217/782-2113

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

PERMITTEE

Ameren Energy Generating Company
Attn: Michael L. Menne
1901 Chouteau Avenue
St. Louis, Missouri 63101

Application No.: 95090009 I.D. No.: 135803AAA
Applicant's Designation: Date Received: September 01, 1995
Operation of: Electrical Power Generation at Coffeen
Date Issued: September 29, 2005 Expiration Date[1]: September 29, 2010
Source Location: 134 CIPS Lane, Coffeen, Montgomery County
Responsible Official: James L. Williams, Jr., Manager, Coffeen Power Station

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.

The current federal Acid Rain Permit issued to Ameren Energy Generating Company by the Illinois EPA for this source is incorporated into this CAAPP permit (See Attachment 5).

If you have any questions concerning this permit, please contact the Utility Unit at 217/782-2113 (217/782-9143 TDD).

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

DES:MNP:jar

cc: Illinois EPA, FOS, Region 2
USEPA

[1] Except as addressed in Condition 8.7 of this permit

TABLE OF CONTENTS

		PAGE
1.0	INTRODUCTION	4
	1.1 Source Identification	
	1.2 Owner/Parent Company	
	1.3 Operator	
	1.4 General Source Description	
	1.5 Title I Conditions	
2.0	LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT	5
3.0	CONDITIONS FOR INSIGNIFICANT ACTIVITIES	7
	3.1 Identification of Insignificant Activities	
	3.2 Compliance with Applicable Requirements	
	3.3 Addition of Insignificant Activities	
4.0	SIGNIFICANT EMISSION UNITS AT THIS SOURCE	10
5.0	OVERALL SOURCE CONDITIONS	11
	5.1 Applicability of clean Air Act Permit Program (CAAPP)	
	5.2 Applicable Regulations	
	5.3 General Non-Applicability of Regulations of Concern	
	5.4 Source-Wide Operational and Production Limits and Work Practices	
	5.5 Source-Wide Emission Limitations	
	5.6 General Recordkeeping Requirements	
	5.7 General Reporting Requirements	
	5.8 General Operational Flexibility/Anticipated Operating Scenarios	
6.0	CONDITIONS FOR EMISSIONS CONTROL PROGRAMS	17
	6.1 NOx Trading Program	
	6.2 Acid Rain Program	
7.0	UNIT SPECIFIC CONDITIONS	27
	7.1 Coal Fired Boilers	
	7.2 Coal Handling Equipment	
	7.3 Coal Processing Equipment	
	7.4 Fly Ash Equipment	
	7.5 Auxiliary Boiler	
	7.6 Gasoline Storage Tank	
8.0	GENERAL PERMIT CONDITIONS	123
	8.1 Permit Shield	
	8.2 Applicability of Title IV Requirements	
	8.3 Emissions Trading Programs	
	8.4 Operational Flexibility/Anticipated Operating Scenarios	
	8.5 Testing Procedures	
	8.6 Reporting Requirements	
	8.7 Title I Conditions	

PAGE

9.0 STANDARD PERMIT CONDITIONS 128

9.1 Effect of Permit
9.2 General Obligations of Permittee
9.3 Obligation to Allow Illinois EPA Surveillance
9.4 Fees
9.5 Property Rights
9.6 Recordkeeping
9.7 Annual Emissions Report
9.8 Requirements for Compliance Certification
9.9 Certification
9.10 Defense to Enforcement Actions
9.11 Permanent Shutdown
9.12 Reopening And Reissuing Permit For Cause
9.13 Severability Clause
9.14 Permit Expiration and Renewal
9.15 General Authority for Permit Terms and Conditions

10.0 ATTACHMENTS

10.1 Attachment 1 - Emissions of Particulate Matter from New Process Emission Units 1-1
10.2 Attachment 2 - Emissions of Particulate Matter from Existing Process Emission Units 2-1
10.3 Attachment 3 - Example Certification by a Responsible Official 3-1
10.4 Attachment 4 – Guidance 4-1
10.5 Attachment 5 - Acid Rain Program Permit 5-1

1.0 INTRODUCTION

1.1 Identification

Ameren Energy Generating Company – Coffeen Power Station
134 CIPS Lane
P.O. Box 306
Coffeen, Illinois 62017
217/534-2363

I.D. No.: 135803AAA
Acid Rain Permit ORIS Code No.: 861

Standard Industrial Classification: 4911, Electrical Services

1.2 Owner/Parent Company

Ameren Energy Generating Company
1901 Chouteau Avenue
St. Louis, Missouri 63103

1.3 Operator

Ameren Energy Generating Company
1901 Chouteau Avenue
St. Louis, Missouri 63103

Steven C. Whitworth
314/554-4908

1.4 General Source Description

The Coffeen Power Station operates two coal-fired boilers to generate electrical power.

1.5 Title I Conditions

This CAAPP permit contains certain conditions for units at this source that address the applicability of permitting programs for the construction and modification of sources, which programs were established pursuant to Title I of the Clean Air Act (CAA) and regulations thereunder. These programs include 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification (MSSCAM), and are implemented by the Illinois EPA pursuant to Sections 9, 9.1, 39(a) and 39.5(7)(a) of Illinois' Environmental Protection Act (Act). These "Title I conditions" within this permit are specifically designated as "T1," if they reflect requirements established in construction permits issued for this source, "T1R" if they revise requirements established in such construction permits, or "T1N" if they are newly established in this CAAPP permit. These conditions continue in effect, notwithstanding the expiration date specified on the first page of this permit, as their authority derives from Titles I and V of the CAA, as well as Titles II and X of the Act. (See also Condition 8.7.)

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
^{o}F	degrees Fahrenheit
FGC	Flue Gas Conditioning
ft	foot
ft^3	cubic foot
HAP	Hazardous Air Pollutant
HP	horsepower
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
^{o}K	degrees Kelvin
Kg	kilogram
kW	Kilowatts
lb	Pound
LNB	Low NOx Burners
m	meter
MACT	Maximum Achievable Control Technology
mmBtu	million British thermal units
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOx	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	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:

Glycol Storage Tanks
Cooling Towers

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:

Lime/Soda Ash Storage Silo

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)].

Equipment used for filling drums, pails, or other packaging containers, excluding aerosol cans, with soaps, detergents, surfactants, lubricating oils, waxes, vegetable oils, greases, animal fats, glycerin, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions [35 IAC 201.210(a)(8)].

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

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

Gas turbines and stationary reciprocating internal combustion engines of between 112 kW and 1,118 kW (150 and 1,500 horsepower) power output that are emergency

or standby units [35 IAC 201.210(a)(16)].
Storage tanks of any size containing exclusively soaps, detergents, surfactants, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions, provided an organic solvent has not been mixed with such materials [35 IAC 201.210(a)(17)].

Loading and unloading systems for railcars, tank trucks, or watercraft that handle only the following liquid materials, provided an organic solvent has not been mixed with such materials: soaps, detergents, surfactants, lubricating oils, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions, or aqueous caustic solutions [35 IAC 201.210(a)(18)].

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

Note: The heating of a 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 coal fired boilers. Notwithstanding such status as an insignificant activity, the opacity of the exhaust from each coal fired boiler is at all times subject to the applicable opacity standard and the unit-specific conditions of this permit for boilers 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, other than units excluded by 35 IAC 212.323 or 212.681, 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	Ref.*
Boiler CB1	Babcock & Wilcox Boiler Nominal 3,282 mmBtu/hr (1965)	OFA, SCR and ESP with FGC	7.1
Boiler CB2	Babcock & Wilcox Boiler Nominal 5,544 mmBtu/hr (1972)	OFA, SCR, and ESP with FGC	
Coal Handling Equipment	Coal Receiving, Transfer and Storage Operations	Enclosures, Covers, Dust Suppressant Application and Dust Collection Devices	7.2
Crusher House	Coal Crushing Operation	Enclosures, Covers and Dust Suppressant Application System	7.3
Fly Ash Equipment	Transfer System, Silo, and Loadout Operation	Enclosures and Dust Collection Devices	7.4
Boiler CB-AUX4	Auxiliary Boiler Nominal 226 mmBtu/hr (1992)	None	7.5
Storage Tank CGT-1	Gasoline Storage Tank 1000 Gallon Capacity	Submerged Loading Pipe	7.6

* Reference to the Unit Specific Conditions in Section 7 of this permit.

5.0 OVERALL SOURCE CONDITIONS

5.1 Applicability of Clean Air Act Program (CAAPP)

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of SO_2, CO, NOx, VOM, HAP, and PM emissions.

5.1.2 This permit is issued based on the source requiring a CAAPP permit as an "affected source" for the purposes of Acid Deposition Control, Title IV of the Clean Air Act.

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 toward the zenith (i.e., overhead) at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

b. 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, including the following:

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 appropriately 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, 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 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 newly applicable regulations, as provided by Section 39.5(15)(a) of the act. (See Condition 9.12.2.)

b. This permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

5.2.6 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, Air Compliance Section 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

Emission limitations are not set for this source for the purpose of permit fees. Rather, the Permittee pay the maximum fee required pursuant to Section 39.5(18)(a)(ii)(A) of the Act, which is currently $250,000.00 per year. (See also Condition 9.4.)

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 Sections 4(b) and 39.5(7)(a), (b) and (e) 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 boilers may 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 ICR data or other reliable data for elemental composition, including mercury content, is not available for coal that is burned in a boiler, the Permittee shall collect representative data on the elemental composition of the coal, similar to the ICR data collected by USEPA.

5.6.2 Retention and Availability of Records

The Permittee shall comply with the following requirements with respect to retention and availability of records pursuant to Sections 4(b) and 39.5(7)(a), (b), (e) and (f) of the Act.

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 specific 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 effectiveness 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)(ii) of the Act. Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

a. 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.

b. i. 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.

ii. 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 hydrogen chloride, hydrogen fluoride, and other hazardous

air pollutants, as specified by 35 IAC Part 254. [Sections 4(b) and 39.5(7)(a), (b) and (f) of the Act]

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.

6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

6.1 NOx Trading Program

6.1.1 Description of NOx Trading Program

The NOx Trading Program is a regional "cap and trade" market system for large sources of NOx emissions in the eastern United States, including Illinois. It is designed to reduce and maintain NOx emissions from the emission units covered by the program within a budget to help contribute to attainment and maintenance of the ozone ambient air quality standard in the multi-state region covered by the program. The NOx Trading Program applies in addition to other applicable requirements for NOx emissions and in no way relaxes these other requirements.

Electrical generating units (EGU) that are subject to the NOx Trading Program are referred to as "budget EGU." Sources that have one or more EGU or other units subject to the NOx Trading Program are referred to as budget sources.

The NOx Trading Program controls NOx emissions from budget EGU and other budget units during a seasonal control period from May 1 through September 30 of each year, when weather conditions are conducive to formation of ozone in the ambient air. By November 30 of each year, the allowance transfer deadline, each budget source must hold "NOx allowances" for the actual NOx emissions of its budget units during the preceding control period. The USEPA will then retire NOx allowances in the source's accounts in amounts equivalent to its seasonal emissions. If a source does not have sufficient allowances in its accounts, USEPA would subtract allowances from the source's future allocation for the next control period and impose other penalties as appropriate. Stringent monitoring procedures developed by USEPA apply to budget units to assure that actual emissions of NOx are accurately determined.

The number of NOx allowances available for budget sources is set by the overall budget for NOx emissions established by USEPA. This budget requires a substantial reduction in NOx emissions from historical levels as necessary to meet air quality goals. In Illinois, existing budget sources initially receive their allocation or share of the NOx allowances budgeted for EGU in an amount determined by rule [35 IAC Part 217, Appendix F]. Between 2007 and 2011, the allocation mechanism for existing EGU gradually shifts to one based on the actual operation of EGU in preceding control periods. New budget EGU, for which limited operating data may be available, may obtain NOx allowances from the new source set-aside (NSSA), a portion of the overall budget reserved for new EGU.

In addition to directly receiving or purchasing NOx allowances as described above, budget sources may transfer

NOx allowances from one of their units to another. They may also purchase allowances in the marketplace from other sources that are willing to sell some of the allowances that they have received. Each budget source must designate an account representative to handle all its allowance transactions. The USEPA, in a central national system, will maintain allowance accounts and record transfer of allowances among accounts.

The ability of sources to transfer allowances will serve to minimize the costs of reducing NOx emissions from budget units to comply with the overall NOx budget. In particular, the NOx emissions of budget units that may be most economically controlled will be targeted by sources for further control of emissions. This will result in a surplus of NOx allowances from those units that can be transferred to other units at which it is more difficult to control NOx emissions. Experience with reduction of sulfur dioxide emissions under the federal Acid Rain program has shown that this type of trading program not only achieves regional emission reductions in a more cost-effective manner but also results in greater overall reductions than application of traditional emission standards to individual emission units.

The USEPA developed the plan for the NOx Trading Program with assistance from affected states. Illinois' rules for the NOx Trading Program for EGU are located at 35 IAC Part 217, Subpart W, and have been approved by the USEPA. These rules provide for interstate trading, as mandated by Section 9.9 of the Act. Accordingly, these rules refer to and rely upon federal rules at 40 CFR Part 96, which have been developed by USEPA for certain aspects of the NOx Trading Program, and which an individual state must follow to allow for interstate trading of allowances.

Note: This narrative description of the NOx Trading Program is for informational purposes only and is not enforceable.

6.1.2 Applicability

a. The following emission units at this source are budget EGU for purposes of the NOx Trading Program. Accordingly, this source is a budget source and the Permittee is the owner or operator of a budget source and budget EGU. In this section of this permit, these emission units are addressed as budget EGU.

Boilers 1 and 2

b. This permit does not provide "low-emitter status" for the above emission units pursuant to 35 IAC 217.754(c).

6.1.3 General Provisions of the NOx Trading Program

a. This source and the budget EGU at this source shall comply with all applicable requirements of Illinois' NOx Trading Program, i.e., 35 IAC Part 217, Subpart W, and 40 CFR Part 96 (excluding 40 CFR 96.4(b) and 96.55(c), and excluding 40 CFR 96, Subparts C, E, and I), pursuant to 35 IAC 217.756(a) and 217.756(f)(2).

b. Any provision of the NOx Trading Program that applies to a budget source (including any provision applicable to the account representative of a budget source) shall also apply to the owner and operator of such budget source and to the owner and operator of each budget EGU at the source, pursuant to 35 IAC 217.756(f)(3).

c. Any provision of the NOx Trading Program that applies to a budget EGU (including any provision applicable to the account representative of a budget EGU) shall also apply to the owner and operator of such budget EGU. Except with regard to requirements applicable to budget EGUs with a common stack under 40 CFR 96, Subpart H, the owner and operator and the account representative of one budget EGU shall not be liable for any violation by any other budget EGU of which they are not an owner or operator or the account representative, pursuant to 35 IAC 217.756(f)(4).

6.1.4 Requirements for NOx Allowances

a. Beginning in 2004, by November 30 of each year, the allowance transfer deadline, the account representative of each budget EGU at this source shall hold allowances available for compliance deduction under 40 CFR 96.54 in the budget EGUs compliance account or the source's overdraft account in an amount that shall not be less than the budget EGUs total tons of NOx emissions for the preceding control period, rounded to the nearest whole ton, as determined in accordance with 40 CFR 96, Subpart H, plus any number necessary to account for actual utilization (e.g., for testing, start-up, malfunction, and shut down) under 40 CFR 96.42(e) for the control period, pursuant to 35 IAC 217.756(d)(1). For purposes of this requirement, an allowance may not be utilized for a control period in a year prior to the year for which the allowance is allocated, pursuant to 35 IAC 217.756(d)(5).

b. The account representative of a budget EGU that has excess emissions in any control period, i.e., NOx emissions in excess of the number of NOx allowances held as provided above, shall surrender allowances as required for deduction under 40 CFR 96.54(d)(1), pursuant to 35 IAC 201.756(f)(5). In addition, the owner or operator of a budget EGU that has excess emissions shall pay any fine, penalty, or assessment, or comply with any other remedy imposed under 40 CFR

96.54(d)(3) and the Act, pursuant to 35 IAC 217.756(f)(6). Each ton of NOx emitted in excess of the number of NOx allowances held as provided above for each budget EGU for each control period shall constitute a separate violation of 35 IAC Part 217 and the Act, pursuant to 35 IAC 217.756(d)(2).

c. An allowance allocated by the Illinois EPA or USEPA under the NOx Trading Program is a limited authorization to emit one ton of NOx in accordance with the NOx Trading Program. As explained by 35 IAC 217.756(d)(6), no provisions of the NOx Trading Program, the budget permit application, the budget permit, or a retired unit exemption under 40 CFR 96.5 and no provision of law shall be construed to limit the authority of the United States or the State of Illinois to terminate or limit this authorization. As further explained by 35 IAC 217.756(d)(7), an allowance allocated by the Illinois EPA or USEPA under the NOx Trading Program does not constitute a property right. As provided by 35 IAC 217.756(d)(4), allowances shall be held in, deducted from, or transferred among allowances accounts in accordance with 35 IAC Part 217, Subpart W, and 40 CFR 96, Subparts F and G.

