FINAL DRAFT CAAPP PERMIT
Ameren Energy Generating Company
Meredosia Power Plant
I.D. No.: 137805AAA
Application No.: 95090010
June 26, 2003

217/782-2113

TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
and
TITLE I PERMIT[1]

PERMITTEE

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

Application No.: 95090010 I.D. No.: 137805AAA
Applicant's Designation: Date Received: September 01, 1995
Operation of: Electrical Power Generation at Meredosia
Date Issued: TO BE DETERMINED Expiration Date[2]: DATE
Source Location: 800 S. Washington Street, Meredosia, Morgan County
Responsible Official: Michael W. Long/Manager, Meredosia 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 Phase II Acid Rain Permit issued to Ameren Energy Generating Company by the Illinois EPA is incorporated into this CAAPP permit (See Attachment 5).

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

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

DES:MNP:RWC

cc: Illinois EPA, FOS, Region 2
USEPA

[1]This permit may contain terms and conditions which address the applicability, and compliance if determined applicable, of Title I of the CAA and regulations promulgated thereunder, including 40 CFR 52.21 – federal PSD and 35 IAC Part 203 – Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within this permit.

[2]Except as provided in Condition 8.7 of this permit.

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1.0 SOURCE IDENTIFICATION

1.1 Source

Ameren Energy Generating Company - Meredosia Power Station
800 W. Washington Street
Meredosia, IL 62665
217/584-7100

I.D. No.: 137805AAA
Acid Rain Permit ORIS Code No.: 864

Standard Industrial Classification: 4911, Electrical Services

1.2 Owner/Parent Company

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

1.3 Operator

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

Steven C. Whitworth
314/554-4908

1.4 General Source Description

Meredosia power station is located at 800 S. Washington Street, Meredosia in Morgan County. The source operates five coal-fired boilers and one residual oil fired boiler to generate electrical power.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment Trading Unit
BAT	Best Available Technology
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
CFR	Code of Federal Regulations
EGU	electrical generating unit(s)
ERMS	Emissions Reduction Market System (35 IAC Part 205)
ESP	Electro Static Precipitator
FGC	Flue Gas Conditioning
FGR	Flue Gas Recirculation
HAP	Hazardous Air Pollutant
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
Kw	Kilowatts
LAER	Lowest Achievable Emission Rate
Lb	Pound
LNB	Low NO_x Burners
MACT	Maximum Achievable Control Technology
mmBtu	Million British thermal units
Mg	megagram or metric ton
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standards
NSSA	new source set-aside
ORIS	Office of Regulatory Information System
OFA	Over-Fire Air system
PADB	Primary Air Duct Burners
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)
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
VOM	Volatile Organic Material
VOL	Volatile Organic Liquid

3.0 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 Tank

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

None

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

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

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 less than 112 kW (150 horsepower) power output [35 IAC 201.210(a)(15)].

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).

3.2 Compliance with Applicable Requirements

Insignificant activities are subject to applicable requirements notwithstanding status as insignificant activities. In particular, in addition to regulations of general applicability, such as 35 IAC 212.301 and 212.123 (Condition 5.2.2), the Permittee shall comply with the following requirements, as applicable:

3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182.

3.2.2 For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.

3.2.3 For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, which requires that organic material emissions not exceed 8.0 pounds per hour or do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.

3.3 Addition of Insignificant Activities

3.3.1 The Permittee is not required to notify the Illinois EPA of additional insignificant activities present at the source of a type that is identified in Condition 3.1, until the renewal application for this permit is submitted, pursuant to 35 IAC 201.212(a).

3.3.2 The Permittee must notify the Illinois EPA of any proposed addition of a new insignificant activity of a type addressed by 35 IAC 201.210(a) and 201.211 other than

those identified in Condition 3.1, pursuant to Section 39.5(12)(b) of the Act.

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

4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE

Emission Unit	Description	Emission Control Equipment
MB1	Combustion Engineering (1945) Nominal 505 mmBtu/hr	ESP
MB2	Combustion Engineering (1945) Nominal 505 mmBtu/hr	ESP
MB3	Combustion Engineering (1946) Nominal 505 mmBtu/hr	ESP
MB4	Combustion Engineering (1946) Nominal 505 mmBtu/hr	ESP
MB5	Combustion Engineering (1957) Nominal 2784 mmBtu/hr	ESP, FGC, LNB
MB6	Foster Wheeler (1972) Nominal 2,052 mmBtu/hr	FGR, OFA
Coal Handling Equipment	Coal Receiving Operations, Coal Crushing House, Coal Storage Operations	Enclosures and Covers
Breaker House	Coal Transfer and conveying Operation	Enclosures and Covers
Granulator	Coal Crushing Operation	Enclosures and Covers

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of 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 overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

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

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

5.2.3 Ozone Depleting Substances

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

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the

standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

5.2.4 Risk Management Plan

Should this stationary source pursuant to 40 CFR 68.215(a)(2)(i) and (ii), 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.

5.2.5 Future Emission Standards

a. Should this source become subject to a regulation under 40 CFR Parts 60, 61, or 63, or 35 IAC Subtitle B after the date issued of this permit, then the owner or operator shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 9.8.

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

5.2.6 Episode Action Plan

a. 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 a change occurs at the source that requires a revision of the plan (e.g., operational change, change in the source contact person), a copy of the revised plan shall be submitted to the Illinois EPA for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.

d. For sources required to have a plan pursuant to 35 IAC 244.142, a copy of the original plan and any subsequent revisions shall be sent to:

i. Illinois EPA, Compliance Section.

5.2.7 CAM Plan

This stationary source has a pollutant-specific emissions unit that is subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources. The source must submit a CAM plan for each affected pollutant-specific emissions unit upon application for renewal of the initial CAAPP permit, or upon a significant modification to the CAAPP permit for the construction or modification of a large pollutant-specific emissions unit which has the potential post-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

5.3 Non-Applicability of Regulations of Concern

None

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. The Permittee shall 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.

5.5.2 Emissions of Hazardous Air Pollutants (HAPs)

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

5.5.3 Other Source-Wide Emission Limitations

Other source-wide emission limitations are not set for this source pursuant to either the federal rules for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, state rules for Major Stationary Sources Construction and Modification, 35 IAC Part 203, or Section 502(b)(10) of the CAA. However, there may be unit specific emission limitations set forth in Section 7 of this permit pursuant to these rules.

5.6 General Recordkeeping Requirements

5.6.1 General Emission Records

The Permittee shall maintain records of the following items for the source to demonstrate compliance with Condition 5.5.1 and prepare its Annual Emission Report, pursuant to Section 39.5(7)(b) of the Act:

Total annual emissions on a calendar year basis for the emission units covered by Section 7 (Unit Specific Conditions) of this permit.

5.6.2 Retention and Availability of Records

a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.

5.7 General Reporting Requirements

5.7.1 General Source-Wide Reporting Requirements

The Permittee shall promptly notify the Illinois EPA, Compliance Section 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.

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.

5.8 General Operational Flexibility/Anticipated Operating Scenarios

None

5.9 General Compliance Procedures

None

6.0 EMISSIONS CONTROL PROGRAMS

6.1 NO_x Trading Program

6.1.1 Description of NO_x Trading Program

The NO_x Trading Program is a regional "cap and trade" market system for large sources of NO_x emissions in the eastern United States, including Illinois. It is designed to reduce and maintain NO_x 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, as required by Section 126 of the CAA. The NO_x Trading Program applies in addition to other applicable requirements for NO_x emissions and in no way relaxes these other requirements.

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

The NO_x Trading Program controls NO_x 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. (In 2004, the first year that the NO_x Trading Program is in effect, the control period will be May 31 through September 30.) By November 30 of each year, the allowance transfer deadline, each budget source must hold "NO_x allowances" for the actual NO_x emissions of its budget units during the preceding control period. The USEPA will then retire NO_x 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 NO_x emissions are accurately determined.

The number of NO_x allowances available for budget sources is set by the overall budget for NO_x 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 NO_x 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 NO_x allowances as described above, budget sources may transfer NO_x 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 NO_x emissions from budget units to comply with the overall NO_x budget. In particular, the NO_x 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 NO_x allowances from those units that can be transferred to other units at which it is more difficult to control NO_x 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 NO_x Trading Program with assistance from affected states. Illinois' rules for the NO_x 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 NO_x Trading Program, and which an individual state must follow to allow for interstate trading of allowances.

Note: This narrative description of the NO_x 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 NO_x 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, 2, 3, 4, 5, and 6

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 NO_x Trading Program

a. This source and the budget EGU at this source shall comply with all applicable requirements of Illinois' NO_x 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 NO_x 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 NO_x 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 NO_x 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 EGU's compliance account or the source's overdraft account in an amount that shall not be less than the budget EGU's total tons of NO_x 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., NO_x

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 NO_x 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 NO_x Trading Program is a limited authorization to emit one ton of NO_x in accordance with the NO_x Trading Program. As explained by 35 IAC 217.756(d)(6), no provisions of the NO_x 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 NO_x 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).

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).

Note: Pursuant to 40 CFR 96.70(b), existing budget EGU are to begin complying with applicable monitoring requirements of 40 CFR Part 96 at least one year in advance of the start of the first control period governed by the NO_x Trading Program.

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 NO_x Trading Program or documents necessary to demonstrate compliance with requirements of the NO_x 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 NO_x 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 NO_x 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 NO_x 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 NO_x allowances as follows. (The portion of Appendix F that applies to the Permittee is provided in Condition 6.1.12.) The number of NO_x allowances actually allocated for the budget EGU shall be the number of NO_x 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 NO_x Trading Program), an annual allocation of NO_x allowances as specified by 35 IAC 217.764(a)(1), i.e., the number of NO_x allowances listed in Appendix F, Column 7, and as provided by 35 IAC 217.768(j), a pro-rata share of any NO_x 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 NO_x allowances as specified by 35 IAC 217.764(b)(1), i.e., the number of NO_x allowances listed in Appendix F, Column 8, and as provided by 35 IAC 217.764(b)(4), a pro-rata share of any NO_x 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 NO_x allowances, i.e., the number of NO_x allowances listed in Appendix F, Column 8, and a pro-rata share of any NO_x 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 NO_x allowances, i.e., the number of NO_x allowances listed in Appendix F, Column 9, and a pro-rata share of any NO_x allowances remaining after the allocation of NO_x 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 NO_x allowances in the NSSA after the allocation of NO_x 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 NO_x allowances, i.e., the number of NO_x allowances listed in Appendix F, Column 9, and a pro-rata share of any NO_x allowances remaining after the allocation of NO_x allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2006, and a pro-rata share of any surplus of NO_x allowances in the NSSA following the allocation of NO_x allowances to new budget EGU.

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

Note: If the start of the NO_x Trading program is shifted because of a Court Decision, the years defining the different control periods would be considered to be adjusted accordingly, as provided by the Board note following 35 IAC 217.764.

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

i. The applicable NO_x 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 Eligibility for NO_x Allowances from the New Source Set-Aside (NSSA)

The Permittee is not eligible to obtain NO_x allowances for the budget EGU identified in Condition 6.1.2(a) from the NSSA, as provided by 35 IAC 217.768, because the budget EGU are “existing” budget EGU.

