork or stack associated with the affected boiler.
- C. The following test methods and procedures shall be used for these measurements. Refer to 40 CFR 60, Appendix A for USEPA Methods.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Particulate Matter (PM)	USEPA Method 5/202*
Sulfur Dioxide (SO ₂)	USEPA Method 6
Carbon Monoxide (CO)	USEPA Method 10
Other test methods adopted by USEPA may be used in place of the above methods with the approval of the Illinois EPA	

* Measurement of condensable PM is also required by USEPA Method 202 (40 CFR Part 51, Appendix M) or other established test method approved by the Illinois EPA, except for a test conducted prior to issuance of this permit.

- iii. Except for minor deviations in test methods, as defined by 35 IAC 283.130, emission testing shall be conducted in accordance with a test plan prepared by the Permittee and submitted to the Illinois EPA for review prior to emission testing, and the conditions, if any, imposed by the Illinois EPA as part of its review and approval of the test plan, pursuant to 35 IAC 283.220 and 283.230.
- A. The Permittee shall submit this test plan at least 60 days prior to the actual date of testing and the test plan shall include the information specified by Condition 8.6.2.

- B. Notwithstanding the above, as provided by 35 IAC 283.220(d), the Permittee need not submit a test plan for emission testing that will be conducted in accordance with the procedures used for previous tests accepted by the Illinois EPA or the previous test plan submitted to and approved by the Illinois EPA, provided that the Permittee's notification for testing, as required below, contains the information specified by 35 IAC 283.220(d)(1)(A), (B) and (C).

- iv. The Permittee shall notify the Illinois EPA prior to conducting emission tests to enable the Illinois EPA to observe testing. Notification for the expected test date shall be submitted a minimum of 30 days prior to the expected date of testing. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual test date. The Illinois EPA may on a case-by case basis accept shorter advance notice if it would not interfere with the Illinois EPA's ability to observe testing.

- v. The Permittee shall submit the Final Report(s) for any required emission testing to the Illinois EPA within 45 days after the tests results are compiled and finalized but no later than 120 days after the date of testing. The Final Report shall include the information specified in Condition 8.6.3 and the following information:
 - A. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - B. A description of any minor deviations from the test plan, as provided by 35 IAC 283.230(a).
 - C. Detailed description of operating conditions during testing, including:
 - I. Source(s) of fuel and specifications (ash, sulfur and heat content).
 - II. Boiler information, i.e., firing rate of the affected boiler(s) (mmBtu/hr), composition of fuel as burned (ash, sulfur and heat content), and fuel blending ratio (percent), if a blend of fuels is burned.

- vi. 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.
- vii. 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 and nature of the steam plume.
 - E. Operating data for the boiler and the associated wet scrubber during the period of observations.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.

7.1.8 Monitoring Requirements

- a. Pursuant to the provisions for alternative monitoring at 35 IAC 201.402, the Permittee shall install, operate, calibrate and maintain devices to measure the water flow and pressure drop of the wet scrubber for the affected boiler, which shall be used to address compliance with the PM limit in Condition 7.1.4(b).
 - i. The Permittee shall operate these devices in accordance with good practice for continuous measurements, including operation in accordance with written monitoring procedures.
 - ii. The Permittee shall keep records for the operation of these devices. (See also Condition 7.1.9(c).)
- b.
 - i. If the specifications for the sulfur content of the coal supply to the boiler provide for no more than 2.7 lb/mmBtu (80 percent of the allowable limit in Condition 7.1.4(c)), the Permittee shall sample and analyze the coal supply for sulfur and heat content on at least a monthly basis, in accordance with 35 IAC 214.101(e).
 - ii. If the specifications for the sulfur content of the coal supply to the boiler provide for more

than 2.7 lb/mmBtu, the Permittee shall sample and analyze the coal supply for sulfur and heat content on at least a weekly basis until the Permittee demonstrates compliance with a 99 percent confidence level. At such time, the frequency for sampling and analysis may revert to monthly, as provided by Condition 7.1.8(b)(i).

7.1.9 Recordkeeping Requirements

a. Records for Boiler Operation

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following operating records for the affected boiler:

- i. Load (in terms of either gross megawatts output or steam flow) on an hourly basis for the affected boiler.
- ii.
 - A. Records for each day when a fuel material other than coal or oil was burned, including the estimated amount of each such material burned.
 - B. Records of agreements with suppliers of alternative fuels, including origin of material, specifications for heat and ash content, and representative data for elemental composition of such material, including mercury and other heavy metals, chlorine and fluorine.
 - C. Records for each load of such material received at the source, which at a minimum shall include date, supplier name, type of material and amount (tons).
- iii. Total operating hours (hours/quarter).
- iv. Amount of coal consumed (tons/quarter).
- v. Amount of each other fuel material consumed (tons, gallons, cubic feet per quarter, as appropriate).

b. Records for Control Device(s)

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain the following records for control equipment on the affected boiler:

- i. Multiclones
 - A. Manufacturer/vendor or source developed operating and maintenance procedures.

- B. Operating log.
 - C. Maintenance and repair log(s) for the multiclones, including the ash hoppers and ash removal system.
- ii. Wet Scrubber
- A. Manufacturer/vendor or source developed operating and maintenance procedures.
 - B. Operating log, including changes to the setting(s) for the operating parameters of the scrubber
 - C. Maintenance and repair log(s).
- iii. For the inspections of the multiclones and wet scrubber required by Condition 7.1.6(a):
- A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the equipment.
 - C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
 - D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.
- c. Records for Operational Monitoring Systems

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records related to the monitoring systems required by Condition 7.1.8(a) that as a minimum shall include:

- i. Operating records for each monitoring system, including:
 - A. Performance evaluations and other quality assurance/control activities.
 - B. Calibration checks.

- C. Maintenance and adjustment performed.
 - D. Periods other than performance of quality assurance, calibration, and maintenance, as addressed above, when the device was inoperative, with reason.
 - E. Quarterly reports submitted in accordance with Condition 7.1.10-2(a).
- ii. Records for the affected boiler that identify the normal range of the operating parameters monitored for the wet scrubber, considering an hour of operation, within which compliance with Condition 7.1.4(b) is assured, with supporting explanation and documentation, including results of historic emission tests. At a minimum, these records shall be reviewed and revised as necessary following performance of each subsequent PM emission test on the affected boiler. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
 - iii. When the affected boiler is in operation, the data measured by each monitoring system, which shall be recorded:
 - A. At least every 10 minutes if the measured value of the parameter is within 20 percent of or outside of the boundary of the normal range for the parameter specified pursuant to Condition 7.1.9(c) (iii).
 - B. At least every two hours when the measured value of the parameter is 20 percent or more away from the boundary of the normal range for the parameter specified pursuant to Condition 7.1.9(c) (iii).
 - iv. Records to address compliance with Condition 7.1.4(b), that identify each hour when the affected boiler operated with the monitored value(s) of the operating parameter(s) of the scrubber outside of the normal range, as specified above in Condition 7.1.9(c) (ii), with date, time, operating condition if startup, malfunction, breakdown, or shutdown, further explanation of the incident, and whether PM emissions may have exceeded the limit of Condition 7.1.4(b), with detailed explanation.
- d. Records Related to SO₂ Emissions

The Permittee shall maintain the following records related to the SO₂ emissions of the affected boiler, pursuant to Section 39.5(7) of the Act