6.1.5 Monitoring Requirements for Budget EGU

a. The Permittee shall comply with the monitoring requirements of 40 CFR Part 96, Subpart H, for each budget EGU and the compliance of each budget EGU with the emission limitation under Condition 6.1.4(a) shall be determined by the emission measurements recorded and reported in accordance with 40 CFR 96, Subpart H, pursuant to 35 IAC 217.756(c)(1), (c)(2) and (d)(3).

   i. For Boiler 1 and Boiler 2, the Permittee is conducting continuous emissions monitoring for NOx, as generally provided for by 40 CFR 75.71(a).

b. The account representative for the source and each budget EGU at the source shall comply with those sections of the monitoring requirements of 40 CFR 96, Subpart H, applicable to an account representative, pursuant to 35 IAC 217.756(c)(1) and (d)(3).

6.1.6 Recordkeeping Requirements for Budget EGU

Unless otherwise provided below, the Permittee shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This 5-year period may be extended for cause at any time prior to the end of the 5 years, in writing by the Illinois EPA or the USEPA.

a. The account certificate of representation of the account representative for the source and each budget EGU at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 40 CFR 96.13, as provided by 35 IAC 217.756(e)(1)(A). These certificates and documents must be retained on site at the source for at least 5-years after they are superseded because of the submission of a new account certificate of representation changing the account representative.

b. All emissions monitoring information, in accordance with 40 CFR 96, Subpart H, (provided that to the extent that 40 CFR 96, Subpart H, provides for a 3-year period for retaining records, the 3-year period shall apply), pursuant to 35 IAC 217.756(e)(1)(B).

c. Copies of all reports, compliance certifications, and other submissions and all records made or required under the NOx Trading Program or documents necessary to demonstrate compliance with requirements of the NOx Trading Program, pursuant to 35 IAC 217.756(e)(1)(C).

d. Copies of all documents used to complete a budget permit application and any other submission under the NOx Trading Program, pursuant to 35 IAC 217.756(e)(1)(D).

6.1.7 Reporting Requirements for Budget EGU

a. The account representative for this source and each budget EGU at this source shall submit to the Illinois EPA and USEPA the reports and compliance certifications required under the NOx Trading Program, including those under 40 CFR 96, Subparts D and H, and 35 IAC 217.774, pursuant to 35 IAC 217.756(e)(2).

b. Notwithstanding the provisions in Conditions 9.8 and 9.9 of this CAAPP permit, these submittals need only be signed by the designated representative, who may serve in place of the responsible official for this purpose, as provided by Section 39.5(1) of the Act, and submittals to the Illinois EPA need only be made to the Illinois EPA, Air Compliance Section.

6.1.8 Allocation of NOx Allowances to Budget EGU

a. As the budget EGU identified in Condition 6.1.2(a) are "existing" EGU listed in 35 IAC Part 217, Appendix F, these EGU are entitled to NOx allowances as follows. (The portion of Appendix F that applies to the Permittee is provided in Condition 6.1.10.) The number of NOx allowances actually allocated for the budget EGU shall be the number of NOx allowances issued by USEPA pursuant to the allocation information reported to it by the Illinois EPA, which information may reflect adjustments to the overall allocations to budget EGU as provided for by 35 IAC 217.760(b) and (c):

i. In 2004 through 2006 (the first three years of the NOx Trading Program), an annual allocation of NOx allowances as specified by 35 IAC 217.764(a)(1), i.e., the number of NOx allowances listed in Appendix F, Column 7, and as provided by 35 IAC 217.768(j), a pro-rata share of any NOx allowances remaining in the new source set-aside (NSSA) following the allocation of allowances to new budget EGU.

ii. In 2007, as provided by 35 IAC 217.764(b), an allocation of NOx allowances as specified by 35 IAC 217.764(b)(1), i.e., the number of NOx allowances listed in Appendix F, Column 8, and as provided by 35 IAC 217.764(b)(4), a pro-rata share of any NOx allowances remaining after the allocation of allowances pursuant to 35 IAC 217.764(b)(2) to budget EGU that commence operation between January 1, 1995 and April 30, 2003.

iii. In 2008, as provided by 35 IAC 217.764(c), a specified allocation of NOx allowances, i.e., the number of NOx allowances listed in Appendix F, Column 8, as provided by 35 IAC 217.764(c)(4), and a pro-rata share of any NOx allowances remaining after the allocation of allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2004.

iv. In 2009, as provided by 35 IAC 217.764(d), a specified allocation of NOx allowances, i.e., the number of NOx allowances listed in Appendix F, Column 9, as provided by 35 IAC 217.764(d)(4), and a pro-rata share of any NOx allowances remaining after the allocation of NOx allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2005, and as provided by 35 IAC 217.764(d)(6), a pro-rata share of any surplus of NOx allowances in the NSSA after the allocation of NOx allowances to new budget EGU pursuant to 35 IAC 217.764(d)(5).

v. In 2010, as provided by 35 IAC 217.764(e), a specified allocation of NOx allowances, i.e., the number of NOx allowances listed in Appendix F, Column 9, and a pro-rata share of any NOx allowances remaining after the allocation of NOx allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2006, and a pro-rata share of any surplus of NOx allowances in the NSSA following the allocation of NOx allowances to new budget EGU.

vi. In 2011 and annually thereafter, as provided by 35 IAC 217.764(f), an allocation of NOx allowances based on the prior operation of the EGU during previous control periods, as described in Condition 6.1.8(b), and a pro-rata share of any surplus of NOx allowances in the NSSA following the allocation of NOx allowances to new budget EGU.

b. In accordance with 35 IAC 217.762, the theoretical number of NOx allowances for the budget EGU listed in Condition 6.1.2(a), calculated as the product of the applicable NOx emissions rate and heat input as follows, shall be the basis for determining the pro-rata share of NOx allowances for the budget EGU and the allocation of NOx allowances to the budget EGU based on their prior operation:

i. The applicable NOx emission rate for the budget EGU shall be 0.15 lb/mmBtu, as specified by 35 IAC 217.762(a)(1).

ii. The applicable heat input (mmBtu/control period) shall be the average of the two highest heat inputs from the control periods four to six years prior to the year for which the allocation is being made, as provided by 35 IAC 217.762(b)(1).

6.1.9 Budget Permit Required by the NOx Trading Program

a. For this source, this segment of the CAAPP Permit, i.e., Section 6.1, is the Budget Permit required by the NOx Trading Program and is intended to contain federally enforceable conditions addressing all applicable NOx Trading Program requirements. This Budget Permit shall be treated as a complete and segregable portion of the source's entire CAAPP permit, as provided by 35 IAC 217.758(a)(2).

b. The Permittee and any other owner or operator of this source and each budget EGU at the source shall operate the budget EGU in compliance with this Budget Permit, pursuant to 35 IAC 217.756(b)(2).

c. No provision of this Budget Permit or the associated application shall be construed as exempting or excluding the Permittee, or other owner or operator and, to the extent applicable, the account representative of a budget source or budget EGU from compliance with any other regulation or requirement promulgated under the CAA, the Act, the approved State Implementation Plan, or other federally enforceable permit, pursuant to 35 IAC 217.756(g).

d. Upon recordation by USEPA under 40 CFR 96, Subpart F or G, or 35 IAC 217.782, every allocation, transfer, or deduction of an allowance to or from the budget units' compliance accounts or to or from the overdraft

account for the budget source is deemed to amend automatically, and become part of, this budget permit, pursuant to 35 IAC 217.756(d)(8). This automatic amendment of this budget permit shall be deemed an operation of law and will not require any further review.

e. No revision of this Budget Permit shall excuse any violation of the requirements of the NOx Trading Program that occurs prior to the date that the revisions to this permit takes effect, pursuant to 35 IAC 217.756(f)(1).

f. The Permittee, or other owner or operator of the source, shall reapply for a Budget Permit for the source as required by 35 IAC Part 217, Subpart W and Section 39.5 of the Act. For purposes of the NOx Trading Program, the application shall contain the information specified by 35 IAC 217.758(b)(2).

6.1.10 References

35 IAC Part 217 Appendix F - (provisions applicable to the Permittee)

Company Name/ I.D. No.	Generating Unit	EGU	NOx Budget Allowances	80% of NOx Budget Allowances	50% of NOx Budget Allowances	2004, 2005, 2006 Allowances	2007, 2008 Allowances	2009, 2010 Allowances
1	2	3	4	5	6	7	8	9
135803AAA	Coffeen 1	Coffeen 1	550	440	275	523	431	270
135803AAA	Coffeen 2	Coffeen 2	945	756	473	898	741	463

6.2 Acid Rain Program

6.2.1 Applicability

Under Title IV of the CAA, Acid Deposition Control, this source is an affected source and the following emission units at the source are affected units for acid deposition:

Boilers 1 and 2

Note: Title IV of the CAA, and other laws and regulations promulgated thereunder, establish requirements for affected sources related to control of emissions of pollutants that contribute to acid rain. For purposes of this permit, these requirements are referred to as Title IV provisions.

6.2.2 Applicable Emission Requirements

The owners and operators of the source shall not violate applicable Title IV provisions. In particular, NOx emissions of affected units shall not exceed the limit set by 40 CFR Part 76, with the ability for averaging among units as allowed by an Acid Rain Permit. SO_2 emissions of the affected units shall not exceed any allowances that the source lawfully holds under Title IV provisions. [Section 39.5(7)(g) and (17)(l) of the Act]

Note: Affected sources must hold SO_2 allowances to account for the SO_2 emissions from affected units at the source that are subject to Title IV provisions. Each allowance is a limited authorization to emit up to one ton of SO_2 emissions during or after a specified calendar year. The possession of allowances does not authorize exceedances of applicable emission standards or violations of ambient air quality standards.

6.2.3 Monitoring, Recordkeeping and Reporting

The owners and operators of the source and, to the extent applicable, their designated representative, shall comply with applicable requirements for monitoring, recordkeeping and reporting specified by Title IV provisions, including 40 CFR Part 75. [Section 39.5(7)(b) and 17(m) of the Act]

Note: As further addressed by Section 7 of this permit, the following emission determination methods are currently being used for the affected units at this source.

NOx:	Continuous Emissions Monitoring (40 CFR 75.12)
SO_2:	Continuous Emissions Monitoring (40 CFR 75.11)
Opacity:	Continuous Emission Monitoring (40 CFR 75.14)

6.2.4 Acid Rain Permit

The owners and operators of the source shall comply with the terms and conditions of the source's Acid Rain permit. [Section 39.5(17)(l) of the Act]

Note: The source is subject to an Acid Rain permit, which was issued pursuant to Title IV provisions, including Section 39.5(17) of the Act. Affected sources must be operated in compliance with their Acid Rain permits. This source's Acid Rain permit is incorporated by reference into this permit and a copy of the current Acid Rain permit is included as Attachment 5 of this permit. Revisions and modifications of this Acid Rain permit, including administrative amendments and automatic amendments (pursuant to Sections 408(b) and 403(d) of the CAA or regulations thereunder) are governed by Title IV provisions, as provided by Section 39.5(13)(e) of the Act. Accordingly, revision or renewal of the Acid Rain permit may be handled separately from this CAAPP permit and a copy of the new Acid Rain permit may be included in this permit by administrative amendment.

6.2.5 Coordination with Other Requirements

a. This permit does not contain any conditions that are intended to interfere with or modify the requirements of Title IV provisions. In particular, this permit does not restrict the flexibility under Title IV provisions of the owners and operators of this source to amend their Acid Rain compliance plan. [Section 39.5(17)(h) of the Act]

b. Where another applicable requirement of the CAA is more stringent than an applicable requirement of Title IV provisions, both requirements are incorporated into this permit and are enforceable and the owners and operators of the source shall comply with both requirements. [Section 39.5(7)(h) of the Act]

7.0 UNIT SPECIFIC CONDITIONS

7.1 Coal Fired Boilers

7.1.1 Description

The Permittee operates two coal-fired boilers for electric generation. The boilers are currently operated for base load generation, normally operating for weeks at a time between startups. The boilers, which began operation in the 1965 and 1972, have nominal capacities of 3282 and 5544 mmBtu/hour, respectively, and are served by a single stack. In addition to coal, these boilers fire fuel oil as auxiliary fuel during startup and for flame stabilization. Periodically small amounts of used oil or boiler cleaning residue are fired with the coal in these boilers.

Particulate matter (PM) emissions from the boilers are controlled by electrostatic precipitators (ESP) with flue gas conditioning systems (FGC). The flue gas conditioning systems are operated on an as needed basis. Nitrogen oxide (NOx) emissions from the boiler are controlled by over-fire air system (OFA) and Selective Catalytic Reduction system (SCR). The Permittee currently plans to operate the NOx controls on an as needed basis to comply with applicable emission standards.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Boiler I.D.	Description	Emission Control Equipment
Boiler 1 CB1	Babcock & Wilcox Boiler 3,282 Nominal mmBtu/hr (1965)	OFA, SCR and ESP with FGC
Boiler 2 CB2	Babcock & Wilcox Boiler 5,544 Nominal mmBtu/hr (1972)	OFA, SCR and ESP with FGC

7.1.3 Applicability Provisions

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

b. Startup Provisions

Subject to the following terms and conditions, the Permittee is authorized to operate an 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 212.203), and Condition 7.1.4(d) (35 IAC 216.121), during startup. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally describing the efforts that will be used "…to minimize startup emissions, duration of individual startups and frequency of startups."

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

ii. The Permittee shall conduct startup of an affected boiler in accordance with written procedures prepared by the Permittee and maintained in the control room for the boiler, that are specifically developed to minimize emissions from startups and that include, at a minimum, the following measures:

A. Use of auxiliary fuel burners to heat the boiler prior to initiating burning of coal.

B. Timely energization of the electrostatic precipitator as soon as this may be safely accomplished without damage or risk to personnel or equipment.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.1.9(c) and (g) and 7.1.10-2(a).

iv. As provided by 35 IAC 201.265, an authorization in a permit for excess emissions during startup does not shield a Permittee from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

c. Malfunction and Breakdown Provisions

Subject to the following terms and conditions, the Permittee is authorized to continue operation of an 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 212.203), and Condition 7.1.4(d) (35 IAC 216.121), in the event of a malfunction or breakdown of an affected boiler, including the coal pulverizer, the ash removal system, or the electrostatic precipitator (including flue gas conditioning). This authorization is provided pursuant to 35 IAC 201.149, 201.161, and 201.262 as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide essential service or to prevent injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. 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 to prevent injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

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, remove the affected boiler from service or undertake other action so that excess emissions cease.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.1.9(c) and (h), and 7.1.10-2(d) and 7.1.10-3(a). For these purposes, 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.

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.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

7.1.4 Applicable Emission Standards

a. The affected boilers 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 boilers.

b. i. The emissions of PM from the affected boiler 1 (CB1) shall not exceed 0.19 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.203. This standard applies because the affected boiler qualifies for the alternative standard provided by this rule, as recognized by the Illinois Pollution Control Board in Regulatory Proceeding R82-1. In particular, in accordance with 35 IAC 212.203(a), as of April 14, 1972, the affected boilers had an hourly emission rate based on the stricter of the original design or equipment performance test conditions that was less than 0.20 lb/mmBtu of actual heat input, i.e., 0.14 lb/mmBtu. Thereafter, under this rule, the emission rate is not allowed to degrade by more than 0.05 lb/mmBtu from the base emission rate, resulting in an emission standard of 0.19 lb/mmBtu.

ii. The emissions of PM from the affected boiler CB2 shall not exceed 0.15 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.203. This standard applies because the affected boiler qualifies for the alternative standard provided by this rule, as recognized by the Illinois Pollution Control Board in Regulatory Proceeding R82-1. In particular, in accordance with 35 IAC 212.203(a), as of April 14, 1972, the affected boiler had an hourly emission rate based on the stricter of the original design or equipment performance test conditions that was less than 0.20 lb/mmBtu of actual heat input, i.e., 0.10 lb/mmBtu. Thereafter, under this rule, the emission rate is not allowed to degrade by more than 0.05 lb/mmBtu from the base emission rate, resulting in an emission standard of 0.15 lb/mmBtu.

c. The total emission of SO_2 from the affected boilers combined shall not exceed 55,555 lb/hour, pursuant to 35 IAC 214.143, 214.182, and 214.184. These are the SO_2 emissions allowed by the following formula in 35 IAC 214.184, as selected by the Permittee:

$$E = 0.2222\ H^2$$

$$H = P_1H_1 + P_2H_2 + \ldots + P_nH_n$$

Where:

E = Total emissions of SO_2, in pounds per hour, from all fuel combustion emission units owned or operated by such person and located within 1 mile from the center point of any such unit.