6.1.10 Eligibility for Early Reduction Credits (ERC)

The Permittee is eligible to request NO_x allowances for the budget EGU identified in Condition 6.1.2(a) for any early reductions in NO_x emissions, as provided by 35 IAC 217.770.

6.1.11 Budget Permit Required by the NO_x Trading Program

a. For this source, this segment of the CAAPP Permit, i.e., Section 6.1, is the Budget Permit required by the NO_x Trading Program and is intended to contain federally enforceable conditions addressing all applicable NO_x 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 NO_x 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 NO_x Trading Program, the application shall contain the information specified by 35 IAC 217.758(b)(2).

6.1.12 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
135805AAA	Meredosia 1	Boiler 1	33	26	17	31	26	16
135805AAA	Meredosia 1	Boiler 2	23	18	12	22	18	11
135805AAA	Meredosia 2	Boiler 3	23	18	12	21	18	11
135805AAA	Meredosia 2	Boiler 4	28	22	14	27	22	14
135805AAA	Meredosia 3	Boiler 5	432	346	216	410	339	212
135805AAA	Meredosia 4	Boiler 6	28	22	14	27	22	13

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, 2, 3, 4, 5, and 6

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, NO_x emissions of affected units (boilers 1, 2, 3, 4 and 5) 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. SO2 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 SO2 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.

NO_x:	Continuous Emissions Monitoring (40 CFR 75.12)
SO_2:	Continuous Emissions Monitoring (40 CFR 75.11)
Opacity:	Continuous Emission Monitoring (40 CFR 75.14)
CO_2:	Continuous Monitoring for carbon dioxide (40 CFR Part 75.13)

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 2 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 five 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 four boilers (MB1 - MB4), which were built in mid 1940s, and one boiler (MB5) was built in mid 1950s, have nominal capacities of 505 mmBtu/hour and 2784 mmBtu/hour, respectively. The boilers (MB1 – MB4) are served by one common stack and the boiler (MB5) is served by a separate stack. In addition to coal, these boilers fire fuel oil 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 (MB1 - MB4) are controlled by electrostatic precipitators and from the boiler (MB5) are controlled by electrostatic precipitators and flue gas conditioning system. Nitrogen oxides (NO_X) emissions from the boiler (MB5) are controlled by low NO_X burners.

7.1.2 List of Emission Units and Air Pollution Control Equipment

These unit-specific conditions address the following emission units:

Boiler ID	Description	Emission Control Equipment	Stack ID
MB1	Combustion Engineering (1945) Nominal 505 mmBtu/hr	ESP	S1
MB2	Combustion Engineering (1945) Nominal 505 mmBtu/hr	ESP	S1
MB3	Combustion Engineering (1946) Nominal 505 mmBtu/hr	ESP	S1
MB4	Combustion Engineering (1946) Nominal 505 mmBtu/hr	ESP	S1
MB5	Combustion Engineering (1957) Nominal 2784 mmBtu/hr	ESP, FGC, LNB	S2

7.1.3 Applicability Provisions

a. An "affected boiler" for the purpose of these unit-specific conditions, is an individual boiler that has a capacity in excess of 250 mmBtu/hr that has the capability of firing coal, as well as other fuel materials, for which construction commenced prior to August 17, 1971, as described in Conditions 7.1.1 and 7.1.2.

b. Startup Provisions

The Permittee is authorized to operate an affected boiler in violation of the applicable standards in Condition 5.2.2(b) (35 IAC 212.123), Condition 7.1.4(b) (35 IAC 212.203 for boilers 1-4, 35 IAC 212.202 for boiler 5), Condition 7.1.4(c) (35 IAC 214.184), Condition 7.1.4(d) (35 IAC 216.121), during startup subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262, as the Permittee "… has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual startups and frequency of startups.":

i. This authorization only extends for a period of up to 24 hours following initial firing of fuel for each startup event.

ii. The Permittee shall conduct startup of an affected boiler in accordance with the manufacturers' written instructions or other written instructions maintained on site that are specifically developed to minimize excess emissions from startups and that include, at a minimum, the following measures:

A. Review of the operational condition of an affected boiler prior to initiating startup of the boiler.

B. Use of oil burners as needed to heat the boiler prior to initiating burning of coal.

C. Review of the operating parameters of an affected boiler during each startup as necessary to make appropriate adjustments to the startup to reduce or eliminate excess emissions.

D. 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 requirements of Condition 7.1.9(g).

c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of an affected boiler in violation of the applicable requirements of Condition 5.2.2(b) (35 IAC 212.123), Condition 7.1.4(b) (35 IAC 212.203 for boilers 1-4, 35

IAC 212.202 for boiler 5), Condition 7.1.4(c) (35 IAC 214.184), 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) subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted "… proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment.":

i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

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

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

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.1.9(h) and 7.1.10(b).

iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.1.4 Applicable Emission Standards

a. The affected 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 affected boiler 5 shall not exceed 0.10 lb/mmBtu of actual heat input, pursuant to 35 IAC 212.202.

ii. The emissions of PM from each affected boiler 1-4 shall not exceed 0.2 lb/mmBtu of actual heat input, pursuant to 35 IAC 212.203. This standard applies because the affected boilers qualify 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 hourly emission rates based on the stricter of the original design or equipment performance test conditions that were less than 0.20 lb/mmBtu of actual heat input, i.e., 0.15 lb/mmBtu. Thereafter, under this rule, the emission rates are not allowed to degrade by more than 0.05 lb/mmBtu from the base emission rate, resulting in an emission standard of 0.2 lb/mmBtu.

c. The total emission** of SO_2 from the affected boilers shall not exceed 23,000 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: $P_1 + P_2 + \ldots + P_n = 1$)

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 stack (S1) for affected boilers MB-1 - MB-4 is 525 ft and for affected boiler MB-5 is 300 ft, but the GEP height is 211 ft.)

** This total SO_2 emission limitation includes residual oil fired boiler (MB 6), which is addressed in Section 7.4 of this permit.

d. The affected boilers are subject to 35 IAC 216.121 which provides that no person shall cause or allow the emission of CO into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

e. The affected boilers are subject a NO_X 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. 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).

B. The emissions of NOx from an affected boiler and other eligible EGU that are participating in a NOx averaging demonstration with an affected boiler as provided for by 35 IAC 217.708, shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period for these EGU, pursuant to 35 IAC 217.708(a) and (b). For this purpose, other eligible EGU include: (1) other affected boilers, (2) other EGU owned and operated by the Permittee at its plants in Coffeen (ID: 135803AAA), Grand Tower (ID: 077806AAA), Meredosia (ID: 137805AAA), Newton (ID: 079808AAA), Duck Creek (ID: 057801AAA), and Edwards (ID: 143805AAG), which are also authorized by this permit to participate in a NOx averaging demonstration, and (3) other EGU that are authorized to participate in a NOx averaging plan by a CAAPP permit or other federally enforceable permit issued to the owner or operator of those EGU.

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 NO_x averaging demonstration shall only include other EGU that are authorized through a federally enforceable permit to participate in a NO_x 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 NO_x 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 NO_x emission rates of the affected boiler were not averaged with other EGU, pursuant to 35 IAC 217.708(g).

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.

7.1.5 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected boilers not being subject to the following New Source Performance Standards (NSPS) for steam generators because the affected boilers commenced construction before August 17, 1971 and have not been modified thereafter, based on the NSPS definition of modification:

i. NSPS for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, 40 CFR 60 Subpart D.

ii. NSPS for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, 40 CFR 60 Subpart Da.

b. This permit is issued based on the affected boilers not being subject to the following Illinois rules for new fuel combustion emission units, because each affected boiler was constructed prior to April 14, 1972 and have not been modified thereafter:

i. 35 IAC 212.122, Visible Emissions Limitations for Certain Emission Units for Which Construction or Modification Commenced on or After April 14, 1972.

ii. 35 IAC 212.204, Emission Units For Which Construction or Modification Commenced On or After April 14, 1972.

iii. 35 IAC 214.121, Large New Fuel Combustion Emission Sources.

iv. 35 IAC 217.121, New Fuel Combustion Emission Sources.

c. i. The Permittee is shielded from the following rules for the affected boilers when the boilers are using solid fuel (coal) as its principle fuel:

A. 35 IAC 212.202, because affected boilers MB1 - MB4 qualify for the alternative limit pursuant to 35 IAC 212.203 (See Condition 7.1.4(b)).

B. 35 IAC 214.162, because each affected boiler is subject to 35 IAC 214.184 (Condition 7.1.4(c)). Compliance with 35 IAC 214.162 is inherent as a practical matter from compliance with Condition 7.1.4(c).

ii. If an affected boiler is not using solid fuel (coal) as its principle fuel, the affected boiler shall comply with the requirements of the following conditions. During such periods, Condition 7.1.5(c)(ii)(A), below for PM, shall substitute for Condition 7.1.4(b) and Condition 7.1.5(c)(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.

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.

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 natural gas and/or fuel oil are only used in incidental amounts for specific purposes, such as startup, opacity reduction emission mitigation, flame stabilization, outage of a coal pulverizer, or other temporary interruption in solid fuel supply, as associated with routine firing of solid fuel. A boiler shall not be considered to be using solid fuel as its principal fuel if natural gas and/or fuel oil are used in more than incidental amounts or solid fuel (coal) is used in incidental amounts.

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.

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

None

7.1.7 Testing Requirements

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

a. i. PM emission measurements shall be made under the following circumstances:

A. Prior to April 1, 2007.

B. Within 90 days of operating an affected boiler for more than 24 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)). Notwithstanding, the Illinois EPA may upon request of the Permittee provide more time for testing (if such time is reasonably needed to schedule and perform testing or coordinate testing with seasonal conditions) or waive this requirement (if other information, e.g., the margin of

compliance shown by previous testing, indicates compliance at such higher load).

** For this purpose, load shall be expressed in terms of either gross megawatt output or steam flow, consistent with the form of the records kept by the Permittee pursuant to Condition 7.1.9(a).

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

A. In conjunction with the initial measurements of PM emissions as required above, if not otherwise performed earlier in conjunction with emission testing or relative accuracy testing for SO_2 or NOx.

B. In conjunction with the subsequent measurements of PM emissions, unless performed in conjunction with prior testing for SO_2 or NOx or the previous CO measurement is no more than 100 ppm at 50 percent excess air, in which case CO measurements need not accompany the next PM measurements following the measurement in which CO emissions were shown to be no more than 100 ppm.

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

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 stacks associated with the affected boilers or another location in the exhaust ductwork of an individual boiler (in case of shared stack) as approved by the Illinois EPA. If the affected boilers with single stacks are operating in any grouping, the boilers and their associated controls shall be operated in a similar manner while measurements are being performed, so that the results typify all operating boilers. If the operation of the affect 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 Method 5
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

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 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 283.230.

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 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. Control equipment information, i.e., equipment condition and operating parameters during testing.