- i. The Permittee shall maintain records for the sampling and analysis of solid fuel for the boiler required by Condition 7.1.8(b) and any other sampling and analyses of the fuel supply that it conducts
- ii. Records identifying any period of time when the sulfur content for the solid fuel (coal) supply burned in the affected boiler was above the level necessary for the affected boiler to comply with Condition 7.1.4(c), with supporting documentation, calculations, and explanation.

e. Records for Startups

Pursuant to the Act, the Permittee shall maintain records, related to startup of the affected boiler that at a minimum shall include the following:

- i. Records of the source's established startup procedures for the affected boiler (as summarized in the CAAPP application).
- ii. Records for each startup of the affected boiler:
 - A. Date and description of startup, e.g., startup following scheduled maintenance outage.
 - B. Duration of the startup, from initial firing of fuel to achievement of normal operation, i.e., stable operation firing the principal fuel with control equipment operating to enable compliance.
 - C. If normal operation is not achieved within 16 hours or if established startup procedures are not followed:
 - I. A detailed explanation why startup could not be completed sooner or established procedures could not be followed.
 - II. Documentation for the established startup procedures that were followed.
 - III. The time at which solid fuel (coal) firing was begun.

IV. Estimates of magnitude of PM emitted in excess of the applicable PM standard during startup.

f. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to Section 39.5(7) (a) of the Act and 35 IAC 201.263, the Permittee shall maintain records for each incident when operation of the affected boiler continued with monitored operating parameter(s) of the wet scrubber outside the normal range, as specified pursuant to Condition 7.1.9(c) (ii) or with excess emissions or opacity, including malfunction or breakdown as provided by Condition 7.1.3(c), that include the following information:

- i. Date and duration of the incident.
- ii. A description of the incident.
- iii. A summary of the monitored operating data for the wet scrubber during the incident.
- iv. Whether an exceedance of Condition 7.1.4(b) may have occurred and if the exceedance was identified by a means other than the operating data for the wet scrubber, an explanation of the means by which the exceedance was identified, with a copy of other relevant data and information.
- iv. The corrective actions used to reestablish the normal operation of the scrubber, and reduce the quantity of emissions and duration of the incident.
- v. Confirmation of fulfillment of the requirements of Condition 7.1.10-3(a), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.1.10-3(a) (ii).
- vi. If PM emissions may have exceeded the applicable hourly standard (Condition 7.1.4(b) or opacity exceeded the applicable standard (Condition 7.1.4(a)) for two or more hours or:
 - A. A detailed explanation why continued operation of the affected boiler was necessary.
 - B. A detailed explanation of the cause for the incident.
 - C. The preventative measures that have been or will be taken to prevent similar malfunctions or breakdowns or reduce their

frequency and severity, including any repairs to the affected boiler and associated equipment and any changes to its operating and maintenance procedures.

- D. An estimate of the magnitude of excess emissions occurring during the incident.

g. Records for Opacity Measurements

The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected boiler that it conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.1.7(b), or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the affected operations, the observed opacity, and copies of the raw data sheets for the measurements.

7.1.10-1 Reporting Requirements - Reporting of Deviations

a. Prompt Reporting of Deviations

For the affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows, pursuant to Section 39.5(7)(f)(ii) of the Act:

- i. Notification and reporting as specified in Condition 7.1.10-3(a) for any deviation from Condition 7.1.4(b).
- ii. Notification and reporting as specified in Condition 7.1.10-3(a) for certain deviations from Condition 7.1.4(a).
- iii. Reporting as specified above in Conditions 7.1.10-2(b) and (c) for deviations from Condition 7.1.4(b) and (c).
- iv. Reporting with the quarterly reports required by Condition 7.1.10-2(a) for deviations not addressed above by Condition 7.1.10-1(a)(i), (ii) or (iii), including deviations from other applicable requirements, e.g., monitoring and recordkeeping requirements. For this purpose, the quarterly reports shall also include the following information for each incident if not already otherwise required: a description of the deviation, including whether it occurred during startup, malfunction, or breakdown, if applicable; a discussion of the probable cause

of the deviation; a description of the corrective actions taken; and a description of the preventative measures taken.

- b. The quarterly reports required by Condition 7.1.10-2(a) shall include the following information for the affected boiler related to deviations during the quarter:
 - i. A summary of deviations that have been previously reported to the Illinois EPA, as provided by Condition 7.1.10-3(a) (i), (ii) and (iii), including identification of each such report. For this purpose, the Permittee need not resubmit copies of the previous reports but may elect to supplement such material.
 - ii. Detailed information for other deviations, as specified by Condition 7.1.10-1(a) (iv).

7.1.10-2 Reporting Requirements - Periodic Reporting

a. Quarterly Operating Reports

In place of the semi-annual reports required by General Permit Condition 8.6.1, the Permittee shall submit quarterly operating report to the Illinois EPA pursuant to Section 39.5(7) (b) of the Act.

- i. These reports shall include the following information for operation of the affected boiler during the quarter:
 - A. The total operating hours for the affected boiler.
 - B. The greatest load achieved by the affected boiler (steam flow or gross megawatts).
 - C. A discussion of significant changes in the fuel supply to the affected boiler, if any, including changes in the source of coal, the introduction of new fuel materials other than coal, gas and oil, and changes in the source of such other fuel materials or the maximum rate at which they will be fired.
 - D. The number of startups for the affected boiler.
- ii. A. These report shall include the information for SO₂ and PM emissions from the affected boiler during the quarter and the operation of required continuous monitoring systems specified by Conditions 7.1.10-2(b) and (x).

- B. These reports shall include a summary of the records required by Condition 7.1.9(g) for any opacity measurements made during the quarter.
- iii. A. These reports shall be submitted promptly after the end of every calendar quarter as follows:

Monitoring Period	Submittal Deadline
January - March	May 15
April - June	August 15
July - September	November 15
October - December	February 15

- B. Notwithstanding the above, the first four quarterly reports required pursuant to this permit shall be submitted no later than 60 days after the end of each calendar quarter.

b. Reporting of SO₂ Emissions

Pursuant to Sections 39.5(7)(b) of the Act, the Permittee shall report the following information to the Illinois EPA with its quarterly operating reports pursuant to Condition 7.1.10-2(a):

- i. A summary of the sampling and analysis conducted pursuant to Condition 7.1.8(b), including the specification for sulfur content of the coal(s) burned during the quarter, in lb sulfur/mmBtu, the number of samples of coal(s) analyzed, and each incident in which required sampling or analysis was not conducted. When all required sampling and analysis was conducted, this shall be stated in the report.
- ii. The following information for each period when the sulfur content of the coal supply to the period was above the level necessary for SO₂ emissions to comply with the limit in Condition 7.2.4(c). When there were no such exceedances, this shall be stated in the report.
 - A. The starting date and time of the incident.
 - B. The duration of the incident.
 - C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.2.9(d)(ii).
 - D. A detailed explanation of the cause of the exceedance.