P_i = Percentage of total emissions E emitted from emission unit i divided by 100. (Note: $P_1 + P_2 + ... + P_n = 1$)

H_i = Height in feet above grade of stack i. (Note: The height used may not exceed the good engineering practice [GEP] height for such stack. The actual height of the stacks for the affected boilers is 500 ft, but the GEP height is 213 ft.)

d. The emissions of CO from each affected boiler shall not to exceed 200 ppm, corrected to 50 percent excess air, pursuant to 35 IAC 216.121.

e. The affected boilers are subject a NOx emission standard pursuant to Section 407 of the Clean Air Act and 40 CFR Part 76, as addressed in Condition 6.2.2 and Attachment 5 of this permit.

f. The affected boilers are each subject to the following requirements related to NOx emissions pursuant to 35 IAC Part 217 Subpart V:

i. During each ozone control period (May 1 through September 30):

A. The emissions of NOx from an affected boiler shall not exceed 0.25 lb/mmBtu of actual heat input based on a ozone control period average for that unit, pursuant to 35 IAC 217.706(a), or

B. If the Permittee elects to participate in a NOx averaging plan, the emissions of NOx from the affected boiler and other eligible EGU that are participating in such NOx averaging demonstration shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period for the EGU participating in the demonstration, pursuant to 35 IAC 217.708(a) and (b). For this purpose, other eligible EGU include: (1) EGU at this source, which are also authorized by this permit to participate in a NOx averaging demonstration, and (2) other EGU that are authorized to participate in a NOx averaging plan by a CAAPP permit or other federally enforceable permit issued by the Illinois EPA to the owner or operator of those EGU.

Note: Given the emission determination methods specified by 35 IAC 217.710, the emissions of NOx for purposes of these standards are generally calculated in accordance with the federal Acid Rain Program and are different from the emissions determined for purposes of the NOx Trading Program.

ii. If the Permittee elects to have an affected boiler comply by participation in a NOx averaging demonstration as provided for and authorized above:

A. The affected boiler shall be included in only one NOx averaging demonstration during an ozone control period, pursuant to 35 IAC 217.708(d).

B. The NOx averaging demonstration shall only include other EGU that are authorized through a federally enforceable permit to participate in a NOx averaging demonstration and for which the owner or operator of the EGU maintains the required records, data and reports and submits copies of such records, data, and reports to the Illinois EPA upon request, pursuant to 35 IAC 217.708(c) and (g).

C. The effect of failure of the NOx averaging demonstration to show compliance shall be that the compliance status of the affected boiler shall be determined pursuant to Condition 7.1.4(f)(i)(A) as if the NOx emission rates of the affected boiler were not averaged with other EGU, pursuant to 35 IAC 217.708(g).

Note: The above requirements also apply as a matter of rule to EGUs other than an affected boiler if the owner or operator of such EGUs elects to participate in a NOx averaging demonstration.

7.1.5 Non-Applicability of Regulations of Concern

a. i. The Permittee is shielded from the following rules for the affected boilers when the boilers are 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.

A. 35 IAC 212. 207.

B. 35 IAC 214.162.

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, Condition 7.1.5(a)(ii)(A), below for PM, shall substitute for Condition 7.1.4(b) and Condition 7.1.5(a)(ii)(B), below for SO_2,

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 shall be 0.1 lb/mmBtu, pursuant to 35 IAC 212.206 and 212.207.

B. The emissions of SO_2 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 SO_2 standards for heat input from residual fuel oil and distillate fuel oil shall be 1.0 and 0.3 lb/mmBtu, respectively, pursuant to 35 IAC 214.161(a), 214.161(b), and 214.162.

iii. For the purpose of the above conditions, an 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 an 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. Pursuant to 35 IAC 201.403(a), the Permittee is not subject to the requirements of 35 IAC Part 201 Subpart L for opacity monitoring because the Permittee must conduct opacity monitoring on the affected boilers in accordance with the NSPS pursuant to the federal Acid Rain program.

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

a. As part of its operation and maintenance of the affected boilers, the Permittee shall perform formal "combustion evaluation" on each boiler on at least a quarterly basis, pursuant to Section 39.5(7)(d) of the Act. These evaluation shall consist of diagnostic measurements of the concentration of CO in the flue gas of the affected boiler, with adjustments and preventative and corrective measures for the boiler's combustion systems to maintain efficient combustion.

7.1.7 Testing Requirements

Pursuant to Section 39.5(7)(d)(ii) of the Act, the Permittee shall have the PM and CO emissions of each affected boiler measured as specified below:

a. i. PM emission measurements shall be made no later than one year after the effective date of this condition. (Measurements made after December 31, 2003 may satisfy this requirement.)

ii. PM emission measurements shall be made within 90 days of operating an affected boiler for more than 30 hours total in a calendar quarter at a load* that is more than 2 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).

* 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).

iii. Periodic PM emission measurements shall be made for the affected boilers 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)

A. If the compliance margin is less than 20 percent, within 15 months of the previous measurement.

B. If the compliance margin is between 20 and 40 percent, within 27 months of the previous measurement.

C. If the compliance margin is greater than 40 percent, within 39 months of the previous measurement.

iv. Measurements of CO emissions shall be made as follows:

A. In conjunction with the initial measurements of PM emissions as required above by Condition 7.1.7(a)(i) (unless this PM measurement is conducted prior to the issuance of this permit), if a measurement of CO emissions is not otherwise performed earlier in conjunction with a relative accuracy test audit (RATA) for SO_2 or NOx conducted under this permit.

B. In conjunction with each subsequent measurement of PM emissions made pursuant to Condition 7.1.7(a)(ii) or (iii) (or a RATA for SO_2 or NOx preceding such measurement), provided, however, that if measured CO emissions are no more than 100 ppm at 50 percent excess air, CO measurements need not be performed with the next PM measurement (or preceding RATA) but shall be performed with the second measurement of PM emissions following the measurement in which CO emissions were no more than 100 ppm (or a RATA preceding that PM measurement).

v. A. 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.

B. The Permittee shall conduct such measurements while firing the boiler with at least 1.25 times the greatest percentage of alternative fuel material or process waste in the calendar quarter that triggered the testing. This percentage at which testing shall be conducted shall not exceed that allowed by the maximum design

capacity of the alternative fuel handling system. 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.

C. 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.

vi. Measurements of PM and CO emissions shall be made within 90 days (or such later date set by the Illinois EPA) following a request by the Illinois EPA for such measurements.

b. i. These measurements shall be performed at the maximum operating loads of the affected boilers 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.

ii. Measurements shall be taken at an appropriate location in the stack associated with the affected boilers or another location in the exhaust ductwork of an individual boiler as approved by the Illinois EPA. If both boilers are operating, the boilers and their associated controls shall be operated in a similar manner while measurements are being performed, so that the results typify both boilers. If the operations of the affected boilers differ significantly, the Permittee may have to perform further measurements or separate measurements for each boiler at the request of the Illinois EPA, in accordance with Condition 7.1.7(a).

iii. 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 Methods 5 and 202*
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.

* Measurements of condensable PM are 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.

c. 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 testing service or 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.

   i. 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.

   ii. 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).

d. 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.

e. 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:

   i. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.

ii. A description of any minor deviations from the test plan, as provided by 35 IAC 283.230(a).

iii. Detailed description of operating conditions during testing, including:

A. Source(s) of fuel and specifications (ash, sulfur and heat content).

B. Boiler operating 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 (%), if a blend of fuels is burned.

C. Combustion system information, i.e., settings for distribution of primary and secondary combustion air, target level for O_2 in the flue gas, and levels of CO, CO_2 or O_2 in the flue gas, as determined by any diagnostic measurements.

D. Control equipment information, i.e., equipment condition and operating parameters during testing including any use of the flue gas conditioning system.

E. Load during testing (gross megawatt output and steam flow).

iv. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.

v. The SO_2 NOx, O_2 or CO_2, (hourly averages) and opacity data (6-minute averages) measured during testing.

7.1.8 Monitoring Requirements

a. Pursuant to 40 CFR 75.14 and Section 39.5(7)(d)(iii) of the Act, the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of opacity from the affected boilers. For this purpose, "shared" monitoring systems may be operated at locations in the stacks that are common to pairs of affected boilers.

i. The Permittee shall operate this equipment in accordance with the general provisions for opacity monitoring systems in 40 CFR 75.10.

ii. These monitors shall be the primary basis for reporting of exceedances of Condition 7.1.4(a). (See Condition 7.1.10-2(a) and 7.1.10-3(a).)

b. Pursuant to 40 CFR 75.11 and Section 39.5(7)(d)(iii) of the Act, the Permittee shall install, operate, calibrate and maintain a continuous emission monitoring system (CEMS) for the measurement of SO_2 emissions from the affected boilers.

i. This CEMS shall be used to demonstrate compliance with the limits in Condition 7.1.4(c) based on the average hourly SO_2 emission rate determined from monitored data from three-hour block averaging periods.

c. Pursuant to 40 CFR 75.12, 35 IAC 217.710(a), and Section 39.5(7)(d)(iii) of the Act, the Permittee, shall install, calibrate, maintain and operate a CEMS for the measurement of NOx emissions from the affected boilers, in accordance with the requirements of 40 CFR 75 Subpart B.

d. Pursuant to Section 412 of the Clean Air Act and 40 CFR Part 75, the source is required to operate continuous monitors for the affected boilers for various parameters, including SO_2, NOx, volumetric flow and opacity, along with a computerized data acquisition and handling system for collected data. (See also Condition 6.2.3) To the extent that applicable performance specifications and operating requirements for monitoring under 40 CFR Part 75 are inconsistent with the above requirements for monitoring, the procedures of 40 CFR Part 75 shall take precedence. (See also Condition 8.2)

7.1.9 Recordkeeping Requirements

a. Operational Records for the Affected Boilers

Pursuant to Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain the following operational records for the affected boilers:

i. A. Load (in terms of either gross megawatts output or steam flow) on an hourly basis for each affected boiler.

B. If the Permittee is relying on data for heat input for purposes of compliance with Condition 7.1.4(b) or (c) that is different from that recorded pursuant to the federal Acid Rain Program, records of heat input (mmBtu, on an hourly basis) or the conversion factors that the Permittee relies upon to convert from boiler load as recorded above to hourly heat input.

ii. Records for each day when an alternative fuel (i.e., a fuel material other than coal, gas or oil) was burned, including the estimated amount of each such material burned and the affected boiler(s) in which it was burned.

iii. Total operating hours (hours/quarter) for each affected boiler.

iv. A. Amount of coal consumed (tons/quarter).

B. Amount of each other fuel material consumed (tons, gallons, cubic feet per quarter, as appropriate).

v. A. Records of agreements with suppliers of alternative fuel(s), 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.

B. 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).

vi. An operating log, maintenance and repair log, or other records for each affected boiler documenting the performance of the combustion evaluation required by Condition 7.1.6(a), including the date of the evaluation, the concentrations of CO measured at the start and conclusion of the evaluation, and a description of adjustments and preventative and corrective measures undertaken for the combustion systems of the boiler.

b. Records for Control Equipment

Pursuant to Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain the following records for the air pollution control equipment on the affected boilers:

i. Maintenance and Repair Log

A maintenance and repair log for each control device, which shall list the activities performed, with date and description. (See also Condition 9.6.1, Control Equipment Maintenance Records.)

ii. Electrostatic Precipitators (ESP)

When an affected boiler is in operation:

A. The status of each ESP field shall be recorded at least once per shift.

B. The following numerical data shall be recorded at least once per day: (1) Primary voltages and currents, and (2) Secondary voltages and currents.

iii. Flue Gas Conditioning (FGC) Systems

A. Manufacture/vendor or Permittee developed operating and maintenance procedures.

B. Operating logs, including identification of conditioning agent and system settings.

Note: These logs only need to be maintained during periods when the Permittee operates these systems, which are operated at its discretion as needed to comply with applicable requirements.

iv. Selective Catalytic Reduction (SCR) Systems

A. Manufacture/vendor or Permittee developed operating and maintenance procedures.

B. Operating logs, including identification of system settings.

Note: These logs only need to be maintained during periods when the Permittee operates these systems, which are operated at its discretion as needed to comply with applicable requirements.

C. Usage of reagent (tons/month).

D. The maintenance and repair logs for the SCR systems shall also address activities related to the SCR catalyst, including addition or replacement of catalyst.

c. Records for Continuous Opacity Monitoring Systems

Pursuant to Section 39.5(7)(e) of the Act, the Permittee shall maintain records for the opacity monitoring system on each affected boilers required by Condition 7.1.8(a) that as a minimum shall include:

i. Operating records for each opacity monitoring system, including:

A. Opacity measurements.

B. Continuous monitoring system performance testing measurements.

C. Performance evaluations and other quality assurance/control activities.

D. Calibration checks.

E. Maintenance and adjustment performed.

F. Periods other than performance of quality assurance, calibration, and maintenance, as addressed above, when the monitor was inoperative, with reason.

G. Quarterly reports submitted in accordance with Condition 7.1.10-2(a) and (d).

ii. Records for the affected boiler that identify the upper bound of the 95% confidence interval (using a normal distribution and 1 minute averages) for opacity measurements from each boiler, 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 tests on the affected boiler. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).

iii. Records to address compliance with Conditions 7.1.4(a) and (b), including:

A. Each 6-minute period when the opacity was above the limitation of Condition 7.1.4(a) (30 percent opacity) with date, time, whether it occurred during startup, malfunction, breakdown, or shutdown, and further explanation of the incident.

B. Each hour when the measured opacity of an affected boiler was above the upper bound, 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 particulate matter emissions may have exceeded the limit of Condition 7.1.4(b), with explanation.

d. Records for Continuous SO_2 Monitoring Systems

Pursuant to Section 39.5(7)(e) of the Act, the Permittee shall maintain records for the SO_2 CEMS on each affected boiler required by Condition 7.1.8(b) that as a minimum shall include the following:

i. Operating records for each SO_2 CEMS, including:

A. SO_2 emission measurements.

B. Continuous monitoring system performance testing measurements.

C. Performance evaluations and other quality assurance /control activities.

D. Calibration checks.

E. Maintenance and adjustments performed.

F. Periods when the SO_2 CEMS was inoperative, with date, time and reason.

G. Data reduction information.

H. Quarterly reports submitted in accordance with Condition 7.1.10-2(a) and (b).

ii. Records to verify compliance with the limitation of Condition 7.1.4(c), including:

A. SO_2 emissions in the terms of the applicable standard (lb/mmBtu) from the affected boilers on an hourly basis, as derived from the data obtained by the SO_2 CEMS.

B. The date and time of any three-hour block averaging period when the total SO_2 emission rate, as recorded above, exceeded 55,555 lb/hour as allowed by Condition 7.1.4(c), with the calculated SO_2 emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Condition 7.1.4(c).

e. Records for Continuous NOx Monitoring

Pursuant to Section 39.5(7)(e) of the Act and 35 IAC 217.712(a), the Permittee shall maintain records for the NOx CEMS on each affected boiler required by Condition 7.1.8(c) in accordance with the applicable recordkeeping requirements of 40 CFR 75, as a minimum shall include the following:

i. Operating records for each NOx CEMS, including:

A. NOx emission measurements.

B. Continuous monitoring system performance testing measurements.

C. Performance evaluations and other quality assurance/control activities.

D. Calibration checks.

E. Maintenance and adjustments performed.

F. Periods when a NOx CEMS was inoperative, with date, time and reason.

G. Data reduction information.

H. Quarterly reports submitted in accordance with Condition 7.1.10-2(a) and (c).

f. Acid Rain Program

Records for the continuous emission monitoring required for each affected boiler by the Acid Rain Program should be kept by the source in accordance with 40 CFR Part 75, including the General Recordkeeping Provisions; the General Recordkeeping Provisions for Specific Situations, if applicable; and Certification, Quality Assurance and Quality Control Record Provisions. [See Condition 6.2.3]

g. Records for Startups

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain the following records related to startup of the affected boilers:

i. The Permittee's startup procedures for each affected boiler (as required by Condition 7.1.3(b)(ii)), accompanied by the Permittee's estimate of both total and excess opacity and emissions of PM and CO during typical startup(s) of each boiler, with supporting information and calculations.

ii. Records for each startup of an affected boiler that, at a minimum, include the following information:

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

B. The elapsed time from initial firing of auxiliary fuel to achievement of stable operation of the boiler with the principal fuel and with boiler systems and control devices operating to enable compliance with applicable standards for opacity and emissions of PM and CO.

C. If this elapsed time is more than 6 hours or if the Permittee's startup procedures are not followed:

I. A detailed explanation why startup of the boiler was not completed sooner or startup procedures were not followed.

II. Documentation for the startup procedures that were followed.

III. The elapsed time from initial firing of auxiliary fuel until firing of the principal fuel was begun.

IV. The flue gas temperature at which the ESP was energized, if coal was fired before the ESP was energized.

V. Estimates of the magnitude of emissions of PM and CO during the startup, including whether emissions may have exceeded any applicable hourly standard, as listed in Condition 7.1.4.

h. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain the following records related to malfunction and breakdown of the affected boilers:

i. Maintenance and repair log(s) for the affected boilers that, at a minimum, address aspects or components of the boilers for which malfunction or breakdown has resulted in excess emissions, which shall list the activities performed on such aspects or components, with date, description and reason for the activity. In addition, in the maintenance and repair log(s) for control equipment required by Condition 7.2.9(b)(i), the Permittee shall also list the reason for the activities that are performed.

ii. Records for each incident when operation of an affected boiler continued with excess emissions, including malfunction or breakdown as addressed by Condition 7.1.3(c) that, at a minimum, include the following information:

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

B. The corrective actions used to reduce the quantity of emissions and the duration of the incident.

C. 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).

D. If opacity exceeded the applicable standard for two or more hours or emissions exceeded or may have exceeded an applicable hourly standard, as listed in Condition 7.1.4, during the incident:

I. A detailed explanation why continued operation of the affected boiler was necessary.

II. The preventative measures that have been or will be taken to prevent similar incidents or reduce their frequency and severity, including any repairs to the affected boilers and associated equipment and any changes to operating and maintenance procedures.