D. 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 opacity data (6-minute averages) measured during testing.

7.1.8 Monitoring Requirements

a. Pursuant to 35 IAC 201.401(a)(1)(A), 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. This monitoring equipment shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures shall reflect the manufacturer's instructions as adapted by the Permittee based on its experience.

ii. This monitoring equipment shall meet the performance specifications and operating requirements in Sections 3.1 through 3.8 of 40 CFR 51, Appendix P (1987), pursuant to 35 IAC 201.401(b).

iii. These monitors shall be the primary basis for quarterly reporting of exceedances of Conditions 5.2.2(b) and 7.1.4(a), in accordance with 35 IAC 201.405 (See Condition 7.1.10(a)).

iv. Notwithstanding the above, monitoring pursuant to 35 IAC 201.401 is not applicable during any period of a monitoring system or device malfunction if the Permittee demonstrates that the malfunction was unavoidable and is being repaired as expeditiously as practicable, pursuant to 35 IAC 201.404.

b. Pursuant to Section 39.5(7)(d)(iii) of the Act, the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of SO_2 from the affected boilers which 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. This monitoring equipment shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures address the requirements in 40 CFR Part 75.

c. Pursuant to 35 IAC 217.710(a), the Permittee, shall install, calibrate, maintain and operate continuous emissions monitoring systems (CEMS) for the measurements of NOx from the affected boilers, in accordance with the requirements of 40 CFR 75 Subpart B.

d. Pursuant to Sections 412 and 821 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. Records for Boiler Operation

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

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

ii. Records for each day when 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. Amount of coal consumed (tons/quarter).

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

vi. If the Permittee is relying on data for heat input for purposes of compliance with Condition 7.1.4(b) (35 IAC Part 212 Subpart E) or Condition 7.1.4(c) (Part 214 Subpart E) that is different from that recorded pursuant to the federal Acid Rain Program, heat input (mmBtu, on an hourly basis) or the conversion factors that the Permittee relies upon to convert from boiler load as recorded pursuant to Condition 7.1.9(a)(i) to hourly heat input.

b. Records for Control Device(s)

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

i. Electrostatic Precipitators (ESP)

Data shall be recorded at least once per shift for the ESP for the following operating parameters when each affected boiler is in operation. For this purpose, if numerical data is not displayed in the control room, the Permittee may record the status of the individual fields, provided that numerical data is recorded at least once per day:

A. Fields in service.

B. Primary voltages and currents.

C. Secondary voltages and currents.

D. Sparking rates.

ii. Flue Gas Conditioning (FGC) for boiler MB5

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

B. Operating and maintenance logs including usage of Molten Sulfur.

c. Records for Continuous Opacity Monitoring Systems

Pursuant to 35 IAC 201.407 and Section 39.5(7)(b) of the Act, the Permittee shall maintain records for the opacity monitoring system on the 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(a) and (e).

ii. Records for each affected boiler that identify the upper bound of the normal range of opacity measurements from the boilers, considering an hour of operation, within which compliance with Condition 7.1.4(b) is assured, with supporting explanation and documentation. At a minimum, these records shall be reviewed and revised as necessary following performance of additional PM emission tests on an affected boiler.

iii. Records to indicate compliance with Conditions 5.2.2(b), 7.1.4(a) and 7.1.4(b), including:

A. Each 6-minute period when the opacity was above the limitation of Conditions 5.2.2(b) and 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 normal range, as specified above in Condition 7.1.9(c)(ii), with date, time, operating condition if startup, malfunction/breakdown, or shutdown, further explanation of the incident, and whether 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)(b) of the Act, the Permittee shall maintain records for the SO_2 monitoring system on each affected boiler required by Condition 7.1.8(b) that as a minimum shall include:

i. Operating records for each SO_2 monitoring system, 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 an SO_2 monitor for a stack was inoperative, with date, time and reason.

G. Data reduction information used pursuant to Condition 7.1.12(c).

H. Quarterly reports submitted in accordance with Condition 7.1.10(a)(i)(F).

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

A. SO_2 emissions (lb/hour) from the affected boilers on an hourly basis, as derived from the data obtained by the SO_2 monitoring equipment.

B. The date and time of any three-hour block averaging period when the total SO_2 emission rate, as recorded above, exceeded 23,000 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

The Permittee shall maintain records for the NOx monitoring system on each affected boiler required by Condition 7.1.8(c) in accordance with the applicable recordkeeping requirements of 40 CFR 75, pursuant to 35 IAC 217.712(a), as a minimum shall include:

i. Operating records for each NOx monitoring system, 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 NO_X monitor for a stack was inoperative, with date, time and reason.

G. Data reduction information used pursuant to Condition 7.1.12(e).

H. Quarterly reports submitted in accordance with Condition 7.1.10(a)(i)(F).

ii. The Permittee shall maintain records for the NOx monitoring system on each affected boiler required by Condition 7.1.8(c) in accordance with the applicable recordkeeping requirements of 40 CFR 75, pursuant to 35 IAC 217.712(a).

f. Acid Rain Program

Records for the continuous emission monitoring required for 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 Section 39.5(7)(b) of the Act, the Permittee shall maintain records, related to startup of each affected boiler that at a minimum shall include the following:

i. Records of the source's established startup procedures for each affected boiler (as summarized in the CAAPP application).

ii. Records for each startup of an affected boiler that may result in excess opacity or PM emissions, including:

A. Date and description of startup, e.g., startup following scheduled maintenance outage.

B. Duration of the startup, from initial firing of fuel to achievement of normal operation, i.e., stable operation firing the principal fuel with control equipment operating to enable compliance.

C. If normal operation is not achieved within 16 hours or if established startup procedures are not followed:

I. An explanation why startup could not be completed sooner or established procedures could not be followed.

II. Documentation for the established startup procedures that were followed.

III. The time at which solid fuel (coal) firing was begun.

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

V. Molten Sulfur usage during startup for the FGC system.

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

h. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall maintain records, related to malfunction and breakdown for each affected boiler that as a minimum, shall include:

i. A maintenance and repair log for each affected boiler and associated equipment, listing activities performed with date.

ii. Records for each incident when operation of an affected boiler continued during malfunction or breakdown with excess emissions, as provided by Condition 7.1.3(c), including 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 7.1.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.1.10(b)(ii).

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

I. An explanation why continued operation of the affected boiler 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.

7.1.10 Reporting Requirements

a. Quarterly Operating Report

In place of the semi-annual reports required by General Permit Condition 8.6.1, the Permittee shall

provide a quarterly operating report to the Illinois EPA pursuant to Section 39.5(7)(b) of the Act.

i. This report shall include the following information for operation 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. The number of startups for each affected boiler.

E. 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(b)(ii). (See also notification and reporting requirements for individual incidents in Condition 7.1.10(b).)

F. The information related to SO2 and NOx emissions during the quarter specified by Condition 7.1.10(c) and 7.1.10(d).

G. The information related to opacity and particulate matter emissions during the quarter specified by Condition 7.1.10(e).

H. A summary of other noncompliance as separately reported pursuant to Condition 7.1.10(g)(ii).

ii. This report shall be submitted promptly after the end of every calendar quarter as follows:

Monitoring Period	Submittal Deadline
January - March	May 15
April - June	August 15
July – September	November 15

October - December	February 15

b. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, 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 during malfunction or breakdown with excess emissions as addressed by Condition 7.1.3(c). These requirements do not apply to such excess emissions, if any, that occur during shutdown of the affected boiler.

i. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected boiler exceeds 30 percent for more than five consecutive 6-minute averaging periods unless the Permittee has begun the shutdown of the affected boiler by such time. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds 30 percent for less than six 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10(a)(i)(E).)

ii. 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 event, an explanation why continued operation of an affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected boiler was taken out of service.

c. Reporting of SO_2 Emissions

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

i. Summary information on the performance of each SO_2 monitoring system, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the continuous SO_2 monitoring system 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 monitoring system 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 monitoring system was inoperative except for zero and span checks, and the nature of system 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 system 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).

D. The cause of the excess emissions, if known.

E. 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 a three-hour block emission averages during which the limitation was exceeded.

d. Reporting of NOx Emissions

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

i. Summary information on the performance of each NOx monitoring system, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the continuous NOx monitoring system 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 monitoring system 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 monitoring system was inoperative except for zero and span checks, and the nature of system 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 system was out-of-control as addressed by 40 CFR 75.24.

e. Reporting of Opacity and Particulate Matter Emissions

Pursuant to 35 IAC 201.405 and Sections 39.5(7)(b) 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(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 Conditions 5.2.2(b) and 7.1.4(a):

A. The starting dates and time of the excess opacity.

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 6 minute increment.

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

D. The cause of the excess opacity, if known, including which boiler(s) were contributing to excess opacity and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler.

E. Corrective actions and actions taken to lessen the emissions.

iv. The following information for each period when particulate matter emissions were in excess of the limitation in Condition 7.1.4(b). If there were no such exceedances during the reporting period, the quarterly report shall so state.

A. The starting dates and time of the excess emissions.

B. The duration of the excess emissions.

C. The magnitude of excess emissions.

D. The information or means by which excess emissions were indicated or identified.

E. The cause of the excess emissions, if known, including which affected boiler(s) were contributing to excess emissions and whether such excess emissions occurred during startup or malfunction/breakdown of the affected boiler(s).

F. Corrective actions and actions taken to lessen the emissions.

f. The Permittee shall submit a report by November 30 of each year, to the Illinois EPA that demonstrates that each affected boiler has complied with Condition 7.1.4(f). These reports shall be accompanied by a certification statement signed by a responsible official for the Permittee as specified by 35 IAC 217.712(c), pursuant to 35 IAC 217.712(c), (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(f)(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(f)(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.

g. Prompt Reporting of Deviations

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

i. Reporting as specified above in Conditions 7.1.10(b), (c), (d), and (e) for deviations from Conditions 5.2.2(b) and 7.1.4.

ii. Notification within 30 days for a deviation from Condition 7.1.6, if any, with a copy of applicable records for such incident or description of the incident and a discussion of the probable cause of such deviation, the corrective actions taken, and the preventative measures taken.

iii. Reporting of deviations with the quarterly reports required by Condition 7.1.10(a) for deviations from other applicable requirements, e.g., monitoring and recordkeeping requirements. For this purpose, these reports shall include a description of each incident, a discussion of the probable cause of the deviation, the corrective actions taken, and the preventative measures taken.

h. Acid Rain Program Reporting

Pursuant to Sections 412 and 821 of the Clean Air Act and 40 CFR Part 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.

7.1.11 Operational Flexibility/Anticipated Operating Scenarios

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

a. Operation of additional air pollution control equipment, which is addressed by a separate construction permit.

b. Firing of the following:

i. Coal or a mix of coal from different suppliers.

ii. Used oil, boiler cleaning residue, and other wastes generated at the source in conjunction with firing of coal. (Note: Other requirements may also apply to such materials as they constitute waste.).

iii. Alternative fuels, such as petroleum coke, that were not generated from hazardous waste or contain polyvinyl chloride (PVC) material, in conjunction with coal.

iv. Fuel quality non-hazardous waste generated off site or non-hazardous waste from a remediation project in which the Permittee is a responsible party, in conjunction with coal, provided that such wastes are shipped to the source in homogeneous form (e.g., a shipment of used tires or a shipment of feed corn, and provided that such waste can be accommodated with the existing burners and grates in the boiler(s).