- E. A detailed explanation of corrective actions and actions taken to lessen the emissions.

c. Reporting Related to Opacity and PM Emissions

Pursuant to Sections 39.5(7)(b) and (f) of the Act, the Permittee shall report the following information for the affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.2.10-2(a):

- i. Summary information on the performance of the operational monitoring systems, as required for a "Summary Report" in accordance with 40 CFR 60.7(d). When operating parameters were not outside the normal range or the continuous operational monitoring system was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.
- ii. The operating status of the operational monitoring system, including the dates and times of any periods during which it was inoperative, if requested by the Illinois EPA or the monitoring system downtime was more than 5 percent of the total operating time for the affected boiler during the quarter.
- iii. The following information for each incident, when the affected boiler was operating, other than startup or shutdown, when an operating parameter was outside of the normal range, as specified in records pursuant to Condition 7.1.9(c).
 - A. The starting date and time of the incident.
 - B. The duration of the incident.
 - C. The values of all monitored operating parameters, hourly average, for each hour during the incident.
 - D. A detailed explanation of the cause of incident, if known, including whether it occurred during malfunction or breakdown.
 - E. A detailed explanation of corrective actions and actions taken to reestablish normal operation.
- iv. The following further information for each of the above incidents in which PM emissions were

or may have exceeded limit in Condition 7.1.4(b). If there were no such exceedances during the reporting period, the quarterly report shall so state.

- A. A summary of information for the period of exceedance that includes:
 - I. The starting date and time of the exceedance.
 - II. The duration of the exceedance.
 - III. The magnitude of the exceedance.
 - IV. The means by which the exceedance was indicated or identified.
 - VI. A detailed explanation of the cause of the exceedance, including whether the exceedance occurred during malfunction or breakdown.
 - VII. A detailed explanation of the corrective actions and actions taken to lessen the emissions.
- B. Identification of the previous reports for the incidents submitted to the Illinois EPA pursuant to Condition 7.1.10-3(a)(ii). For this purpose, the Permittee need not resubmit copies of such report but may elect to supplement such material.

7.1.10-3 Reporting Requirements - Notifications

- a. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263 and Section 39.5(7)(a) of the Act, the Permittee shall provide the following notifications and reports to the Illinois EPA, Compliance Section and Regional Office, concerning incidents when operation of the affected boiler continued with excess emissions, including continued operation during malfunction or breakdown with excess emissions as addressed by Condition 7.1.3(c). These requirements do not apply to such excess emissions, if any, that occur during startup or shutdown of the affected boiler.

- i. Unless the Permittee has begun the shutdown of the affected boiler by such time, the Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice or facsimile) as soon as possible during normal working hours for each incident in which either (1) the applicable PM

emission standard (Condition 7.1.4(b)) could be exceeded, (2) the operating parameter(s) of the scrubber have been outside the normal range for more than three hours, or (3) the opacity from the boiler has been determined to exceed 30 percent for more than six consecutive 6-minute averaging periods. (Otherwise, as related to opacity, if opacity during an incident only exceeds 30 percent for less than six 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a) and (c).)

- ii. Upon conclusion of each incident in which the applicable PM emission standard may have been exceeded or in which exceedances of the opacity standard are that is two hours or more in duration, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days that includes: a detailed description of the deviation and its cause(s); an explanation why continued operation of the affected boiler was necessary; the length of time during which operation continued under such conditions, until repairs were completed or the boiler was taken out of service; a description of the measures taken to minimize and correct deficiencies with chronology; and a description of the preventative measures that have been and are being taken.

7.1.11 Anticipated Operating Scenarios/Operating Flexibility

The Permittee is authorized to make the following operational changes with respect to the affected boiler without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements; to properly obtain a construction permit in a timely manner for any activity constituting construction or modification as defined in 35 IAC 201.102 or 40 CFR 52.21(a) (2); and to comply with other legal requirements that apply to such a change:

- a. Operation of additional air pollution control equipment, which is addressed by a separate construction permit.
- b. Firing of coal or a mix of coal from different suppliers.
- c. Firing of the following materials in conjunction with firing of standard fuels, provided that such materials can be accommodated with the existing fuel handling

system and the burners in the affected boiler, and that such materials do not make up more than 25 percent by weight of the fuel supply to the boiler on a quarterly basis:

- i. Other process wastes generated at the source in addition to used oil and boiler cleaning residue.
- ii. Alternative fuels that do not constitute waste and were not generated from municipal waste or hazardous waste, such as petroleum coke, tire derived fuel (as defined at Section 54.10b of the Act), clean lumber and wood waste (as defined at 40 CFR 60.2265), shredded polyethylene agricultural containers, and seed corn, provided that such materials are shipped to the source in homogeneous form prepared for use as fuel (e.g., a shipment of tire derived fuel).

Note: Other requirements unrelated to air pollution control may apply to firing of alternative fuels, such as Standards for Management of Used Oil, 35 IAC Pt 739.

7.1.12 Compliance Procedures

- a. Compliance with the opacity and PM emission limitations of Conditions 7.1.4(a) and (b) is addressed by the monitoring requirements of Condition 7.1.8(a) and the recordkeeping requirements of Conditions 7.1.9.
- b. Compliance with the SO₂ emission limit of Condition 7.1.4(c) is addressed by the solid fuel analysis in accordance with Condition 7.1.8(b) and the recordkeeping required by Condition 7.1.9(e). For this purpose, complete conversion of sulfur in fuel to SO₂ emissions shall be assumed, e.g., SO₂ emissions in lb/mmBtu are twice the sulfur content of the fuel supply, in lb/mmBtu.
- c. Compliance with the CO emission limitation of Conditions 7.1.4(d) is addressed by emission testing in accordance with Condition 7.1.7.

Note: Further compliance procedures are not set for CO by this permit as the emission factor in USEPA's *Compilation of Air Pollutant Emission Factors*, AP-42, for uncontrolled CO emissions from a coal boiler, indicates compliance with the applicable limit.

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

7.2 Coal Handling Equipment

7.2.1 Description

The Permittee transfers and stores coal in a series of operations, including truck unloading, various conveyor belts (with associated hoppers, diverters, and transfer points), storage piles (with stackers and feeders), and bunkers. These operations first handle coal, as supplied by the mine and then, after the crushers, coal that has been processed at the source by the coal processing equipment (See Section 7.3). Particulate matter (PM) emissions associated with these operations are controlled by various measures including the moisture content of the coal and enclosures and covers.

7.2.2 List of Emission Units and Air Pollution Control Equipment

Coal Receiving Operations

Truck Unloading
Coal Transfer Conveyors
Enclosure and Covers

Coal Crushing House

Coal Transfer Conveyors
Enclosure and Covers

Coal Storage Operations

Outdoor Storage Piles
Coal Transfer Conveyors
Coal Storage Bunkers
Enclosure and Covers

7.2.3 Applicability Provisions

- a. The "affected operations" for the purpose of these unit-specific conditions, are emission units that are used solely for the purpose of transferring coal or other solid fuel from one location to another or for storage of coal or other solid fuel, without changing the size of the fuel, e.g., by crushing or screening, as described in Conditions 7.2.1 and 7.2.2.

7.2.4 Applicable Emission Standards

- a. The affected operations shall comply with the standard in Condition 5.2.2(a), which generally addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, pursuant to 35 IAC 212.301.
- b. The affected operations shall comply with the standard in Condition 5.2.2(b), which generally addresses the opacity of the emission of smoke or other particulate matter from emission units, pursuant to 35 IAC 212.123.

7.2.5 Non-Applicability of Regulations of Concern

- a. The affected operations are not subject to 35 IAC 212.321 or 212.322 because of the disperse nature of the operations, as generally addressed by 35 IAC 212.323.

