

FINAL DRAFT/PROPOSED CAPPP PERMIT
Dynergy Midwest Generation, Inc.
I.D. No.: 125804AAB
Application No.: 95090053
May 14, 2003

217/782-2113

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT
TITLE I PERMIT

PERMITTEE

Dynergy Midwest Generation, Inc.
Attn: Natalie Locke
2828 North Monroe Street
Decatur, Illinois 62526-3269

<u>Application No.:</u> 95090053	<u>I.D. No.:</u> 125804AAB
<u>Applicant's Designation:</u> Havana	<u>Date Received:</u> September 7, 1995
<u>Operation of:</u> Electric Power Plant	
<u>Date Issued:</u> TO BE DETERMINED	<u>Expiration Date:</u> DATE
<u>Source Location:</u> 15260 North State Route 78, Havana, Mason County	
<u>Responsible Official:</u> A. Kirk Millis, Designated Representative	

This permit is hereby granted to the above-designated Permittee to OPERATE the Havana Power 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 Havana Power Station by the Illinois EPA is incorporated into this CAAPP permit (refer to Attachment 3).

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

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

DES:CRR:KMP:jar

cc: Illinois EPA, FOS, Region 2
USEPA

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Control: None	

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1.0 SOURCE IDENTIFICATION

1.1 Source

Havana Power Station
15260 North State Route 78
Havana, Illinois 62644
309/543-2227

I.D. No.: 125804AAB
Office of Regulatory Information Systems (ORIS) Code: 891

Standard Industrial Classification Code: 4911 (Electric, Gas, and
Sanitary Services -
Electric Services)

1.2 Owner/Parent Company

Dynegy Midwest Generation, Inc.
Attn: Richard W. Eimer, Jr.
2828 North Monroe Street
Decatur, Illinois 62526

1.3 Operator

Dynegy Midwest Generation, Inc.
2828 North Monroe Street
Decatur, Illinois 62526

Randy L. Short
309/543-2227, Ext. 214

1.4 General Source Description

Dynegy Midwest Generation's Havana Power Station operates nine boilers and associated steam turbine generators to produce electricity. Boilers #1 through #8 are residual oil fired, connected to a common steam header that supplies five turbine generators each with nominal rating of 50 MW gross. Boiler #9 is a coal-fired unit that supplies steam to a turbine with nominal rating of 447 MW gross.

1.5 Source Status under Title I of the Clean Air Act (CAA)

This permit contains terms and conditions to address the applicability and requirements of regulations promulgated under

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Title I of the CAA to new and modified emission units constructed at the source. Title I of the CAA establishes regulatory programs, such as the federal program for Prevention of Significant Deterioration (PSD), 40 CFR 52.21, that are implemented through permits for new and modified sources. These "Title I" terms and conditions are identified in this permit as T1, T1R or T1N, depending on whether, respectively, they reflect the requirements of the previous Title I permit, they are revisions to such requirements, or they are newly established. These terms and conditions continue in effect as provided by Condition 8.7 of this permit, notwithstanding the expiration date specified on page 1 of this permit, as their authority derives from Title I, as well as from Title V of the CAA.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

acfm	actual cubic feet per minute
Act	Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Area Sources, USEPA, Office of Air Quality Planning and Standards, Research Triangle Park
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
CO	carbon monoxide
EGU	electrical generating unit
ESP	electrostatic precipitator
°F	degrees Fahrenheit
ft	foot
ft ³	cubic foot
HAP	hazardous air pollutant(s)
hr	hour
IAC	Illinois Administrative Code
I.D. No.	Illinois EPA Identification Number of Source
Illinois EPA	Illinois Environmental Protection Agency
°K	degrees Kelvin
Kg	kilogram
kW	kilowatt
lb	pound
m	meter
Mg	megagram
mmBtu	million British thermal units
MW	megawatt
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
NSSA	New Source Set-Aside
OM	organic material
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration, 40 CFR 52.21
psia	pounds per square inch absolute
SO ₂	sulfur dioxide

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USEPA	United States Environmental Protection Agency
VOC or VOM	volatile organic compounds or volatile organic material
VOL	volatile organic liquid
yr	year

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:

Ethylene Glycol Storage Tanks

- 3.1.2 Activities that are insignificant activities based upon maximum emissions of regulated air pollutants in the absence of air pollution control equipment, pursuant to 35 IAC 201.210(a)(2) or (a)(3), as follows:

Sulfuric Acid Storage Tanks
Parking Lots and Unpaved Roads

- 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:

- a. 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;
- b. Storage tanks of organic liquids with a capacity of less than 10,000 gallons and an annual throughput of less than 100,000 gallons that are not used to store gasoline or any HAP;
- c. Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuels;

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- d. Gas turbines and stationary reciprocating internal combustion engines of between 112 KW and 1,118 KW (150 and 1,500 horsepower) power output that are emergency or standby units;

- e. Storage tanks of any size containing exclusively soaps, detergents, surfactants, glycerin, waxes, vegetable oils, greases, animal fats, sweeteners, corn syrup, aqueous salt solutions, or aqueous caustic solutions that do not have an organic solvent mixed with such materials; and
- f. 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.

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/ Equipment Identification (Serial No.)	Description	Year Constructed or Modified	Emission Control (Serial No.)
Unit 1/ Boiler #1 Through 8	Residual Oil and/or Distillate Oil Fired Boilers Each with Nominal Rated Capacity of 432 mmBtu/hr (50 MW)	1949	None
Unit 2/ Boiler #9 (RB-540)	Coal, a Combination of Coal and Distillate Oil, and Distillate Oil Only Fired Boiler with Rated Nominal Capacity of 4,860 mmBtu/hr (447 MW), Equipped with Flame Stabilizers and Overfired Air System, Capable of Firing	1978	Electrostatic Precipitator and In-Duct SCR
Unit 3/ Auxiliary Boiler	Natural Gas or Distillate Oil Fired Boiler with Rated Nominal Capacity of 99 mmBtu/hr	1994	
Unit 4/ Rail and Barge Coal Receiving, Conveyor Belts, Reclaim Tunnel and Coal Storage	Coal Handling Operations Including Transfer Points and Storage		Enclosures, Dust Suppressant Application, and Dust Collectors
Unit 5/ Crusher House and Reclaim Hopper Crusher	Coal Processing Operations		Enclosure, Dust Suppressant Application, and Dust Collectors
Unit 6 Gasoline Storage Tank	Aboveground Storage Tank of 1,000 Gallons Capacity		Permanent Submerged Loading Pipe

5.0 OVERALL SOURCE CONDITIONS

5.1 Source Description

- 5.1.1 This permit is issued based on the source requiring a CAAPP permit as a major source of SO₂, NO_x, PM, PM₁₀, and VOM emissions.
- 5.1.2 This permit is issued based on the source requiring a CAAPP permit as a major source of HAPs.
- 5.1.3 This permit is issued based on the source requiring a CAAPP permit as an "affected source" for 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. Appropriate compliance procedures addressing these regulations are set for specific emission units in Section 7 of this permit:
 - a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.
 - b. 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 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 Episode Action Plan

- a. Pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.
- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If a change occurs at the source that invalidates the plan (e.g., operational change, change in the source contact person), a copy of a new plan shall be submitted to the Illinois EPA, Air Compliance Section, for review within 30 days of the change. Such plans shall be further revised if disapproved by the Illinois EPA.

5.2.5 Compliance Assurance Monitoring (CAM) Plan

This stationary source has pollutant-specific emissions units, i.e., boilers #1 through 9 for particulate matter, that are subject to 40 CFR Part 64, Compliance Assurance Monitoring for Major Stationary Sources. The Permittee

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must submit a Compliance Assurance Monitoring (CAM) plan for each affected pollutant-specific emissions unit upon application for renewal of this permit or upon a request for significant modification to this permit that applies to these units. [Section 39.5(7)(a) of the Act]

5.2.6 Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the Chemical Accident Prevention Provisions 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 Risk Management Plan (RMP), as part of the annual compliance certification required by Condition 9.8.

Note: This condition is imposed in this permit pursuant to 40 CFR 68.215(a) to address requirements that would become applicable to the source if it were to have more than a threshold quantity of a regulated substances in a process, as determined under 40 CFR 68.115.

5.2.7 Future Emission Standards for Hazardous Air Pollutants

- a. Should this stationary source become subject to a regulation under 40 CFR Parts 63 after the date issued of this permit, then the Permittee shall, in accordance with such regulation, 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 required by Condition 9.8.
- b. No later than upon the submittal for renewal of this permit, the Permittee shall submit, as part of an application, the necessary information to address either the non-applicability of, or demonstrate compliance with all applicable requirements of any potentially applicable regulation that was promulgated after the date issued of this permit.

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:

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None

5.5 Source-Wide Emission Limitations

5.5.1 Permitted Emissions for Fees

Emission limitations are not being imposed on this source for the purpose of permit fees since the Permittee did not propose restrictions on its permitted emissions in its CAAPP application. The Permittee is required to pay the maximum fee in accordance with Section 39.5(18)(a)(ii)(A) of the Act, currently \$100,000 per year.

5.5.2 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, or Section 502(b)(10) of the CAA.

5.6 General Source-Wide Recordkeeping Requirements

5.6.1 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least 5 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 required to be retained that are kept 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 Annual Emissions Report

The annual emissions report required pursuant to Condition 9.7 shall contain emissions information for the previous calendar year, including information on emissions of hazardous air pollutants, as specified by 35 IAC 254.120.

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5.8 General Operational Flexibility/Anticipated Operating Scenarios

None

5.9 General Compliance Procedures

None

6.0 TRADING 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 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 NO_x 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 utilization of EGU in preceding control periods. New budget EGU, for which limited utilization data may be available, may obtain NO_x 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 SO₂ 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 in 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 NO_x 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 the permit, these emission units are addressed as budget EGU.

Boilers 1 Through 9

- 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 or operator of such budget sources 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 EGUs compliance account or the source's overdraft account in an amount that shall not be less than the budget EGUs 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 NO_x allowances held as provided above, shall surrender the allowances as required for deduction under 40 CFR 96.54(d)(1), pursuant to 35 IAC 217.756(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 NO_x 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

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the NO_x Trading Program. As explained by 35 IAC 217.756(d)(6), no provision 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 217.765(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(c)(4), allowances shall be held, deducted from, or transferred among allowance 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 at least 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 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

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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 the 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 these 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 all 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 other 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 other 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 other 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 other 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(e), an allocation of NO_x allowances based on the prior operation of these budget 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 these 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 these budget EGU and the allocation of NO_x allowances to these budget EGU based on their prior operation:
 - i. The applicable NO_x emission rate for these 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

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 Section 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, Subparts F or G, or 35 IAC 217.782, every allocation, transfer, or deduction of an allowance to or from the budget EGUs 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

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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 / I.D. No.	Generating Unit	EGU	NO _x Budget Allowances	80% of NO _x Budget Allowances	50% of NO _x Budget Allowances	2004, 2005, 2006 Allowances	2007, 2008 Allowances	2009, 2010 Allowances
1	2	3	4	5	6	7	8	9
Company Totals			No N SSA	No N SSA	No N SSA	5% N SSA	2% N SSA	2% N SSA
125804AAB	Havana 1-5	Boiler 1	0	0	0	0	0	0
"	Havana 1-5	Boiler 2	0	0	0	0	0	0
"	Havana 1-5	Boiler 3	0	0	0	0	0	0
"	Havana 1-5	Boiler 4	0	0	0	0	0	0
"	Havana 1-5	Boiler 5	0	0	0	0	0	0
"	Havana 1-5	Boiler 6	0	0	0	0	0	0
	Havana 1-5	Boiler 7	0	0	0	0	0	0
	Havana 1-5	Boiler 8	0	0	0	0	0	0
	Havana 6	Boiler 9	547	438	274	520	429	268
Dynegy Midwest Generation, Inc. Totals			547	438	274	520	429	268

6.2 Acid Rain Requirements

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 through 9

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 shall not exceed the limit set by 40 CFR Part 76, which currently is 0.45 lb NO_x per million Btu heat input 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)(1) of the Act]

Note: Affected sources must hold SO₂ allowances to account for the SO₂ 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]

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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)
SO₂: Continuous emissions monitoring (40 CFR 75.11)
Opacity: Continuous emission monitoring (40 CFR 75.14)
CO₂: 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)(1) 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 10.2 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

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operators of the source shall comply with both
requirements. [Section 39.5(7)(h) of the Act]

7.0 UNIT SPECIFIC CONDITIONS

7.1 Unit 1: Residual Oil Fired Boilers
 Control: No Control Equipment

7.1.1 Descriptions

The Permittee operates residual oil fired boilers for electric generation. Since 1994 the boilers have operated only infrequently if needed for peak load generation. The boilers, which were built between 1947 and 1950 and were converted to oil-firing in the early seventies. The boilers are identical in size and type, with a nominal capacity of 432 mmBtu/hour each. All eight boilers are connected to a common steam header that supplies the five turbine generators, each with rated nominal capacity of 50 MW gross. All the boilers are also connected to a common exhaust header which, in turn, is connected to three exhaust stacks. Distillate fuel oil is used to ignite the residual fuel oil.