III. Estimates of the magnitude of emissions of PM and CO during the incident, as emissions may have exceeded the applicable hourly standard.

7.1.10-1 Reporting Requirements – Reporting of Deviations

a. Prompt Reporting of Deviations

For each affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. At a minimum, such notifications shall include a description of such deviations, including whether they occurred during startup or malfunction/breakdown, and a discussion of the possible cause of such deviations, any corrective actions and any preventative measures taken. [Section 39.5(7)(f)(ii) of the Act]

i. Notification and reporting as specified in Condition 7.1.10-3(a) for certain deviations from the PM limit in Condition 7.1.4(b).

ii. Notification and reporting as specified in Condition 7.1.10-3(a) for certain deviations from the opacity limit in Condition 7.1.4(a).

iii. Notification with the reports required by Conditions 7.1.10-2(b), (c), (d) and (e) for deviations from Condition 7.1.4(a), (b), (c) and (f).

iv. Notification in the quarterly reports required by Condition 7.1.10-1(b)(ii) for deviations not addressed above by Condition 7.1.10-1(a)(i), (ii) or (iii), including deviations from other applicable requirements, e.g., the applicable CO emission standard, emission monitoring requirements, and recordkeeping requirements.

b. Periodic Reporting of Deviations

The quarterly reports required by Condition 7.1.10-2(a) shall include the following information for the affected boilers related to deviations from permit requirements during the quarter: [Section 39.5(7)(f)(i) of the Act]

i. A listing of all instances of deviations that have been reported in writing to the Illinois EPA, as provided by Condition 7.1.10-1(a)(i) and (ii), including identification of each such written notification or report. For this purpose, the Permittee need not resubmit copies of these previous notifications or reports but may elect to supplement such material.

ii. Detailed information for all other deviations not addressed in the above listing above, as required by Condition 7.1.10-1(a)(iii) or (iv).

7.1.10-2 Reporting Requirements – Periodic Reporting

a. Quarterly Reports

In place of the semi-annual monitoring reports otherwise required by Condition 8.6.1, the Permittee shall submit quarterly reports to the Illinois EPA pursuant to Sections 39.5(7)(a) and (f) of the Act.

i. These reports shall include the following information for operation of each affected boiler during the quarter:

A. The total operating hours for each affected boiler, as also reported in accordance with 40 CFR Part 75.

B. The greatest load achieved by each affected boiler (steam flow or gross megawatts).

C. A discussion of significant changes in the fuel supply to the affected boilers, 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. A list of the startups of each affected boiler, including the date, duration and description of each startup, accompanied by a copy of the records pursuant to Condition 7.1.9(g)(ii)(C) for each startup for which such records were required.

E. A copy of the records required by Condition 7.1.9(c)(iii)(B) identifying the date and time that the upper bound, as specified above in Condition 7.1.9(c)(ii), was exceeded, with operating condition if startup, malfunction, breakdown, or shutdown; with further explanation of the incident and whether particulate matter emissions may have exceeded the PM limit.

ii. These reports shall include the information for SO_2, NOx, and PM emissions and opacity from each affected boiler during the quarter and the operation of required continuous opacity and emission monitoring systems specified by Conditions 7.1.10-2(b), (c) and (d).

iii. A. These reports shall be submitted 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 SO_2 Emissions

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

i. Summary information on the performance of the SO_2 CEMS, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the SO_2 CEMS was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.

ii. If specifically requested by the Illinois EPA or the CEMS downtime was more than 5 percent of the total operating time for the affected boiler: the date and time identifying each period during which the CEMS was inoperative except for zero and span checks, and the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with 40 CFR Part 75, i.e., the dates and results of the Linearity Test(s) and any Relative Accuracy Test Audit(s) during the quarter, a listing of any days when a required daily calibration was not performed, and the date and duration of any periods when the CEMS was out-of-control as addressed by 40 CFR 75.24.

iii. The following information for each period when SO_2 emissions were in excess of the limitation in Condition 7.1.4(c)*. When there were no such exceedances, this shall be stated in the report.

A. The starting date and time of the SO_2 excess emissions.

B. The duration of the excess emissions.

C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.1.9(d)(ii), including the measured emission rate.

D. A detailed explanation of the cause of the excess emissions.

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

* For the purpose of reporting excess SO_2 emissions, the averaging period is a three-hour block average, as used to determine compliance with the limitations of Condition 7.1.4(c). The records for excess emissions shall consist of three-hour block emission averages during which the limitation was exceeded.

c. Reporting of NOx Emissions

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

i. Summary information on the performance of the NOx CEMS, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the NOx CEMS was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.

ii. If specifically requested by the Illinois EPA or the CEMS downtime was more than 5 percent of the total operating time for the affected boiler: the date and time identifying each period during which the CEMS was inoperative except for zero and span checks, and the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with 40 CFR Part 75, i.e., the dates and results of the Linearity Test(s) and any Relative Accuracy Test Audit(s) during the quarter, a listing of any days when a required daily calibration was not performed, and the date and duration of any periods when the CEMS was out-of-control as addressed by 40 CFR 75.24.

d. Reporting of Opacity and PM Emissions

Pursuant to Sections 39.5(7)(a) and (f) of the Act, the Permittee shall report the following information for each affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.1.10-2(a):

i. Summary information on the performance of the opacity monitoring system and excess emissions, as required for a "Summary Report" in accordance with 40 CFR 60.7(d). When no excess opacity occurred or the continuous opacity 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 opacity monitoring system, including the dates and times of any periods during which it was inoperative, if requested by the Illinois EPA or the opacity monitoring system downtime was more than 5 percent of the total operating time for an affected boiler during the quarter.

iii. The following information for each period when opacity was in excess of the limitations in Condition 7.1.4(a).

A. The starting dates and time of the exceedance.

B. The duration of the excess opacity.

C. The magnitude of excess opacity, based on six minute average opacity, including:

I. The percent opacity for each six-minute period.

II. The start and stop time of each six-minute period in excess of the limitation.

D. A detailed explanation of the cause of excess opacity, if known, including whether such excess opacity occurred during startup, malfunction or breakdown of the boiler.

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

F. Identification of the previous report for the incident 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.

G. A summary of the records required by Condition 7.1.9(h)(ii) for incidents when operation of an affected boiler continued during malfunction or breakdown with excess emissions that are not addressed by individual reports submitted pursuant to Condition 7.1.10-3(a)(ii).

Note: Because the Permittee is subject to the reporting requirements of the NSPS, 40 CFR 60.7(c) and (d) for an affected boiler for opacity, pursuant to the federal Acid Rain program, as included above, the Permittee is not subject to reporting pursuant to 35 IAC 201.405 (35 IAC 201.403(a)).

iv. The following information for periods when PM emissions were in excess of the limitations 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 each 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 percent opacity measured for each six-minute period during the exceedance.

V. The means by which the exceedance was indicated or identified, in addition to the level of opacity.

VI. A detailed explanation of the cause of the exceedance, including whether the exceedance occurred during startup, malfunction or breakdown.

VII. A detailed explanation of 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.

v. The following summary information related to opacity and PM exceedances:

A. Further information for each type of recurring opacity exceedance that occurred during the quarter, including: a discussion of any circumstances or events during the quarter that generally affected the number or magnitude of such exceedances; a discussion of any additional understanding of the causes for such exceedances gained during the quarter, including the role of component failure or degradation, maintenance practices, and operating procedures; a general discussion of the effectiveness of the corrective actions that were taken in response to such exceedances; and a general discussion of further actions that are being considered to address such exceedances.

B. Further information for any new type(s) of opacity exceedances that occurred during the quarter including: a general narrative description for the type(s) of exceedance; a general explanation of the cause(s) for such exceedances, including the role of component failure or degradation, maintenance practices, and operating procedures; a detailed explanation of the corrective actions that have been taken for such exceedances, including the reasons that the selected actions were

taken, the effectiveness of those actions, and the likelihood of future occurrence of similar exceedances; and a general discussion of possible further actions that could be taken to address such exceedances. For this purpose, new type(s) of exceedance are ones that have not been addressed in the preceding four quarterly opacity reports.

C. Other information relevant to generally explaining the number and magnitude of opacity and PM exceedances during the quarter, e.g., a further discussion of specific events or circumstances that occurred that affected the number of magnitude or exceedances during the quarter.

D. Information describing actions taken during the quarter that should generally act to significantly reduce the number or magnitude of future opacity or PM exceedances, e.g., a summary of relevant upgrades or replacements of components that were completed, with a description of such actions, an explanation of their relationship to exceedances, and a discussion of their anticipated effect on future exceedances.

vi. A glossary of common technical terms used by the Permittee in its reports pursuant to this Condition 7.1.10-2(d), including the definitions for the categories used by the Permittee to classify exceedance events.

e. Reporting of NOx Emissions for the Ozone Control Period

The Permittee shall submit a report to the Illinois EPA by November 30 of each year that demonstrates whether the affected boiler has complied with Condition 7.1.4(f), pursuant to 35 IAC 217.712(d) and (e).

i. If the Permittee is demonstrating compliance on a unit-specific basis with Condition 7.1.4(f)(i)(A), this report shall contain the information specified by 35 IAC 217.712(d) including the heat input and NOx emissions of the unit for the ozone control period.

ii. If the Permittee is demonstrating compliance by means of "NOx averaging" as authorized by Condition 7.1.4(f)(ii)(B), this report shall contain the information specified by 35 IAC 217.712(e) and other related information as follows:

A. In all cases, for each affected boiler or unit covered by this permit that is participating in the NOx averaging demonstration, the Permittee shall report the following:

I. Identification of the other EGU that are participating in the demonstration, including identification of the source that is the lead party for the demonstration and that is also taking responsibility for submitting the information required by Condition 7.1.10-2(e)(ii)(B) below.

II. A statement confirming that the unit is eligible to participate in an averaging demonstration, i.e., the unit is included in only one demonstration [35 IAC 217.708(d)] and the Permittee is complying with applicable recordkeeping and reporting requirements for the unit, pursuant to 35 IAC 217.708(c) and (g).

III. The average NOx emission rate for the unit, with calculations and supporting information, as required by 35 IAC 217.712(e)(2) and (3), including the heat input and NOx emissions of the unit for the ozone control period.

IV. A statement whether the unit would show compliance on its own in the absence of averaging.

B. If the Permittee is the lead party for a NOx averaging demonstration, the Permittee shall report the following:

I. Copies of the information submitted by other parties for the EGU participating in the demonstration, which include all material required by Condition 7.1.10-2(e)(ii)(A) above (unless or except as this information is provided with the submittal by a person who is a responsible official for the EGU participating in the demonstration).

II. The averaged NOx emission rate for all EGU participating in the demonstration, with complete supporting calculations, as required by 35 IAC 217.712(e)(1).

III. A statement whether the demonstration shows compliance.

f. Submittal of Supplemental Information Related to NOx Emissions during the Ozone Control Period

The Permittee shall submit copies of any records and data required by 35 IAC 217.712 to the Illinois EPA within 30 days after receipt of a written request by the Illinois EPA. [35 IAC 217.712(g)]

g. Acid Rain Program Reporting

Pursuant to Section 412 of the Clean Air Act and 40 CFR Parts 72 and 75, the source is subject to the reporting requirements of 40 CFR Part 75, which includes General Provisions; Notifications; Initial Certification or Recertification Application; Quarterly Reports; and Opacity Reports. [See Condition 6.2.3] Pursuant to Section 39.5(17)(m) of the Act, the designated representative of the source must concurrently submit to the Illinois EPA in the same electronic format specified by the USEPA, the data and information submitted to USEPA on a quarterly basis pursuant to 40 CFR 75.64.

7.1.10-3 Reporting Requirements – Notifications

a. Reporting of Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (f) 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 an affected boiler continued with excess emissions, including continued operation during malfunction or breakdown 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 an affected boiler.

i. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) for each incident in which the applicable PM emissions standard (Condition 7.1.4(b)) could be exceeded or in which the opacity from an affected boiler exceeds 30 percent for five or more 6-minute averaging periods unless the Permittee has begun the shutdown of an affected boiler by such time. (Otherwise, as related to opacity, if opacity during an incident only exceeds 30 percent for no more than five six 6-minute averaging periods, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-1(a)(iii) and (d).)

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 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 incident and its cause(s); an explanation why continued operation of an 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 each affected boiler without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7)(a) and (l) 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, as applicable, 40 CFR 52.21(a)(2) or 35 IAC 203.207; 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 boilers, and that such materials do not make up more than 10 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 Part 739.

7.1.12 Compliance Procedures

a. i. Compliance with the opacity limitation of Condition and 7.1.4(a) (30 percent opacity) is addressed by the average opacity calculated from 6-minute periods of opacity measurements from the continuous opacity monitoring system operated in accordance with the requirements of Condition 7.1.8(a) and the recordkeeping requirements of Condition 7.1.9.

ii. Notwithstanding Condition 7.1.12(a)(i) above, should the Permittee choose to rely on 35 IAC 212.123(b) to allow opacity greater than 30 percent (6-minute average) from an affected boiler, the Permittee shall do the following:

A. Maintain records for each affected boiler of short-term opacity data, that is, either a continuous chart recording of measured opacity, a record of discrete measurements of opacity taken no more than 10 seconds apart, or a record of 1-minute average opacity data determined from six or more data points equally spaced during each minute period, to determine whether opacity from the boiler exceeded 30 percent opacity.

B. Have the capability to review such short-term opacity data for each affected boiler to identify:

I. Any hour in which opacity exceeded 30 percent, and then, for such hour: (1) the duration of opacity in excess of 30 percent; (2) whether opacity ever exceeded 60 percent; and (3) whether the duration of opacity in excess of 30 percent was more than 8 minutes in aggregate.

II. For each affected boiler, whether opacity in excess of 30 percent occurred in more than three hours in a 24-hour period.

C. For other emission units at the source, have the ability to review short-term opacity data representative of such units during hours in which the opacity of the affected boiler on a short-term basis may exceed 30 percent, to confirm that the opacity of any other unit at the source did not exceed 30 percent in any minute during an hour in which the short-term opacity of the affected boiler may have exceeded 30 percent.

D. In the reports required by Condition 7.1.10-2(d), confirm that the relevant short-term opacity data, reviewed as above, shows that the terms of 35 IAC 212.123(b) are satisfied, when 35 IAC 212.123(b) is relied upon as the basis to claim that an affected boiler did not violate Condition 7.1.4(a) even though opacity on a 6-minute average exceeded 30 percent.

E. Notify the Illinois EPA at least 15 days prior to changing its procedures associated with reliance on 35 IAC 212.123(b), to allow the Illinois EPA to review the new recordkeeping and data handling practices planned by the Permittee.

b. Compliance with PM emission limits of Condition 7.1.4(b) is addressed by continuous opacity monitoring in accordance with Condition 7.1.8(a), PM testing in accordance with Condition 7.1.7, and the recordkeeping required by Condition 7.1.9.

c. Compliance with the SO_2 emission limit of Condition 7.1.4(c) is addressed by continuous emission monitoring in accordance with Condition 7.1.8(b) and the recordkeeping required by Condition 7.1.9(c).

d. Compliance with the CO emission limitation of Condition 7.1.4(d) is addressed by the required work practices in Condition 7.1.6(a), emission testing in accordance with Condition 7.1.7 and the recordkeeping required by Condition 7.1.9.

e. Compliance with NOx emission limit of Condition 7.1.4(f) is addressed by the continuous emissions monitoring required by Condition 7.1.8(c) and the recordkeeping required by Condition 7.1.9(d).

f. Compliance with the work practices required by Condition 7.1.6(a) is addressed by the recordkeeping required by Condition 7.1.9.

Note: This condition is included in this permit pursuant to Section 39.5(7)(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 railcar and 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, application of dust suppressant to the coal, enclosures and covers, and dust collection devices.

7.2.2 List of Emission Units and Air Pollution Control Equipment

<u>Coal Receiving Operations</u>

Railcar Unloading
Truck Unloading
Coal Transfer Conveyors
Dust Suppressant Application System, Dust Collection Devices, Enclosures and Covers

<u>Coal Transfer Operations</u>

Coal Transfer Conveyors
Dust Suppressant Application System, Enclosures and Covers
Surge Bins

<u>Coal Storage Operations</u>

Outdoor Storage Piles
Coal Transfer Conveyors
Surge Bin
Coal Storage Silos
Lowering Well
Dust Suppressant Application System, Enclosures and Covers

7.2.3 Applicability Provisions

a. i. The "affected operations" for the purpose of these unit-specific conditions, are the 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.

ii. Certain affected operations, as follows, for which construction or modification commenced after October 24, 1974 may also be "affected

facilities" for purposes of the New Source Performance Standards (NSPS) for Coal Preparation Plants, 40 CFR 60 Subpart Y, pursuant to 40 CFR 60.250(a) and 60.251. This is because this source processes more than 200 tons per day of coal by breaking or crushing, as addressed by Section 7.3 of this permit. These "affected facilities" are subject to applicable requirements of the NSPS, 40 CFR 60 Subpart Y and related requirements in the NSPS, 40 CFR 60 Subpart A, General Provisions.