7.2.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. i. The Permittee shall implement and maintain control measures for the affected operations, such as enclosure, natural surface moisture, application of dust suppressant, and use of dust collection devices, that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission control requirements in Conditions 7.2.4 pursuant to Section 39.5(7) (a) of the Act.
- ii. The Permittee shall operate and maintain each affected operation with the control measures identified in Condition 7.2.9(b).

7.2.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the exhaust from the affected operations during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.
 - A. If stack or fugitive emissions are normally visible during the operation of any affected operation, as determined by USEPA Method 22, testing shall be conducted at least every 12 months. For this purpose, testing shall first be conducted within three months of the issuance of this permit.
 - B. If testing must be conducted for other emission units at the source, tested of affected operations shall also be conducted.
 - C. Upon written request by the Illinois EPA, such testing shall be conducted for specific affected operation(s) within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.

- 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. A. 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).
- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. 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.
- v. 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 condition, including recent weather.
 - E. Description of the operating conditions of the affected operations.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.

7.2.8 Inspection Requirements

- a. The Permittee shall perform inspections of the affected operations on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.2.6(a). These inspections shall be performed with personnel not directly involved in the day-to day operation of the affected operations and may be scheduled so that only a number of affected operations are reviewed during each inspection, provided however, that all affected operations shall be inspected at least once during

each calendar quarter, pursuant to Section 39.5(7) (a) of the Act.

- b. The Permittee shall perform detailed inspections of any dust collection equipment for the affected operations at least every 15 months while the processes are out of service, with an initial inspection performed before any maintenance and repair activities are conducted during the period the process is out of service and a follow-up inspection performed after any such activities are completed. [Section 39.5(7) (a) of the Act]

7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected operations, pursuant to Section 39.5(7) (b) of the Act:

- a. The Permittee shall keep a record, which shall be kept up to date, of the following:
 - i. Information related to any dust collection equipment associated with the affected operations, including the design control efficiency or performance specifications and maximum design particulate matter emissions, gr/dscf, with supporting documentation.
 - ii. The maximum operating capacity of each affected operation, (ton/hour), with supporting documentation.
- b. The Permittee shall maintain a record, which shall be kept up to date, of the control measures of the affected operations currently being implemented pursuant to Condition 7.2.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
- c. The Permittee shall maintain a record of the amount of coal and other solid fuels received at the source, by type of fuel (tons/month and tons/year).
- d. The Permittee shall maintain records of the following for the inspections required by Condition 7.2.8:
 - i. For inspections required by Condition 7.2.8(a):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the control measures for each affected operation, including the presence of any visible

emissions or visible accumulations of coal fines in the vicinity of the process.

- C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - D. A summary of compliance compared to the established control measures.
- ii. For the inspections required by Condition 7.2.8(b) for the dust collection equipment for affected operations:
- A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the equipment.
 - C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
 - D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.
- e. The Permittee shall maintain records of the following for each incident when any affected operation operated without the established control measures:
- i. The date of the incident and identification of the affected operations that were involved.
 - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that

were implemented, if any; and the magnitude of the PM emissions during the incident.

- iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
 - iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
 - v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.
 - vi. A discussion of the probable cause of the incident and any preventative measures taken.
 - vii. A discussion whether Condition 7.2.4(b) may have been violated during the incident, with supporting explanation as needed.
- f. The Permittee shall keep a maintenance and repair log for each item of air pollution control equipment, i.e., each dust suppressant application system and each dust collection device, associated with affected operations. This log shall list the date and nature of maintenance and repair activities performed on the item of equipment. (See also Condition 9.6.1, Control Equipment Maintenance Records.)
 - g. The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected operations that it conducts or that are conducted on its behalf by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.2.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the affected operations, the observed opacity, and copies of the raw data sheets for the measurements.

7.2.10 Reporting Requirements

a. Reporting of Deviations

For the affected operations, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

- i. The Permittee shall provide the following notifications and reports to the Illinois EPA concerning incidents when operation of continued with excess emissions, including continued operation during malfunction or breakdown of equipment.
 - A. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected operation exceeds or may have exceeded 30 percent for more than six consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for less than five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a)).
 - B. Upon conclusion of each such incident for which notification is required, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation of an affected operation 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 operation was taken out of service.
- ii. Notification within 30 days for operation of an affected operation that did not fulfill the applicable requirements in Conditions 7.2.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of

the records for the incident required by Condition 7.2.9(e).

- iii. A. Notification with the quarterly reports required by Condition 7.1.10-2(a) for other deviations not addressed by Conditions 7.2.10(a)(i) and (ii), including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
- B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports for such deviations.

7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected operations without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7)(a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for an activity for which a permit is required pursuant to 35 IAC 201.142.

- a. Handling of solid fuels other than coal.
- b. Operation of additional dust suppressant systems.
- c. Operation of additional dust collection equipment.
- d. Operation of replacement dust suppression systems or dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced, as recognized in a Construction Permit for such system or equipment.

7.2.12 Compliance Procedures

- a. Compliance with Conditions 7.2.4(a) and (b) is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.2.6(a), 7.2.7(a), 7.2.8, and 7.2.9, respectively.

- b. Compliance with Condition 7.2.6(a) is addressed by the testing, inspection, and recordkeeping required by Conditions 7.2.7, 7.2.8, and 7.2.9, respectively.

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

7.3 Coal Processing Equipment

7.3.1 Description

The Permittee prepares or processes coal for use as fuel in its boiler with crushers that reduce the size of the coal. Associated particulate matter (PM) emissions are controlled by various control measures including moisture content of the coal, and enclosures and covers.

7.3.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Crusher House	Coal Crushing Operation	Enclosures and Covers
Coal Mill A	Coal Crushing Operation	Enclosures and Covers
Coal Mill B	Coal Crushing Operation	Enclosures and Covers

7.3.3 Applicability Provisions

- a. An "affected process" for the purpose of these unit-specific conditions, is an individual process emission unit that prepares coal for use as a fuel by crushing the coal as described in Conditions 7.3.1 and 7.3.2.

7.3.4 Applicable Emission Standards

- a. The affected processes shall comply with the standard in Condition 5.2.2(a), which generally addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, pursuant to 35 IAC 212.301.
- b. The affected processes shall comply with the standard in Condition 5.2.2(b), which generally addresses the opacity of the emission of smoke or other particulate matter from emission units, pursuant to 35 IAC 212.123.

- c. The affected processes shall comply with 35 IAC 212.322(a), which provides that:

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 at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.322(c) [35 IAC 212.322(a)]. (See also Attachment 2)

7.3.5 Non-Applicability of Regulations of Concern

None

7.3.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. i. The Permittee shall implement and maintain control measures for the affected processes, such as enclosure, natural surface moisture, application of dust suppressant, and use of dust collection devices, that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission standards in Conditions 7.3.4 pursuant to Section 39.5(7) (a) of the Act.
- ii. The Permittee shall operate and maintain each affected process with the control measures identified in Condition 7.3.9(b) (i).

7.3.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the exhaust from the affected processes during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.
 - A. If stack or fugitive emissions are normally visible during the operation of any affected process, as determined by USEPA Method 22, testing for the affected processes shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the issuance of this permit.
 - B. If testing must be conducted for other emission units at the source, tested of the affected processes shall also be conducted.
 - C. Upon written request by the Illinois EPA, such testing shall be conducted for specific affected process(es) within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- 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. A. 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).

- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. 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.
- v. 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 condition, including recent weather.
 - E. Description of the operating conditions of the affected processes.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.
- b.
 - i. The Permittee shall have the particulate matter emissions at the stacks or vents of affected process(es) during representative operating conditions measured by a qualified testing service within 90 days of a written request from the Illinois EPA, as specified by such request, pursuant to Section 39.5(7) (b) of the Act.
 - ii. Testing shall be conducted using USEPA Test Method 5, following timely submittal of a test protocol and notification of the date and time of testing to the Illinois EPA.
 - iii. A complete report for the test shall be promptly submitted to the Illinois EPA following testing.

7.3.8 Inspection Requirements

- a. The Permittee shall perform inspections of each affected process on at least a monthly basis, including associated control measures, to confirm compliance with the requirements of Condition

7.3.6(a). These inspections shall be performed with personnel not directly involved in the day-to day operation of the affected processes.

- b. The Permittee shall perform detailed inspections of the dust collection equipment for affected processes at least every nine months while the processes are out of service, with an initial inspection performed before any maintenance and repair activities are conducted during the period the process is out of service and a follow-up inspection performed after any such activities are completed [Section 39.5(7) (a) of the Act].

7.3.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected processes, pursuant to Section 39.5(7) (b) of the Act:

- a. The Permittee shall keep the following records:
 - i. The following information for the affected process, with supporting information, which shall be kept up to date:
 - A. Information related to the dust collection equipment associated with the affected processes, including the performance specifications for filter material and maximum design particulate matter emissions, gr/dscf.
 - B. The maximum operating capacity of each element of the affected process, (ton/hr).
 - ii. An operating log(s) for the affected process, which shall include information for any incident in which the operation of the process continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken.
 - iii. A maintenance and repair log for the process, including each item of air pollution control equipment, which lists the date and nature of maintenance and repair activities performed. (See also Condition 9.6.1, Control Equipment Maintenance Records.)
- b. i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures of the affected processes currently

being implemented pursuant to Condition 7.3.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit.

- ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.3.4(c) at the maximum process weight rate at which each affected process can be operated (tons coal/hour), with supporting emission calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee. Except as addressed by Condition 7.3.9(a) (i) or testing of an affected process is conducted in accordance with Condition 7.3.7(b), this demonstration shall developed using emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions published by USEPA.
 - iii. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
- c. The Permittee shall maintain records of the following for the inspections required by Condition 7.3.8:
- i. For inspections required by Condition 7.4.8(a):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the established control measures for the inspected area or operations.
 - C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - D. A summary of compliance compared to the established control measures.
 - ii. For inspections required by Condition 7.4.8(b):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.

- B. The observed condition of the equipment.
 - C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
 - D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.
- d. The Permittee shall maintain records of the following for each incident when any affected process operated without the established control measures:
- i. The date of the incident and identification of the affected process(es) that were involved.
 - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
 - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
 - iv. The length of time after the incident was identified that the affected process(es) continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
 - v. The estimated total duration of the incident, i.e., the total length of time that the affected process(es) ran without established control measures and the estimated amount of coal processed during the incident.

- vi. A discussion of the probable cause of the incident and any preventative measures taken.
- vii. A discussion whether Condition 7.3.4(b) may have been violated during the incident, with supporting explanation as needed.
- e. The Permittee shall keep a maintenance and repair log for each item of air pollution control equipment, i.e., each dust suppressant application system and each dust collection device, associated with affected process(es). This log shall list the date and nature of maintenance and repair activities performed on the item of equipment. (See also Condition 9.6.1, Control Equipment Maintenance Records.)
- f. The Permittee shall keep records for all opacity measurements for the affected processes that it makes in accordance with USEPA Method 9 or that are conducted on its behalf by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.3.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the affected process, the observed opacity, and copies of the raw data sheets for the measurements.

7.3.10 Reporting Requirements

a. Reporting of Deviations

For the affected processes, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

- i. The Permittee shall provide the following notifications and reports to the Illinois EPA concerning incidents when operation continued with excess emissions, including continued operation of an affected process during malfunction or breakdown of equipment.
 - A. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected process exceeds or may have exceeded 30 percent for more than six consecutive 6-minute averaging periods.

(Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for less than five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a)).

- B. Upon conclusion of each such incident for which notification is required, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected operation was taken out of service.
- ii. Notification within 30 days for operation of an affected process that was not in compliance with applicable requirements in Conditions 7.3.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.3.9(e).
 - iii. A. Notification with the quarterly reports required by Condition 7.1.10-2(a) for other deviations not addressed by Conditions 7.4.10(a)(i) and (ii), including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
 - B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports for such deviations.

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

processes without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or 35 IAC 203.207, as applicable, or for an activity for which a permit is required pursuant to 35 IAC 201.142.

- a. Handling of solid fuels other than coal.
- b. Operation of additional dust suppressant systems.
- c. Operation of additional dust collection equipment.
- d. Operation of replacement dust suppression systems or dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced as recognized in a Construction Permit for such system or equipment.

7.3.12 Compliance Procedures

- a. Compliance with Conditions 7.3.4 is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.3.6(a), 7.3.7(a), 7.3.8, and 7.3.9, respectively.
- b. Compliance with Condition 7.3.6(a) is addressed by testing, inspection, and recordkeeping required by Conditions 7.3.7, 7.3.8, and 7.3.9, respectively.

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

7.4 Fly Ash Equipment

7.4.1 Description

The Permittee operates equipment to handle fly ash from the coal-fired boiler in dry form if there is a market for such material. This dry ash is recovered by the multiclone control system on the boiler. When there is not a market for dry ash, the recovered fly ash is slurried with water and sent to the ash pond, along with the wastewater from the wet scrubber.

The particulate matter (PM) emissions from the handling of dry fly ash are controlled by enclosure and a filter-type dust collection device.

7.4.2 List of Emission Units and Air Pollution Control Equipment

Unit ID	Description	Emission Control Equipment
SS 1	Ash Transfer, Storage Silo and Loadout	Baghouse BGH 12

7.4.3 Applicability Provisions

- a. An "affected process" for the purpose of these unit-specific conditions, is the process emission unit as described in Conditions 7.4.1 and 7.4.2.

7.4.4 Applicable Emission Standards

- a. The affected process shall comply with the standard in Condition 5.2.2(a), which generally addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, pursuant to 35 IAC 212.301.
- b. The affected process shall comply with the standard in Condition 5.2.2(b), which generally addresses the opacity of the emissions of smoke or other particulate matter from emission units, pursuant to 35 IAC 212.123.
- c. The affected process shall comply with to 35 IAC 212.321(a), which provides that:

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 35 IAC 212.321(c) [35 IAC 212.321(a)]. (See also Attachment 1)

7.4.5 Non-Applicability of Regulations of Concern

None

7.4.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. i. The Permittee shall implement and maintain control measures for the affected process, including enclosure and filter-type dust collection device(s), that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission standards in Condition 7.4.4 pursuant to Section 39.5(7) (a) of the Act.

7.4.7 Testing Requirements

- 7a. i. The Permittee shall have the opacity of the exhaust from the affected process during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.