7.1.2 List of Emission Equipment and Pollution Control Equipment

Boiler Name	Description	Emission Control Equipment
Boiler #1	Combustion Engineering #13135 field constructed in 1947	None
Boiler #2	Combustion Engineering #13133 field constructed in 1947	None
Boiler #3	Combustion Engineering #13131 field constructed in 1947	None
Boiler #4	Combustion Engineering #14813 field constructed in 1948	None
Boiler #5	Combustion Engineering #14137 field constructed in 1949	None
Boiler #6	Combustion Engineering #15295 field constructed in 1950	None
Boiler #7	Combustion Engineering #14139 field constructed in 1950	None
Boiler #8	Combustion Engineering #15805 field constructed in 1950	None

Note: These boilers may also be referred to as Havana Units 1 through 5 based on the designation of the associated steam turbine generators.

7.1.3 Applicability Provisions

a. An "affected boiler" for the purpose of these unit specific conditions, is a boiler as listed above in Condition 7.1.2.

b. Startup Provisions

The Permittee is authorized to operate an affected boiler in violation of the applicable limit of Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.1.4(a) 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 6 hours for each startup event (For this purpose, the startup period shall begin when fuel is initially fired in a boiler or the Permittee begins transition of a boiler from "heating mode" to "electric power mode");
- ii. The Permittee shall conduct startup of affected boilers 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 distillate 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; and
 - D. Operating the boilers as peaking units.
- iii. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.1.9(a).
- c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of an affected boiler in violation of the applicable requirement of Condition 5.2.2(b) (35 IAC 212.123), and Condition 7.1.4(a) in the event of a malfunction or breakdown of an affected boiler subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted the 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, which shall not exceed for a period of up to 6 hours for each malfunction and breakdown event 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;
- iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.1.9(d) and 7.1.10(b); and
- 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

Other than the source wide emission limitations in Conditions 5.5.1, the affected boilers are subject to the following emission limitations:

a. State Emissions standards

Pursuant to 35 IAC, Subtitle B, Chapter I, subchapter c, emissions from affected boilers shall not exceed the following standards, which apply on an hourly basis:

<u>Pollutant</u>	<u>Rule</u>	<u>Standard</u>
PM	35 IAC 212.206	0.1 lb/mmBtu
SO ₂	35 IAC 214.161(a)	1.0 lb/mmBtu
CO	35 IAC 216.121	200 ppm, @ 50% excess air

b. The affected boilers are subject to the opacity standard in Condition 5.2.2(b) [35 IAC 212.123(a)], as further modified by 35 IAC 212.123(b) which allows opacity of emissions from an affected boiler to be greater than 30 percent but not greater than 60 percent for a period or periods aggregating no more than 8 minutes in any 60 minute period provided that such opaque emissions shall occur from only one affected boiler during any 60 minute period and such opaque emissions shall be limited to 3 times in any 24 hour period for each affected boiler.

c. The affected boilers are subject to the following requirements related to NO_x emissions pursuant to 35 IAC Part 217, Subpart V.:

i. Beginning in 2003, during each ozone control period, either:

A. The NO_x emissions from each affected boiler shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period [35 IAC 217.706], or

- B. The NO_x emissions of the affected boiler and other eligible EGU that are participating in a NO_x averaging demonstration with the affected EGU 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 [35 IAC 217.708(a) and (b)].

Note: Given the emission determination methods specified by 35 IAC 217.710, the emissions of NO_x 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 NO_x Trading Program.

- ii. If the Permittee elects to have an affected demonstration as provided for and authorized above:
 - A. The affected boiler shall be included in only one NO_x averaging demonstration during each ozone control period [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 [35 IAC 217.708(c) and (g)],
 - C. The effect of failure of the NO_x averaging the compliance status of the affected boilers shall be determined pursuant to Condition 7.4(a)(c) as if the NO_x emission rates of the affected boiler were not

averaged with other EGU [35 IAC
217.708(g)].

- iii. For the purpose of determining compliance with the NO_x emission standards in Condition 7.1.4(c)(i), the Permittee shall determine the heat input and NO_x emissions of each affected boiler in accordance with 35 IAC 217.710(c).
- iv. Beginning in 2003, the Permittee must comply with 35 IAC 217.712(b) related to the heat input and NO_x emissions of each affected boiler.
- v. Beginning in 2003, by November 30 of each year, the Permittee shall submit a report to the Illinois EPA that demonstrates that each affected boiler has complied with Condition 7.1.4(c)(i). 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). [35 IAC 217.712(c), (d) and (e)]
 - A. If the Permittee is demonstrating compliance on a unit-specific basis with Condition 7.1.4(c)(i)(A), this report shall contain the information specified by 35 IAC 217.712(d) including the heat input and NO_x emissions of the unit for the ozone control period.
 - B. If the Permittee is demonstrating compliance by means of "NO_x averaging" as authorized by Condition 7.1.4(c)(i)(B), this report shall contain the information specified by 35 IAC 217.712(e) and other related information as follows:
 - 1. In all cases, for each affected boiler or unit covered by this permit that is participating in the demonstration.
 - I. Identification of the other EGU that are participating in the demonstration, including identification of the source

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that is the lead party for the demonstration and that is also taking responsibility for submitting the information required by Condition 7.1.4(c)(v)(B)(II), 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 [35 IAC 217.708(c) and (g)].
 - III. The average NO_x 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 NO_x 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.
2. If the Permittee is the lead party for a NO_x averaging demonstration:
- I. Copies of the information submitted by other parties for the EGU participating in the demonstration, which include all material required by Condition 7.1.4(c)(v)(B)(I) 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 NO_x 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.

vi. Beginning in 2003, the Permittee must keep and maintain for a period of at least 5 years all records and data necessary to demonstrate compliance with the applicable requirements of 35 IAC Part 217 Subpart V and upon request make such records and data available to Illinois EPA and USEPA representatives for inspection and copying during working hours. The Permittee shall submit copies of any such records and data to the Illinois EPA within 30 days after receipt of a written request from the Illinois EPA [35 IAC 217.712(f) and (g)].

7.1.5 Non-Applicability of Regulations of Possible Concern

a. This permit is issued based on affected boilers not being subject to the following federal standards for new steam generators because the affected boilers were constructed in the 1950s, prior to August 17, 1971 and have not been modified, based on the NSPS definition, thereafter:

- i. NSPS for Fossil-Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971, 40 CFR 60 Subpart D; and
- 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 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 214.121, Large New Fuel Combustion Emission Sources; and
- iii. 35 IAC 217.121, New Fuel Combustion Emission Sources.

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 emissions of PM, NO_x, CO, and SO₂, for each affected boiler as specified below:

- a. This measurements shall be made under the following circumstances:

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.
 - ii. Measurements shall taken at an appropriate location in the stack associated with each affected boilers* or another location in the exhaust ductwork of an individual boiler as approved by the Illinois EPA.

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- * If more than one boiler is operating, the boilers that are operating shall be operated in a similar manner while measurements are being performed, so that the results typify all affected boilers. If emission unit operation differs significantly, the Permittee may have to perform further measurements or separate measurements for certain boilers at the request of the Illinois EPA, in accordance with Condition 7.1.7(a).

- iii. The Permittee shall use USEPA approved test methods and procedures for these measurements. Refer to 40 CFR 60, Appendix A for USEPA Methods. 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, as provided 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. [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 oil fired and specifications (sulfur and heat content);
 - B. Boiler information, i.e., firing rate of each boiler (million Btu/hr) and amount of fuel oil as burned (gallons/hr); and
 - C. 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. Opacity monitoring

Pursuant to Section 404 of the Clean Air Act and 40 CFR 75.14, 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 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 Performance Specification 1 in Appendix B of 40 CFR Part 60.
 - iii. These monitors shall be the primary basis for quarterly reporting of exceedances of Conditions 5.2.2(b) and 7.1.4(b), in accordance with 35 IAC 201.405 pursuant to 40 CFR 75.57(f)(See Condition 7.1.10(a)); and
 - iv. Notwithstanding the above, monitoring pursuant to 40 CFR 75.14 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. The Permittee shall monitor the usage (mmBtu/hr and mmBtu/yr) and sulfur content of the fuel oil fired in each affected boiler.

7.1.9 Recordkeeping Requirements

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

- a. Records for Fuel Usage
 - i. For each shipment of fuel oil received, records of the quantity and maximum sulfur content;
 - ii. Records of the sulfur content of the fuel oil supply to the affected boilers, based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur

- content in any shipment in the tank;
- iii. Total fuel oil usage for each affected boiler, (gallons/month and gallons/year);
 - iv Combined total usage of fuel oil for all affected boilers (gallons/month and gallons/yr);
 - v. Heat content of the fuel oil fired in the affected boilers (Btu/gal);
 - vi. Total operating hours (hours/quarter) for each affected boiler;
 - vii. Load (in terms of either gross megawatts output or steam flow) on an hourly basis for each of the affected boilers;
 - viii. Records for each day when a fuel material other than residual oil or distillate oil was burned, including the estimated amount of each such material burned and the boiler(s) in which it was burned;
 - ix. Amount of each other fuel material consumed (tons, gallons, cubic feet per quarter, as appropriate); and
 - x. If the Permittee is relying on data for heat input for purposes of compliance with 35 IAC Part 212 Subpart E or 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)(vii) to hourly heat input.
- b. Records for Continuous Opacity Monitoring Systems
- Pursuant to Acid Rain Program provisions of 40 CFR 75.57(f) and Section 39.5(7)(b) of the Act, the Permittee shall maintain records for the opacity monitoring system on each of the three stacks as

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; and
 - G. Quarterly reports submitted in accordance with Condition 7.1.10(a) and (d).
- ii. Records for each 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 Condition 7.1.4(b) is assured, with supporting explanation and documentation;
- 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(b) (30 percent opacity) with date, time, whether it occurred during startup, malfunction/breakdown, or shutdown, and further explanation of the incident; and
 - B. Each hour when the measured opacity of an affected boiler was above the normal range, as specified above in Condition 7.1.9(b)(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(a), with explanation.

c. Records for Startup

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records, related to startup of affected boilers that at a minimum shall include the following:

- i. Records of the source's established startup procedures for affected boilers (as summarized in the CAAPP application); and
- ii. Records for each startup of an affected boiler, as provided in Condition 7.1.3(b), that may result in excess opacity or PM emissions, including:
 - A. Date and description of startup, e.g., startup for power generation or for space heating;
 - 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; and
 - C. If normal operation is not achieved within 4 hours or if established startup procedures are not followed:
 - An explanation why startup could not be completed sooner or established procedures could not be followed;
 - Documentation for the established startup procedures that were followed;

- The time at which residual oil firing was begun; and
- Estimates of magnitude of PM emitted in excess of the applicable PM standard during startup.

d. Records for Continued Operation During Malfunction or Breakdown

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

- i. A maintenance and repair log for each affected boiler and associated equipment, listing activities performed with date; and
- 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); and
 - E. If excess emissions occurred for two or more hours:
 - An explanation why continued operation of the affected boiler was necessary;

- The preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity; and
 - An estimate of the magnitude of excess emissions occurring during the incident.
- e. Records for Continuous Emission Monitoring Required by the 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]

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 (hours/quarter) as 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

the residual fuel oil, the introduction of new fuel materials other than residual oil or distillate 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 including a summary of the records required by Condition 7.1.9(c)(ii);
 - E. A summary of the records required by Condition 7.1.9(d)(ii) for incidents when operation of an affected boiler continued during malfunction or breakdown with excess emissions that are not addressed by 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 opacity and particulate matter emissions during the quarter specified by Condition 7.1.10(c);
- ii. This report shall be submitted promptly after the end of every calendar quarter as follows:

<u>Monitoring Period</u>	<u>Submittal Deadline</u>
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 for Affected Boilers

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).