Note: Other requirements unrelated to air pollution control may apply to firing of wastes and waste material, including prior approval of the firing of such waste from the local government, pursuant to Section 39.2 of the Act, as the source would then be considered a pollution control facility.

7.1.12 Compliance Procedures

a. i. Compliance with the opacity limitation of Conditions 5.2.2(b) 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 Conditions 7.1.9(c).

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.

B. Have the capability to review such short-term opacity data to identify:

I. For each affected boiler, any hour in which opacity, exceeded 30 percent, and then, in such hour the duration of opacity in excess of 30 percent; whether opacity ever exceeded 60 percent; and 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.

III. For each affected boiler, whether opacity exceeded 30 percent for more than an hour.

C. In the reports required by Condition 7.1.10(e), 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 Conditions 5.2.2(b) and 7.1.4(a)

even though opacity on a 6-minute average exceeded 30 percent.

D. 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 limitation 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 Conditions 7.1.9(c).

c. Compliance with the SO_2 emission limitation 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(d).

d. Compliance with the CO emission limitation of Condition 7.1.4(d) is addressed by emission testing in accordance with Condition 7.1.7. Further compliance procedures are not set by this permit as compliance is assumed to be inherent in operation of an affected boiler under operating conditions other than startup or shutdown.

e. Compliance with NOx emission limitation of Condition 7.1.4(f) is addressed by the recordkeeping required by Condition 7.1.9(e).

7.2 Coal Handling Equipment

7.2.1 Description

The Permittee transfers and stores coal in a series of operations, including barge unloading, 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, enclosures and covers, and dust collection devices.

7.2.2 List of Emission Units and Air Pollution Control Equipment

The following is a list of the coal handling operations and associated emission control systems at the source:

<u>Coal Receiving Operations</u>

Barge Unloading, Truck Unloading
Coal Transfer Conveyors
Dust Collection Devices, Enclosures and Covers

<u>Coal Crushing House</u>

Coal Transfer Conveyors
Dust Collection Devices, Enclosures and Covers

<u>Coal Storage Operations</u>

Outdoor Storage Piles
Coal Transfer Conveyors
Coal Storage Bunkers
Dust Collection Devices, Enclosures and Covers

7.2.3 Applicability Provisions

a. 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.

b. The Permittee is authorized to continue operation of an affected operation in violation of the applicable requirements of Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.2.6(c) in the event of a malfunction or breakdown of an affected operation subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has

submitted "… proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment.":

i. This authorization only allows such continued operation as necessary to provide essential service, prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

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

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

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.2.9(h) and 7.2.10(b).

iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.2.4 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 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. i. The affected operations are subject to the NSPS for Coal Preparation Plants, 40 CFR 60 Subparts A and Y, because the affected operations commenced construction or modification after October 24, 1974. The Illinois EPA administers the NSPS for subject sources in Illinois pursuant to a delegation agreement with the USEPA.

ii. Standard for Particulate Matter:

The affected operations shall not exhibit 20 percent opacity or greater into the atmosphere, pursuant to 40 CFR 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.

b. This permit is issued based on the affected operations not being subject to the requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because the individual affected operations do not meet the criteria of 40 CFR 64.2(a), i.e., the potential pre-control device emissions of particulate matter from each affected operation do not equal or exceed major source threshold levels.

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

a. 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. 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 a reasonable assurance of compliance with the applicable emission standards in Conditions 7.2.4 and 7.2.6, pursuant to Section 39.5(7)(a) of the Act.

ii. The Permittee shall operate and maintain each affected operation with the control measures identified in Condition 7.2.9(b).

c. i. The affected operations shall not exceed the following operational or PM emission limits:

Operation	Throughput (Tons)/(Year)	PM Emissions (Tons)/(Year)
Reclaim	1,100,000	22.0
Grizzly	1,100,000	33.0
Conveyor (A, B, C)	1,100,000	33.0 Each
Transfer (A, and B or C)	1,100,000	33.0 Each
Feeder	1,100,000	26.40

ii. Compliance with annual limitations shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

iii. The above limitations were established in Permit 02060025, pursuant to PSD, 40 CFR 52.21. These limitations ensure that the construction and/or modification addressed in these permit(s) does not constitute a major modification pursuant to Title I of the CAA, specifically the federal PSD rules [T1].

7.2.7 Testing Requirements

None

7.2.8 Inspection Requirements

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(b). These inspections may be scheduled so that only a number of affected operations are reviewed

during each inspection, provided however, that all affected operations shall be inspected at least once during each calendar quarter, pursuant to Section 39.5(7)(a) of the Act.

7.2.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected operations, pursuant to Section 39.5(7)(b) of the Act:

a. The Permittee shall keep a record, which shall be kept up to date, of the maximum operating capacity of each affected operation.

b. The Permittee shall maintain a record, which shall be kept up to date, of the control measures of the affected operations currently being implemented pursuant to Condition 7.2.6(b). These control measures are referred to as the "established control measures" in this subsection of this permit.

c. The Permittee shall maintain the following operating records:

   i. 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. Date and time the inspection was performed and name(s) of inspection personnel.

   ii. Area or specific operations inspected.

   iii. The observed condition of the established control measures for the inspected area or operations.

   iv. 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.

   v. A summary of compliance compared to the established control measures.

e. The Permittee shall maintain records of the following for each incident when any affected operation operated without the established control measures:

i. The date of the incident and identification of the affected operations that were involved.

ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.

iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.

iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.

v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.

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

vii. A discussion whether Condition 7.2.4(b) may have been violated during the incident, with supporting explanation as needed.

f. The Permittee shall keep a maintenance and repair log for each item of air pollution control equipment, i.e., each dust suppressant application system and each dust collection device, associated with affected operations. This log shall list the date and nature of maintenance and repair activities performed on the item of equipment. (See also Condition 9.6.1, Control Equipment Maintenance Records.)

g. To demonstrate compliance with Condition 7.2.6(c), the Permittee shall keep records for coal handling system of PM emissions (tons/month and tons/year), with supporting calculations.

h. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall maintain records, related to malfunction and breakdown for affected operations that as a minimum, shall include:

i. A maintenance and repair log for each affected operation and associated equipment, listing activities performed with date.

ii. Records for each incident when operation of an affected operation continued during malfunction or breakdown with excess emissions, as provided by Condition 7.2.3(b), including 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), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.2.10(b)(ii).

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

I. An 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.

7.2.10 Reporting Requirements

a. Reporting of Deviations

For the affected operations, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any

corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

i. Notification within 30 days for operation of an affected operations that was not in compliance with applicable requirements in Conditions 7.2.6(c) 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).

ii. Notification with the quarterly reports required by Condition 7.1.10(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.

b. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall provide the following notifications and reports to the Illinois EPA, concerning incidents when operation of an affected operation continued during malfunction or breakdown with excess emissions as addressed by Condition 7.2.3(b).

i. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected operation exceeds 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds 30 percent for less than six consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.2.10(a)(ii).

ii. 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 event, an explanation why continued operation of an affected operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected operation was taken out of service.

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. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for an activity for which a permit is required pursuant to 35 IAC 201.142.

a. Handling of solid fuels other than coal.

b. Operation of additional dust suppressant systems.

c. Operation of additional dust collection equipment.

d. Operation of replacement dust suppression systems or dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced.

7.2.12 Compliance Procedures

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

b. Compliance with Condition 7.2.6(c) is determined based on the control, inspection, and recordkeeping required by Conditions 7.2.6(a), 7.2.8, and 7.2.9, respectively, and published emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions.

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, 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
Breaker House	Coal Transfer and conveying Operation	Enclosures and Covers
Granulator	Coal Crushing Operation	Enclosures and Covers

7.3.3 Applicability Provisions

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

b. The Permittee is authorized to continue operation of an affected process in violation of the applicable requirements of Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.3.4(d), and Condition 7.3.6(c) in the event of a malfunction or breakdown of an affected process subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted "… proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment.":

   i. This authorization only allows such continued operation as necessary to provide essential service, prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

   ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected process or remove the affected process from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24

hours** or noon of the Illinois EPA's next business day**, whichever is later. The Permittee may obtain an extension for up to a total of 72 hours** from the Illinois EPA, Air Regional Office unless extraordinary circumstances exist. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that unusual circumstances exist, the affected process can not reasonably be repaired or removed from service within the allowed time, the affected process can not be repaired or removed from service as soon as practicable; and the Permittee is taking reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.

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

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.3.9(h) and 7.3.10(b).

iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.3.4 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), which addresses the opacity of the emission of smoke or other particulate matter from the affected processes, pursuant to 35 IAC 212.123.

c. i. The affected processes are subject to the NSPS for Coal Preparation Plants, 40 CFR 60 Subparts A and Y, because the affected processes commenced construction or modification after October 24, 1974. The Illinois EPA administers the NSPS for subject sources in Illinois

pursuant to a delegation agreement with the USEPA.

ii. Standard for Particulate Matter:

The affected processes shall not exhibit 20 percent opacity or greater into the atmosphere, pursuant to 40 CFR 60.252(c).

d. The affected processes are subject to 35 IAC 212.321(a), which provides that:

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

7.3.5 Non-Applicability of Regulations of Concern

a. This permit is issued based on the affected processes not being subject to the requirements of 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because the individual affected process does not meet the criteria of 40 CFR 64.2(a), i.e., the potential pre-control device emissions of particulate matter from each affected process do not equal or exceed major source threshold levels.

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

a. At all times, including periods of startup, shutdown, and malfunction, the Permittee shall, to the extent practicable, maintain and operate any affected process 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 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 a reasonable assurance of compliance with the

applicable emission standards in Conditions 7.3.4 and 7.3.6, pursuant to Section 39.5(7)(a) of the Act.

ii. The Permittee shall operate and maintain each affected process with the control measures identified in Condition 7.3.9(b).

c. i. The granulator shall not exceed 550,000 tons per year of material throughput [T1].

iii. PM emissions from the granulator shall not exceed 13.2 tons per year [T1].

v. Compliance with annual limitations shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total) [T1].

vi. The above limitations were established in Permits 02060025, pursuant to PSD, 40 CFR 52.21. These limitations ensure that the construction and/or modification addressed in these permit(s) does not constitute a major modification pursuant to Title I of the CAA, specifically the federal PSD rules [T1].

7.3.7 Testing Requirements

None

7.3.8 Inspection Requirements

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(b).

7.3.9 Recordkeeping Requirements

In addition to the records required by Condition 5.6, the Permittee shall maintain records of the following items for the affected processes, pursuant to Section 39.5(7)(b) of the Act:

a. The Permittee shall keep a record, which shall be kept up to date, of the maximum operating capacity of the affected processes.

b. i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures of the affected processes currently being implemented pursuant to Condition 7.3.6(b). These control measures are referred to as the "established control measures" in this subsection of this permit.

ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.3.4(d) at the maximum process weight rate at which each affected process can be operated (tons coal/hour), with supporting emission calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee (see also Condition 7.3.12).

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, for each affected process:

i. Date and time the inspection was performed and name(s) of inspection personnel.

ii. Area or specific operations inspected.

iii. The observed condition of the established control measures for the inspected area or operations.

iv. 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.

v. A summary of compliance compared to the established control measures.

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 Condition 7.3.4(b) may have been violated during the incident, with supporting explanation as needed.

f. The Permittee shall keep a maintenance and repair log for each item of air pollution control equipment, i.e., each dust suppressant application system and each dust collection device, associated with affected process(es). This log shall list the date and nature of maintenance and repair activities performed on the item of equipment. (See also Condition 9.6.1, Control Equipment Maintenance Records.)

g. To demonstrate compliance with Condition 7.3.6(c), the Permittee shall keep records for PM emissions of the affected processes (tons/month and tons/year), with supporting calculations.

h. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall maintain records, related to malfunction and breakdown for an affected process that as a minimum, shall include:

i. A maintenance and repair log for each affected process and associated equipment, listing activities performed with date.

ii. Records for each incident when operation of an affected process continued during malfunction or

breakdown with excess emissions, as provided by Condition 7.3.3(b), including 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. An explanation why continued operation of the affected process 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.

7.3.10 Reporting Requirements

a. Reporting of Deviations

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

i. Notification within 30 days for operation of an affected processes that was not in compliance with applicable requirements in Conditions 7.3.6(c) 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).

ii. Notification with the quarterly reports required by Condition 7.1.10(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.

b. Reporting of Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall provide the following notifications and reports to the Illinois EPA, concerning incidents when operation of an affected process continued during malfunction or breakdown with excess emissions as addressed by Condition 7.3.3(b).

i. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected process exceeds 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds 30 percent for less than six consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.3.10(a)(ii).

ii. 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 event, an explanation why continued operation of an affected process was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected process was taken out of service.

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. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for an activity for which a permit is required pursuant to 35 IAC 201.142.

a. Handling of solid fuels other than coal.

b. Operation of additional dust suppressant systems.

c. Operation of additional dust collection equipment.

d. Operation of replacement dust suppression systems or dust collection equipment that is of equal or greater effectiveness in controlling PM emissions than the device(s) being replaced.

7.3.12 Compliance Procedures

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

b. Compliance with Conditions 7.3.4(d) and 7.3.6(c) is determined based on the control, inspection, and recordkeeping required by Conditions 7.3.6(a), 7.3.8, and 7.3.9, respectively, and published emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions as identified in the records required by Condition 7.3.9(b) or by the use of measured emissions factors.

7.4 NSPS Residual Oil Fired Boiler

7.4.1 Description

The Permittee operates a residual fuel oil fired boiler for electric generation. The boiler is currently operated for peak load generation, normally operating as needed with multiple startups. The boiler, which was built in the 1972, has a nominal capacity of 2,052 mmBtu/hour and is served by a single stack. In addition to residual fuel oil, this boiler fires natural gas or distillate fuel oil during startup and for flame stabilization. Periodically small amounts of used oil or boiler cleaning residue are fired with the residual fuel oil in this boiler. Nitrogen oxide (NO_x) emissions from the boiler are controlled by low-NO_x burners, flue gas recirculation, and overfire air.

7.4.2 List of Emission Units and Air Pollution Control Equipment

These unit-specific conditions address the following emission units:

Boiler ID	Description	Emission Control Equipment	Stack ID
MB6	Foster Wheeler (1972) Nominal 2,052 mmBtu/hr	FGR, OFA	S3

7.4.3 Applicability Provisions

a. An "affected boiler" for the purpose of these unit-specific conditions, is an individual boiler that has a capacity in excess of 250 mmBtu/hr that has the capability of firing residual fuel oil, as well as other fuel materials, for which construction commenced after August 17, 1971, as described in Conditions 7.4.1 and 7.4.2.

b. Startup Provisions

The Permittee is authorized to operate an affected boiler in violation of the applicable standards in Condition 7.4.4(b) (35 IAC 212.206), Condition 7.4.4(c) (35 IAC 214.184), Condition 7.4.4(d) (35 IAC 216.121), and Condition 7.4.4(e) (35 IAC 217.121(b)) during startup subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262, as the Permittee "… has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual startups and frequency of startups.":

i. This authorization only extends for a period of up to 24 hours following initial firing of fuel for each startup event.

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

manufacturers' written instructions or other written instructions maintained on site that are specifically developed to minimize excess emissions from startups and that include, at a minimum, the following measures:

A. Review of the operational condition of an affected boiler prior to initiating startup of the boiler.

B. Use of natural gas or distillate fuel oil burners as needed to heat the boiler prior to initiating burning of residual fuel oil.

C. Review of the operating parameters of an affected boiler during each startup as necessary to make appropriate adjustments to the startup to reduce or eliminate excess emissions.

iii. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.4.9(g).

c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of an affected boiler in violation of the applicable requirements of Condition 7.4.4(b) (35 IAC 212.206), Condition 7.4.4(c) (35 IAC 214.184), Condition 7.4.4(d) (35 IAC 216.121), and Condition 7.4.4(e) (35 IAC 217.121(b)) in the event of a malfunction or breakdown of an affected boiler, including the coal pulverizer, the ash removal system, or flue gas conditioning subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted "… proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment.":

i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable reduce boiler load, repair the affected boiler, or remove the affected boiler from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24 hours** or noon of the

Illinois EPA's next business day**, whichever is later. The Permittee may obtain an extension for up to a total of 72 hours** from the Illinois EPA, Air Regional Office unless extraordinary circumstances exist. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that unusual circumstances exist, the affected boiler can not reasonably be repaired or removed from service within the allowed time, it will repair the affected boiler or remove the boiler from service as soon as practicable; and it is taking reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.

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

iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.4.9(h) and 7.4.10(b).

iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.4.4 Applicable Emission Standards

a. Federal emission standards

i. The affected boiler is subject to New Source Performance Standards (NSPS) for Fossil Fuel Fired Steam Generators, 40 CFR 60, Subparts A and D. The Illinois EPA is administering NSPS on behalf of the USEPA under a delegation agreement.

ii. Pursuant to the NSPS, emissions from the affected boiler shall not exceed the following emission standards:

Pollutant	Standard (lbs/mmBtu)	Rule
PM	0.10	40 CFR 60.42(a)(1)

SO_2	0.80	40 CFR 60.43(a)(1)
NO_x	0.30	40 CFR 60.44(a)(2)

iii. A. Opacity from the affected boiler shall not exceed 20 percent, as measured on a six minute average, except for one 6 minute period per hour of not more than 27 percent pursuant to NSPS, 40 CFR 60.42(a)(2).

B. Pursuant to 40 CFR 60.7(a) the above emission limitations do not apply during startup, malfunction/breakdown, and shutdown, as defined by 40 CFR 60.2. Notwithstanding this provision, exceedances of these limitations during startup, malfunction/breakdown, and shutdown are still subject to recordkeeping and reporting requirements under the NSPS.

iv. 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. The emissions of PM from the affected boiler shall not exceed 0.10 lb/mmBtu of actual heat input, pursuant to 35 IAC 212.206.

c. The total emission** of SO_2 from the affected boilers shall not exceed 23,000 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: $P_1 + P_2 + \ldots + P_n = 1$)

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 boiler is 325 ft, but the GEP height is 211 ft.)

** This total SO_2 emission limitation includes coal-fired boilers (MB1 – MB5), which are addressed in Section 7.1 of this permit.

d. The affected boiler is subject to 35 IAC 216.121 which provides that no person shall cause or allow the emission of CO into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.

e. The emissions of NOx from the affected boiler shall not exceed 0.3 lb/mmBtu of actual heat input, pursuant to 35 IAC 217.121(b).

f. 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).

B. The emissions of NOx from an affected boiler and other eligible EGU that are participating in a NOx averaging demonstration with an affected boiler as provided for by 35 IAC 217.708, shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period for these EGU, pursuant to 35 IAC 217.708(a) and (b). For this purpose, other eligible EGU include: (1) other affected boilers, (2) other EGU owned and operated by the Permittee at its plants in Coffeen (ID: 135803AAA), Grand Tower (ID: 077806AAA), Meredosia (ID: 137805AAA), Newton (ID: 079808AAA), Duck Creek (ID: 057801AAA), and Edwards (ID: 143805AAG), which are also authorized by this permit to participate in a NOx averaging demonstration, and (3) other EGU that are authorized to participate in a NOx averaging plan by a CAAPP permit or other federally enforceable permit issued to the owner or operator of those EGU.

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 NO_x averaging demonstration shall only include other EGU that are authorized through a federally enforceable permit to participate in a NO_x 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 NO_x averaging demonstration to show compliance shall be that the compliance status of the affected boiler shall be determined pursuant to Condition 7.4.4(f)(i)(A) as if the NO_x emission rates of the affected boiler were not averaged with other EGU, pursuant to 35 IAC 217.708(g).

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.

7.4.5 Non-Applicability of Regulations of Concern

a. The Permittee is hereby shielded from 35 IAC 212.122 and 35 IAC 212.123 [Condition 5.2.2(b)] for the affected boiler as it must comply with 40 CFR 60.42(a)(2) [Condition 7.4.4(a)(iii)]. This federal rule establishes an identical standard of general applicability, i.e., 20 percent opacity measured on a six minute average, as 35 IAC 212.122, the opacity standard for large new fuel combustion emission units. The Illinois EPA has determined that the exception in the federal rule, i.e., one 6-minute period per hour of up to 27 percent opacity, is comparable to the exception allowed by 35 IAC 212.122(b), i.e., up to three minutes aggregate per hour with up to 40 percent opacity and that for purpose of streamlined implementation and enforcement should be considered sufficient to show compliance with 35 IAC 212.122.

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

None

7.4.7 Testing Requirements

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

a. i. PM emission measurements shall be made under the following circumstances:

A. Prior to April 1, 2007.

B. Within 90 days of operating an affected boiler for more than 24 hours total in a calendar quarter at a load** that is more than 5 percent higher than the greatest load on the boiler, during the most recent set of PM tests on the affected boiler in which compliance is shown (refer to Condition 7.4.7(e)(iii)(D)). Notwithstanding, the Illinois EPA may upon request of the Permittee provide more time for testing (if such time is reasonably needed to schedule and perform testing or coordinate testing with seasonal conditions) or waive this requirement (if other information, e.g., the margin of compliance shown by previous testing, indicates compliance at such higher load).

** For this purpose, load shall be expressed in terms of either gross megawatt output or steam flow, consistent with the form of the records kept by the Permittee pursuant to Condition 7.4.9(a).

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

A. In conjunction with the initial measurements of PM emissions as required above, if not otherwise performed earlier in conjunction with emission testing or relative accuracy testing for SO_2 or NOx.