A. Coal conveying equipment, i.e., equipment used to convey coal to or remove coal from machinery used to reduce the size of coal.

B. Coal storage systems, i.e., any facility used to store coal except for open storage piles.

b. Subject to the following terms and conditions, the Permittee is authorized to continue operation of an affected operation in violation of the applicable requirements of Condition 7.2.4(b) (35 IAC 212.123) in the event of a malfunction or breakdown of an affected operation. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262 as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide essential service, prevent injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. 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 related to the operation of the coal-fired boilers as necessary to provide essential service or to prevent injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected operation, remove the affected operation from service or undertake other action so that excess emissions cease.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.2.9(f) and 7.2.10(b). For these purposes, 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 affected operation out of service.

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.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

7.2.4 Applicable Emission Standards

a. The affected operations shall comply with the standard in Condition 5.2.2(a), which addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, from the affected operations, pursuant to 35 IAC 212.301.

b. The affected operations shall comply with the standard, i.e., 30 percent opacity, in Condition 5.2.2(b), which addresses the opacity of the emission of smoke or other particulate matter from the affected operations, pursuant to 35 IAC 212.123.

c. The affected operations that are subject to the NSPS, 40 CFR 60 Subpart Y, surge bin, shall not exhibit 20 percent opacity or greater into the atmosphere, pursuant to 40 CFR 60.252(c), except during periods of startup, shutdown and malfunction, as defined in 40 CFR 60.2, pursuant to 40 CFR 60.11(c) and 60.252(c).

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 and 7.2.6(b), 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 the records required by Condition 7.2.9(b).

iii. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected operation in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or the USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source [40 CFR 60.11(d)].

b. The PM emissions from the surge bin shall not exceed 0.32 lbs/hr and 1.4 tons/yr. Compliance with this annual limitation shall be determined from a running total of 12 months of data, that is, from the sum of the data for each month plus the preceding 11 months (12 month total). [T1]

Note: The above limitations were established in Permit 01090039.

7.2.7 Opacity Testing Requirements

a. i. The Permittee shall have the opacity of the emissions 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)(d) of the Act.

A. For each affected operation, testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the effective date of this Condition 7.2.7(a).

B. 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 that are in routine service shall be inspected at least once during each calendar month. [Sections 39.5(7)(a) and (d) of the Act]

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

7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following pursuant to Sections 39.5(7)(a) and (e) of the Act:

a. The Permittee shall keep the following file(s) and log(s):

i. File(s) containing the following information for the affected operations, with supporting information, which information shall be kept up to date:

A. Information related to the dust collection equipment associated with the affected operations, including design control efficiency or performance specifications and maximum design particulate matter emissions, gr/dscf.

B. The maximum operating capacity of each affected operation, (ton/hr).

C. A list identifying any affected coal conveying equipment or coal storage systems that the Permittee does not consider to be an "affected facility" for purposes of the NSPS, with copies of supporting documentation. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).

ii. Maintenance and repair log(s) for the air pollution control equipment associated with the affected operations, including dust suppressant application systems, which log(s) shall list the activities performed on each

item of equipment or system, with date and description. (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 currently being implemented for different affected operations pursuant to Condition 7.2.6(a). These control measures, as defined by the Permittee through these records, are referred to as the "established control measures" in this subsection of the CAAPP permit.

ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established control measures are sufficient to assure compliance with the emission limitations in Condition 7.2.6(b) (lb/hr and ton/yr), 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 7.2.9(a)(i)(A), 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 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 the inspections required by Condition 7.2.8(a) for each affected operation:

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.

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 the observed implementation or status of actual control measures, as 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 any applicable emission standards as listed in Condition 7.2.4 or the PM emission limitations in Condition 7.2.6(b) may have been violated during the incident, with an estimate of the amount of any additional or excess PM emissions (lbs) from the incident with supporting explanation.

f. Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain records, related to malfunction and breakdown for affected operations that as a minimum, shall include:

i. Maintenance and repair log(s) for the affected operations that, at a minimum, address aspects or components of such operations for which malfunction or breakdown has resulted in excess emissions, which shall list the activities performed on such aspects or components, with date, description and reason for the activity. In addition, in the maintenance and repair log(s) for control equipment required by Condition 7.2.9(a)(ii), the Permittee shall also list the reason for the activities that are performed.

ii. Records for each incident when operation of an affected process continued during malfunction or breakdown, including continued operation with excess emissions as addressed by Condition 7.2.3(b) that include the following information:

A. Date and duration of malfunction or breakdown.

B. A description of the malfunction or breakdown.

C. The corrective actions used to reduce the quantity of emissions and the duration of the incident.

D. Confirmation of fulfillment of the requirements of Condition 7.2.10(b)(i), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.2.10(b)(i)(B).

E. If excess emissions occurred for two or more hours:

I. A detailed explanation why continued operation of the affected operation was necessary.

II. The preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.

III. An estimate of the magnitude of excess emissions occurring during the incident.

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 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 7.2.7, 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.

h. To demonstrate compliance with Condition 7.2.6(b), the Permittee shall keep records of PM emissions (tons/year) from the surge bin, based on the above records, with supporting calculations.

7.2.10 Reporting Requirements

a. Reporting of Deviations

The Permittee shall promptly notify the Illinois EPA of deviations from permit requirements for affected operations, 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. Notification and reporting as specified in Condition 7.2.10(b) for certain deviations from Condition 7.2.4(b).

ii. Notification within 30 days for operation of an affected operation that was not in compliance with 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 7.2.10(b)(ii) for other deviations, 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 prior notifications and reports for such deviations.

b. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (f) of the Act, the Permittee shall provide the following notifications and reports to the Illinois EPA, concerning incidents when operation of affected operation(s) continued with excess emissions, including continued operation during malfunction and breakdown as addressed by Condition 7.2.3(b).

i. A. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) for each incident in which the opacity from an affected operation exceeds or may have exceeded the applicable opacity standard for five or more 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded the applicable standard for no more than five consecutive 6-minute averaging periods, the Permittee need only report the incident in accordance with Condition 7.2.10(b)(ii).

B. Upon conclusion of each incident that is two hours or more in duration, 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 incident and its cause(s), 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 the affected operation was taken out of service.

ii. The Permittee shall submit quarterly reports to the Illinois EPA that include the following information for incidents during the quarter in which affected operations continued to operate during malfunction or breakdown with excess emissions. These reports shall be submitted with the quarterly reports submitted for the coal-fired boiler pursuant to Condition 7.1.10-2(a).

A. A listing of such incidents, in chronological order, that includes: (1) the date, time, and duration of each incident, (2) the identity of the affected operation(s) involved in the incident, and (3) whether a follow-up notice was submitted for the incident pursuant to Condition 7.2.10(b)(i)(B), with the date of the notice.

B. The detailed information for each such incident required pursuant to Condition 7.2.10(a) (as each incident constitutes a deviation) and Condition 7.2.10(b)(i)(B). For this purpose, the Permittee need not resubmit information provided in a prior report for an incident, as identified above, but may elect to supplement the prior submittal.

C. The aggregate duration of all incidents during the quarter.

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

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 39.5(7)(a) and (l) 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.

7.2.12 Compliance Procedures

a. Compliance with Condition 7.2.4is 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(a), 7.2.8, and 7.2.9, respectively.

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

Note: This condition is included in this permit pursuant to Section 39.5(7)(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 boilers 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, application of dust suppressant to the coal, enclosures and covers, and dust collection devices.

7.3.2 List of Emission Units and Air Pollution Control Equipment

The following is a list of the coal processing equipment and associated control systems at the source.

Emission Unit	Description	Emission Control Equipment
Crusher House	Coal Crushing Operation	Enclosures, Covers and Dust Suppressant Application System

7.3.3 Applicability Provisions

a. i. 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.

ii. The affected processes are also "affected facilities" for purposes of the New Source Performance Standards (NSPS) for Coal Preparation Plants, 40 CFR 60 Subpart Y, pursuant to 40 CFR 60.250(a) and 60.251. This is because this source processes more than 200 tons per day of coal by breaking or crushing. As affected facilities, the affected processes are subject to applicable requirements of the NSPS, 40 CFR 60 Subpart Y and related requirements in the NSPS, 40 CFR 60 Subpart A, General Provisions.

A. Coal processing equipment, i.e., machinery used to reduce the size of coal or to separate coal from refuse.

b. Subject to the following terms and conditions, the Permittee is authorized to continue operation of an affected process in violation of the applicable requirements of Condition 7.3.4(b) and Condition 7.3.4(c) in the event of a malfunction or breakdown of an affected process. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide

essential service or to prevent injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. 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 related to the operation of the coal-fired boilers as necessary to provide essential service or to prevent injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected process, remove the affected process from service or undertake other action so that excess emissions cease.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.3.9(f) and 7.3.10(b). For these purposes, 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 affected process out of service.

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.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

7.3.4 Applicable Emission Standards

a. The affected processes shall comply with the standard in Condition 5.2.2(a), which addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, from the affected processes, pursuant to 35 IAC 212.301.

b. The affected processes shall comply with the standard in Condition 5.2.2(b), i.e., 30 percent opacity, which addresses the opacity of the emission of smoke or other particulate matter from the affected processes, pursuant to 35 IAC 212.123.

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

d. The affected processes that are also affected facilities subject to the NSPS, 40 CFR 60 Subpart Y, shall not exhibit 20 percent opacity or greater into the atmosphere, except during periods of startup, shutdown and malfunction, as defined in 40 CFR 60.2, pursuant to 40 CFR 60.11(c) and 60.252(c).

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 and requirements in Conditions 7.3.4 and 7.3.6(b), 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 the records required in Condition 7.3.9(b)(i).

iii. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate each affected process that is subject to the NSPS in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Illinois EPA or the USEPA which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [40 CFR 60.11(d)]

b. i. The material throughput of the affected processes shall not exceed 1350 tons/hour. [T1]

ii. The PM emissions from the affected processes shall not exceed the following limits. Compliance with this annual limit shall be determined from a running total of 12 months of data, that is from the sum of the data for each month plus the preceding 11 months (12 month total). [T1]

Lbs/Ton	Lbs/Hour	Tons/Year
0.02	2.7	11.8

Note: The above limits were established in Permit 01040033.

7.3.7 Opacity and Emission Testing Requirements

a. i. The Permittee shall have the opacity of the emissions 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)(d) of the Act.

A. For each affected process, testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the effective date of this Condition 7.3.7(a).

B. 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. Within 90 days of a written request from the Illinois EPA, the Permittee shall have the PM emissions at the stacks or vents of the affected processes, as specified in such request, measured during representative operating conditions, as set forth below, pursuant to Section 39.5(7)(d) of the Act.

ii. A. Testing shall be conducted using appropriate USEPA Reference Test Methods, including Method 5 for PM emissions.

B. Compliance may be determined from the average of three valid test runs, subject to the limitations and conditions contained in 35 IAC Part 283.

iii. The Permittee shall submit a test plan to the Illinois EPA at least 60 days prior to testing, which plan shall include the information specified by Condition 8.6.2.

iv. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of 30 days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual date of the test. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notification if it interferes with the Illinois EPA's ability to observe the testing.

v. The Permittee shall expeditiously submit complete Final Report(s) for required emission testing to the Illinois EPA, no later than 90 days after the date of testing. These reports shall include the information specified in Condition 8.6.3 and the following information:

A. A summary of results.

B. Detailed description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.

C. Detailed description of the operating conditions of the affected process during testing, including operating rate (tons/hr) and the control measures being used.

D. Detailed data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.

E. Representative opacity data (6-minute average) measured during testing.

7.3.8 Inspection Requirements

a. The Permittee shall perform inspections of each affected process on at least a weekly 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. [Sections 39.5(7)(a) and (d) of the Act]

b. The Permittee shall perform detailed inspections of the dust collection equipment for the affected processes 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 [Sections 39.5(7)(a) and (d) of the Act].

7.3.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected processes, pursuant to Sections 39.5(7)(a) and (e) of the Act:

a. The Permittee shall keep the following file(s) and log(s):

i. File(s) containing the following information for the affected processes, with supporting information, which information shall be kept up to date.

A. Information related to the dust collection equipment associated with the affected processes, including the design control efficiency or performance specifications and maximum design particulate matter emissions, gr/dscf.

B. The maximum operating capacity of each affected process (ton/hour).

ii. Maintenance and repair log(s) for the air pollution control equipment associated with the affected processes, including dust suppressant application systems, which log(s) shall list the activities performed on each item of equipment or system, with date and description. (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 currently being implemented for the affected processes pursuant to Condition

7.3.6(a). These control measures, as defined by the Permittee through these records, are referred to as the "established control measures" in this section of this permit.

ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established control measures are sufficient to assure compliance with Conditions 7.3.4(c) at the maximum process weight rate (tons coal/hour) at which each affected process can be operated and with the limits (lb/ton, lb/hr, and tons/yr) in Condition 7.3.6(b), 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 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 a record of the amount of coal and other solid fuels processed by the affected processes (tons/month and tons/year).

d. The Permittee shall maintain records of the following for the inspections required by Condition 7.3.8:

i. For the inspections required by Condition 7.3.8(a) for each affected process:

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 process, including the presence of any visible emissions.

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 the observed implementation or status of actual control measures, as compared to the established control measures.

ii. For the inspections required by Condition 7.3.8(b) for the dust collection equipment for affected processes:

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 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 any applicable emission standards, as listed in Condition 7.3.4 or the PM emission limits (lb/ton or lb/hr) in Condition 7.3.6(b) may have been violated during the incident, with an estimate of the amount of any excess PM emissions (lbs) and supporting explanation.

f. Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain records, related to malfunction and breakdown for an affected processes that as a minimum, shall include:

i. Maintenance and repair log(s) for the affected processes that, at a minimum, address aspects or components of such processes for which malfunction or breakdown has resulted in excess emissions, which shall list the activities performed on such aspects or components, with date, description and reason for the activity. In addition, in the maintenance and repair log(s) for control equipment required by Condition 7.3.9(a)(ii), the Permittee shall also list the reason for the activities that are performed.

ii. Records for each incident when operation of an affected process continued during malfunction or breakdown, including continued operation with excess emissions as addressed by Condition 7.3.3(b), that at a minimum, include the following information:

A. Date and duration of malfunction or breakdown.

B. A description of the malfunction or breakdown.

C. The corrective actions used to reduce the quantity of emissions and the duration of the incident.

D. Confirmation of fulfillment of the requirements of Condition 7.3.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.3.10(b)(ii).

E. If excess emissions occurred for two or more hours:

I. A detailed explanation why continued operation of the affected process was necessary.

II. A detailed explanation of the preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.

III. An estimate of the magnitude of excess emissions occurring during the incident.

g. The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected processes 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 7.3.7(a), 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.

h. To demonstrate compliance with Condition 7.3.6(b), the Permittee shall keep records for PM emissions of the affected processes (tons/year), based on the above records, with supporting calculations.

7.3.10 Reporting Requirements

a. Reporting of Deviations

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

i. Notification and reporting as specified in Condition 7.3.10(b)(i) for certain deviations from Condition 7.3.4(b).

ii. Notification within 30 days for operation of an affected process that was not in compliance with applicable requirements in Condition 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 7.3.10(b)(ii) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.

B. With these reports, 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 prior notifications and reports for such deviations.

b. Reporting of Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (f) of the Act, the Permittee shall provide the following notifications and reports to the Illinois EPA for incidents when operation of affected process(es) continued with excess emissions, including continued operation during malfunction or breakdown as addressed by Condition 7.3.3(b).

i. A. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) during normal working hours for each incident in which the opacity from an affected process exceeds or may have exceeded the applicable opacity standard for five or more 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded the applicable standard for no more than five 6-minute averaging periods, the Permittee need only report the incident in accordance with Condition 7.3.10(b)(ii).

B. Upon conclusion of each incident that is two hours or more in duration, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed description of the incident and its cause(s), 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 the affected process was taken out of service.

ii. The Permittee shall submit quarterly reports to the Illinois EPA that include the following information for incidents during the quarter in which affected processes continued to operate during malfunction or breakdown with excess emissions. These reports shall be submitted with the quarterly reports submitted for the coal-fired boiler pursuant to Condition 7.1.10-2(a).

A. A listing of such incidents, in chronological order, that includes: (1) the date, time, and duration of each incident, (2) the identity of the affected process(es) involved in the incident, and (3) whether a follow-up notice was submitted for the incident pursuant to Condition 7.3.10(b)(i)(B), with the date of the notice.