- 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 each of the three stacks 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 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 the affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected boiler was taken out of service.
- c. 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 affected boilers 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 the affected boilers 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(b):
 - 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; and

 - 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 or boilers 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(a). 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 boilers were contributing to excess emissions and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler; and
- F. Corrective actions and actions taken to lessen the emissions.

d. Prompt Reporting of Deviations

For the affected boilers, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements [Section 39.5(7)(f)(ii) of the Act]. For this purpose, prompt notification shall be considered:

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

e. 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;

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Quarterly Reports; and Opacity Reports. [See Condition 6.2.4] 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 changes 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 construction or modification as defined in 35 IAC 201.102, or modification as defined in 40 CFR 52.21:

- a. Firing of biofuels, such as Olestra, Amine/Nitrile Pitch, and Kenamide BSU blended with oil.

- b. Firing of the following used oils and off-specification used oils generated at the source blended with oil.
 - i. Lubricating oil.
 - ii. Hydraulic fluids.
 - iii. Mineral oil dielectric fluid containing less than 2.0 ppm PCBs.
- c. Firing of on specification used oil as defined in 35 IAC 739.111 that is managed in accordance with 35 IAC 739.172, 739.173 and 739.174(b) blended with oil.
- d. Firing of off-specification used oil, as defined in 35 IAC 739, blended with oil, subject to the following:
 - i. The Permittee shall comply with all applicable requirements of 35 IAC Part 739, Subpart G.
 - ii. Hazardous waste shall not be mixed with used oil. Used oil containing more than 1000 ppm of total halogens is presumed to be hazardous waste unless shown otherwise, per 35 IAC 739.110(b)(1).
 - iii. The Permittee shall keep any required records pursuant to 35 IAC Part 739 on-site and shall be made available to Illinois EPA personnel upon request.
 - iv. The Permittee must comply with all applicable requirements of 40 CFR Part 761, Subpart B for burning of electrical oils containing quantifiable levels of PCBs, including given written notice to USEPA under 40 CFR 761.71(a)(2).
- e. Firing of wastes generated at the source in addition to used oil and boiler cleaning residue blended with oil.
- f. Firing of alternative fuels that were not generated from hazardous waste, in conjunction with oil.
- g. Firing of 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 oil, 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 affected boilers.

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(b) (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. Compliance with the limitation of Conditions 5.2.2(b) and 7.1.4(c) as required by Conditions 7.1.8(a) and 7.1.9(c).
- iii. Notwithstanding the above, should the Permittee choose to rely on 35 IAC 212.123(b) to allow opacity greater than 30 percent (6-minute average) from affected boilers, the Permittee shall do the following:
 - A. Maintain records for each pair of boilers 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 pair of affected boilers, 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 pair of affected boilers, whether opacity in excess of 30 percent occurred in more than three hours in a 24 hour period; and
 - III. For all pairs of affected boilers, whether opacity exceeded 30 percent for more than one pair of affected boilers in an hour.
- C. In the reports required by Condition 7.1.10(d), confirm that the relevant short-term opacity data, reviewed as above, shows that the terms of 35 IAC 212.123(b) are satisfied, when 35 IAC 212.123(b) is relied upon as the basis to claim that an affected boiler did not violate Conditions 5.2.2(b) and 7.1.4(c) even though opacity on a 6-minute average exceeded 30 percent; and
- 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.

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- b. Compliance with the PM limitation of Condition 7.1.4(a) is addressed by continuous opacity monitoring in accordance with Condition 7.1.8, PM testing in accordance with Condition 7.1.7, and the recordkeeping required by Condition 7.1.9.
- c. Compliance with SO₂ limitation of Condition 7.1.4(a) is addressed by SO₂ testing in accordance with Condition 7.1.7 and the recordkeeping required by Condition 7.1.9.
- d. Compliance with CO limitation of Condition 7.1.4(a) is addressed by CO testing in accordance with Condition 7.1.7. Further compliance is assumed to be inherent in operation of affected boilers under operating Conditions other than startup or shutdown.

- 7.2 Unit 2: Coal Fired Boiler #9
 Control: Electrostatic Precipitator and In-Duct Selective
 Catalytic Reduction (SCR)

7.2.1 Descriptions

The Permittee operates a coal-fired boiler for electric generation. The boiler is currently operated for base load generation, normally operating for weeks at a time between startups. Construction of the boiler began in 1975 and it began operating in 1978. The boiler has a nominal capacity of 4,860 mmBtu/hour, and is equipped with flame stabilizers and Over Fire Air System ("OFA"). In addition to coal, this boiler fires distillate fuel oil during startup and for flame stabilization. Periodically small amounts of used oil or boiler cleaning residue, and other similar type of material are fired with the coal in this unit. This boiler also has the capability to fire a combination of coal and distillate fuel oil (Mode 2) as its principle fuel. Particulate matter (PM) emissions from the boiler are controlled by electrostatic precipitator. Nitrogen oxide (NO_x) emissions are controlled with both combustion control and add-on control, i.e., OFA and In-Duct SCR System, which were installed pursuant to Construction Permits 00020091 and 00090055 respectively. The Permittee currently plans to operate the In-Duct SCR System on a seasonal basis, as needed to comply with the NO_x trading Program (see Section 6.1 of this permit).

7.2.2 List of Emission Equipment and Pollution Control Equipment

Unit	Description	Emission Control Equipment
Boiler #9	Babcock and Wilcox Radiant Boiler (Serial # RB-540) Field Constructed Between 1975 to 1978	Electrostatic Precipitator and In-Duct SCR

Note: This boiler may also be referred to as Havana Unit 6 based on the designation of the associated turbine generator.

7.2.3 Applicability Provisions

- a. An "affected boiler" for the purpose of these unit-

specific conditions, is the boiler identified above.

b. Startup Provisions

The Permittee is authorized to operate an affected boiler in violation of the applicable limit of Conditions 7.2.4(b)() for PM, CO, and opacity(35 IAC 212.204, 216.121, and 212.122) during startup subject to the following provisions 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 affected boiler in accordance with the manufacturers' written instructions or other written instructions maintained on site that are prepared by the Permittee 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; and
 - 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 7.2.9(g).

c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of an affected boiler in violation of the applicable requirement of Conditions 7.2.4(b) for PM, CO, and opacity) (35 IAC 212.204, 216.121, and 212.122) in the event of a malfunction or breakdown of an affected boiler, including the coal pulverizer, the ash removal system, the electrostatic precipitator (including flue gas conditioning) or in-duct SCR system as needed to provide essential service subject to the following provisions:

- 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 reduce boiler load, repair the affected boiler or remove the affected boiler from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24 hours* or noon of the Illinois EPA's next business day*, whichever is later. The Permittee may obtain an extension for up to a total of 72 hours* from the Illinois EPA, Air Regional Office. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that 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 7.2.9(h) and 7.2.10(b); and
- 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. 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:

<u>Pollutant</u>	<u>Standard (lbs/mmBtu)</u>	<u>Rule</u>
PM	0.10	40 CFR 60.42(a)(1)
SO ₂	1.20	40 CFR 60.43(a)(2)
NO _x	0.70	40 CFR 60.44(a)(3)

- iii. 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).

- iv.
 - A. 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.

 - B. 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. State emission standards

Pursuant to 35 IAC, Subtitle B, Chapter I, Subchapter c, emissions from affected boiler shall not exceed the following standards:

	<u>Rule</u>	<u>Standard</u>
PM	35 IAC 212.204	0.1 lb/mmBtu
SO ₂	35 IAC 214.121	1.2 lb/mmBtu
CO	35 IAC 216.121	200 ppm, @ 50% Excess Air
NO _x	35 IAC 217.121(d)	0.7 lb/mmBtu
Opacity	35 IAC 212.122(a)	20 Percent Opacity

Note: For opacity this permit does not address the provision of 35 IAC 212.123(b), as this state rule is superseded by provision of the NSPS, 40 CFR 60.42(a)(2)

c. The affected boiler is subject to 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 Section 6.2 of this permit).

d. The affected boilers are subject to the following requirements related to NO_x emissions pursuant to 35 IAC Part 217, Subpart V:

- i. Beginning in 2003, during each ozone control period, either:
 - A. The NO_x emissions from each affected boiler shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period [35 IAC 217.706], or
 - B. The NO_x emissions of the affected boiler and other eligible EGU that are participating in a NO_x averaging demonstration with the affected EGU 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 [35 IAC 217.708(a) and (b)].

Note: Given the emission determination methods specified by 35 IAC 217.710, the emissions of NO_x 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 NO_x Trading Program.

- ii. If the Permittee elects to have an affected demonstration as provided for and authorized above:
 - A. The affected boiler shall be included in only one NO_x averaging demonstration during each ozone control period [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 [35 IAC 217.708(c) and (g)].
 - C. The effect of failure of the NO_x averaging the compliance status of the affected boilers shall be determined pursuant to Condition 7.4(a)(c) as if the NO_x emission rates of the affected boiler were not averaged with other EGU [35 IAC 217.708(g)].
- iii. For the purpose of determining compliance with the NO_x emission standards in Condition 7.2.4(d)(i), the Permittee shall determine the heat input and NO_x emissions of each affected boiler in accordance with 35 IAC 217.710(c).

iv. Beginning in 2003, the Permittee must comply with 35 IAC 217.712(b) related to the heat input and NO_x emissions of each affected boiler.

v. Beginning in 2003, by November 30 of each year, the Permittee shall submit a report to the Illinois EPA that demonstrates that each affected boiler has complied with Condition 7.2.4(d)(i). 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). [35 IAC 217.712(c), (d) and (e)]

A. If the Permittee is demonstrating compliance on a unit-specific basis with Condition 7.2.4(d)(i)(A), this report shall contain the information specified by 35 IAC 217.712(d) including the heat input and NO_x emissions of the unit for the ozone control period.

B. If the Permittee is demonstrating compliance by means of "NO_x averaging" as authorized by Condition 7.2.4(d)(i)(B), this report shall contain the information specified by 35 IAC 217.712(e) and other related information as follows:

I. In all cases, for each affected boiler or unit covered by this permit that is participating in the demonstration

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 7.2.4(v)(B)(II), below:

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 [35 IAC 217.708(c) and (g)].

The average NO_x 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 NO_x emissions of the unit for the ozone control period.

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

- II. If the Permittee is the lead party for a NO_x averaging demonstration:

Copies of the information submitted by other parties for the EGU participating in the demonstration, which include all material required by Condition 7.2.4(v)(B)(I) 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).

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

A statement whether the demonstration shows compliance.

- vi. Beginning in 2003, the Permittee must keep and maintain for a period of at least 5 years all records and data necessary to demonstrate compliance with the applicable requirements of

35 IAC Part 217 Subpart V and upon request make such records and data available to Illinois EPA and USEPA representatives for inspection and copying during working hours. The Permittee shall submit copies of any such records and data to the Illinois EPA within 30 days after receipt of a written request from the Illinois EPA [35 IAC 217.712(f) and (g)].