B. In conjunction with the subsequent measurements of PM emissions, unless performed in conjunction with prior testing for SO_2 or NOx or the previous CO measurement is no more than 100 ppm at 50 percent excess air, in which case CO measurements need not accompany the next PM measurements following the measurement in which CO emissions were shown to be no more than 100 ppm.

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

b. i. These measurements shall be performed at the maximum operating loads of the affected boiler and other operating conditions that are representative of normal operation. In addition, the Permittee may perform measurements at other operating conditions to evaluate variation in emissions.

ii. Measurements shall be taken at an appropriate location in the ductwork or stack associated with the affected boiler.

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 Method 5
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

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 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 283.230.

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 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. Control equipment information, i.e., equipment condition and operating parameters during testing.

D. 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 opacity data (6-minute averages) measured during testing.

7.4.8 Monitoring Requirements

a. Pursuant to NSPS, 40 CFR 60.45 and 35 IAC 201.401(a)(1)(A), the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of opacity from the affected boiler.

   i. This monitoring equipment shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures shall reflect the manufacturer's instructions as adapted by the Permittee based on its experience.

   ii. This monitoring equipment shall meet the performance specifications and operating requirements in Sections 3.1 through 3.8 of 40 CFR 51, Appendix P (1987), pursuant to 35 IAC 201.401(b).

   iii. These monitors shall be the primary basis for quarterly reporting of exceedances of Conditions 7.4.4(a)(ii), 7.4.4(a)(iii), and 7.4.4(b), in accordance with 40 CFR 60.7(c) and 60.45(g) and 35 IAC 201.405 (See Condition 7.4.10(a)).

   iv. Notwithstanding the above, monitoring pursuant to 35 IAC 201.401 is not applicable during any period of a monitoring system or device malfunction if the Permittee demonstrates that the malfunction was unavoidable and is being repaired as expeditiously as practicable, pursuant to 35 IAC 201.404.

b. Pursuant to Section 39.5(7)(d)(iii) of the Act and the NSPS, 40 CFR 60.45, the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of SO_2 from the affected boiler which shall be used to demonstrate compliance with the limits in Condition 7.4.4(a)(ii) and 7.4.4(c) based on the average hourly SO_2 emission rate determined from monitored data from three-hour rolling averaging periods. This monitoring equipment shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures address the requirements in 40 CFR Part 75.

   Note: This permit is issued based on the Permittee performing continuous emission monitoring for SO_2 rather than fuel sampling and analysis for sulfur content as allowed by 40 CFR 60.45(b)(2). In addition, the permit allows the use of an "Acid Rain Monitoring System", operated to comply with 40 CFR Part 75, in lieu of an "NSPS Monitoring System", as authorized by USEPA guidance from the Stationary Source Compliance Division of the Office of Air Quality Planning and Standards, as such monitoring is equivalent or more stringent.

c. Pursuant to 35 IAC 217.710(a), the Permittee, shall install, calibrate, maintain and operate continuous emissions monitoring systems (CEMS) for the measurements of NOx from the affected boiler, in accordance with the requirements of 40 CFR 75 Subpart B.

d. Pursuant to Sections 412 and 821 of the Clean Air Act and 40 CFR Part 75, the source is required to operate continuous monitors for the affected boiler 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)

e. Pursuant to NSPS, 40 CFR 60.45 and 35 IAC 201.401(a)(1)(B), the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of NO_x from the affected boiler, which shall be used to demonstrate compliance with the limits in Condition 7.4.4(a)(ii) and 7.4.4(e) based on the average hourly NO_x emission rate determined from monitored data from three-hour rolling averaging periods.

i. This monitoring equipment shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures shall reflect the manufacturer's instructions as adapted by the Permittee based on its experience.

ii. This monitoring equipment shall meet the performance specifications and operating requirements in Sections 3.1 through 3.8 of 40 CFR 51, Appendix P (1987), pursuant to 35 IAC 201.401(b).

iii. These monitors shall be the primary basis for quarterly reporting of exceedances of Conditions 7.4.4(a)(ii), and 7.4.4(e), in accordance with 40 CFR 60.7(c) and 60.45(g) and 35 IAC 201.405 (See Condition 7.4.10(a)).

7.4.9 Recordkeeping Requirements

a. Records for Boiler Operation

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

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

ii. Records for each day when a liquid fuel material other than residual fuel oil, gas or distillate fuel 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 the affected boiler.

iv. Amount of residual fuel oil consumed (gallons/quarter).

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

vi. If the Permittee is relying on data for heat input for purposes of compliance with Conditions 7.4.4(a)(ii) and 7.4.4(b) (35 IAC Part 212 Subpart E) or Condition 7.4.4(c) (Part 214 Subpart E) that is different from that recorded pursuant to the federal Acid Rain Program, heat input (mmBtu, on an hourly basis) or the conversion factors that the Permittee relies upon to convert from boiler load as recorded pursuant to Condition 7.4.9(a)(i) to hourly heat input.

b. Records for Control Device(s)

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

None

c. Records for Continuous Opacity Monitoring Systems

Pursuant to 35 IAC 201.407, Section 39.5(7)(b) of the Act, and the NSPS, 40 CFR 60.45, the Permittee shall maintain records for the opacity monitoring system on the affected boiler required by Condition 7.4.8(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 NSPS, 40 CFR 60.7(c) and Condition 7.4.10(a) and (e).

ii. Records for the affected boiler that identify the upper bound of the normal range of opacity measurements from the boiler, considering an hour of operation, within which compliance with Conditions 7.4.4(a)(ii) and 7.4.4(b) is assured, with supporting explanation and documentation. At a minimum, these records shall be reviewed and revised as necessary following performance of additional PM emission tests on an affected boiler.

iii. Records to indicate compliance with Conditions 7.4.4(a)(ii), 7.4.4(a)(iii), and 7.4.4(b) including:

A. Each 6-minute period when the opacity was above the limitation of Conditions 7.4.4(a)(iii) and 7.4.4(b) (20 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 the affected boiler was above the normal range, as specified above in Condition 7.4.9(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 Conditions 7.4.4(a)(ii) and 7.4.4(b), with explanation.

d. Records for Continuous SO_2 Monitoring Systems

Pursuant to Section 39.5(7)(b) of the Act and the NSPS, 40 CFR 60.45, the Permittee shall maintain records for the SO_2 monitoring system on the affected

boiler required by Condition 7.4.8(b) that as a minimum shall include:

i. Operating records for each SO_2 monitoring system, including:

A. SO_2 emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e).

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 an SO_2 monitor for a stack was inoperative, with date, time and reason.

G. Data reduction information used pursuant to Condition 7.4.12(c).

H. Quarterly reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Condition 7.4.10(a)(i)(F).

ii. Records to verify compliance with the limitation of Condition 7.4.4(a)(ii) and 7.4.4(c), including:

A. SO_2 emissions in lb/mmBtu from the affected boiler on an hourly basis, as derived from the data obtained by the SO_2 monitoring equipment.

B. The date and time of any three-hour rolling averaging period when the total SO_2 emission rate, as recorded above, exceeded 0.8 lb/mmBtu as allowed by Condition 7.4.4(a)(ii) and 7.4.4(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 7.4.4(a)(ii) and 7.4.4(c).

e. Records for Continuous NOx Monitoring

Pursuant to 35 IAC 217.712(a), Section 39.5(7)(b) of the Act and the NSPS, 40 CFR 60.45, the Permittee shall maintain records for the NOx monitoring system on the affected boiler required by Condition 7.4.8(c) and 7.4.8(e) in accordance with the applicable

recordkeeping requirements of 40 CFR 75, that as a minimum shall include:

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

A. NOx emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e).

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 NOx monitor was inoperative, with date, time and reason.

G. Data reduction information used pursuant to Condition 7.4.12(e).

H. Quarterly reports submitted in accordance with Condition 7.4.10(a)(i)(F).

ii. The Permittee shall maintain records for the NOx monitoring system on the affected boiler required by Condition 7.4.8(c) and 7.4.8(e) in accordance with the applicable recordkeeping requirements of 40 CFR 75, pursuant to 35 IAC 217.712(a).

iii. Records to verify compliance with the limitation of Condition 7.4.4(a)(ii) and 7.4.4(e) including:

A. NOx emissions in lb/mmBtu from the affected boiler on an hourly basis, as derived from the data obtained by the NOx monitoring equipment.

B. The date and time of any three-hour rolling averaging period when the total NOx emission rate, as recorded above, exceeded 0.3 lb/mmBtu as allowed by Condition 7.4.4(a)(ii) and 7.4.4(e), with the calculated NOx emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Condition 7.4.4(a)(ii) and 7.4.4(e).

f. Acid Rain Program

Records for the continuous emission monitoring required for 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 Section 39.5(7)(b) of the Act, the Permittee shall maintain records, related to startup of the affected boiler that at a minimum shall include the following:

i. Records of the source's established startup procedures for the affected boiler (as summarized in the CAAPP application).

ii. Records for each startup of an affected boiler that may result in excess opacity or PM emissions, including:

A. Date and description of startup, e.g., startup following scheduled maintenance outage.

B. Duration of the startup, from initial firing of fuel to achievement of normal operation, i.e., stable operation firing the principal fuel with control equipment operating to enable compliance.

C. If normal operation is not achieved within 16 hours or if established startup procedures are not followed:

I. An explanation why startup could not be completed sooner or established procedures could not be followed.

II. Documentation for the established startup procedures that were followed.

III. The time at which residual fuel oil firing was begun.

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

h. Records for Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, the Permittee shall maintain records, related to malfunction and breakdown for the affected boiler that as a minimum, shall include:

i. A maintenance and repair log for each affected boiler and associated equipment, listing activities performed with date.

ii. Records for each incident when operation of an affected boiler continued during malfunction or breakdown with excess emissions, as provided by Condition 7.4.3(c), including 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 7.4.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.4.10(b)(ii).

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

I. An explanation why continued operation of the affected boiler 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.

7.4.10 Reporting Requirements

a. Quarterly Operating Report

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

i. This report shall include the following information for operation during the quarter:

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

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

C. A discussion of significant changes in the fuel supply to the affected boiler, if any, including the introduction of new liquid fuel materials other than residual fuel oil, gas and distillate fuel oil, and changes in the source of such other liquid fuel materials, or the maximum rate at which they will be fired.

D. The number of startups for the affected boiler.

E. A summary of the records required by Condition 7.4.9(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 7.4.10(b)(ii). (See also notification and reporting requirements for individual incidents in Condition 7.4.10(b).)

F. The information related to SO2 and NOx emissions during the quarter specified by Condition 7.4.10(c) and 7.4.10(d).

G. The information related to opacity and particulate matter emissions during the quarter specified by Condition 7.4.10(e).