B. The detailed information for each such incident required pursuant to Condition 7.3.10(a) (as each incident constitutes a deviation) and Condition 7.3.10(b)(i)(B). For this purpose, the Permittee need not resubmit information provided in a prior report for an incident, as identified above, but may elect to supplement the prior submittal.

C. The aggregate duration of all incidents during the quarter.

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

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 39.5(7)(a) and (l) 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 Condition 7.3.4 is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.3.6(a), 7.3.7, 7.3.8, and 7.3.9, respectively.

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

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

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

7.4 Fly Ash Equipment

7.4.1 Description

The Permittee operates a dry fly ash removal system that handles and stores fly ash collected at the coal-fired boilers. Associated particulate matter (PM) emissions are controlled by various control measures including enclosures and covers, and dust collection devices.

7.4.2 List of Emission Units and Air Pollution Control Equipment

The following is a list of the fly ash equipment and associated emission control systems at the source:

Emission Unit Description	Emission Control Equipment
Dry Fly Ash Handling and Conveying System (FHS)	Dust Collection Devices, Enclosures and Covers (FAS-B)
Fly Ash Silos and Loadouts	Dust Collection Devices, Enclosures and Covers (FAS-B)

7.4.3 Applicability Provisions

a. An "affected process" for the purpose of these unit-specific conditions is an individual process emission unit that handles fly ash as described in Conditions 7.4.1 and 7.4.2.

b. Subject to the following terms and conditions, the Permittee is authorized to continue operation of an affected process in violation of the applicable requirements of Condition 7.4.4(b) (35 IAC 212.123) and Condition 7.4.4(c) (35 IAC 212.321(a)) in the event of a malfunction or breakdown of an affected process. This authorization is provided pursuant to 35 IAC 201.149, 201.161, and 201.262, as the Permittee has applied for such authorization in its application, generally explaining why such operation would be required to provide essential service or to prevent injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. 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 related to the operation of the coal-fired boilers as necessary to provide essential service or to prevent injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected process, remove the affected process from service, or undertake other action so that excess emissions cease.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.3.9(e) and 7.3.10(b). For these purposes, 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 affected process out of service.

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.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

7.4.4 Applicable Emission Standards

a. The affected processes shall comply with the standard in Condition 5.2.2(a), which addresses visible emissions of fugitive particulate matter, as defined by 35 IAC 211.2490, from the affected processes, pursuant to 35 IAC 212.301.

b. The affected processes shall comply with the standard, in Condition 5.2.2(b), i.e., 30 percent opacity, which addresses the opacity of the emission of smoke or other particulate matter from the affected processes, pursuant to 35 IAC 212.123.

c. The affected processes 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 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). (see also Attachment 1) [35 IAC 212.321(a)].

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 processes, including enclosure and filtration-type dust collection devices, 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.

ii. The Permittee shall operate and maintain each affected process with the control measures identified in the records required by Condition 7.4.9(b).

7.4.7 Opacity and Testing Requirements

a. i. The Permittee shall have the opacity of the emissions 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)(d) of the Act.

A. For each affected process, testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months after the effective date of this Condition 7.4.7(a).

B. 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 5.0 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. Within 90 days of a written request from the Illinois EPA, the Permittee shall have the PM emissions at the stacks or vents of the affected processes, as specified in such request, measured during representative operating conditions, as set forth below, pursuant to Section 39.5(7)(d) of the Act.

ii. A. Testing shall be conducted using appropriate USEPA Reference Test Methods, including Method 5 for PM emissions.

B. Compliance may be determined from the average of three valid test runs, subject to the limitations and conditions contained in 35 IAC Part 283.

iii. The Permittee shall submit a test plan to the Illinois EPA at least 60 days prior to testing, which plan shall include the information specified by Condition 8.6.2.

iv. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of 30 days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual date of the test. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notification if it interferes with the Illinois EPA's ability to observe the testing.

v. The Permittee shall expeditiously submit complete Final Report(s) for required emission testing to the Illinois EPA, no later than 90 days after the date of testing. These reports shall include the information specified in Condition 8.6.3 and the following information:

A. A summary of results.

B. Detailed description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.

C. Detailed description of the operating conditions of the affected process during testing, including operating rate (tons/hr) and the control measures being used.

D. Detailed data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.

E. Representative opacity data (6-minute average) measured during testing.

7.4.8 Inspection Requirements

a. The Permittee shall perform inspections of the affected processes on at least a bi-weekly basis, including associated control measures, while the affected processes are in use, 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 processes. [Sections 39.5(7)(a) and (d) of the Act]

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. [Sections 39.5(7)(a) and (d) of the Act]

7.4.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items, pursuant to Sections 39.5(7)(a) and (e) of the Act:

a. i. File(s) containing the following information for the affected processes, with supporting information, which information 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 affected process (ton/hour).

ii. Maintenance and repair log(s) for the air pollution control equipment associated with the affected processes, including dust suppressant application systems, which log(s) shall list the activities performed on each item of equipment or system, with date and description. (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 currently being implemented for the affected processes pursuant to Condition 7.4.6(a). These control measures, as defined by the Permittee through these records, 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 control measures are sufficient to assure compliance with Condition 7.4.4(c) at the maximum process weight rate (tons fly ash/hour) at which each affected process can be operated, 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 7.4.9(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 amount of fly ash handled by the affected processes (tons/month and tons/year).

d. The Permittee shall maintain records of the following for the inspections required by Condition 7.4.8:

i. For the inspections required by Condition 7.4.8(a) for each affected process:

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 process, including the presence of any visible emissions or accumulation 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 the observed implementation or status of actual control measures, as compared to the established control measures.

ii. For the inspections required by Condition 7.4.8(b) for the dust collection equipment for affected processes:

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 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, the estimated amount of ash handled during the incident, 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 material processed during the incident.

vi. A discussion of the probable cause of the incident and any preventative measures taken.

vii. A discussion whether any applicable emission standards, as listed in Condition 7.4.4 may have been violated during the incident, with an estimate of the amount of the amount of any excess PM emissions (lbs) and supporting explanation.

f. Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, the Permittee shall maintain records, related to malfunction and breakdown for an affected process that shall include:

i. Maintenance and repair log(s) for the affected processes that, at a minimum, address aspects or components of such processes for which malfunction or breakdown has resulted in excess emissions, which shall list the activities performed on such aspects or components, with date, description and reason for the activity. In addition, in the maintenance and repair log(s) for control equipment required by Condition 7.4.9(a)(ii), the Permittee shall also list the reason for the activities that are performed.

ii. Records for each incident when operation of an affected process continued during malfunction or breakdown, including continued operation with excess emissions as addressed by Condition 7.4.3(b), that at a minimum, include the following information:

A. Date and duration of the incident.

B. A description of the incident.

C. The corrective actions used to reduce the quantity of emissions and the duration of the incident.

D. Confirmation of fulfillment of the requirements of Condition 7.4.10(b)(i), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.4.10(b)(i)(B).

E. If excess emissions occurred for one hour (60 minutes) or more:

I. A detailed explanation why continued operation of the affected process was necessary.

II. A detailed explanation of the preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.

III. An estimate of the magnitude of excess emissions occurring during the incident.

g. The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected processes 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 7.4.7(a), 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.

7.4.10 Reporting Requirements

a. Reporting of Deviations

For affected processes, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. At a minimum, such notifications shall include a description of such deviations and a discussion of the probable cause of such deviation, any corrective actions taken, and any preventative measures taken. [Section 39.5(7)(f)(ii) of the Act]

i. Notification and reporting as specified in Condition 7.4.10(b)(i) for certain deviations from Condition 7.4.4(b).

ii. Notification within 30 days for operation of an affected process that was not in compliance with applicable requirements in Condition 7.4.6(a) that continued for more than four 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(e).

iii. A. Notification with the quarterly reports required by Condition 7.4.10(b)(ii) for other deviations, including deviations from applicable emission standards, inspection requirements, and recordkeeping requirements.

B. With these 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 prior notifications and reports for such deviations.

b. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (f) of the Act, the Permittee shall provide the following notifications and reports to the Illinois EPA for incidents when operation of affected process(es) continued with excess emissions, including continued operation during malfunction or breakdown as addressed by Condition 7.4.3(b).

i. A. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) for each incident in which the opacity from an affected process exceeds or may have exceeded the applicable opacity standard for four or more 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded the applicable standard for no more than three 6-minute averaging periods, the Permittee need only report the incident in accordance with Condition 7.4.10(b)(ii).)

B. Upon conclusion of each incident that is two hours or more in duration, the Permittee shall submit a written follow-up notice to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed description of the incident and its cause(s), 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 the affected process was taken out of service.

ii. The Permittee shall submit quarterly reports to the Illinois EPA that include the following information for incidents during the quarter in which affected processes continued to operate during malfunction or breakdown with excess emissions. These reports shall be submitted

with the quarterly reports submitted for the coal-fired boiler pursuant to Condition 7.1.10-2(a).

A. A listing of such incidents, in chronological order, that includes: (1) the date, time, and duration of each incident, (2) the identity of the affected process(es) involved in the incident, and (3) whether a follow-up notice was submitted for the incident pursuant to Condition 7.4.10(b)(i)(B), with the date of the notice.

B. The detailed information for each such incident required pursuant to Condition 7.4.10(a) (as each incident constitutes a deviation) and Condition 7.4.10(b)(i)(B). For this purpose, the Permittee need not resubmit information provided in a prior report for an incident, as identified above, but may elect to supplement the prior submittal.

C. The aggregate duration of all incidents during the quarter.

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

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 processes without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7)(a) and (l) 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. Operation of additional dust suppressant systems.

b. Operation of additional dust collection equipment.

c. 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.

7.4.12 Compliance Procedures

a. Compliance with Conditions 7.4.4 is addressed by the control, testing, inspection, and recordkeeping required by Conditions 7.3.6(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(7)(p)(v) of the Act.

7.5 Auxiliary Boiler - Subject to NSPS, 40 CFR 60 Subpart Db

7.5.1 Description

The boiler is a fuel combustion emission unit used to produce steam for auxiliary support and provide heat. The boiler is not used to directly generate electricity. The boiler is fired with natural gas or distillate fuel oil.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Control Equipment
Boiler CB-AUX4	Auxiliary Boiler (1992) Gas and Oil Fired Nominal 226 mmBtu/hr	None

7.5.3 Applicability Provisions

a. i. The "affected boiler" for the purpose of these unit-specific conditions is the boiler described in Conditions 7.5.1 and 7.5.2.

ii. Because the construction of the boiler commenced after June 19, 1984 and the affected boiler has a heat input capacity greater than 100 mmBtu/hr, the affected boiler is also an affected facility under the federal NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db. As an affected facility, the Permittee must comply with applicable requirements of the NSPS, 40 CFR 60 Subpart Db, and related requirements of 40 CFR 60, Subpart A, General Provisions, for the affected boiler.

b. Startup Provisions

Subject to the following terms and conditions, the Permittee is authorized to operate the affected boiler in violation of the applicable standards in Condition 7.5.4(b) (35 IAC 212.206 and 212.207), and Condition 7.5.4(d) (35 IAC 216.121) during startup. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally describing the efforts that will be used "…to minimize startup emissions, duration of individual startups and frequency of startups."

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

ii. The Permittee shall conduct startup of the affected boiler in accordance with written procedures prepared by the Permittee and maintained in the control room for the boiler, that are specifically developed to minimize emissions from startups and that include, at a minimum, the following measures:

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.5.9(a), (c), and (d) and 7.5.10-2(a)(i)(D).

iv. As provided by 35 IAC 201.265, an authorization in a permit for excess emissions during startup does not shield a Permittee from enforcement for any violation of applicable emission standard(s) that occurs during startup and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

c. Malfunction and Breakdown Provisions

Subject to the following terms and conditions, the Permittee is authorized to continue operation of the affected boiler in violation of the applicable requirements of Condition 7.5.4(b) (35 IAC 212.206), and 7.5.4(d) (35 IAC 216.121) in the event of a malfunction or breakdown of the affected boiler. This authorization is provided pursuant to 35 IAC 201.149, 201.161 and 201.262, as the Permittee has applied for such authorization in its application, generally explaining why such continued operation would be required to provide essential service or to prevent of injury to personnel or severe damage to equipment, and describing the measures that will be taken to minimize emissions from any malfunctions and breakdowns. 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 to prevent injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected boiler, remove the affected boiler from service or undertake other action so that excess emissions cease.

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.5.9(a), (c) and (e), 7.5.10-2(a)(iv) and (b), and 7.5.10-3(a). For these purposes, 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.

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.

v. This authorization does not relieve the Permittee from the continuing obligation to minimize excess emissions during malfunction or breakdown. As provided by 35 IAC 201.265, an authorization in a permit for continued operation with excess emissions during malfunction and breakdown does not shield the Permittee from enforcement for any such violation and only constitutes a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all terms and conditions connected with such authorization.

7.5.4 Applicable Emission Standards

a. Federal NSPS standards

i. The affected boiler is subject to the NSPS for Industrial-Commercial-Institutional Steam Generating Units, 40 CFR 60, Subpart Db.

ii. The emissions of SO_2 from the affected boiler shall not exceed 0.5 lb/mmBtu actual heat input on a 30-day rolling average, if the boiler combusts oil other than very low sulfur oil, pursuant to 40 CFR 60.42b(d) and (e).

Note: Condition 7.5.4(c) establishes a more stringent emission standard for SO_2 emissions from the affected boiler.

iii. A. Opacity from the affected boiler shall not exceed 20 percent, as measured on a 6-minute average, except for one 6-minute period per hour of not more than 27 percent pursuant to NSPS, 40 CFR 60.43b(f).

B. Pursuant to 40 CFR 60.43b(g), the above opacity limitations do not apply during startup, malfunction, and shutdown, as defined by 40 CFR 60.2. Notwithstanding this provision, exceedances of these limitations during startup, malfunction, and shutdown are still subject to recordkeeping and reporting requirements under the NSPS.

Note: The affected boiler is not subject to NOx and PM standards pursuant to the NSPS, as addressed in Conditions 7.5.5(a) and (b).

b. The emissions of PM from the affected boiler attributable to burning of oil shall not exceed 0.10 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.206 and 212.207.

c. The emissions of SO_2 from the affected boiler attributable to firing of oil shall not exceed 0.3 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 214.122(b) and 214.162.

d. The emissions of CO from the affected boiler shall not exceed 200 ppm, corrected to 50 percent excess air, pursuant to 35 IAC 216.121.

7.5.5 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected boiler not being subject to the NOx limits of 40 CFR 60.44b(a) pursuant to 40 CFR 60.44b(k), which excludes a new boiler from such limits if it has a heat input capacity of 250 mmBtu/hr or less, fires only gas and oil, and is limited to an overall annual capacity factor of 10 percent or less.

b. The affected boiler is not subject to the PM limits under 40 CFR 60.43b because such limits only apply to new oil fired boilers that use add-on technology, as defined in 40 CFR 60.41b for control of SO_2 emissions, as provided by 40 CFR 60.43b(b).

c. The Permittee is hereby shielded from the opacity standard of 35 IAC 212.123 (Condition 5.2.2(b)) for the affected boiler, as it must comply with 40 CFR 60.43b(f) (Condition 7.5.4(a)(iii)). This NSPS establishes a more restrictive standard (20 percent opacity) than the applicable state rule (30 percent opacity).

d. This permit is issued based on the affected boiler not being subject to the NOx limit of 35 IAC 217.121, because the maximum design heat input capacity of the boiler is less than 250 mmBtu/hr.

e. This permit is issued based on the Permittee not being subject to the continuous SO_2 monitoring requirements of 40 CFR 60.47b(a) for the affected boiler because the Permittee obtains and maintains fuel receipts as described in 40 CFR 60.49b(r), pursuant to 40 CFR 60.47b(f).

f. This permit is issued based on the affected boiler not being subject to the federal Acid Rain program because the boiler is not a utility unit as it does not supply steam to an electric generator. (Refer to 40 CFR 72.2 and 72.6.)

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

a. i. Distillate fuel oil, as defined in 35 IAC 211.1770, and natural gas shall be the only fuels fired in the affected boiler.

Note: Pursuant to 40 CFR 60.41b and 60.49b(r), if oil contains nitrogen content greater than 0.05 weight percent, oil is generally considered residual oil for purposes of the NSPS. However, if oil has sulfur content less than 0.5 percent by weight, the state and federal definitions of distillate oil are similar and nitrogen content records are not required to distinguish between distillate and residual oil.

ii. As part of its operation and maintenance of the affected boiler, the Permittee shall perform formal "combustion evaluation" on the boiler in each calendar quarter in which the boiler operates for at least 100 hours*, pursuant to Section 39.5(7)(d) of the Act. These evaluation shall consist of diagnostic measurements of the concentration of CO in the flue gas of the affected boiler, with adjustments and preventative and corrective measures for the boiler's combustion systems to maintain efficient combustion.