7.2.5 Non-Applicability of Regulations of Possible Concern

- a. This permit is issued based on affected boiler not being subject to federal rules for Prevention of Significant Air Quality Deterioration (PSD), 40 CFR 52.21, because the affected boiler was constructed prior to the applicable date and has not been modified thereafter.
- b. This permit is issued based on affected boiler not being subject to federal standards of 40 CFR 60.43(a)(1) for SO₂ and 40 CFR 60.44(a)(2) for NO_x since it is considered to be using solid fuel (coal) as its principal fuel and distillate fuel oil is 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.

7.2.6 Work Practices, Operational and Production limits and Emission Limitations

- a. Combustion of waste materials and fuels other than coal or distillate fuel oil may not be initiated during periods of startup, malfunction, or breakdown. If a malfunction or breakdown should occur while the material is being combusted, the loading of the material/coal mixture to the bunker shall be discontinued until the malfunction or breakdown is corrected.

7.2.7 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 2 percent higher than the greatest load on any affected boiler, during the most recent set of PM tests on the affected boiler in which compliance is shown (refer to Condition 7.2.7(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 7.2.9(a)(i).

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

- A. In conjunction with the initial measurement of PM emissions as required above, if not otherwise performed earlier in conjunction with emission testing or relative accuracy testing for SO₂ or NO_x.
 - B. In conjunction with each subsequent measurement of PM emissions, unless performed in conjunction with prior testing for SO₂ or NO_x 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.
- 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.
 - ii. 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 procedures, as provided 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. [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 boiler (million Btu/hr), composition of fuel as burned (ash, sulfur and heat content) and fuel blending ratio (%), if a blend of fuel is burned;
 - C. Control equipment information, i.e., equipment condition and operating parameters during testing; and
 - 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.

7.2.8 Monitoring Requirements

- a. Pursuant to the NSPS, 40 CFR 60.45 and 35 IAC 201.401, 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;

- iii. These monitors shall be the primary basis for quarterly reporting of exceedance of Conditions 5.2.2(b), 7.2.4(a)(iii) and 7.2.4(b), in accordance with 40 CFR 60.7(c) and 60.45(g) (Also see Condition 7.2.10(a)); and
 - 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 SO₂ from the affected boiler. This equipment shall be used to demonstrate compliance with the limits in Conditions 7.2.4(a)(ii) and (b) based on the average hourly (arithmetic average of three contiguous one-hour periods) SO₂ 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 60 and 75.

Note: This permit is issued based on the Permittee performing continuous emission monitoring for SO₂ 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 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 NO_x from the affected boiler. This equipment shall be used to demonstrate

compliance with the limits in Conditions 7.2.4(a)(ii) and (b) based on the average hourly (arithmetic average of three contiguous one-hour periods) NO_x 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 60 and 75.

Note: This permit is issued based on the Permittee being required to perform NO_x continuous emission monitoring because the initial performance testing for NO_x did not meet the criteria in 40 CFR 60.45(b)(3)

- 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 SO₂, NO_x, 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. Notwithstanding the above conditions of the permit specifying monitoring practices, other credible evidence may be used to establish compliance or noncompliance with applicable emission limits.

7.2.9 Recordkeeping Requirements

a. Records for Fuel Usage

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;
- ii. Records for each day when a fuel material other than coal or distillate oil was burned, including the estimated amount of each such material burned in the affected boiler;

- iii. Total operating hours (hours/quarter);
- iv. Amount of coal consumed (tons/quarter);
- v. Amount of distillate oil consumed (gallons/quarter);
- vi. Amount of each fuel material other than coal or distillate oil consumed (tons, gallons, cubic feet, as appropriate, per quarter); and
- vii. If the Permittee is relying on data for heat input for purposes of compliance with 35 IAC Part 212 Subpart E or 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 7.2.9(a)(i) to hourly heat input.

b. Records for In-Duct SCR System

Pursuant to Section 39.5(7) of the Act, the Permittee shall maintain the following records for the In-Duct SCR system (SCR) on the affected boiler:

- i. Operating and maintenance procedures, including current catalyst management plan.
- ii. Maintenance and repair logs, including addition or replacement of a catalyst layer.
- iii. An operating log, which includes the operational status of the system and if operating, information on ammonia injection rate.

c. Records for Electrostatic Precipitator

Pursuant to Section 39.5(7) of the Act, the Permittee shall maintain records for the electrostatic precipitator (ESP) on an affected boiler for the following operating parameters. Data shall be recorded at least once per shift when the 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 alarms provided that any changes to the setting for an alarm are recorded and numerical data is recorded at least once per day:

- i. Fields in service;
 - ii. Primary voltage and current;
 - iii. Secondary voltage and current; and
 - iv. Sparking rate.
- d. Records for Continuous Opacity Monitoring System

Pursuant to 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 7.2.8(a) that as a minimum shall include:

- i. Operating records for 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; and
 - G. Quarterly excess emissions and monitoring systems performance reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Condition 7.2.10(d).

- ii. Records for 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 Condition 7.2.4(a)(iii) and (b) is assured, with supporting explanation and documentation;
- iii. Records to indicate compliance with Conditions 5.2.2(b), 7.2.4(a)(iii) and (b), including:
 - A. Each 6-minute period when the opacity was above the limitation of Conditions 5.2.2(b), and 7.2.4(a)(iii) and (b) (20 percent opacity) with date, time, whether it occurred during startup, malfunction/breakdown, or shutdown, and further explanation of the incident; and
 - B. Each hour when the measured opacity of an affected boiler was above the normal range, as specified above in Condition 7.2.9(d)(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 applicable standard of Condition 7.2.4(a)(iii) and (b), with explanation.
- e. Records for Continuous SO₂ 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 SO₂ continuous emissions monitoring systems on affected boiler required by Condition 7.2.8(b) that as a minimum shall include:

- i. Operating records for SO₂ monitoring system, including:
 - A. SO₂ emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e);

- B. Performance testing measurements;
 - C. Performance evaluations and other quality assurance /control activities;
 - D. Calibration checks;
 - E. Maintenance and adjustment performed;
 - F. Periods when the SO₂ monitor was inoperative, with date, time and reason; and
 - G. Excess emissions and monitoring systems performance reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Condition 7.2.10(c).
- ii. Records of SO₂ emissions data in lb/mmBtu from the affected boiler on an hourly basis, as derived from the data obtained by the SO₂ monitoring equipment; and
 - iii. Records to verify compliance with SO₂ standards of Conditions 7.2.4(a)(ii) and (b):

The date and time of any three hour block averaging period when the total SO₂ emission rate as recorded above exceeded 1.2 lbs/mmBtu, as allowed by Condition 7.2.4(a)(ii) and (b), with calculated SO₂ emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Condition 7.2.4(a)(ii) and (b). [40 CFR 60.45(g)]

f. Records for Continuous NO_x 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 NO_x continuous emissions monitoring systems on affected boiler required by Condition 7.2.8(c) that as a minimum shall include:

- i. Operating records for NO_x monitoring system, including:

- A. NO_x emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e);
 - B. Performance testing measurements;
 - C. Performance evaluations and other quality assurance/control activities;
 - D. Calibration checks;
 - E. Maintenance and adjustment performed;
 - F. Periods when the NO_x monitor was inoperative, with date, time and reason; and
 - G. Excess emissions and monitoring systems performance reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Condition 7.2.10(d).
- ii. Records of NO_x emissions data in lb/mmBtu from the affected boiler on an hourly basis, as derived from the data obtained by the NO_x monitoring equipment; and
 - iii. Records to verify compliance with NO_x standards of Conditions 7.2.4(a)(ii) and (b):

The date and time of any three hour block averaging period when the total NO_x emission rate as recorded above exceeded 0.7 lbs/mmBtu, as allowed by Conditions 7.2.4(a)(ii) and (b), with calculated NO_x emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Conditions 7.2.4(a)(ii) and (b). [40 CFR 60.45(g)]
- g. Records for Startups

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records, related to startup

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of affected boiler that at a minimum shall include the following:

- i. Records of the source's established startup procedures for affected boiler (as summarized in the CAAPP application); and
- 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; and
- C. If normal operation is not achieved within 16 hours or if established startup procedures are not followed:
- An explanation why startup could not be completed sooner or established procedures could not be followed;
 - Documentation for the established startup procedures that were followed;
 - The time at which solid fuel (coal) firing was begun;
 - The flue gas temperature at which the electrostatic precipitator was energized, if coal was fired before the electrostatic precipitator was energized; and
 - 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 affected boiler that as a minimum, shall include:
- i. A maintenance and repair log for affected boiler and associated equipment, listing activities performed with date; and
 - ii. Records for each incident when operation of the affected boiler continued during malfunction or breakdown with excess

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emissions, as provided by Condition 7.2.3(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 7.2.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.2.10(b)(ii);
 - E. Whether waste materials were burned during the malfunction/breakdown as otherwise allowed by Condition 7.2.11; and
 - F. If excess emissions occurred for two or more hours:
 - An explanation why continued operation of the affected boiler was necessary;
 - The preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity; and
 - An estimate of the magnitude of excess emissions occurring during the incident.
- i. Records for Continuous Emission Monitoring Required by the 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]

7.2.10 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 affected boiler, as also reported in accordance with 40 CFR Part 75;
 - B. The greatest load achieved by affected boiler (steam flow or gross megawatts);
 - C. A discussion of significant changes in the fuel supply to the affected boiler, if any, including changes in the source of coal, the introduction of new fuel materials other than coal 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 affected boiler;
 - E. A narrative discussion based on the records required by Condition 7.2.9(h)(ii) of incidents when operation of the affected boiler continued during malfunction or breakdown with excess emissions that are not addressed by individual reports submitted pursuant to Condition 7.2.10(b)(ii) (See also notification and reporting requirements for individual incidents in Condition 7.2.10(b));
 - F. The information related to SO₂ emissions during the quarter specified by Condition 7.2.10(c);

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- G. The information related to NO_x emissions during the quarter specified by Condition 7.2.10(d);
- H. The information related to opacity and particulate matter emissions during the quarter specified by Condition 7.2.10(d); and
- I. A summary of other noncompliance as separately reported pursuant to Condition 7.2.10(f)(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 for Affected Boiler

Pursuant to 35 IAC 201.263, the Permittee shall provide the following notifications and reports to the Illinois EPA concerning incidents when operation of the affected boiler continued during malfunction or breakdown with excess emissions as addressed by Condition 7.2.3(c). These requirements do not apply to excess emissions 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 the affected boiler exceeds 20 percent for more than one (1) 6-minute averaging period per hour unless the Permittee has begun 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 an hour, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.2.10(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 the affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected boiler was taken out of service.

c. Reporting of Excess SO₂ 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) with its quarterly operating report pursuant to Condition 7.2.10(a):

- i. Summary information on the performance of SO₂ monitoring system, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When no excess SO₂ emissions occurred or the continuous SO₂ monitoring system was inoperative, repaired or adjusted except for zero and span checks, shall be stated in the report.
- ii. If specifically requested by the Illinois EPA or the SO₂ monitoring system downtime was more than 5 percent of the total operating time for the affected boiler during the quarter, the date and time identifying each period during which the monitoring system was inoperative, except for zero and span checks, and the nature of the 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 SO₂ emissions were in excess of the applicable standards specified in Condition 7.2.4(a)(ii)

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for any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of sulfur dioxide as defined under 40 CFR 60.45(g)(2). When there were no such exceedances, this shall be stated in the report.