H. A summary of other noncompliance as separately reported pursuant to Condition 7.4.10(g)(ii).

ii. This report shall be submitted promptly 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 Continued Operation During Malfunctions And Breakdowns

Pursuant to 35 IAC 201.263, 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 during malfunction or breakdown with excess emissions as addressed by Condition 7.4.3(c). These requirements do not apply to such excess emissions, if any, that occur during shutdown of the affected boiler.

i. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected boiler exceeds 20 percent for more than five consecutive 6-minute averaging periods unless the Permittee has begun the shutdown of the affected boiler by such time. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds 20 percent for less than six 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.4.10(a)(i)(E).)

ii. 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 event, an explanation why continued operation of an affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected boiler was taken out of service.

c. Reporting of SO_2 Emissions

Pursuant to Sections 39.5(7)(f) of the Act and the NSPS 40 CFR 60.45(g), the Permittee shall report the following information to the Illinois EPA in accordance with 40 CFR 60.7(c) for the affected boiler with its quarterly operating reports pursuant to Condition 7.4.10(a):

i. Summary information on the performance of each SO_2 monitoring system, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the continuous SO_2 monitoring system 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 monitoring system 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 monitoring system was inoperative except for zero and span checks, and the nature of system 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 system 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 applicable standards specified in Condition 7.4.4(a)(ii) and 7.4.4(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 7.4.9(d)(ii).

D. The cause of the excess emissions, if known.

E. Corrective actions and actions taken to lessen the emissions.

** - For the purpose reporting excess SO_2 emissions, the averaging period is a three-hour rolling average, as used to determine compliance with the limitations of Condition 7.4.4(a)(ii) and 7.4.4(c). The records for excess emissions shall consist of a three-hour rolling emission averages during which the limitation was exceeded.

d. Reporting of NOx Emissions

Pursuant to Sections 39.5(7)(f) of the Act and the NSPS 40 CFR 60.45(g), the Permittee shall report the following information for the affected boiler to the Illinois EPA in accordance with 40 CFR 60.7(c) with its quarterly operating reports pursuant to Condition 7.4.10(a):

i. Summary information on the performance of each NOx monitoring system, including the information

for a "Summary Report" specified by 40 CFR 60.7(d). When the continuous NOx monitoring system 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 monitoring system 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 monitoring system was inoperative except for zero and span checks, and the nature of system 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 system was out-of-control as addressed by 40 CFR 75.24.

iii. The following information for each period when NOx emissions were in excess of the limitation in Condition 7.4.4(e)**. When there were no such exceedances, this shall be stated in the report:

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

B. The duration of the excess emissions.

C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.4.9(e)(ii).

D. The cause of the excess emissions, if known.

E. Corrective actions and actions taken to lessen the emissions.

** - For the purpose of reporting excess NO_X emissions, the averaging period is a three-hour rolling average, as used to determine compliance with the limitations of Condition 7.4.4(a)(ii) and 7.4.4(e). The records for excess emissions shall consist of a three-hour rolling emission averages during which the limitation was exceeded.

e. Reporting of Opacity and Particulate Matter Emissions

Pursuant to 35 IAC 201.405, Sections 39.5(7)(b) and (f) of the Act and the NSPS, 40 CFR 60.45(g), the Permittee shall report the following information for

the affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.4.10(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 applicable standards specified in Conditions 7.4.4(a)(iii) and 7.4.4(b), 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 defined under 40 CFR 60.45(g)(1). When there were no such exceedances, this shall be stated in the report.

A. The starting dates and time of the excess opacity.

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 6-minute increment.

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

D. The cause of the excess opacity, if known, including which boiler(s) were contributing to excess opacity and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler.

E. Corrective actions and actions taken to lessen the emissions.

iv. The following information for each period when particulate matter emissions were in excess of the limitation in Conditions 7.4.4(a)(ii) and 7.4.4(b). If there were no such exceedances during the reporting period, the quarterly report shall so state.

A. The starting dates and time of the excess emissions.

B. The duration of the excess emissions.

C. The magnitude of excess emissions.

D. The information or means by which excess emissions were indicated or identified.

E. The cause of the excess emissions, if known, including which affected boiler(s) were contributing to excess emissions and whether such excess emissions occurred during startup or malfunction/breakdown of the affected boiler(s).

F. Corrective actions and actions taken to lessen the emissions.

f. The Permittee shall submit a report by November 30 of each year, to the Illinois EPA that demonstrates that the affected boiler has complied with Condition 7.4.4(f). These reports shall be accompanied by a certification statement signed by a responsible official for the Permittee as specified by 35 IAC 217.712(c), pursuant to 35 IAC 217.712(c), (d), and (e).

i. If the Permittee is demonstrating compliance on a unit-specific basis with Condition 7.4.4(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.

A. In all cases, for the 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 7.4.10(f)(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 7.4.10(f)(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.

g. Prompt Reporting of Deviations

For the affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows. Such notifications shall include a description of each incident and a discussion of the probable cause of deviation, any

corrective actions taken and any preventative measures taken, pursuant to Section 39.5(7)(f)(ii) of the Act:

i. Reporting as specified above in Conditions 7.4.10(b), (c), (d), and (e) for deviations from Condition 7.4.4.

ii. Notification within 30 days for a deviation from Condition 7.4.6, if any, with a copy of applicable records for such incident or description of the incident and a discussion of the probable cause of such deviation, the corrective actions taken, and the preventative measures taken.

iii. Reporting of deviations with the quarterly reports required by Condition 7.4.10(a) for deviations from other applicable requirements, e.g., monitoring and recordkeeping requirements. For this purpose, these reports shall include a description of each incident, a discussion of the probable cause of the deviation, the corrective actions taken, and the preventative measures taken.

h. Acid Rain Program Reporting

Pursuant to Sections 412 and 821 of the Clean Air Act and 40 CFR Part 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.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

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

a. Operation of additional air pollution control equipment, which is addressed by a separate construction permit.

b. Firing of the following:

i. Residual fuel oil or a mix of residual fuel oil from different suppliers.

ii. Used oil, boiler cleaning residue, and other liquid wastes generated at the source in conjunction with firing of residual fuel oil. (Note: Other requirements may also apply to such materials as they constitute waste.).

iii. Fuel quality non-hazardous liquid waste generated off site or non-hazardous liquid waste from a remediation project in which the Permittee is a responsible party, in conjunction with residual fuel oil, provided that such liquid wastes are shipped to the source in homogeneous form, and provided that such waste can be accommodated with the existing burners and grates in the boiler(s).

Note: Other requirements unrelated to air pollution control may apply to firing of liquid wastes and liquid waste material, including prior approval of the firing of such liquid waste from the local government, pursuant to Section 39.2 of the Act, as the source would then be considered a pollution control facility.

7.4.12 Compliance Procedures

a. Compliance with the opacity limitation of Conditions 7.4.4(a)(iii) and 7.4.4(b) (20 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 7.4.8(a) and the recordkeeping requirements of Conditions 7.4.9(c).

b. Compliance with PM emission limitation of Conditions 7.4.4(a)(ii) and 7.4.4(b) is addressed by continuous opacity monitoring in accordance with Condition 7.4.8(a), PM testing in accordance with Condition 7.4.7, and the recordkeeping required by Conditions 7.4.9(c).

c. Compliance with the SO_2 emission limitation of Condition 7.4.4(a)(ii) and 7.4.4(c) is addressed by continuous emission monitoring in accordance with Condition 7.4.8(b) and the recordkeeping required by Condition 7.4.9(d).

d. Compliance with the CO emission limitation of Condition 7.4.4(d) is addressed by emission testing in accordance with Condition 7.4.7. Further compliance

procedures are not set by this permit as compliance is assumed to be inherent in operation of an affected boiler under operating conditions other than startup or shutdown.

e. Compliance with NOx emission limitations of Conditions 7.4.4(a)(ii), 7.4.4(e) and 7.4.4(f) is addressed by the recordkeeping required by Condition 7.4.9(e).

8.0 GENERAL PERMIT CONDITIONS

8.1 Permit Shield

Pursuant to Section 39.5(7)(j) of the Act, the Permittee has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the Illinois EPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit.

This permit shield does not extend to applicable requirements which are promulgated after _____**{insert public notice start date}** (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

8.2 Applicability of Title IV Requirements (Acid Deposition Control)

This source is 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 5.2. 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].

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

8.4 Operational Flexibility/Anticipated Operating Scenarios

8.4.1 Changes Specifically Addressed by Permit

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

8.4.2 Changes Requiring Prior Notification

The Permittee is authorized to make physical or operational changes that contravene express permit terms

without applying for or obtaining an amendment to this permit, provided that [Section 39.5(12)(a)(i) of the Act]:

a. The changes do not violate applicable requirements;

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

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

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

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

   i. Describe the physical or operational change;

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

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

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

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

8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods. 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 Condition 8.6.

8.6 Reporting Requirements

8.6.1 Monitoring Reports

If monitoring is required by any applicable requirements or conditions of this permit, a report summarizing the required monitoring results, as specified in the conditions of this permit, shall be submitted to the Air Compliance Section of the Illinois EPA every six months as follows [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 determination of emissions and operation which are intended to be made, including sampling and monitoring locations;

e. The test method(s) which 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. The following addresses should be utilized for the submittal of reports, notifications, and renewals:

i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency (MC 40)
Bureau of Air
Compliance Section
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. Illinois EPA - Air Permit Section (MC 11)

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

iv. USEPA Region 5 - Air Branch

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

b. Unless otherwise specified in the particular provision of this permit, reports shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

8.7 Obligation to Comply with Title I Requirements

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

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

9.1.1 The issuance of this permit does not release the Permittee from compliance with State and Federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statutes and regulations of the United States or the State of Illinois or applicable ordinances, except as specifically stated in this permit and as allowed by law and rule [Section 39.5(7)(j)(iv) of the Act].

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

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

b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;

c. The applicable requirements of the acid rain program consistent with Section 408(a) of the CAA; and

d. The ability of USEPA to obtain information from a source pursuant to Section 114 (inspections, monitoring, and entry) of the CAA.

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

9.2 General Obligations of Permittee

9.2.1 Duty to Comply

The Permittee must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action, permit termination, revocation and reissuance, modification, or denial of a permit renewal application [Section 39.5(7)(o)(i) of the Act].

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

9.2.2 Duty to Maintain Equipment

The Permittee shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements.

9.2.3 Duty to Cease Operation

No person shall cause, threaten or allow the continued operation of any emission unit during malfunction or breakdown of the emission unit or related air pollution control equipment if such operation would cause a violation of an applicable emission standard, regulatory requirement, ambient air quality standard or permit limitation unless such malfunction or breakdown is allowed by a permit condition [Section 39.5(6)(c) of the Act].

9.2.4 Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated thereunder.

9.2.5 Duty to Pay Fees

The Permittee must pay fees to the Illinois EPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto [Section 39.5(7)(o)(vi) of the Act]. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois Environmental Protection Agency, P.O. Box 19276, Springfield, Illinois 62794-9276.