* If the affected boiler does not operate for 100 hours in a calendar quarter, the interval between combustion evaluation shall be no greater than 100 hours of boiler operation.

iii. At all times, the Permittee shall maintain and operate the affected boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions, as required pursuant to the NSPS, 40 CFR 60.11(d).

b. i. The emissions of the affected boiler shall not exceed the following limitations. Compliance with these annual limitations shall be

determined from a running total of 12 months of data, that is, from the sum of the data for each month plus the preceding 11 months (12 month total). [T1]

Pollutant	Limits (Lbs/Hr)	Limits (Tons/Yr)
PM	22.2	9.7
SO_2	66.6	29.2
NOx	66.6	29.2

ii. Operation of the boiler shall not exceed an annual capacity factor of 10.0 percent based on heat input as defined in 40 CFR 60.41b. [T1]

Note: The above limitations were established in Permit 91080029. These limitations ensure that the affected boiler does not constitute a major modification pursuant to the federal PSD rules.

c. i. The affected boiler is subject to the following restrictions, which are imposed because the Permittee is relying on the provisions of 40 CFR 60.44b(k) to exclude the affected boiler from the NSPS limit for NOx:

A. The annual capacity factor of the affected boiler shall be 10 percent or less.

B. The nitrogen content of any distillate oil combusted in the boiler that would also qualify as residual oil under the NSPS definition shall be 0.30 weight percent or less.

Note: Pursuant to 40 CFR 60.41b, annual capacity factor is defined as the ratio between the actual heat input to the affected boiler during a calendar year and the potential heat input to the affected boiler had it been operated for 8,760 hours during a calendar year at the maximum steady state design heat input capacity.

ii. The following requirements related to the affected boiler are imposed because the Permittee is relying on the provisions of 40 CFR 60.42b(j) to exclude the boiler from the NSPS limit for SO_2:

A. Oil combusted in the affected boiler shall have a sulfur content of no more than 0.5 percent by weight, so as to qualify as very low sulfur oil as defined in 40 CFR 60.41b.

B. The Permittee shall maintain fuel receipts as described in 40 CFR 60.49b(r).

7.5.7-1 Emission Testing Requirements

a. The Permittee shall have the CO, PM and NOx, emissions of the affected boiler during representative operating conditions measured, as further specified below, pursuant to Section 39.5(7)(d) of the Act.

i. A. Measurements shall be conducted by the end of the second full calendar year of operation after the effective date of this Condition 7.5.7(a); and

B. Measurements shall be conducted within 90 days of a written request from the Illinois EPA.

ii. A. Testing shall be conducted using appropriate USEPA Reference Test Methods, including Methods 5, 10 and 7 or 19 for PM, CO and NOx emissions, respectively.

B. Compliance may be determined from the average of three valid test runs, subject to the limitations and conditions contained in 35 IAC Part 283.

iii. The Permittee shall submit a test plan to the Illinois EPA at least 60 days prior to testing, which plan shall include the information specified by Condition 8.6.2.

iv. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of 30 days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual date of the test. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notification if it interferes with the Illinois EPA's ability to observe the 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. A summary of results.

B. Detailed description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.

C. Detailed description of the operating conditions of the affected boiler during testing, including fuel consumption (scf/hr or gal/hr), firing rate (mmBtu/hr), and combustion system information, i.e., settings for distribution of combustion air, target level for O_2 in the flue gas, and levels of O_2 in the flue gas, as determined by diagnostic measurements.

D. Detailed data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.

E. Opacity data (6-minute average and hourly average) monitored during emission testing.

7.5.7-2 Fuel Oil Sampling and Analysis

a. i. The Permittee shall have the sulfur content of the oil supply to the affected boiler, in lb/mmBtu, determined from an analysis of representative sample of the oil supply, as follows, pursuant to Section 39.5(7)(d) of the Act:

A. From a sample taken no later than 90 days after first operating the affected boiler pursuant to this permit, provided, however, that if such sample is taken following operation of the affected boiler on oil, the sample shall be taken prior to adding more oil to the storage tank.

B. From a sample taken no later than 30 days after acceptance of a shipment of fuel whose sulfur content would not meet Condition 7.5.4(c) based upon supplier data, provided however, that if the affected boiler is operated following acceptance of such a shipment, the sample shall be taken prior to adding a subsequent shipment of oil to the relevant storage tank.

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

ii. Sampling and analysis, including that which forms the basis for the suppliers' data, shall be conducted using methods that would be acceptable under the federal New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units or the federal Acid Rain Program, 40 CFR 75, Appendix D, Optional SO_2 Emissions Data Protocol for Gas-Fired and Oil-Fired Units e.g., ASTM D4057-88 and ASTM D129-91.

7.5.8 Opacity Monitoring Requirements

a. Continuous Opacity Monitoring

Pursuant to 40 CFR 60.48b(a) and (e) and Section 39.5(7)(d) of the Act, the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of opacity from the affected boiler.

7.5.9 Recordkeeping Requirements

The Permittee shall maintain the following records for the affected boiler, pursuant to Sections 39.5(7)(a) and (e) of the Act and 40 CFR Part 60:

a. An operating log or other records that, at a minimum, include the following information:

i. Information for each startup and shutdown of the boiler, including date, time and duration, as required by 40 CFR 60.7(b). (See also Condition 7.5.9(d).)

ii. Information for any incident in which the operation of the boiler 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, as addressed by 40 CFR 60.7(b). (See also Condition 7.5.9(e).)

iii. Information documenting the performance of the combustion evaluation required by Condition 7.5.6(a)(ii), including the date of the evaluation, the concentrations of CO measured at the start and conclusion of the evaluation, and a description of adjustments and preventative and corrective measures undertaken for the combustion systems of the boiler.

iv. Information identifying any deviation from the fuel restriction in Condition 7.5.6(a)(i).

b. The following records related to the supply of fuel oil for the affected boiler and operation of the boiler:

i. Receipts from the fuel oil supplier for shipments of oil for the boiler, including:

A. Information to confirm that delivered oil qualifies as distillate oil as defined in 40 CFR 60.41b, as required by 40 CFR 60.49b(r), or

B. If residual oil as defined at 40 CFR 60.41b is delivered, the nitrogen content of the shipment with supporting documentation.

ii. The fuel receipts required by Condition 7.5.9(b)(i), above, shall also contain the following information for each shipment of fuel oil: date, supplier, type of oil, quantity (in gallons), sulfur content in lb/mmBtu (or data on maximum sulfur content and minimum heat content as guaranteed by the supplier, and the calculated sulfur content in lb/mmBtu), and whether the SO_2 emission rate from the burning of such fuel would meet the limit in Condition 7.5.4(c).

iii. Records of the following information for each operating day, pursuant to 40 CFR 60.49b(p):

A. Calendar date.

B. The number of hours of operation.

C. A record of the hourly steam load.

iv. Records of the fuel usage of the boiler (oil, gal/mo and gal/yr, and gas, scf/mo and scf/yr).

v. Records of total operating hours (hours/quarter).

c. Pursuant to Section 39.5(7)(a) and (e) of the Act, and the NSPS, 40 CFR 60.45b, the Permittee shall maintain records for the opacity monitoring system on the affected boiler required by Condition 7.5.8(a) that, at a minimum, shall include the following:

i. Operating records for the opacity monitoring system, including:

A. Opacity measurements.

B. Continuous monitoring system performance testing measurements.

C. Performance evaluations and other quality assurance/control activities.

D. Calibration checks.

E. Maintenance and adjustment performed.

F. Periods other than performance of quality assurance, calibration, and maintenance, as addressed above, when the monitor was inoperative, with reason.

G. Quarterly reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Conditions 7.5.10(a) and (c).

ii. Records to address compliance with Condition 7.5.4(a)(iii), including:

A. Each 6-minute period when the opacity was above the limitation of Condition 7.5.4(a)(iii) (20 percent opacity) with date, time, whether it occurred during startup, malfunction, or shutdown, and further explanation of the incident.

d. Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, records related to startup of the affected boiler that shall include the following:

i. Records of the Permittee's startup procedures for the affected boiler (as required by Condition 7.5.3(b)(ii)), accompanied by the Permittee's estimate of opacity levels and both total and excess emissions of PM and CO during a typical startup with supporting information and calculations.

ii. Records for each startup of the affected boiler that, at a minimum, include the following:

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

B. The elapsed time from initial firing of fuel to achievement of stable operation of the boiler with systems operating to enable compliance with the applicable standards for opacity and emissions of PM and CO.

C. If this elapsed time is more than 120 minutes or if the Permittee's startup procedures are not followed:

I. A detailed explanation why startup was not completed sooner or the procedures were not followed.

II. Documentation for the procedures that were followed.

III. Estimates of the magnitude of opacity and emissions of PM and CO during the startup, including whether opacity or emissions may have exceeded an applicable standard, as listed in Condition 7.5.4.

e. Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (e) of the Act, records related to malfunction and breakdown of the affected boiler that shall include the following:

i. A maintenance and repair log for the affected boiler that, at a minimum, addresses aspects or components of the boiler for which malfunction or breakdown has resulted in excess emissions, which shall list the activities performed on such aspects or components, with date, description and reason for the activity.

ii. Records for each incident when operation of the affected boiler continued during malfunction or breakdown, including malfunction or breakdown as addressed by Condition 7.5.3(c), that at a minimum, include the following information:

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

B. The corrective actions used to reduce the quantity of emissions and the duration of the incident.

C. Confirmation of fulfillment of the requirements of Condition 7.5.10-3(a), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.5.10-3(a)(ii).

D. If opacity or emissions of PM or CO exceeded or may have exceeded an applicable standard, as listed in Condition 7.5.4:

I. A detailed explanation why continued operation of the affected boiler was necessary.

II. The preventative measures that have been or will be taken to prevent similar incidents or reduce their frequency and severity, including any repairs to the affected boiler and associated equipment and any changes to operating and maintenance procedures.

III. Estimates of the magnitude of opacity or emissions of PM and CO during the incident, as emissions may have exceeded any applicable standard.

f. The following records to demonstrate compliance with limitations in Conditions 7.5.6 addressing the capacity factor and emissions of SO_2, PM, and NOx from the affected boiler.

i. A. A file containing the rated capacity of the boiler, with supporting documentation.

B. The actual annual capacity factor (percent) of the boiler, as defined by 40 CFR 60.41b, determined for each calendar year, with supporting calculations.

ii. A. Identification of any period of time when the sulfur content of the oil being burned in the boiler was more than 0.15 lb/mmBtu (so that the SO_2 emissions were greater than allowed by Condition 7.5 4(c)), with starting date, end date, explanation for the incident, and the estimated usage of oil and the actual SO_2 emission rate(s) during the period, with supporting documentation and calculations.

B. Identification of each hour in the above period of time when the SO_2 emission rate of the boiler, in lb/hr, was more than the limit in Condition 7.5.6(b)(i), or alternatively, confirmation that this limit was not exceeded during this period, with supporting documentation and calculations.

C. Confirmation that the sulfur content of all oil burned in the boiler during the above period of time was within 0.25 lb/mmBtu, so as to constitute very low sulfur oil as defined in 40 CFR 60.41b, or alternatively, identification of each day covered by the above period when very low sulfur oil was not burned in the boiler, with further explanation and the 30-day rolling average SO_2 emission rate of the boiler associated with such day, in lb/mmBtu, with supporting documentation and calculations.

iii. A. The additional emissions of SO_2 (lb SO_2) associated with each period of time when the sulfur content of oil burned in the boiler was more than 0.15 lb/mmBtu, with supporting calculations.

B. I. The standard emission factors for PM, and NOx used by the Permittee for the boiler, with their basis or supporting documentation.

II. Identification of any hour or longer period of time when such emission factor may not have fully accounted for the emissions of the boiler, with explanation and an estimate of the additional emissions (lb) associated with such period of time, with supporting documentation and calculations.

III. Identification of each hour in such period of time when the PM and NOx emission rate of the boiler, in lb/hr, was more than the limit in Condition 7.5.6(b)(i), or alternatively, confirmation that those limits were not exceeded during this period, with supporting documentation.

C. The emissions of SO_2, PM, and NOx from the boiler (tons/mo and tons/yr), based on records for fuel usage and other required records, with supporting calculations.

7.5.10-1 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. At a minimum, these notifications shall include a description of such deviations, including whether they occurred during startup or malfunction/breakdown, and a discussion of the possible cause of such deviations, any corrective actions and any preventative measures taken. [Section 39.5(7)(f)(ii) of the Act]

i. Notification and reporting as specified in Condition 7.5.10-3(a) for certain deviations from the PM limit in Condition 7.5.4(b).

ii. Notification and reporting as specified in Condition 7.5.10-3(a) for certain deviations from the opacity limit in Condition 7.5.4(a)(iii).

iii. Notification within 30 days for a deviation from the fuel restriction in Condition 7.5.6(a)(i) or (c)(i), with a copy of the applicable records for such incident.

iv. Notification with the reports required by Condition 7.5.10-2(b) for other deviations from the opacity limit in Condition 7.5.4(a)(iii), not addressed pursuant to Condition 7.5.10-1(a)(ii), and for deviations from the monitoring requirements in Condition 7.5.8(a).

v. Notification with the quarterly reports required by Condition 7.5.10-2(a) for deviations not addressed above by Condition 7.5.10-1(a)(i), (ii), (iii) or (iv) including deviations from other applicable requirements, e.g., other applicable emission standards, work practice requirements, and recordkeeping requirements.

b. Periodic Reporting of Deviations

The quarterly reports required by Condition 7.5.10-2(a) shall include the following information for the affected boiler related to deviations from permit requirements during the quarter. [Sections 39.5(7)(a) and (f)(i) of the Act]

i. A listing of all instances of deviations that have been reported in writing to the Illinois EPA as provided by Condition 7.5.10-1(a)(i), (ii) or (ii), including identification of each such written notification or report. For this purpose, the Permittee need not resubmit copies of these previous notifications or reports but may elect to supplement such material.

ii. Detailed information for all other deviations not addressed in the above listing, as required by Condition 7.1.10-1(a)(iv) or (v).

7.5.10-2 Reporting Requirements – Periodic Reporting

a. Quarterly Reports

In place of the semi-annual monitoring reports otherwise required by Condition 8.6.1, the Permittee shall submit quarterly reports to the Illinois EPA pursuant to Sections 39.5(7)(a) and (f) 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. Annual capacity factor over the previous 12 months for the affected boiler, and average fuel nitrogen content during the reporting period only if residual oil was fired, pursuant to 40 CFR 60.49b(q).

C. Reports certifying that the only oil that was combusted in the affected boiler during the reporting period was very low sulfur oil meeting the definition of 40 CFR 60.41b.

D. A discussion of significant changes in the fuel supply to the affected boiler, if any.

ii. These reports shall include the information for opacity from the affected boiler during the quarter and the associated continuous opacity monitoring system specified by Condition 7.5.10-2(b).

iii. These reports shall include the following information related to startups of the affected boiler during the quarter:

A. A listing of each startup, including date, description and "elapsed time," accompanied by a copy of the records pursuant to Condition 7.5.9(d)(ii)(C) for each startup for which such records were required.

B. If there have been no startups of the affected boiler during the quarter, this shall be stated in the report.

iv. These reports shall include the following information for incidents during the quarter in which the affected boiler continued to operate during malfunction or breakdown with excess emissions.

A. A listing of such incidents, in chronological order, that includes: (1) the date, time, and duration of each incident, and (2) whether a follow-up notice was submitted for the incident pursuant to Condition 7.7.10(c)(ii), with the date of the notice.

B. The detailed information for each such incident required pursuant to Condition 7.7.10(a) (as each incident constitutes a deviation) and Condition 7.7.10(c)(ii). For this purpose, the Permittee need not resubmit information provided in a prior report for an incident, but may elect to supplement the prior submittal.

v. These reports shall be submitted after the end of every calendar quarter as follows:

Monitoring Period	Submittal Deadline
January – March	April 30
April – June	July 30
July – September	October 30
October – December	January 30

b. Reporting of Opacity and PM Emissions

Pursuant to Sections 39.5(7)(a) and (f) of the Act and the NSPS, 40 CFR 60.49b(h), the Permittee shall report the following information for the affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.5.10-2(a):

i. Summary information on the performance of the opacity monitoring system and excess emissions, as required for a "Summary Report" in accordance with 40 CFR 60.7(d). When no excess opacity occurred or the continuous opacity 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 opacity monitoring system, including the dates and times of any periods during which it was inoperative, if requested by the Illinois EPA or the opacity 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 period when opacity was in excess of the applicable standard specified in Conditions 7.5.4(a)(iii) for any six-minute period during which the average opacity of emissions exceeds 20 percent opacity, except that one six-minute average per hour of up to 27 percent opacity need not to be reported as provided by 40 CFR 60.49b(h)(3).

A. The starting dates and time of the exceedances.

B. The duration of the excess opacity.

C. The magnitude of excess opacity, based on six minute average opacity, including:

I. The percent opacity for each six-minute period.

II. The start and stop time of each six-minute period in excess of the limitation.

D. A detailed explanation of the cause of the excess opacity, if known, including whether such excess opacity occurred during startup malfunction or breakdown of the boiler.

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

F. Identification of any previous report for the incident submitted to the Illinois EPA pursuant to Condition 7.5.10-3(a)(ii). For this purpose, the Permittee need not resubmit copies of such report but may elect to supplement such material.