- A. If the stack emissions of the affected process are normally visible when it is in operation, as determined by USEPA Reference Method 22, opacity testing shall be conducted at least once every 12 months of operation. For this purpose, if testing is required, the initial testing shall be conducted within 3 months of the date that the process first operates after the issuance of this permit.

- B. Upon written request by the Illinois EPA, opacity testing shall be conducted for the affected process within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.

- C. Periods when the affected process is inactive, i.e., neither receiving dry fly ash from the boiler nor loading out fly ash, shall not be considered when determining the timing of required testing.

- 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. A. 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).

- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. 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.
- v. 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 condition, including recent weather.
 - E. Description of the operating conditions of the affected process.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.
- b.
 - i. The Permittee shall have the particulate matter emissions at the stacks or vents of the affected process) during representative operating conditions measured by a qualified testing service within 90 days of a written request from the Illinois EPA, as specified by such request, pursuant to Section 39.5(7) (b) of the Act.
 - ii. Testing shall be conducted using USEPA Test Method 5, following timely submittal of a test protocol and notification of the date and time of testing to the Illinois EPA.
 - iii. A complete report for the test shall be promptly submitted to the Illinois EPA following testing.

7.4.8 Inspection Requirements

- a. The Permittee shall perform an inspection of the affected process, including associated control measures, while the process is in operation, at least quarterly, to confirm compliance with the requirements of Condition 7.4.6(a). These inspections shall be

performed by personnel who are not directly involved in the day-to day operation of the affected process. [Section 39.5(7) (a) of the Act].

- b. The Permittee shall perform detailed inspections of the dust collection equipment for the affected process while the process is out of service, at least once every 15 months, with an initial inspection performed before any maintenance and repair activities are conducted during the period the process is out of service and a follow-up inspection performed after any such activities are completed [Section 39.5(7) (a) of the Act].
- c. Periods when the affected process is inactive shall not be considered when determining the timing of required inspections. (See also Conditions 7.7.7(a) (i) (C) and 7.4.9(a) (ii).)

7.4.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected process, pursuant to Section 39.5(7) (b) of the Act:

- a. The Permittee shall keep a record, of the following:
 - i. The following information for the affected process, with supporting information, which shall be kept up to date:
 - A. Information related to the dust collection equipment associated with the affected processes, including the performance specifications for filter material and maximum design particulate matter emissions, gr/dscf.
 - B. The maximum operating capacity of each element of the affected process, (ton/hr).
 - ii. Operating log(s) for the affected process, which shall include the following information:
 - A. Each time the status of the process changes from active to inactive or vice versa, with explanation.
 - B. Information for any incident in which the operation of the process continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration

of the incident; and a description of the preventative actions taken.

- iii. A maintenance and repair log for the process, including each item of air pollution control equipment, which lists the date and nature of maintenance and repair activities performed. (See also Condition 9.6.1, Control Equipment Maintenance Records.)
- b.
 - i. The Permittee shall maintain a record, which shall be kept up to date, for the control measures of the affected process currently being implemented pursuant to Condition 7.4.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit.
 - ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.4.4(c) at the maximum process weight rates at which ash can be received from the boiler and loaded out (tons/hour), with supporting calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee. Except as addressed by Condition 7.4.9(a) (i) or testing of an affected process is conducted in accordance with Condition 7.4.7(b), this demonstration shall be developed using emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions published by USEPA.
 - iii. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
 - c. The Permittee shall maintain records of the following for the inspections required by Condition 7.4.8:
 - i. For inspections required by Condition 7.4.8(a):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the control measures for the process, including the presence of any visible emissions or visible accumulations of fly ash in the vicinity of the process.
 - C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding

recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.

- D. A summary of compliance compared to the established control measures.
- ii. For inspections required by Condition 7.4.8(b):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the equipment.
 - C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
 - D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.
- d. The Permittee shall maintain records of the following for each incident when the affected process operated without the established control measures:
 - i. The date of the incident.
 - ii. A description of the incident, including the element(s) of the process that were involved and the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
 - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
 - iv. The length of time after the incident was identified that the process continued to operate before established control measures were in place or the process was shutdown (to resume operation only after established control

measures were in place) and, if this time was more than one hour, a detailed explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.

- v. The estimated total duration of the incident, i.e., the total length of time that the process ran without established control measures and the estimated amount of material handled during the incident.
 - vi. A discussion of the probable cause of the incident and any preventative measures taken.
 - vii. A discussion whether Condition 7.4.4(b) or (c) may have been violated during the incident, with supporting explanation as needed.
- e. Records for Opacity Measurements

The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected process that it conducts or that are conducted on its behest by an individual who is qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.4.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the process, the observed opacity, and copies of the raw data sheets.

7.4.10 Reporting Requirements

a. Reporting of Deviations

For the affected process, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

- i. The following notifications and reports concerning incidents when operation continued with excess emissions, including continued operation of the affected process during malfunction or breakdown of equipment.
 - A. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice or facsimile) as soon as possible during normal working hours for each incident in which the opacity from the affected

process exceeds or may have exceeded 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for less than five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a)).

- B. Upon conclusion of each such incident for which notification is required, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected process was taken out of service.
- ii. Notification within 30 days for operation of the affected process that was not in compliance with applicable requirements in Conditions 7.4.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.4.9(d).
- iii. A. Notification with the quarterly reports required by Condition 7.1.10-2(a) for other deviations not addressed by Conditions 7.4.10(a)(i) and (ii), including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
 - B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports for such deviations.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected process without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21, or for an activity for which a permit is required pursuant to 35 IAC 201.142.

- a. Operation of additional dust suppressant systems.
- b. Operation of replacement dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced, as recognized in a Construction Permit for such system or equipment.

7.4.12 Compliance Procedures

- a. Compliance with Condition 7.4.4 is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.4.6(a), 7.4.7, 7.4.8, and 7.4.9, respectively.
- b. Compliance with Condition 7.4.6(a) is addressed by the testing, inspection, and recordkeeping required by Conditions 7.4.7, 7.4.8, and 7.4.9, respectively.

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

7.5 Lime Handling Equipment

7.5.1 Description

The Permittee operates equipment to store lime, which is used to neutralize the acidic wastewater from the wet scrubber. The lime is received by truck. Associated particulate matter (PM) emissions are controlled by enclosure and a filter control device.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Unit ID	Description	Control Equipment
SS 2	Lime Receiving and Storage Silo	Baghouse BGH 2

7.5.3 Applicability Provisions

- a. The "affected process" for the purpose of these unit-specific conditions is the emission unit described in Condition 7.5.1 and 7.5.2.

7.5.4 Applicable Emission Standards

- a. The affected process shall comply with the standard in Condition 5.2.2(a), which generally addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, pursuant to 35 IAC 212.301.
- b. The affected process shall comply with the standard in Condition 5.2.2(b), which generally addresses the opacity of the emission of smoke or other particulate matter, pursuant to 35 IAC 212.123.
- c. The affected process shall comply with 35 IAC 212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new operations 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 35 IAC 212.321(c) [35 IAC 212.321(a)]. (See also Attachment 1)

7.5.5 Non-Applicability of Regulations of Concern

None

7.5.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. The Permittee shall implement and maintain control measures for the affected process, including enclosure and filter-type dust collection devices, that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission standards in Condition 7.5.4, pursuant to Section 39.5(7) (a) of the Act.

