



TABLE OF CONTENTS

	<u>PAGE</u>
1.0 SOURCE IDENTIFICATION	#
1.1 Source	
1.2 Owner/Parent Company	
1.3 Operator	
1.4 General Source Description	
2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT	#
3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES	#
3.1 Identification of Insignificant Activities	
3.2 Compliance with Applicable Requirements	
3.3 Addition of Insignificant Activities	
4.0 SIGNIFICANT EMISSION UNITS AT THIS SOURCE	#
5.0 OVERALL SOURCE CONDITIONS	#
5.1 Source Description	
5.2 Applicable Regulations	
5.3 Non-Applicability of Regulations of Concern	
5.4 Source-Wide Operational and Production Limits and Work Practices	
5.5 Source-Wide Emission Limitations	
5.6 General Recordkeeping Requirements	
5.7 General Reporting Requirements	
5.8 General Operational Flexibility/Anticipated Operating Scenarios	
5.9 General Compliance Procedures	
6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS	#
6.1 NO <sub>x</sub> Trading Program	
6.2 Acid Rain Program	
7.0 UNIT SPECIFIC CONDITIONS	#
7.1 Coal Fired Boiler	
7.2 Coal Handling Equipment	
7.3 Heating Boiler	
7.4 Limestone Handling Equipment	
7.5 Gasoline Storage Tanks	
8.0 GENERAL PERMIT CONDITIONS	#
8.1 Permit Shield	
8.2 Applicability of Title IV Requirements	
8.3 Emissions Trading Programs	
8.4 Operational Flexibility/Anticipated Operating Scenarios	
8.5 Testing Procedures	
8.6 Reporting Requirements	
8.7 Obligation to Comply with Title I Requirements	

	<u>PAGE</u>
9.0 STANDARD PERMIT CONDITIONS	#
9.1 Effect of Permit	
9.2 General Obligations of Permittee	
9.3 Obligation to Allow Illinois EPA Surveillance	
9.4 Obligation to Comply with Other Requirements	
9.5 Liability	
9.6 Recordkeeping	
9.7 Annual Emissions Report	
9.8 Requirements for Compliance Certification	
9.9 Certification	
9.10 Defense to Enforcement Actions	
9.11 Permanent Shutdown	
9.12 Reopening And Reissuing Permit For Cause	
9.13 Severability Clause	
9.14 Permit Expiration and Renewal	
9.15 General Authority for Permit Terms and Conditions	
10.0 ATTACHMENTS	
10.1 Attachment 1 - Emissions of Particulate Matter from New Process Emission Units	1-1
10.2 Attachment 2 - Emissions of Particulate Matter from Existing Process Emission Units	2-1
10.3 Attachment 3 - Example Certification by a Responsible Official	3-1
10.4 Attachment 4 - Guidance	4-1
10.5 Attachment 5 - Acid Rain Program Permit	5-1

1.0 SOURCE IDENTIFICATION

1.1 Source

AmerenEnergy Resources Generating Company  
17751 North Cilco Road  
Canton, Illinois 61520  
309/668-2236

I.D. No.: 057801AAA  
Acid Rain Permit ORIS Code No.: 6016

Standard Industrial Classification: 4911, Electrical Services

1.2 Owner/Parent Company

AmerenEnergy Resources Generating Company  
1901 Chouteau Avenue  
St. Louis, Missouri 63101

1.3 Operator

AmerenEnergy Resources Generating Company  
1901 Chouteau Avenue  
St. Louis, Missouri 63101

Steven C. Whitworth  
314/554-4908

1.4 General Source Description

AmerenEnergy Resources Generating Company - Duck Creek plant is located at 17751 North Cilco Road in Canton. The source operates one coal-fired boilers to generate electrical power.

2.0 LIST OF ABBREVIATIONS/ACRONYMS USED IN THIS PERMIT

acfm	Actual Cubic Feet Per Minute
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
Btu	British thermal unit
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
dcfm	dry cubic feet Per minute
EGU	Electrical Generating Unit(s)
Gal	gallon
ESP	Electrostatic Precipitator
°F	degrees Fahrenheit
ft	foot
ft <sup>3</sup>	cubic foot
FGD	Flue Gas Desulfurization system
HAP	Hazardous Air Pollutant
HP	Horsepower
Hr	hour
IAC	Illinois Administrative Code
I.D. No.	Identification Number of Source, assigned by Illinois EPA
ILCS	Illinois Compiled Statutes
Illinois EPA	Illinois Environmental Protection Agency
°K	degrees Kelvin
Kg	kilogram
kW	kilowatts
Lb	pound
LNB	Low NO <sub>x</sub> Burners
m	meter
MACT	Maximum Achievable Control Technology
Mg	Megagram or metric ton
mmBtu	million British thermal units
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO <sub>x</sub>	Nitrogen Oxides
NSPS	New Source Performance Standards
NSSA	New Source Set-Aside
ORIS	Office of Regulatory Information System
OFA	Over-Fire Air system
OM	Organic Material
PADB	Primary Air Duct Burners
PM	Particulate Matter
PM <sub>10</sub>	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
ppm	parts per million
PSD	Prevention of Significant Deterioration (40 CFR 52.21)

psia	pounds per square inch absolute
RMP	Risk Management Plan
SO <sub>2</sub>	Sulfur Dioxide
T	Ton (2000 pounds)
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOC or VOM	Volatile Organic Compounds or Volatile Organic Material
VOL	Volatile Organic Liquid
Yr or yr	Year

### 3.0 CONDITIONS FOR INSIGNIFICANT ACTIVITIES

#### 3.1 Identification of Insignificant Activities

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

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

Di-Ethylene Glycol Storage Tank

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

Lime Storage Silo

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

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

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

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

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

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

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

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

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

Note: The heating of the coal-fired boiler with auxiliary fuel during maintenance and repair of the boiler is considered an insignificant activity under 35 IAC 201.210(b)(29) and is generally not addressed by the unit-specific conditions of this permit for boilers. Notwithstanding such status as an insignificant activity, the opacity of the exhaust from a boiler is at all times subject to 35 IAC 212.123 (Condition 5.2(b) and 7.1.4(a)) and the unit-specific conditions of this permit for boilers that relate to opacity are applicable during maintenance and repair of a boiler.