7.5.10-3 Reporting Requirements - Notifications

a. Reporting of Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Sections 39.5(7)(a) and (f) 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 as addressed by Condition 7.5.3(c). These requirements do not apply to such excess emissions, if any, that occur during startup or shutdown of the affected boiler.

i. The Permittee shall immediately notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) for each incident in which the opacity from the affected boiler exceeds or may have exceeded the applicable standard (i.e., 20 percent) for five or more 6-minute averaging periods unless the Permittee has begun the shutdown of the affected boiler by such time. (Otherwise, as related to opacity, if opacity during an incident only exceeds or may have exceeded 20 percent for nor more than four 6-minute

averaging periods, the Permittee need only report the incident in accordance with Condition 7.5.10-2(a) and (d).

ii. Upon conclusion of each incident in which the applicable PM emission standard may have been exceeded or in which the total duration of exceedances of the opacity standard are one hour (60 minutes) or more, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 that includes: a detailed description of the incident 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.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

None

7.5.12 Compliance Procedures

a. Compliance with the opacity standard of Condition 7.5.4(a)(iii) is addressed by the average opacity calculated from 6-minute periods of opacity measurements from the continuous opacity monitoring system operated in accordance with the requirements of Condition 7.5.8(a) and the recordkeeping requirements of Condition 7.5.9.

b. Compliance with the PM limit of Conditions 7.5.4(b) and the PM limitation of Condition 7.5.6(b)(i) is addressed by the work practices, testing and recordkeeping required by Conditions 7.5.6(a), 7.5.7(a), and 7.5.9, respectively.

c. Compliance with the SO_2 limit of Condition 7.5.4(c) and the SO_2 limitation of Condition 7.5.6(b)(i) is addressed by the recordkeeping required by Condition 7.5.9.

d. Compliance with the CO emission limit of Condition 7.5.4(d) and the CO emission limitation of Condition 7.5.6(b)(i) is addressed by the work practices, emission testing, and recordkeeping required by Conditions 7.5.6(a)(ii), 7.5.7(a) and 7.5.9.

e. Compliance with NOx emission limitation of Condition 7.5.6(b)(i) is addressed by the testing and recordkeeping required by Conditions 7.5.7(a) and 7.5.9, respectively.

f. Compliance with the operating restrictions of Condition 7.5.6(a)(i), (b)(ii) and (c) is addressed by the recordkeeping required by Condition 7.5.9.

Note: Condition 7.5.12 is included in this permit pursuant to Section 39.5(7)(p)(v) of the Act.

7.6 Storage Tank

7.6.1 Description

The storage tank is associated with gasoline non-retail dispensing operations for plant vehicles.

7.6.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit	Description	Emission Control Equipment
Storage Tank - CGT-1	Gasoline Storage Tank 1,000 Gallon Capacity	Submerged Loading Pipe

7.6.3 Applicability Provisions

An "affected storage tank" for the purpose of these unit-specific conditions, is the storage tank described in Conditions 7.6.1 and 7.6.2.

7.6.4 Applicable Emission Standards

a. The affected storage tank is subject to 35 IAC 215.122(b) and 215.583(a)(1), which provides that:

   i. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2) [35 IAC 215.122(b)].

   Note: The exception to this standard at 35 IAC 215.122(c) is not applicable because the vapor pressure of gasoline is greater than 17.24 kPa (2.5 psia) at 294.3°K (70°F).

   ii. No person shall cause or allow the transfer of gasoline from any delivery vessel into any stationary storage tank at a gasoline dispensing facility unless the tank is equipped with a submerged loading pipe [35 IAC 215.583(a)(1)].

7.6.5 Non-Applicability of Regulations of Concern

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

meters (10,566 gallons).

b. The affected storage tank is not subject to 35 IAC 215.121 or 215.122(a) because the capacity of the affected storage tank is less than 40,000 gallons.

c. The requirements of 35 IAC 215.583(a)(2) do not apply to transfer of gasoline to the affected storage tank because the affected storage tank is located in Montgomery County. [35 IAC 215.583(b)]

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

a. The affected storage tank shall be equipped and operated with a submerged loading pipe or an equivalent device approved by the Illinois EPA, pursuant to 35 IAC 215.122(b) and 215.583(a). (The Illinois EPA has not approved use of other equivalent equipment in lieu of a submerged loading pipe.)

7.6.7 Emission Testing Requirements

None

7.6.8 Inspection Requirements

On an annual basis, in the period between March 1 and April 30 of each year, the Permittee shall conduct an inspection of the affected tank and its physical condition and ability to comply with the applicable equipment requirements of Conditions 7.6.6(a), pursuant to Sections 39.5(7)(a) and (d) of the Act.

7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected storage tank, pursuant to Section 39.5(7)(a) and (e) of the Act:

a. Design information for the capacity of the tank and the presence of a permanent submerged loading pipe.

b. Operating log(s) or other records for the affected tank that at a minimum, shall include the following:

i. Information documenting performance of the inspections that are required by Condition 7.6.8, including date and description of the inspection, confirmation of the adequacy of the specific features of the tank required for control of emissions, and identification of any such features that are not in proper working order or otherwise deficient, with recommendations for maintenance, repair or replacement.

ii. Information identifying deviations from Applicable equipment requirements, with a detailed description and explanation.

c. Maintenance and repair records for the affected storage tank, as related to the repair or replacement of the loading pipe.

d. Records for each shipment of material loaded into the affected storage tank, including type of material and amount.

e. Throughput of material, gal/mo and gal/yr, by type of material.

7.6.10 Reporting Requirements

For the affected storage tank, 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:

a. Notification within 30 days for any filling of an affected storage tank that was not in compliance with the requirements of Conditions 7.6.4 or 7.6.6, i.e., that was conducted without a submerged loading pipe.

b. Notification with the quarterly reports required for the coal-fired boilers by Condition 7.1.10-2(a) for other deviations, including deviations from applicable recordkeeping requirements.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected storage tank without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7)(a) and (l) 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 any activity constituting construction or modification as defined in 35 IAC 201.102.

a. Changes to components related to the submerged loading pipe, including addition of new components and repair and replacement of components.

b. Changes in the material stored in the affected storage tank.

7.6.12 Compliance Procedures

a. Compliance with Conditions 7.6.4(a) is addressed by the use of a submerged loading pipe as required in Condition 7.6.6(a) and by the inspections and recordkeeping required by Conditions 7.6.8 and 7.6.9.

b. Compliance with Condition 7.5.6 is addressed by the inspections and the recordkeeping required by Conditions 7.6.8 and 7.6.9, respectively.

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

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is an affected source under Title IV of the CAA and is subject to requirements pursuant to Title IV of the CAA as specified in Section 6.2. To the extent that the federal regulations promulgated under Title IV of the CAA, are inconsistent with the requirements of this permit, the federal regulations promulgated under Title IV of the CAA shall take precedence pursuant to Section 39.5(17)(j) of the Act.

8.3 Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement [Section 39.5(7)(o)(vii) of the Act].

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

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

8.4.2 Changes Requiring Prior Notification

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

a. The changes do not violate applicable requirements;

b. The changes do not contravene federally enforceable permit terms or conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements;

c. The changes do not constitute a modification under Title I of the CAA;

d. Emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change; and

e. The Permittee provides written notice to the Illinois EPA, Division of Air Pollution Control, Permit Section, at least 7 days before commencement of the change. This notice shall:

i. Describe the physical or operational change;

ii. Identify the schedule for implementing the physical or operational change;

iii. Provide a statement of whether or not any New Source Performance Standard (NSPS) is applicable to the physical or operational change and the reason why the NSPS does or does not apply;

iv. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and

v. Provide a certification that the physical or operational change will not result in emissions greater than authorized under the Conditions of this permit.

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the 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]:

Monitoring Period	Report Due Date
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
Bureau of Air
Compliance & Enforcement Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

iii. USEPA Region 5 - Air Branch

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

c. Permit applications should be addressed to the Air Permit Section. As of the date of issuance of this permit, the

address of the Air Permit Section is as follows:

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

8.7 Title I Conditions

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

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule. [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, any person (including the Permittee) may also use other credible evidence to establish compliance with, or violation of, any applicable requirement to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the Permittee, including, but not limited to, challenging the use of the USEPA's credible evidence rule in the context of any future proceeding consistent with *Clean Air Implementation Project v. EPA*, 150 F3d 1200 (D.C. Circuit 1998).

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.

9.3 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 Fees

The Permittee shall 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] Fees shall be paid by check sent to the Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.5 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 and Section 4(b) of the Act.

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: (1) the Illinois EPA, Air Compliance Section, (2) the Illinois EPA, Air Regional Field Office, and (3) USEPA Region 5 – Air Branch. (The addresses for the submittal of these compliance certifications are provided in Condition 8.6.4.)

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)(o)(iii) of the Act]

9.12.2 Reopening and Revision

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

a. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;

b. Additional requirements become applicable to an affected source for acid deposition under the acid rain program;

c. The Illinois EPA or USEPA determines that this permit contains a material mistake or that inaccurate 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 this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the 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. [Sections 39.5(5)(l) and (o) of the Act]

Note: Pursuant to Sections 39.5(5)(h) and (n) of the Act, upon submittal of a timely and complete renewal application, the permitted source may continue to operate until final action is taken by the Illinois EPA on the renewal application, provided, however, that this protection shall cease if the applicant fails to submit any additional information necessary to evaluate or take final action on the renewal application as requested by the Illinois EPA in writing. For a renewal application to be timely, it must be submitted no later than 9 months prior to the date of permit expiration.

9.15 General Authority for the Terms and Conditions of this Permit

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

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

10.0 ATTACHMENTS

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 which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
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 units at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].

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

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

10.5 Attachment 5 - Acid Rain Program Permit

217-782-2113

ACID RAIN PROGRAM
PERMIT

Ameren Energy Generating Co./Ameren Services
Attn: Mr. Daniel F. Cole, Designated Representative
1901 Chouteau Avenue
P.O. Box 66149, MC 07
St. Louis, Missouri 63166-6149

Oris No.: 861
IEPA I.D. No.: 135803AAA
Source/Unit: Coffeen Power Station/ Units 1 and 2
Date Received: July 2, 2004
Date Issued: March 21, 2005
Effective Date: January 1, 2005
Expiration Date: December 31, 2009

STATEMENT OF BASIS:

In accordance with Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is issuing this Acid Rain Program Permit to Ameren Energy Generating Company for its Coffeen Power Station.

SULFUR DIOXIDE (SO_2) ALLOCATIONS AND NITROGEN OXIDES (NOX) LIMITS FOR EACH AFFECTED UNIT:

		2005	2006	2007	2008	2009
UNIT 1	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73*	5,085	5,085	5,085	5,085	5,085
	NOx Limit	See Provisions for NOx Averaging Plan, Below				

***** Also includes return of repowering deduction of 2 allowances, which were returned by USEPA on October 30, 2000.

		2005	2006	2007	2008	2009
UNIT 2	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73*	15,381	15,381	15,381	15,381	15,381
	NOx Limit	See Provisions for NOx Averaging Plan, Below				

* Also includes return of repowering deduction of 5 allowances, which were returned by USEPA on October 30, 2000.

NOx EMISSIONS AVERAGING PLAN
Pursuant to 40 CFR 76.11, the Illinois EPA approves a NOx emissions averaging plan that includes the Coffeen Units 1 and 2, effective for calendar years 2005 through 2009 (attached). Under this plan, except as provided below, the NOx emissions of Coffeen Units 1 and 2 each shall not exceed the annual average alternative contemporaneous emission limitation of 0.86 lb/mmBtu. Under this plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx emission rate for the same units had they each been operated during that calendar year in compliance with the applicable emission limitation under 40 CFR 76.5, 76.6, or 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then the units covered by the plan shall be deemed to be in compliance for that year with their alternative contemporaneous annual emission limitations and any annual heat input limits.

PERMIT APPLICATION: The permit application, including the NOx Compliance Plan and NOx Averaging Plan, is attached and incorporated as part of this permit. The owners and operators of this source must comply with the standard requirements and special provisions set forth in the application.

COMMENTS, NOTES, AND JUSTIFICATIONS: This permit contains provisions related to SO_2 emissions and requires the owners and operators to hold SO_2 allowances under the federal Acid Rain program to account for SO_2 emissions from the affected units. An allowance is a limited authorization to emit up to one ton of SO_2 during or after a specified calendar year. The transfer of allowances to and from a unit account does not necessitate a revision to the unit SO_2 allocations denoted in this permit (See 40 CFR 72.84).

This permit contains provisions related to NOx emissions requiring the affected units to comply with applicable emission limitations for NOx under the Acid Rain program. Pursuant to 40 CFR 76.11, the Illinois EPA is approving a NOx emission averaging plan that includes Coffeen Units 1 and 2 for calendars years 2005 though 2009. In addition to the described NOx compliance plan, the affected units shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.

This permit does not affect the source’s responsibility to meet all other applicable local, state and federal requirements, including state requirements under 35 Ill. Adm. Code Part 217 Subpart W, which addresses NOx emissions from Coffeen Units 1 and 2.

If you have any questions regarding this permit, please contact Kunj Patel at 217-782-2113.

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

cc: Cecilia Mijares, USEPA Region V
Dean Hayden, IEPA Region 2

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: ☑ New ☐ Revised

STEP 1

Identify the source by plant name, State, and ORIS code.

Plant Name	State	ORIS Code
Coffeen	IL	861

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

a	b	c	d
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
01	Yes		
02	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

EPA Form 7610-16 (rev. 12-03)

Plant Name (from Step 1): Coffeen

STEP 3

Read the standard requirements

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:

(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and

(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;

(2) The owners and operators of each affected source and each affected unit at the source shall:

(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and

(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.

(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.

(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:

(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and

(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.

(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.

(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:

(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or

(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Plant Name (from Step 1) Coffeen

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting
authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Plant Name (from Step 1) Coffeen

Step 3, Cont'd.

Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or;
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Daniel F. Cole	
Signature Daniel F. Cole	Date 2/20/14

EPA Form 7610-16 (rev. 12-03)

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_X Compliance Plan

Page 1 of 2

For more information, see instructions and refer to 40 CFR 76.9

This submission is: [X] New [ ] Revised

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

Plant Name	State	ORIS Code
Coffeen	IL	861

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	ID# 01	ID# 02	ID#	ID#	ID#	ID#
	Type CY	Type CY	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/97 (also indicate above emission limit specified in plan)	☐	☐	☐	☐	☐	☐
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	☐	☐	☐	☐	☐	☐
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	☐	☐	☐	☐	☐	☐
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	☐	☐	☐	☐	☐	☐
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	☐	☐	☐	☐	☐	☐
(j) NO_x Averaging Plan (include NO_x Averaging form)	[X]	[X]	☐	☐	☐	☐
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(iii)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	☐	☐	☐	☐	☐	☐
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(iii)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☐	☐	☐	☐	☐	☐

EPA Form 7610-28 (10-03)

Plant Name (from Step 1): Coffeen

STEP 2, cont'd.

	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 76.11 (a)(2)(ii)(C), (a)(2)(ii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(ii)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO$_x$ as provided under 40 CFR 76.5(a)(2) except as provided under 40 CFR 76.8(e)(2)(ii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or all CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO$_x$ for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO$_x$ for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Daniel F. Cole

Signature: Daniel F. Cole Date: 6/30/04

EPA Form 7610-28 (12-00)

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

Page 1

This submission is: [X] New [ ] Revised

Page [1] of [3]

STEP 1

Identify the units participating in this averaging plan by plant name, state, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Coffeen	IL	01	0.86	0.86	22,000,000
Coffeen	IL	02	0.86	0.86	38,000,000
Hutsonville	IL	05	0.45	0.45	3,100,000
Hutsonville	IL	06	0.45	0.45	3,200,000
Meredosia	IL	01	0.45	0.45	1,300,000
Meredosia	IL	02	0.45	0.45	1,300,000
Meredosia	IL	03	0.45	0.45	1,300,000
Meredosia	IL	04	0.45	0.45	1,300,000
Meredosia	IL	05	0.45	0.45	12,000,000

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
0.607	≤	0.607

$$\frac{\sum_{i=1}^{n} (R_{a,i} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} [R_{l,i} \times HI_i]}{\sum_{i=1}^{n} HI_i}$$

Where,

$R_{a,i}$ = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1;

$R_{l,i}$ = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

EPA Form 7610-29 (12-00)

Plant Name (from Step 1) Coffeen

NO, Averaging - Page 3

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Newton	IL	1	0.45	0.45	36,000,000
Newton	IL	2	0.45	0.45	37,000,000

EPA Form 7610-29 (12-03)

Plant Name (from Step 1) Coffeen

STEP 3

Mark one of the two options and enter dates.

[X] This plan is effective for calendar year 2005 through calendar year 2009 unless notification to terminate the plan is given.

[ ] Treat this plan as [ ] identical plans, each effective for one calendar year for the following calendar years: _____, _____, _____, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO$_x$ under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan.
(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Daniel F. Cole	
Signature Daniel F. Cole	Date 6/30/04

EPA Form 7610-29 (12-03)