7.5.7 Testing Requirements

- a. i. If visible stack emissions normally occur during receiving of lime, as determined by Method 22, the Permittee shall have the opacity of such emissions from the affected process during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.
 - A. Testing of opacity shall be conducted at least every 18 months. For this purpose, if testing is required, the initial testing shall be conducted within 9 months of the issuance of this permit.
 - B. Upon written request by the Illinois EPA, such testing shall be conducted within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- 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. A. 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).
- B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. 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.
- v. 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 condition, including recent weather.
 - E. Description of the operating conditions of the affected processes.
 - F. Raw data.
 - G. Opacity determinations.
 - H. Conclusions.
- b.
 - i. The Permittee shall have the particulate matter emissions at the stacks or vents of affected process during representative operating conditions measured by a qualified testing service within 90 days of a written request from the Illinois EPA, as specified by such request, pursuant to Section 39.5(7) (b) of the Act.
 - ii. Testing shall be conducted using USEPA Test Method 5, following timely submittal of a test protocol and notification of the date and time of testing to the Illinois EPA.
 - iii. A complete report for the test shall be promptly submitted to the Illinois EPA following testing.

7.5.8 Inspection Requirements

- a. The Permittee shall perform inspections of the affected process, including associated control measures, at least every 6 months, while lime is being received, to confirm compliance with the requirements of Condition 7.5.6(a). These inspections shall be performed by personnel who are not directly involved in the day-to day operation of the affected process. [Section 39.5(7) (a) of the Act]
- b. The Permittee shall perform detailed inspections of the dust collection equipment for the affected process at least every 24 months while the process is out of service, with an initial inspection performed before any maintenance and repair activities are conducted during the period the process is out of service and a follow-up inspection performed after any such activities are completed [Section 39.5(7) (a) of the Act].

7.5.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected process, pursuant to Section 39.5(7)(b) of the Act:

- a. The Permittee shall keep a record, of the following:
 - i. The following information for the affected process, with supporting information, which shall be kept up to date:
 - A. Information related to the dust collection equipment associated with the affected processes, including the performance specifications for filter material and maximum design particulate matter emissions, gr/dscf.
 - B. The maximum operating capacity of each element of the affected process, (ton/hr).
 - ii. Operating log(s) for the affected process, which shall include information for any incident in which the operation of the process continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken.
 - iii. A maintenance and repair log for the process, including each item of air pollution control equipment, which lists the date and nature of maintenance and repair activities performed. (See also Condition 9.6.1, Control Equipment Maintenance Records.)
- b.
 - i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures for the affected process currently being implemented pursuant to Condition 7.5.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit.
 - ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.5.4(c) at the maximum process weight rate at which lime can be received and handled (tons/hour), with supporting emission calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee. Except as addressed by Condition 7.5.9(a)(i) or testing of an affected

operation is conducted in accordance with Condition 7.5.7(b), this demonstration shall developed using published emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions.

- iii. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
- c. The Permittee shall maintain records of the following for the inspections required by Condition 7.5.8:
 - i. For inspections required by Condition 7.4.8(a):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the control measures for the process, including the presence of any visible emissions or visible accumulations of lime in the vicinity of the process.
 - C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
 - D. A summary of compliance compared to the established control measures.
 - ii. For inspections required by Condition 7.5.8(b):
 - A. Date and time the inspection was performed and name(s) of inspection personnel.
 - B. The observed condition of the equipment.
 - C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
 - D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.

- E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.
- d. The Permittee shall maintain records of the following for each incident when the affected process operated without the established control measures:
 - i. The date of the incident.
 - ii. A description of the incident, including the element(s) of the process that were involved and the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
 - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
 - iv. The length of time after the incident was identified that the affected process continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
 - v. The estimated total duration of the incident, i.e., the total length of time that the affected process ran without established control measures and the estimated amount of material handled during the incident.
 - vi. A discussion of the probable cause of the incident and any preventative measures taken.
 - vii. A discussion whether Condition 7.5.4(b) or (c) may have been violated during the incident, with supporting explanation as needed.
- f. Records for Opacity Measurements

The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected process that it conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these

records shall include the formal report for the measurements if conducted pursuant to Condition 7.5.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the process operation, the observed opacity, and copies of the raw data sheets.

7.5.10 Reporting Requirements

a. Reporting of Deviations

For the affected process, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7) (f) (ii) of the Act:

- i. The following notifications and reports concerning incidents when operation continued with excess emissions, including continued operation of the affected process during malfunction or breakdown of equipment.
 - A. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice or facsimile) as soon as possible during normal working hours for each incident in which the opacity from the affected process exceeds or may have exceeded 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for less than five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a)).
 - B. Upon conclusion of each such incident for which notification is required, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected process was taken out of service.

- ii. Notification within 30 days for operation of the affected process that was not in compliance with applicable requirements in Conditions 7.5.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.5.9(d).
- iii. A. Notification with the quarterly reports required by Condition 7.1.10-2(a) for other deviations not addressed by Conditions 7.5.10(a) (i) and (ii), including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
 - B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports for such deviations.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected process without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21, or for an activity for which a permit is required pursuant to 35 IAC 201.142.

- a. Operation of additional dust collection equipment.
- c. Operation of replacement dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced, as recognized in a Construction Permit for such system or equipment.

7.5.12 Compliance Procedures

- a. Compliance with Condition 7.5.4 is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.5.6(a), 7.5.7, 7.5.8, and 7.5.9, respectively.

- b. Compliance with Condition 7.5.6(a) is addressed by the testing, inspection, and recordkeeping required by Conditions 7.5.7, 7.5.8, and 7.5.9, respectively.

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

7.6 Turbines

7.6.1 Description

The turbine is a process emission unit used for on-site power needs. The turbine is fired with distillate oil.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Control Equipment
Turbine CT-1	Distillate Oil Fired Turbine Nominal 273 mmBtu/hr	None

7.6.3 Applicability Provisions

- a. The "affected turbine" for the purpose of these unit-specific conditions, is a turbine described in Conditions 7.6.1 and 7.6.2.

7.6.4 Applicable Emission Standards

- a. The affected turbine shall comply with the standard in Condition 5.2.2(b), which generally addresses the opacity of the emission of smoke or other particulate matter, pursuant to 35 IAC 212.123.
- b. The affected turbine is subject to 35 IAC 214.301, which provides that no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to excess 2000 ppm [35 IAC 214.301].

7.6.5 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected turbine not being subject to the requirements of 35 IAC 212.321 or 212.322 because, due to the nature of turbines, a process weight rate can not be set so that such rules can not reasonably be applied, pursuant to 35 IAC 212.123.
- b. The affected turbine is not subject to 35 IAC 216.121 because the affected turbine is not a fuel combustion unit, as defined by 35 IAC 201.2470.
- c. Pursuant to 40 CFR 72.6(b)(1), simple combustion turbines that commenced commercial operation before November 15, 1990 are not affected units subject to the requirements of the Acid Rain Program.
- d. The affected turbine is not subject to the requirements of the NOx Trading Programs, 35 IAC Part 217 Subpart W, because the turbine has a nameplate capacity less than 25 MWe.