- A. The starting date and time of the SO₂ excess emissions;
- B. The duration of the excess emissions;

- C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.2.9(e)(iii);
- D. The cause of the excess emissions, if known, and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler; and
- E. Corrective actions and actions taken to lessen the emissions.

d. Reporting of Excess NO_x 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) with its quarterly operating report pursuant to Condition 7.2.10(a):

- i. Summary information on the performance of NO_x monitoring system, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When no excess NO_x emissions occurred or the continuous NO_x monitoring system was inoperative, repaired or adjusted except for zero and span checks shall be stated in the report.
- ii. If specifically requested by the Illinois EPA or the NO_x monitoring system downtime was more than 5 percent of the total operating time for the affected boiler during the quarter, the date and time identifying each period during which the monitoring system was inoperative, except for zero and span checks, and the nature of the 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 NO_x emissions were in excess of the applicable standards specified in Condition 7.2.4(a)(ii) for any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of nitrogen oxides as defined under 40 CFR 60.45(g)(3). When there were no such exceedances, this shall be stated in the report.
 - A. The starting date and time of the NO_x excess emissions;
 - B. The duration of the excess emissions;
 - C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.2.9(f)(iii);
 - D. The cause of the excess emissions, if known, and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler; and
 - E. Corrective actions and actions taken to lessen the emissions.

- e. Reporting of Opacity and Particulate Matter Emissions

Pursuant to Section 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 affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.2.10(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 the affected boilers during the quarter;
- iii. The following information for each period when opacity was in excess of the applicable standards specified in Conditions 5.2.2(b), and 7.2.4(a)(ii) and (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; and
 - 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, and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler; and
 - 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 7.2.4(a)(ii). 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, and whether such excess emissions occurred during startup or malfunction/breakdown of the boiler; and
- F. Corrective actions and actions taken to lessen the emissions.

f. Prompt Reporting of Deviations

For the affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from applicable permit requirements [Section 39.5(7)(f)(ii) of the Act]. For this purpose, prompt notification shall be considered:

- i. Reporting as specified above in Conditions 7.2.10(b), (c), (d), and (e) for deviations from Conditions 5.2.2(b) and 7.2.4; and
- ii. Reporting of deviations with the quarterly reports required by Condition 7.2.10(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 preventive measures taken.

g. 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 6.2.4] 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.

7.2.11 Operational Flexibility/ Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational changes for 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 construction or modification of the source, as defined in 35 IAC 201.102, or modification as defined in 40 CFR 52.21:

- a. Firing of coal or a mix of coal from different suppliers;
- b. Firing of Biofuels, such as Olestra, Amine/Nitrile Pitch, and Kenamide BSU in conjunction with coal.
- c. Firing of the following used oils and off-specification used oils generated at the source in conjunction with coal and oil.
 - i. Lubricating oil from coal mills, fan motors, pumps, turbines, and internal combustion engines, compressors, and gear boxes.
 - ii. Hydraulic fluids.
 - iii. Mineral oil dielectric fluid containing less than 2.0 ppm PCBs.
- d. Firing of on specification used oil as defined in 35 IAC 739.111 that is managed in accordance with 35 IAC

739.172, 739.173 and 739.174(b) in conjunction with coal and oil.

- e. Firing of off-specification used oil, as defined in 35 IAC 739 in conjunction with coal and oil, subject to the following:
 - i. The Permittee shall comply with all applicable requirements of 35 IAC Part 739, Subpart G.
 - ii. Hazardous waste shall not be mixed with used oil. Used oil containing more than 1000 ppm of total halogens is presumed to be hazardous waste unless shown otherwise, per 35 IAC 739.110(b)(1).
 - iii. The Permittee shall keep any required records pursuant to 35 IAC Part 739 on-site and shall be made available to Illinois EPA personnel upon request.

Note: The Permittee must comply with all applicable requirements of 40 CFR Part 761, Subpart B for burning of electrical oils containing quantifiable levels of PCBs, including given written notice to USEPA under 40 CFR 761.71(a)(2).

- f. Firing of untreated wood in conjunction with coal and oil. The chipped wood shall be injected directly into the affected boiler.
- g. Firing of spent Ion-exchange resins from water purification systems, spent activated carbon from waste water treatment systems, oil contaminated absorbents, chemical metal cleaning waste sludge in conjunction with coal and oil.
- h. Firing of wastes generated at the source in addition to used oil and boiler cleaning residue in conjunction with firing of coal and oil. (Note: Other requirements may also apply to such materials as they constitute waste.);
- i. Firing of alternative fuels, that were not generated from hazardous waste, in conjunction with coal and oil; and

- j. Firing of 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, oil and natural gas, 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 boilers.

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.)

7.2.12 Compliance Procedures

- a.
 - i. Compliance with the opacity limitation of Conditions 5.2.2(b) and 7.2.4(a)(iii) and (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 7.2.8(a) and the recordkeeping requirements of Conditions 7.2.9(d).
 - ii. Compliance with the limitation of Condition 5.2.2(b) and 7.2.4(a)(ii) is addressed by the requirements of Condition 7.2.8(a) and the recordkeeping requirements of Condition 7.2.9.
- b. Compliance with PM emission standards of Conditions 7.2.4(a)(ii) and (b) is addressed by continuous opacity monitoring in accordance with Condition 7.2.8, PM testing in accordance with Condition 7.2.7, and the recordkeeping required by Conditions 7.2.9.

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- c. Compliance with the SO₂ emission standards of Condition 7.2.4(a)(ii) and (b) is addressed by continuous emission monitoring in accordance with the requirements of Condition 7.2.8, and the recordkeeping required by Condition 7.2.9(e).
- d. Compliance with the NO_x emission standards of Condition 7.2.4(a)(ii) and (b) is addressed by continuous emission monitoring in accordance with the requirements of Condition 7.2.8, and the recordkeeping required by Condition 7.2.9(f).
- e. Compliance with the CO emission limitation of Condition 7.2.4(b) is addressed by emission testing in accordance with Condition 7.2.7. 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.

7.3 Unit 3: Natural Gas or Distillate Oil Fired Auxiliary Boiler
 Control: Low NO_x Burners

7.3.1 Description

The Permittee operates natural gas fired or distillate oil fired boiler for generating steam for startup of coal fired boiler #9 and for space heating purposes. The boiler was built in 1994 when the oil-fired boilers (Boiler #1 through #8) ceased routine operation during cold weather. The boiler has a rated heat input capacity of 99 mmBtu/hr and equipped with low NO_x burners.

7.3.2 List of Emission Units and Pollution Control Equipment

Unit Identification	Description	Rated Capacity	Emission Control Equipment
Auxiliary Boiler (BW-ST-201-3167)	Natural Gas or Distillate Oil Fired Babcock and Wilcox Boiler, Field Constructed in 1994 and Equipped with Low NO _x Burners	99 mmBtu/hr	None

7.3.3 Applicability Provisions

- a. An "affected boiler" for the purpose of these unit-specific conditions, is a fuel combustion emission unit as identified above.
- b. Startup Provisions

The Permittee is authorized to operate an affected boiler in violation of the applicable limit of Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.3.4 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 0.5 hours following initial firing of fuel for each startup event;

- ii. The Permittee shall conduct startup of 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; and
 - B. 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. Operating the affected boiler only as an auxiliary boiler.
 - iv. The Permittee shall fulfill applicable recordkeeping requirements of Condition 7.3.9(a).
- c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of an affected boiler in violation of the applicable requirement of Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.3.4 in the event of a malfunction or breakdown of an affected boiler 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":

- i. This authorization only extends for a period of up to 4 hours to provide essential service for each malfunction and breakdown event 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;

- iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.3.9(e); and
- iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, as required in Condition 7.3.10(a), 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. Federal Emission Standards

- i. The affected boiler is subject to New Source Performance Standards (NSPS) for Small Industrial-Commercial Institutional Steam Generating Units, 40 CFR 60 Subparts A and Dc. The Illinois EPA is administering NSPS on behalf of the USEPA under a delegation agreement.
- ii. Pursuant to the NSPS, 40 CFR 60.42c(d), the Permittee shall not cause or allow emissions of SO₂ from the affected boiler in excess of 0.5 lb/mmBtu, or sulfur content of the fuel oil burned in the affected boiler shall be less than 0.5 percent by weight.

Note: The sulfur dioxide emissions from the affected boiler are subject to a more stringent standard pursuant to 35 IAC 214.122.

- iii. Pursuant to the NSPS, 40 CFR 60.43c(c), opacity from the affected boiler stack 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.
- 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. State Emission Standards

Pursuant to 35 IAC, Chapter B, subchapter C, emissions from affected boiler shall not exceed the following standards, which apply on an hourly basis:

	Rule	Standard
SO ₂	35 IAC 214.122(b)(2)	0.3 lb/mmBtu or 29.7 lbs/hr based on 99 mmBtu/hr heat input)
PM	35 IAC 212.206	0.1 lb/mmBtu
CO	35 IAC 216.121	200 ppm, @ 50% excess air
Opacity	35 IAC 212.123	30 percent opacity

Note: The above state opacity limitation is superseded by the applicable federal standards pursuant to NSPS.

7.3.5 Non-Applicability of Regulations of Concern

- a. This permit is issued based on affected boiler not being a major source or major modification for the purposes of federal rules for Prevention of Significant Deterioration of Air Quality (PSD), 40 CFR 52.21 pursuant to Construction Permit 94020078. Other conditions restricting the operation and emissions from the affected boiler are contained Condition 7.3.6.

7.3.6 Operational and Production Limits and Work Practices

- a. Natural gas or distillate oil shall only be the fuel fired in the affected boiler.
- b. i. Total annual consumption of distillate fuel oil in the affected boiler shall not exceed 1,750,000 gallons. Compliance with this annual limit 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)

- c. i. Boiler #1 through 8 as addressed by Section 7.1, shall not be used to facilitate the startup of Boiler #9, when the affected boiler is operational. (T1)
- ii. The affected boiler shall only be used as an auxiliary boiler to supply steam to facilitate the startup of Boiler #9 and for space heating purpose when the Boiler #9 is not operating. (T1)
- d. Emission Limitations
 - i. Hourly emission from the affected boiler shall not exceed the following limits: (T1)

<u>Pollutant</u>	<u>Emission Limits</u> <u>(Lb/Hour)</u>
CO	3.7
NO _x	19.8
SO ₂	29.7

Note: These hourly emission limits for NO_x, CO, and SO₂ were established in Construction Permit 94020078 based on maximum heat input rate of 99 mmBtu/hour.

- e. The above emission limits and operational limitations were originally established in Construction Permit 94020078 pursuant to 40 CFR 52.21, the federal rules for Prevention of Significant Deterioration of Air Quality (PSD). These limits ensure that the construction and operation of the affected boiler do not constitute a new major source pursuant to PSD.

7.3.7 Testing Requirements

- a. Within 45 calendar days of a written request from the Illinois EPA, or the date affected boiler next operates, or the date agreed upon by the Illinois EPA, whichever is later, the Permittee shall have the opacity of an affected boiler determined by a certified observer in accordance with USEPA Test Method 9. Opacity observations shall be conducted during representative operating conditions of the

boiler as specified by the Illinois EPA in its request. The Illinois EPA may require such observations if, based on its observations the affected boiler opacity does not comply with Condition 5.2.2(b) (35 IAC 212.123) and Condition 7.3.4(b), or the affected boiler is poorly maintained or operated so as to make compliance determination uncertain.