9.3 Obligation to Allow Illinois EPA Surveillance

Upon presentation of proper credentials and other documents, the Permittee shall allow the Illinois EPA, or an authorized representative to perform the following [Section 39.5(7)(a) and (p)(ii) of the Act and 415 ILCS 5/4]:

a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

d. Sample or monitor any substances or parameters at any location:

i. At reasonable times, for the purposes of assuring permit compliance; or

ii. As otherwise authorized by the CAA, or the Act.

e. Obtain and remove samples of any discharge or emission of pollutants authorized by this permit; and

f. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

9.4 Obligation to Comply With Other Requirements

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

9.5 Liability

9.5.1 Title

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

9.5.2 Liability of Permittee

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

9.5.3 Structural Stability

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

9.5.4 Illinois EPA Liability

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

9.5.5 Property Rights

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

9.6 Recordkeeping

9.6.1 Control Equipment Maintenance Records

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

9.6.2 Records of Changes in Operation

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

9.6.3 Retention of Records

a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].

b. Other records required by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

9.7 Annual Emissions Report

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

9.8 Requirements for Compliance Certification

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

a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both

currently and over the reporting period consistent with the conditions of this permit.

b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.

c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

9.9 Certification

Any document (including reports) required to be submitted by this permit shall contain a certification by a responsible official of the Permittee that meets the requirements of Section 39.5(5) of the Act [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included as an attachment to this permit.

9.10 Defense to Enforcement Actions

9.10.1 Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit [Section 39.5(7)(o)(ii) of the Act].

9.10.2 Emergency Provision

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

i. An emergency occurred as provided in Section 39.5(7)(k) of the Act and the Permittee can identify the cause(s) of the emergency. Normally, an act of God such as lightning or flood is considered an emergency;

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, reopened, and reissued, for cause pursuant to Section 39.5(15) of the Act. The filing of a request by the Permittee for a permit modification, revocation, and reissuance, 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 inaccurate statement when 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 to ensure compliance with the applicable requirements of the Act.

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 under Section 39.5(15)(b) 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, and should any one or more be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected. 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

The right to operate terminates on the expiration date unless the Permittee has submitted a timely and complete renewal application. For a renewal to be timely it must be submitted no later than 9 and no sooner than 12 months prior to expiration. The equipment may continue to operate during the renewal period until final action is taken by the Illinois EPA, in accordance with the original permit conditions [Section 39.5(5)(l), (n), and (o) of the Act].

10.0 ATTACHMENTS

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

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

a. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].

b. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.321(b)]:

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

where:

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

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

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

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

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

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77

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

10. 2 Attachment 2 Emissions of Particulate Matter from Existing Process Emission Units

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

a. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit for which construction or modification commenced prior to April 14, 1972, which, either alone or in combination with the emission of particulate matter from all other similar process emission at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.322 [35 IAC 212.322(a)].

b. Interpolated and extrapolated values of the data in subsection (c) of 35 IAC 212.321 shall be determined by using the equation [35 IAC 212.322(b)]:

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

where:

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

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

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

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

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

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
0.05	0.27	0.05	0.55
0.1	0.42	0.10	0.87
0.2	0.68	0.2	1.40
0.3	0.89	0.30	1.83
0.4	1.07	0.40	2.22

0.5	1.25	0.50	2.58
0.7	1.56	0.75	3.38
0.9	1.85	1.00	4.10
1.8	2.9	2.00	6.52
2.7	3.9	3.00	8.56
3.6	4.7	4.00	10.40
4.5	5.4	5.00	12.00
9.0	8.7	10.00	19.20
13.0	11.1	15.00	25.20
18.0	13.8	20.00	30.50
23.0	16.2	25.00	35.40
27.2	18.15	30.00	40.00
32.0	18.8	35.00	41.30
36.0	19.3	40.00	42.50
41.0	19.8	45.00	43.60
45.0	20.2	50.00	44.60
90.0	23.2	100.00	51.20
140.0	25.3	150.00	55.40
180.0	26.5	200.00	58.60
230.0	27.7	250.00	61.00
270.0	28.5	300.00	63.10
320.0	29.4	350.00	64.90
360.0	30.0	400.00	66.20
400.0	30.6	450.00	67.70
454.0	31.3	500.00	69.00

10. 3 Attachment 3 Example Certification by a Responsible Official

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

Signature: _____

Name: _____

Official Title: _____

Telephone No.: _____

Date Signed: _____

10. 4 Attachment 4 Guidance

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

Guidance On Revising A CAAPP Permit:

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

Guidance On Renewing A CAAPP Permit:

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

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

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

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

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

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

10.5 Attachment 5 Acid Rain Program Permit

217-782-2113

ACID RAIN PROGRAM
PHASE II PERMIT- REVISED

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

Oris No.: 864
IEPA I.D. No.: 137805AAA
Source/Unit: Meredosia - Units 1-5
Date Received: June 27, 2002
Date Issued: January 21, 2003
Effective Date: January 1, 2000
Expiration Date: December 31, 2004

STATEMENT OF BASIS:

In accordance with Section 39.5(17)(b), Title IV; Acid Rain Provisions, of the Illinois Environmental Protection Act [415 ILCS 5/1 et Seq.] and Titles IV and V of the Clean Air Act, the Illinois Environmental Protection Agency is revising this Acid Rain Program Phase II permit for the Ameren Energy Generating Company Meredosia plant to incorporate nitrogen oxides emission limitation compliance plan requirement.

SULFUR DIOXIDE (SO_2) ALLOCATIONS AND NITROGEN OXIDES (NO_x) REQUIREMENTS FOR EACH AFFECTED UNIT:

		2000	2001	2002	2003	2004
UNIT 1	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	298	298	298	298	298

UNIT 1	NO_x Limit	Pursuant to 40 CFR 76.11, the Illinois EPA approves a NO_x emissions averaging plan for this unit that is effective for calendar years 2002, 2003 and 2004. Under this plan, except as provided below, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu and this unit shall not have an annual heat input more than 2,000,000 mmBtu. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit. In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76,

		including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

		2000	2001	2002	2003	2004
UNIT 2	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	322	322	322	322	322

UNIT 2	NO_x limit	Pursuant to 40 CFR 76.11, the Illinois EPA approves three NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2002, 2003 and 2004. Under each plan, except as provided below, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu and this unit shall not have an annual heat input more than 2,000,000 mmBtu. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit. In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

		2000	2001	2002	2003	2004
UNIT 3	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	280	280	280	280	280

UNIT 3	NO_x Limit	Pursuant to 40 CFR 76.11, the Illinois EPA approves three NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2002, 2003 and 2004. Under each plan, except as provided below, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu and this unit shall not have an annual heat input more than 2,000,000 mmBtu. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

		In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

		2000	2001	2002	2003	2004
UNIT 4	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	255	255	255	255	255

UNIT 4	NO_x Limit	Pursuant to 40 CFR 76.11, the Illinois EPA approves three NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2002, 2003 and 2004. Under each plan, except as provided below, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu and this unit shall not have an annual heat input more than 2,000,000 mmBtu. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit. In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

		2000	2001	2002	2003	2004
UNIT 5	SO_2 Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	5,989	5,989	5,989	5,989	5,989

UNIT 5	NO_x Limit	Pursuant to 40 CFR 76.11, the Illinois EPA approves three NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2002, 2003 and 2004. Under each plan, except as provided below, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.60 lb/mmBtu and this unit shall not have an annual heat input more than 12,000,000 mmBtu. Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the

		applicable emission limitations shall be under 40 CFR 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 this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

		In addition to the described NO_X compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_X compliance plan and requirements covering excess emissions.

COMMENTS, NOTES AND JUSTIFICATIONS: This revised permit addresses a revised NO_X compliance plan, in which an alternate compliance emission limitation is chosen that is effective for calendar year 2002 through the year 2004.

PERMIT APPLICATION: The NO_x compliance plan and instructions are 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.

If you have any questions regarding this permit, please contact Mohamed Anane at 217/782-2113.

(ORIGINAL SIGNED BY DONALD E. SUTTON)

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

DES:MA:jar

Attachment

cc: Cecilia Mijares, USEPA Region V
Richard Jennings, IEPA Region 2

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258
Expires 1-31-96

Phase II Permit Application

Page 1

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

This submission is: [X] New [ ] Revised

STEP 1
Identify the source by plant name, State, and ORIS code from NADB

Plant Name	State	ORIS Code
Meredosia	IL	000564

STEP 2
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

a	b	c	d	e
Boiler ID#	Compliance Plan: Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Compliance Plan: Repowering Plan	New Units: Commence Operation Date	New Units: Monitor Certification Deadline
01	Yes	No		
02	Yes	No		
03	Yes	No		
04	Yes	No		
05	Yes	No		
06	Yes	No		
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

STEP 3
Check the box if the response in column c of Step 2 is "Yes" for any unit

[ ] For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

EPA Form 7610-16 (rev. 12-94; previous versions obsolete)

Neradosia
Plant Name (from Step 1)

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

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 parts 74, 75, and 76.
(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 parts 74 and 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)) 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)(i) 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 the written exemption under 40 CFR 72.7 and 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.

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;
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Meredosia
Plant Name (from Step 1)

Recordkeeping and Reporting Requirements (cont.)

(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 a written 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.
(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 76 (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 a written 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 offset 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.

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 H. S. Cochran, Alternate Designated Representative	
Signature	Date 12/14/95

STEP 5 (optional)
Enter the source AIRS and FINDS identification numbers, if known

AIRS
FINDS

EPA Form 7610-16 (rev. 12-94; previous versions obsolete)

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

EPA

Phase II NO_x Averaging Plan

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

Page 1

This submission is: ☐ New ☒ Revised

Page 1 of 2

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 2 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Newton	IL	1	0.45	0.30	28,000,000
Newton	IL	2	0.45	0.30	28,000,000
Hutsonville	IL	05	0.45	0.60	5,000,000
Hutsonville	IL	06	0.45	0.60	5,000,000
Meredosia	IL	01	0.45	0.60	2,000,000
Meredosia	IL	02	0.45	0.60	2,000,000
Meredosia	IL	03	0.45	0.60	2,000,000
Meredosia	IL	04	0.45	0.60	2,000,000
Meredosia	IL	05	0.45	0.60	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
0.405	≤	0.450

$$\frac{\sum_{i=1}^{n} (R_{Ai} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} (R_{Li} \times HI_i)}{\sum_{i=1}^{n} HI_i}$$

Where,

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

R_{Li} = 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 (3-97)

Meredosia
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

☒ This plan is effective for calendar year 2002 through calendar year 2004 unless notification to terminate the plan is given.

☐ I 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

(ii) 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,

(iii) 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

(iv) 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.

(v) 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: Michael L. Menne	
Signature: *Michael L. Menne*	Date: 06/25/02

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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: ☐ New ☒ Revised

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

Plant Name	State	ORIS Code
Meredosia	IL	000864

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# 03	ID# 04	ID# 05	ID#
	Type T	Type T	Type T	Type T	Type T	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)	☒	☒	☒	☒	☒	☐
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(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)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☐	☐	☐	☐	☐	☐

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Plant Name (from Step 1): Meredosia

STEP 2, cont'd.

	Unit Type	Unit Type	Unit Type	Unit Type	Unit Type	Unit Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(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)(i)). 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 76.8(d)(2) except as provided under 40 CFR 76.8(d)(3)(iii).
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 40 CFR 76.0 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(a) 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: Michael L. Menne

Signature: [signature] Date: 06/25/02

EPA Form 7610-28 (3-97)