7.6.6 Work Practices, Operational and Production Limits, and Emission Limitations

- a. Distillate fuel oil shall be the only fuel fired in the affected turbine.
- b.
 - i. If an affected turbine is routinely operated or exercised to confirm that the turbine will operate when needed, the operation and opacity of the turbine shall be formally observed by operating personnel for the turbine or a member of Permittee's environmental staff on a regular basis to assure that the turbine is operating properly, which observations shall be made at least every six months.
 - ii. If an affected turbine is not routinely operated or exercised, i.e., the time interval between operation of an affected turbine is typically greater than six months, the operation and opacity of the affected turbine shall be formally observed as provided above each time the Permittee carries out a scheduled exercise of the affected turbine.
 - iii. The Permittee shall also conduct formal observations of operation and opacity of an affected turbine upon written request by the Illinois EPA. With the agreement of the Illinois EPA, the Permittee may schedule these observations to take place during periods when it would otherwise be operating the turbine.

7.6.7 Testing Requirements

- a. The Permittee shall have the opacity of the exhaust from the affected turbine during representative operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7)(b) of the Act.
 - i. If the stack emissions of the turbine are normally visible during startup or operation of the turbine, as determined by USEPA Reference Method 22, testing of opacity shall be conducted at least once for every 1000 hours of operation. For this purpose, the initial testing shall first be conducted within the first 250 hours of operation of the turbine pursuant to this permit.
 - ii. Upon written request by the Illinois EPA, Such testing shall be conducted within 45 calendar days of the request, or on the date that the turbine next operates, or on the date agreed upon by the Illinois EPA, whichever is later.

- b. 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.
- c.
 - i. 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).
 - ii. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
 - iii. 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.
- d. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
 - i. Date and time of testing.
 - ii. Name and employer of qualified observer.
 - iii. Copy of current certification.
 - iv. Description of observation conditions.
 - v. Description of turbine operating conditions.
 - vi. Raw data.
 - vii. Opacity determinations.
 - viii. Conclusions.

7.6.8 Monitoring Requirements

None

7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected turbine, pursuant to Section 39.5(7) (b) of the Act:

- a.
 - i. An operating log for the affected turbine, which shall include the following information:

- A. Information for each time the turbine is operated, with date, time, duration, and purpose (i.e., exercise or power service).
 - B. Information for the observations conducted pursuant to Condition 7.6.6(b), with date, time, personnel, and findings.
 - C. Information for any incident in which the operation of the turbine continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded Condition 7.6.4(a); a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken.
 - D. Information identifying any deviation from Condition 7.6.6(a).
- iii. A maintenance and repair log for the affected turbine and associated equipment, listing activities performed with date.
- b. Records for each shipment of fuel for the affected turbine, including: date; supplier; quantity (in gallons); sulfur content, in weight percent or lb/mmBtu; and confirmation that the shipment qualifies as distillate fuel oil.
- c.
 - i. Fuel usage for the affected turbine, gallons/mo and gallons/yr.
 - ii. Operation of the affected turbine, hours/yr.
 - d. Records for Opacity Measurements

Records for all opacity measurements made in accordance with USEPA Method 9 for an affected turbine that the Permittee conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such observations are made, these records shall include the identity of the observer, a description of the various observations that were made, the observed opacity, and copies of the raw data sheets for the observations.

7.6.10 Reporting Requirements

a. Reporting of Deviations

For the affected turbine, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows, pursuant to Section

39.5(7)(f)(ii) of the Act. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

- i. A. Notification to the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected turbine exceeds or may have exceeded the limit in Condition 7.6.4(a) (30 percent) for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during an incident only exceeds or may have exceeded 30 percent for no more than five consecutive 6-minute averaging periods, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.6.10(a)(iii)(A).)
- B. Upon conclusion of such incident, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation of the turbine 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 turbine was taken out of service.
- ii. Notification within 30 days of firing the turbine with residual oil or other heavy fuel that does not qualify as distillate oil. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.3.9(e).
- ii. Notification within 30 days for a deviation from Condition 7.6.4(b) or 7.6.6(a)(i), with a copy of the applicable records for the incident and a discussion of the probable cause of deviation, the corrective actions taken, and the preventative measures taken,
- iii. A. Reporting with the quarterly reports required by Condition 7.1.10-2(a) for other deviations not addressed by Condition 7.6.10(a)(i) or (ii), including deviations from applicable emission

standards, inspection requirements and recordkeeping requirements. For this purpose, these reports shall include a description of each incident and a discussion of the probable cause of the deviation, the corrective actions taken, and the preventative measures taken,

- B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

None

7.6.12 Compliance Procedures

- a. Compliance with opacity limitations of Condition 7.6.4(a) is addressed by the testing and recordkeeping requirements in Conditions 7.6.7 and 7.6.9(d).
- b. Compliance with Condition 7.6.4(b) is addressed by records required by Condition 7.6.9(b). For this purpose, complete conversion of sulfur to SO₂ shall be assumed, e.g., SO₂ emissions in lb/mmBtu are twice the sulfur content of the fuel supply, in lb/mmBtu.

Note: Stoichiometric combustion of distillate oil with the maximum available sulfur content, i.e. 1.0 percent would result in an SO₂ concentration in the exhaust of only about 535 ppm based on the F-factor for oil in USEPA's Reference Method 19, which is well below the 2000 ppm limit in Condition 7.6.4(c).

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

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 July 2, 2003 (the date of issuance of the draft 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].

As of the date of issuance of this permit, there are no such economic incentive, marketable permit or emission trading programs that have been approved by USEPA.

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 condition 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 Section 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 Section 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 Section
Illinois Environmental Protection Agency (MC 40)
Bureau of Air
Compliance & Enforcement Section (MC 40)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
 - ii. Illinois EPA - Air Regional Field Office
Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234
 - iii. 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)
1021 North Grand Avenue East
P.O. Box 19506
Springfield, Illinois 62794-9506

8.7 Obligation to Comply with Title I Requirements

Any term, condition, or requirement identified in this permit by T1, T1R, or T1N is established or revised pursuant to 35 IAC Part 203 or 40 CFR 52.21 ("Title I provisions") and incorporated into this permit pursuant to both Section 39.5 and Title I provisions. Notwithstanding the expiration date on the first page of this permit, the Title I conditions remain in effect pursuant to Title I provisions until the Illinois EPA deletes or revises them in accordance with Title I procedures.

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 [Section 39.5(7)(j)(iv) of the Act].

9.1.2 In particular, this permit does not alter or affect the following:

- a. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section;
- b. The liability of 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, 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 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 thereunder.

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, 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
 - 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 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. As 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, Compliance 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 Section, 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 [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment 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:

- 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.

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)(c)(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 statement were made in establishing the emission

standards or limitations, or other terms or conditions of this permit; and

- 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 this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the 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 during 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

10.1 Attachment 1 Emissions of Particulate Matter from New Process Emission Units

35 IAC 212.321 - Process Emission Units for Which Construction or Modification Commenced On or After April 14, 1972

- a. 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, 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)].
- b. 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,

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

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

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

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

- c. 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
Mg/hr	kg/hr	T/hr	lb/hr
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

10.2 Attachment 2 Emissions of Particulate Matter from Existing Process Emission Units

35 IAC 212.322 - Process Emission Units for Which Construction or Modification Commenced Prior to April 14, 1972

- a. 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 at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].
- b. 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,

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

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

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

	Metric	English
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

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
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

10.3 Attachment 3 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: _____

10.4 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 (CAAPP Form-199).

Application For A Construction Permit Form (CAAPP Form-199):

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