- i. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of observations, in order to allow the Illinois EPA to witness the observations. This notification shall include the name and employer of the certified observer(s) and identify any concerns for successful completion of observations, i.e., lack of suitable point for proper observation or inability to conduct observations under specified conditions;
- ii. The Permittee shall promptly notify the Illinois EPA of any changes in the date and time of observation;
- iii. The Permittee shall provide a copy of its observers readings to the Illinois EPA at the time of observations, if Illinois EPA personnel are present at the conclusion of observations;
- iv. The Permittee shall submit a written report for these observations within 15 days of the date of observation. This report shall include:
 - A. Date, place, and time of observations;
 - B. Name and employer of certified observer;
 - C. Copy of current certification;
 - D. Description of observation conditions;
 - E. Description of boiler operating conditions;

- F. Raw data;
 - G. Opacity determination; and
 - H. Conclusion.
- b. i. Within 90 days of a written request from the Illinois EPA, the sulfur dioxide (SO₂), particulate matters (PM), nitrogen oxides (NO_x), and carbon monoxide (CO) concentrations in the exhaust of the affected boiler shall be measured by an approved independent testing service to determine compliance with applicable SO₂, PM, NO_x, and CO limits in the following manner:
- A. The methods specified by 40 CFR 60, appendix A, shall be used for testing of SO₂, PM, NO_x, and CO emissions unless alternative test procedures are approved by USEPA pursuant to 40 CFR 60.8.
 - B. Compliance shall be determined from the average of three separate runs provided that the Illinois EPA may accept the arithmetic mean of two of the runs in circumstances described in 40 CFR 60.8(f).
- ii. The Permittee shall submit a test plan to the Illinois EPA at least 60 days prior to testing. As part of this plan, the Permittee may propose for approval by the Illinois EPA a strategy for performing emission testing of affected boiler provided that affected boiler is fitted for testing; the identity of the affected boiler to be tested is determined immediately before testing, by the Illinois EPA or otherwise randomly. The Permittee may also propose a strategy for testing across the normal load range of the affected boiler.
- iii. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of thirty (30) days prior to the

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

- iv. The Permittee shall submit the Final Report(s) for any required emission testing to the Illinois EPA within 45 days after the tests results are compiled and finalized but no later than 120 days after the date of testing. The Final Report shall include the information specified in Condition 8.6.3 and the following information:
 - A. A summary of results.
 - B. General information.
 - C. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - D. Detailed description of test conditions, including fuel consumption (standard ft³), and firing rate (million Btu/hr).
 - E. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.

7.3.8 Monitoring Requirements

a. Opacity Monitoring

None

Note: This permit is issued based on the Permittee does not required to install, maintain, and operate continuous opacity monitor for the affected boiler

pursuant to the NSPS, 40 CFR 60.47c(a)

b. SO₂ Emissions Monitoring

None

Note: This permit is issued based on the Permittee is uses fuel supplier certification, as described under 40 CFR 60.48c(f)(1), to demonstrate compliance with SO₂ emissions standards specified in Condition 7.3.4(a)(ii) rather than continuous emissions monitoring for SO₂ as allowed by the NSPS, 40 CFR 60.46c(h).

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 each affected boiler to demonstrate compliance pursuant to Section 39.5(7)(b) of the Act:

a. Records for Startup

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records related to startup of affected boiler that at a minimum shall include the following:

- i. Records of the source's established startup procedures for affected boiler (as summarized in the CAAPP application); and
- 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, i.e., startup for steam supply for Boiler #9 or for space heating.
 - B. Duration of the startup, from initial firing of fuel to achievement of normal operation.

C. If normal operation is not achieved within 0.5 hour or if established startup procedures are not followed:

- An explanation why startup could not be completed sooner or established procedures could not be followed;
- Documentation for the established startup procedures that were followed;

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

b. 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 the following:

- i. A maintenance and repair log for affected boiler and associated equipment, listing activities performed with date; and
- ii. Records for each incident when operation of an affected boiler continued during malfunction or breakdown with excess emissions, as provided by Condition 7.3.3(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 7.3.10(b), as

applicable, including copies of follow-up reports submitted pursuant to Condition 7.3.10(b)(ii); and

- E. If excess emissions occurred for 0.5 or more hours:
1. An explanation why continued operation of the affected boiler was necessary;
 2. The preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity; and
 3. An estimate of the magnitude of excess emissions occurring during the incident.

c. Records of Fuel Usage

- i. For each shipment of distillate fuel oil received, records of the quantity and maximum sulfur content;
- ii. Heat content of the fuel oil (Btu/gal);
- iii. Records of the sulfur content of the fuel oil supply to the affected boiler, based on the weighted average of material in the storage tank, or the sulfur content of the supply shall be assumed to be the highest sulfur content in any shipment in the tank;
- iv. Total distillate fuel oil consumed, (gal/day, gal/month, and gal/year);
- v. Total natural gas consumed (scf/day, scf/mo, and scf/yr);
- vi. Total operating hours (hours/day, hours/quarter); and
- vii. Heat input (mmBtu/hr).

d. Records for SO₂ Emissions

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Pursuant to the NSPS, 40 CFR 60.48c, the Permittee shall keep records, related to SO₂ emissions for the affected boiler to verify compliance with the Conditions 7.3.4(a)(ii) and (b), that as a minimum shall include the following:

- i. Records of fuel oil supplier certification used to demonstrate compliance, as described under the NSPS, 40 CFR 60.48c(f)(1).
- ii. Each 30-day average SO₂ emission rate (lbs/mmBtu), or 30-day average sulfur content (weight percent) calculated during the reporting period.
- iii. Cause and periods of any noncompliance with the emission standards.
- iv. Description of corrective actions taken

7.3.10 Reporting Requirements

a. Quarterly Operating Report

In place of the semi-annual reports required by NSPS, 40 CFR 60.48c(d) and 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 affected boiler;
 - B. A discussion of significant changes in the fuel supply to the affected boiler, if any, including changes in the source of fuel oil or the maximum rate (mmBtu/hour) at which it will be fired;
 - C. The number of startups for affected boiler and a narrative discussion based on the records required by Condition 7.3.9(a)(ii);
 - D. A narrative discussion based on the records required by Condition 7.3.9(b)(ii) of incidents when operation of the affected boiler continued during malfunction or breakdown with excess emissions that are not addressed by individual reports submitted pursuant to Condition 7.3.10(b)(ii); (See also notification and reporting requirements for individual incidents in Condition 7.3.10(b));
 - E. The information related to SO₂ emissions during the quarter specified by Condition 7.3.10(c); and
 - F. A summary of other noncompliance as separately reported pursuant to Condition 7.3.10(d)(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 for Affected Boiler

Pursuant to 35 IAC 201.263, the Permittee shall provide the following notifications and reports to the Illinois EPA concerning incidents when operation of the affected boiler continued during malfunction or breakdown with excess emissions as addressed by Condition 7.3.3(c). These requirements do not apply to excess emissions 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 the affected boiler exceeds 20 percent for more than one (1) 6-minute averaging period per hour unless the Permittee has begun 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 an hour, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.3.10(a)(i)(D).)

ii. Upon conclusion of each incident that is 0.5 hour 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 the affected boiler was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and

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when the repairs were completed or when the
affected boiler was taken out of service.

c. Reporting of SO₂ Monitoring

Pursuant to the NSPS, 40 CFR 60.48c(d) the Permittee shall submit reports, related to SO₂ emissions from the affected boiler, including the following information, as applicable with its quarterly operating reports pursuant to Condition 7.2.10(a):

- i. The following information for each period when SO₂ emissions were in excess of the applicable standards specified in Conditions 7.3.4(a)(ii) and (b) for any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of sulfur dioxide as defined under 40 CFR 60.42c(d). When there were no such exceedances, this shall be stated in the report.
 - A. Calendar dates covered in the reporting period.
 - B. Each 30-day average SO₂ emission rate (lbs/mmBtu), or 30-day average sulfur content (weight percent) calculated during the reporting period; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
 - C. Fuel supplier certifications for the reporting period as described in 40 CFR 60.48c(f)(1).
 - D. A certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting periods.

- d. Prompt Reporting of Deviations

For the affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements [Section 39.5(7)(f)(ii) of the Act]. For this purpose, prompt notification shall be considered:

- i. Reporting as specified above in Conditions 7.3.10(b) and (c) for deviations from Conditions 5.2.2(b) and 7.1.4;
- ii. Notification within 30 days for a deviation from Condition 7.3.6, with a copy of applicable records for such incident or

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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 7.3.10(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.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

N/A

7.3.12 Compliance Procedures

- a. Compliance with the opacity limits specified in Conditions 5.2.2(b) and 7.3.4(a)(iii) is addressed by the recordkeeping required by the Condition 7.3.9 and opacity testing in accordance Condition 7.3.7(a).
- b. Compliance with the PM and NO_x limitations of Condition 7.3.4(b) is address by recordkeeping required by Condition and emission testing in accordance with Condition 7.3.7(b).
- c. Compliance with the SO₂ limitations of Conditions 7.3.4(a)(ii) and (b) is addressed by the recordkeeping required by Condition 7.3.9(d).
- d. Further compliance procedures are not set by this permit for the CO limitations of Condition 7.3.4(b), as compliance is assumed to be inherent in operation of the affected boiler under operating Conditions other than startup or shutdown.

7.4 Unit 4: Coal Handling Operations
Control: Various Control Measures

7.4.1 Description

The Permittee transfers and stores coal in a series of operations, including a railcar and barge unloader, conveyor belts (with associated hoppers, diverters, and transfer points), storage piles (with stackers and feeders), coal crushers and silos. The coal, as supplied by the mine, is first unloaded from railcars and barges, then transferred either to the storage piles or reclaim via conveyors. During the transfer to the silos the coal is crushed either in the Crusher House (when coming from barges) or in the reclaim crusher (when coming from railcars) (See Section 7.5). Particulate matter (PM) emissions associated with these operations are controlled by various measures including the moisture content of the coal, application of dust suppressant to the coal, enclosure and covers, and dust collection devices.

7.4.2 List of Emission Equipment and Pollution Control Equipment

The following is a list of the coal handling operations and associated control systems at the source as of the "date issued" as shown on page 1 of this permit.

Coal Receiving Operations

Railcar Unloading and Barge Unloading
Coal Transfer Conveyors
Enclosures and Covers, Dust Suppressant Application Systems,
and Dust Collection Devices

Coal Crushing House

Coal Transfer Conveyors
Enclosures and Covers, Dust Suppressant Application Systems
and Dust Collection Devices)

Coal Storage Operations

Radial Stackers and Outdoor Storage Piles
Coal Transfer Conveyors
Coal Storage Silos
Enclosures and Covers, Dust Suppressant Application System,

and Dust Collection Devices

7.4.3 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 7.4.1 and 7.4.2.
- 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) 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 7.4.9(h) and 7.4.10(c).
- 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. 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 operation 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.

7.4.5 Non-Applicability of Regulations of Possible Concern

- a. 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 New Source Performance Standards (NSPS) for Coal Preparation Plants, 40 CFR Part 60, Subparts A and Y, because the affected operations commenced construction or modification before October 24, 1974.
- c. 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.
- d. 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.

7.4.6 Work Practices, Operational and Production Limits and Emission Limitations

- a. i. The throughput of the railcar unloading operation shall not exceed 650,000 tons/month and 2,000,000 tons/year. (T1R)
- ii. The emissions from the following affected operations associated with railcar unloading shall not exceed the following limits: (T1R)

Affected Operations	PM Emissions		PM ₁₀ Emissions	
	Lbs/Ton	Tons/Yr	Lbs/Ton	Tons/Yr
Railcar Unloading	0.009 ¹	9.0	0.0068 ²	6.8
Radial Stacker	0.015	15	0.0075	7.5
Total		24.0		14.3

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- Notes:
1. This reflects controlled emissions of 0.0045 lb/ton and uncaptured emissions of 0.0045 lb/ton (based on 99 percent capture and 99 percent control efficiency).
 2. This limit reflects controlled emissions of 0.0045 lb/ton and uncaptured emissions of 0.0023 lb/ton.
- iii. 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)
- iv. The above limitations contain revisions to limitations established in previously issued Construction Permit 95080014. The source has requested that the Illinois EPA establish conditions in this permit that have various refinements from the conditions of the aforementioned permit, consistent with the information provided in the CAAPP application. The source has requested these revisions and has addressed the applicability and compliance of Title I of the CAA, specifically federal PSD rules, 40 CFR 52.21. These limits continue to ensure that the construction and/or modification addressed in this permit does not constitute a new major source or major modification pursuant to these rules. These limits are the primary enforcement mechanism for the equipment and activities permitted in this permit and the information in the CAAPP application contains the most current and accurate information for the source. Specifically, the throughput and emission limitations associated with railcar unloading/transfer operations has been changed and reduced to consider uncontrolled fugitive emissions and are intended to ensure that the railcar unloading/transfer with associated controls not constituting a major modification

pursuant to federal Prevention of Significant Deterioration of Air Quality Rules, 40 CFR 52.21 (PSD). (TIR)

- 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 7.4.4 and 7.4.6(b), pursuant to Section 39.5(7)(a) of the Act.
- ii. The Permittee shall operate and maintain each affected operation with the control measures identified in Condition 7.4.9(b).

7.4.7 Testing Requirements

None

7.4.8 Inspection Requirements

The Permittee shall perform inspections of the affected operations on at least a monthly basis, including associated control measures, while the operations are in use, to confirm compliance with the requirements of Condition 7.4.6(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 39.5(7)(a) of the Act.

7.4.9 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 that it is currently being implemented for different affected operations pursuant to Condition 7.4.6(b). These control measures, as defined by the Permittee through these records, are referred to as the "established control measures" in this subsection of the CAAPP permit.
- c. The Permittee shall maintain the following operating records:
 - i. The amount of coal and other solid fuels received at the source (tons/month and tons/year, by type of fuel);
 - ii. The amount of coal unloaded from the railcar (tons/month and tons/year); and
 - iii. The amount of coal and other solid fuels sent to the outdoor storage piles (tons/month and tons/year, by type of fuel).
- d. The Permittee shall maintain records of the following for the inspections required by Condition 7.4.8:
 - 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., recommended action has been taken, is yet to be performed or no longer appears to be required; and
 - 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 operation(s) 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 in use, 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 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 operation(s) 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 operation(s) 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; and
 - vii. A discussion whether Condition 7.4.4(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 7.4.6(a), the Permittee shall keep records of PM and PM₁₀ emissions (tons/month and tons/year) from the railcar facility operations, i.e., railcar unloading and radial stacker operations, 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(c), as applicable, including copies of follow-up

reports submitted pursuant to Condition 7.2.10(c)(ii).

- E. If excess emissions occurred for two or more hours:
1. An explanation why continued operation of the affected operation was necessary.
 2. The preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
 3. An estimate of the magnitude of excess emissions occurring during the incident.

7.4.10 Reporting Requirements

For 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.

- a. Notification within 30 days for operation of an affected operation that was not in compliance with applicable requirements in Conditions 7.4.6 that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.4.9(e).
- b. Notification in the quarterly reports required by Condition 7.2.10(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
- c. 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 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 five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.2.10(b).
- 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.

7.4.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to 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.

7.4.12 Compliance Procedures

- a. Compliance with the emission standards of Condition 7.4.4(a) and (b) is addressed by the control, inspection, and recordkeeping required by Conditions 7.4.6(b), 7.4.8, and 7.4.9, respectively.
- b. Compliance with the emission limitation of Condition 7.4.6(a) shall be determined based on the control, inspection and recordkeeping required by Conditions 7.4.6(b), 7.4.8, and 7.4.9, respectively, and published emission factors for uncontrolled PM and PM₁₀ emissions, efficiency of control measures, and controlled PM and PM₁₀ emissions.

7.5 Unit 5: Coal Processing Operations
 Control: Various Control Measures

7.5.1 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 enclosures and covers, application of dust suppressant to the coal, and dust collection devices.

7.5.2 List of Emission Equipment and Pollution Control Equipment

The following is a list of the coal processing equipment and associated control systems at the source. This processing equipment were all constructed prior to April 14, 1972.

Emission Unit	Description	Emission Control Equipment
Crushers	Crusher House	Enclosures and Covers, Dust Suppressant Application, and Dust Collection Devices
	Reclaim Crusher	Enclosures and Covers, Dust Suppressant Application, and Dust Collection Devices

7.5.3 Applicability Provisions

- a. For the purpose of these unit-specific conditions, an "affected process" is an individual process emission unit that prepares coal for use as a fuel by crushing the coal as described in Conditions 7.5.1 and 7.5.2.
- 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 7.5.4(d), 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 7.5.9(h) and 7.5.10(c).

- 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.

7.5.4 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 process, pursuant to 35 IAC 212.301.
- b. The affected process shall comply with the standard in Condition 5.2.2(b), which addresses the opacity of smoke or other particulate matter from the affected processes, pursuant to 35 IAC 212.123.
- c. 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)].

7.5.5 Non-Applicability of Regulations of Possible Concern

- a. This permit is issued based on the affected processes are not being subject to the New Source Performance Standards (NSPS) for Coal Preparation Plants, 40 CFR Part 60, Subparts A and Y, because the affected processes commenced construction or modification before October 24, 1974.
- b. This permit is issued based on the affected processes are 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.

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

- a. i. The Permittee shall implement and maintain control measures for the affected processes, such as enclosure, natural surface moisture, application of dust suppressant, and use of dust collection devices, that minimize visible emissions of particulate matter and provide a reasonable assurance of compliance with the applicable emission standards in Conditions 7.5.4 and 7.5.6, 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 7.5.9(b).

7.5.7 Testing Requirements

None

7.5.8 Inspection Requirements

The Permittee shall perform an inspection of each affected process, including associated control measures, on at least a monthly basis to confirm compliance with the control requirements of Condition 7.5.6(a).

7.5.9 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 each affected process.
- b.
 - i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures that it is currently following for affected processes pursuant to Condition 7.5.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit.
 - ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.5.4(c) at the maximum process weight rate at which 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 7.5.12).

- c. The Permittee shall maintain records of the following for the inspections required by Condition 7.5.8, for each affected process:
 - i. Date and time the inspection was performed and name(s) of inspection personnel;
 - ii. The observed condition of the established control measures for the affected process;
 - iii. 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; and
 - iv. A summary of compliance compared to the established control measures.

- d. The Permittee shall maintain records of the following for each incident when any affected process operated without the established control measures:
 - i. The date of the incident and identification of the affected processes 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 emission rate 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 processes 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) operated 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; and
 - vii. A discussion whether Condition 7.5.4(b) or (c) may have been violated during the incident, with supporting explanation and calculations as needed.
- e. The Permittee shall keep maintenance and repair logs for each item of air pollution control equipment, i.e., each dust suppressant application system and each dust collection device, associated with affected processes. 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.)

7.5.10 Reporting Requirements

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

- a. Notification within 30 days for operation of an affected process that was not in compliance with applicable requirements in Condition 7.3.6 that

continued for more than 12 hour from the time it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.5.10(d).

- b. Notification accompanying the quarterly reports required by Condition 7.2.10(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.
- c. 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 process continued during malfunction or breakdown with excess emissions as addressed by Condition 7.5.3(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 five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.5.10(b).
- 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.

7.5.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to each affected process 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.

7.5.12 Compliance Procedures

- a. Compliance with Conditions 7.5.4(c) is determined based on the control, inspection, and recordkeeping required by Conditions 7.5.6(a), 7.5.8, and 7.5.9, 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 7.5.9(b) or by the use of measured emissions factors.
- b. Compliance with Conditions 7.5.4(a) and (b) is addressed by the control, inspection, and recordkeeping required by Conditions 7.5.6(a), 7.5.8, and 7.5.9, respectively.

7.6 Unit 6: Gasoline Storage Tank
 Control: Submerged Loading

7.6.1 Description

The Permittee stores gasoline for use in plant vehicles and equipment. Submerged loading is used to reduce emissions when gasoline is received.

7.6.2 List of Emission Equipment and Pollution Control Equipment

The following is a list of the gasoline storage tanks at the source as of the "date issued" as shown on page 1 of this permit.

Emission Unit	Description	Emission Control Equipment
Storage Tank 1	Underground Tank, Nominal Capacity 1,000 Gallons	Permanent Submerged Loading Pipe

7.6.3 Applicability Provisions

An "affected tank," for the purpose of these unit-specific conditions, is a storage tank described in Conditions 7.6.1 and 7.6.2. Affected tanks are at most subject to the VOM control requirements of 35 IAC 215.122(b). Accordingly, affected storage tanks have a capacity greater than 250 gallons but less than 10,000 gallons and are used to store a volatile organic liquid with a vapor pressure of 2.5 psia or greater at 70°F.

7.6.4 Applicable Emission Standards

Each affected tank shall be equipped and operated with a permanent submerged loading pipe, pursuant to 35 IAC 215.122(b). (The Illinois EPA has not approved use of other equivalent equipment in lieu of a permanent submerged loading pipe.)

7.6.5 Non-Applicability of Regulations of Possible Concern

None

7.6.6 Operational Limitations

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None

7.6.7 Testing Requirements

None

7.6.8 Inspection Requirements

None

7.6.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for each affected tank to verify compliance with Condition 7.6.4, pursuant to Section 39.5(7)(b) of the Act:

- a. Design information for the tank or other documentation showing the presence of a permanent submerged loading pipe;
- b. Maintenance and repair records for the tank, as related to the repair or replacement of the loading pipe; and
- c. Material throughput, gallons/year.

7.6.10 Reporting Requirements

For the affected tank, the Permittee shall promptly notify the Illinois EPA of deviations from the applicable permit requirements, pursuant to Section 39.5(7)(f)(ii) of the Act. Such notifications shall be submitted within 30 days of the deviation and include a description of the incident and a discussion of the probable cause of deviation, the corrective actions, and preventative measures taken.

7.6.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to an affected tank 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 and properly obtain a construction permit in a timely manner for any activity constituting construction or modification of the source, as defined in 35 IAC 201.102:

Storage and handling vehicle fuels other than gasoline including diesel fuel, E-85 ethanol, and liquefied petroleum gas (LPG).

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7.6.12 Compliance Procedures

Compliance with Condition 7.6.4 is addressed by the recordkeeping requirements of Condition 7.6.9.

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 (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. To the extent that the federal regulations promulgated under Title IV are inconsistent with the requirements of this permit, the federal regulations promulgated under Title IV 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

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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 without applying for or obtaining an amendment to this permit, provided that the changes do not constitute a modification under Title I of the CAA, emissions will not exceed the emissions allowed under this permit following implementation of the physical or operational change, and 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 [Section 39.5(12)(a) of the Act]. This notice shall:

- a. Describe the physical or operational change;
- b. Identify the schedule for implementing the physical or operational change;
- c. 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;
- d. Provide emission calculations which demonstrate that the physical or operational change will not result in a modification; and
- e. 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

Reports summarizing required monitoring 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, unless more frequent submittal of such reports is required in Section 7 of this permit [Section 39.5(7)(f) of the Act]:

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

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

8.6.2 Test Notifications

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

- a. The name and identification of the affected unit(s);
- b. The person(s) who will be performing sampling and analysis and their experience with similar tests;
- c. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the source and any control equipment will be determined;
- d. The specific determination of emissions and operation that are intended to be made, including sampling and monitoring locations;

- e. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods;
- f. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with justification; and
- g. Any proposed use of an alternative test method, with detailed justification.

8.6.3 Test Reports

Unless otherwise specified elsewhere in this permit, the results of any test required by this permit shall be submitted to the Illinois EPA within 60 days of completion of the testing. The test report shall include at a minimum [Section 39.5(7)(e)(i) of the Act]:

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

8.6.4 General Requirements for Reports

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular

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reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.

- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:

- i. Illinois EPA - Air Compliance Section

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (MC 40)
P.O. Box 19276
Springfield, Illinois 62794-9276

- ii. Illinois EPA - Air Regional Field Office

Illinois Environmental Protection Agency
Division of Air Pollution Control
2009 Mall Street
Collinsville, Illinois 62234

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iii. USEPA Region 5 - Air Branch (if applicable)

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

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

Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section (MC 11)
1021 North Grand Avenue East
P.O. Box 19506
Springfield, Illinois 62794-9506

8.7 Obligation to Comply with Title I Requirements

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

9.0 STANDARD PERMIT CONDITIONS

9.1 Effect of Permit

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

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

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

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, 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)(p)(ii) of the Act]:

- a. Enter upon the Permittee's premises where an actual or potential emission unit is located; where any regulated equipment, operation, or activity is located or where records must be kept under the conditions of this permit;
- b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- c. Inspect during hours of operation any sources, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- d. Sample or monitor any substances or parameters at any location:
 - i. At reasonable times, for the purposes of assuring permit compliance; or
 - ii. As otherwise authorized by the CAA, or the Act.
- e. Obtain and remove samples of any discharge or emission of pollutants; 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.

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, Air 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 compliance certifications annually or more frequently as specified in the applicable requirement or by permit condition.

- 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

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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

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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

10.1.1 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

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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

10.2.1 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

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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)]:

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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

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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

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10.5 Attachment 5 Acid Rain Phase II Permit (Pursuant to Title IV of the Clean Air Act)

**ACID RAIN PROGRAM
 PHASE II PERMIT - REVISED**

Dynegy Midwest Generation, Inc.
 Attn: Mr. Aric D. Diericx, Designated Representative
 2828 North Monroe Street
 Decatur, Illinois 62526-3269

Oris No. 891
IEPA I.D. No.: 125804AAB
Source/Unit: Havana 1 - 9
Date Received: May 13, 2002
Date Issued: January 29, 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 Dynegy Midwest Generation, Inc. Havana plant to incorporate nitrogen oxides emission limitation compliance plan requirement.

SULFUR DIOXIDE (SO₂) 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	35	35	35	35	35
UNIT 2	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	45	45	45	45	45
UNIT 3	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	35	35	35	35	35
UNIT 4	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	35	35	35	35	35
UNIT 5	SO ₂ Allowances, under	35	35	35	35	35

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	Tables 2, 3, or 4 of 40 CFR Part 73					
UNIT 6	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	35	35	35	35	35

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UNIT 7	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	35	35	35	35	35
UNIT 8	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	35	35	35	35	35
UNIT 9	SO ₂ Allowances, under Tables 2, 3, or 4 of 40 CFR Part 73	8,803	8,803	8,803	8,803	8,803
UNIT 9	NO _x limit	<p><u>2002</u></p> <p>Pursuant to 40 CFR Part 76, the Illinois EPA approves a NO_x standard emission limitation compliance plan for Unit 9. The NO_x compliance plan is effective beginning 2001 through 2004. Under the NO_x compliance plan, this units annual average NO_x emissions rate for each year, determined in accordance with 40 CFR Part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.5(a)(2), of 0.45 lb/mmBtu.</p> <p><u>2003-2004</u></p> <p>Pursuant to 40 CFR 76.11, the Illinois EPA approves a NO_x emissions averaging plan for this unit, that is effective for one calendar year for the years 2003 and 2004. Under this plan, this unit's NO_x emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.46 lb/mmBtu. In addition, this unit shall not have an annual heat input greater than 25,000,000 mmBtu.</p> <p>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</p>				

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		<p>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.</p> <p>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.</p>
--	--	--

COMMENTS, NOTES AND JUSTIFICATIONS: The 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 and continues through the last calendar year that the acid raid permit is effective. Every subsequent alternate emission limitation NO_x compliance plan submitted at the time of acid rain permit renewal will be effective for the same years that the acid raid permit is effective, including any partial years.

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.

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

DES:MA:jar

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

CRR:psj

FINAL DRAFT/PROPOSED CAPPP PERMIT
Dynergy Midwest Generation, Inc.
I.D. No.: 125804AAB
Application No.: 95090053
May 14, 2003

(ORIGINAL SIGNED BY DONALD E. SUTTON)

United States Environmental Protection Agency
 Acid Rain Program

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

EPA

Phase II Permit Application

Page 1

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

This submission is: New Revised

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

Plant Name: HAVANA	State: IL	DRIS Code: 0891
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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

Compliance Plan

a	b	c	d	e
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(a)(11)	Repowering Plan	New Units Commence Operation Date	New Units Monitor Certification Deadline
1	Yes	NO		
2	Yes	NO		
3	Yes	NO		
4	Yes	NO		
5	Yes	NO		
6	Yes	NO		
7	Yes	NO		
8	Yes	NO		
9	Yes	NO		
	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. 12-84; previous versions obsolete)

	Plant Name (from Step 1) HAVANA	Phase II Permit - Page 2
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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:
01 Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadline specified in 40 CFR 72.6(a); and
02 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:
01 Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
02 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 76 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:
01 Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 72.6(a)(2)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
02 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:
01 Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
02 Starting on the later of January 1, 2000 or the deadline for initial verification 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 Trading 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:
01 Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
02 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 file 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:
01 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.
02 All emissions monitoring information, in accordance with 40 CFR part 75;
03 Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

FINAL DRAFT/PROPOSED CAPPP PERMIT
Dynegy Midwest Generation, Inc.

I.D. No.: 125804AAB
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May 14, 2003

Plant Name (from Step 1) HAVANA	Phase II Permit - Page 3
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Recordkeeping and Reporting Requirements (cont.)

(1) 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 76.

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(j) 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(j) 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 plants) and 40 CFR 76.11 (NO_x averaging plants), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No revision 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 affect the source's obligation to comply with any other provisions of the Act;

(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudency 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 the 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.

JENE L. ROBINSON	
	12/27/95

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

EPA Form 7610-10 (Rev. 12-24; previous versions obsolete)

	Hennepin Plant Name (from Step 1)	NO _x Averaging - Page 2				
<p>STEP 3 Mark one of the two options and enter dates.</p>	<p><input type="checkbox"/> This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.</p> <p><input checked="" type="checkbox"/> Treat this plan as <input checked="" type="checkbox"/> identical plans, each effective for one calendar year for the following calendar years: 2002, _____ and _____ unless notification to terminate one or more of these plans is given.</p>					
<p>STEP 4 Read the special provisions and certification, enter the name of the designated representative, and sign and date.</p>	<p>Special Provisions</p> <p><u>Emission Limitations</u> 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:</p> <p>(j) 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</p> <p>(k) 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,</p> <p>(l) 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</p> <p>(m) If one or more of the units does not meet the requirements of (j), (k), or (l), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(i)(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.</p> <p>(n) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(i)(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 (j).</p>					
	<p><u>Liability</u> 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.</p>					
	<p><u>Termination</u> 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.</p>					
	<p><u>Certification</u> 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.</p>					
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%; padding: 5px;">Name: Aris D. Djorick</td> <td style="width: 40%;"></td> </tr> <tr> <td style="padding: 5px;">Signature: </td> <td style="padding: 5px;">Date: October 26, 2002</td> </tr> </table>		Name: Aris D. Djorick		Signature:	Date: October 26, 2002
Name: Aris D. Djorick						
Signature:	Date: October 26, 2002					
<p style="font-size: small;">EPA Form 7610-20 (5/02)</p>						



United States
 Environmental Protection Agency
 Acid Rain Program

CWS No. 1000-0238

Phase II NO_x Averaging Plan

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

Page 1

This submission is: New Renewal

Page 1 of 3

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADS. In column (a), list 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 lbmmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Baldwin	IL	1	0.86	0.86	45,000,000
Baldwin	IL	2	0.86	0.86	38,000,000
Hennepin	IL	1	0.40	0.40	4,000,000
Hennepin	IL	2	0.45	0.40	15,000,000
Vermilion	IL	1	0.45	0.50	5,000,000
Vermilion	IL	2	0.45	0.50	7,000,000
Wood River	IL	4	0.40	0.40	6,000,000
Wood River	IL	5	0.40	0.40	20,000,000
Baldwin	IL	3	0.45	0.45	45,000,000

STEP 2

Use the formula to enter the Rtu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Rtu-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.

Rtu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan

$$\frac{\sum_{i=1}^n (R_{a,i} \times HI_i)}{\sum_{i=1}^n HI_i} = 0.61$$

Rtu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7

$$\frac{\sum_{i=1}^n (R_{c,i} \times HI_i)}{\sum_{i=1}^n HI_i} = 0.61$$

Where,

- R_{a,i} = Alternative contemporaneous annual emission limitation for unit i, in lbmmBtu, as specified in column (b) of Step 1;
- R_{c,i} = Applicable emission limitation for unit i, in lbmmBtu, 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

Baldwin Plant Name (from Step 1)		NO, Averaging - Page 2
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STEP 3
Mark one of the two options and enter dates.

This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

Treat this plan as identical plans, each effective for one calendar year for the following calendar years: 2003, 2004, _____ and _____ unless notification to terminate one or more of these plans is given.

STEP 4
Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met.

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and

(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,

(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or

(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(i)(A) and (D), that the actual Dtu-weighted annual average emission rate for the units in the plan is less than or equal to the Dtu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.

(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(i)(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

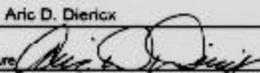
The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

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 the 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: Aric D. Dierickx	
Signature: 	Date: October 28, 2002

EPA Form 7610-20 (2-97)

FINAL DRAFT/PROPOSED CAPPP PERMIT
 Dynegy Midwest Generation, Inc.
 I.D. No.: 125804AAB
 Application No.: 95090053
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EPA United States Environmental Protection Agency Acid Rain Program OMB No. 2060-0288 Expires 1-31-99

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.3 Page 13

This submission is: New Revised

STEP 1
 Indicate plant name, State, and OASIS code from NAUA, if applicable

Plant Name <u>Havana</u>	State <u>IL</u>	OASIS Code <u>0891</u>
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STEP 2
 Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NAAB. If applicable, indicate boiler type: "CB" for call burner, "CY" for cyclone, "DBW" for dry bottom wall fired, "TF" for tangentially fired, "VF" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	ID#	ID#	ID#	ID#	ID#	ID#
	Type	Type	Type	Type	Type	Type
(a) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase I tangentially fired boilers)	9 DBW					
(b) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(c) EPA-approved scrubber system (for units 40 CFR 76.3 through 76.114) (also indicate above emission limit specified in plan)						
(d) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I dry bottom wall-fired boilers)						
(e) Standard annual average emission limitation of 0.49 lb/mmBtu (for Phase I tangentially fired boilers)						
(f) Standard annual average emission limitation of 0.55 lb/mmBtu (for call burner boilers)						
(g) Standard annual average emission limitation of 0.60 lb/mmBtu (for cyclone boilers)						
(h) Standard annual average emission limitation of 0.60 lb/mmBtu (for vertically fired boilers)						
(i) Standard annual average emission limitation of 0.64 lb/mmBtu (for wet bottom boilers)						
(j) NO _x Averaging Plan (include NO _x Averaging form)	<input checked="" type="checkbox"/>					
(k) Common stack pursuant to 40 CFR 76.17(a)(2)(i)(4) (check the standard emission limitation box above for most stringent emission standards on any unit utilizing stack)						

FINAL DRAFT/PROPOSED CAPPP PERMIT
 Dynegy Midwest Generation, Inc.

I.D. No.: 125804AAB
 Application No.: 95090053
 May 14, 2003

Common stack pursuant to 40 CFR 76.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)

Plant Name (from Step 1) Havana NO_x Compliance - Page 2
Page 07 of 09

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
Type	Type	Type	Type	Type	Type

EPA-approved on-site stack abatement method pursuant to 40 CFR 76.17(a)(2)(i)(C), (i)(2)(i)(B), or (i)(2)(i)(D)

Alternative Emissions Limitation (includes Alternative Emissions Limitation Demonstration Period form or AEL renewal form)

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

Standard Requirements

GENERAL: This source is subject to the standard requirements for 40 CFR 72.9 (correlating with 40 CFR 76.2(a)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Hydrogen Sulfide: A unit that is governed by an approved early election plan shall be subject to an emissions limitation for H₂S, as provided under 40 CFR 76.2(a)(2) except as provided under 40 CFR 76.2(a)(3)(B).

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 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination: An approved early election plan shall be in effect only until the earlier of January 1, 2006 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 2006 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

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

Name <u>Aric D. Dierick</u>	
Signature <u>Aric D. Dierick</u>	Date <u>12/14/97</u>