### 3.2 Compliance with Applicable Requirements

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

- 3.2.1 For each cold cleaning degreaser, the Permittee shall comply with the applicable equipment and operating requirements of 35 IAC 215.182.
- 3.2.2 For each particulate matter process emission unit, 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

Unit ID	Description	Emission Control
Boiler B-1	Riley Stoker Boiler Nominal 3,713 mmBtu/hr (1976)	LNB, SCR, ESP, FGD
Coal Handling Equipment	Coal Receiving Operations, Coal Transfer Operations, Coal Storage Operations	Enclosure and Covers
Boiler HB-1	Distillate Oil Fired Heating Boiler Nominal 63 mmBtu/hr	None
Limestone Handling Equipment	Conveyors and Unloading Operations	Enclosures and Covers
Storage Tanks DCGT-1, DCGT-2	2 Gasoline Storage Tanks Capacity 2000 gallons	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 SO<sub>2</sub>, CO, NO<sub>x</sub>, VOM, HAP, and PM emissions.
- 5.1.2 This permit is issued based on the source requiring a CAAPP permit as an "affected source" for the purposes of Acid Deposition Control, Title IV of the Clean Air Act.

5.2 Applicable Regulations

- 5.2.1 Specific emission units at this source are subject to particular regulations as set forth in Section 7 (Unit-Specific Conditions) of this permit.
- 5.2.2 In addition, emission units at this source are subject to the following regulations of general applicability:

- a. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour), pursuant to 35 IAC 212.301 and 212.314.

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

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

5.2.3 Ozone Depleting Substances

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

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

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

#### 5.2.4 Risk Management Plan (RMP)

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

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

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

#### 5.2.5 Future Emission Standards

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

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

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

#### 5.2.6 Episode Action Plan

- a. Pursuant to 35 IAC 244.142, the Permittee shall maintain at the source and have on file with the

Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144.

- b. The Permittee shall immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared.
- c. If an operational change occurs at the source that invalidates the plan, a revised plan shall be submitted to the Illinois EPA, Air Compliance Section for review within 30 days of the change, pursuant to 35 IAC 244.143(d). Such plans shall be further revised if disapproved by the Illinois EPA.

#### 5.2.7 Compliance Assurance Monitoring (CAM) Plan

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

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

#### 5.3 General Non-Applicability of Regulations of Concern

None

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

#### 5.4 Source-Wide Operational and Production Limits and Work Practices

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

None

## 5.5 Source-Wide Emission Limitations

### 5.5.1 Permitted Emissions for Fees

Emission limitations are not set for this source for the purpose of permit fees. The Permittee shall be required to pay the maximum fee required pursuant to Section 39.5(18) (a) (ii) (A) of the Act, Currently \$250,000 per year.

### 5.5.2 Emissions of Hazardous Air Pollutants (HAPs)

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

### 5.5.3 Other Source-Wide Emission Limitations

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

## 5.6 General Recordkeeping Requirements

### 5.6.1 Records for Emissions

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

- a. Records of annual emissions from the emission units that are covered by Section 7 (Unit Specific Conditions) of this permit, including emissions of mercury, hydrogen chloride, and hydrogen fluoride.
- b.
  - i. For purposes of estimating mercury emissions from the source, the mercury content of coal burned in boilers shall be based on the data collected by USEPA in its Information Collection Request (ICR) pursuant to Section 112 of the Clean Air Act.
  - ii. If such data above is not available for a coal that is burned in a boiler, the Permittee shall collect representative data on the elemental composition of the coal, including mercury, similar to the ICR data collected by USEPA.

### 5.6.2 Retention and Availability of Records

- a. All records and logs required by this permit shall be retained for at least five years from the date of entry (unless a longer retention period is specified by the particular recordkeeping provision herein), shall be kept at a location at the source that is

readily accessible to the Illinois EPA or USEPA, and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request.

- b. The Permittee shall retrieve and print, on paper during normal source office hours, any records retained in an electronic format (e.g., computer) in response to an Illinois EPA or USEPA request for records during the course of a source inspection.
- c. Upon written request by the Illinois EPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the Illinois EPA. For this purpose, material shall be submitted to the Illinois EPA within 30 days unless additional time is provided by the Illinois EPA or the Permittee believes that the volume and nature of requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 9.12.4.)
- d. For certain records required to be kept by this permit as specifically identified in the recordkeeping provisions in Section 7 of this permit, which records are a basis for control practices or other recordkeeping required by this permit, the Permittee shall promptly submit a copy of the record to the Illinois EPA when the record is created or revised. For this purpose, the initial record shall be submitted within 30 days of the effectiveness of this permit. Subsequent revisions shall be submitted within 10 days of the date the Permittee begins to rely upon the revised record.

## 5.7 General Reporting Requirements

### 5.7.1 General Source-Wide Reporting Requirements

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

- a. For emissions units that are addressed by the unit-specific conditions of this permit, the timing for reporting of deviations shall be in accordance with such conditions.
- b. i. For other emissions units and activities at the source, the timing for reporting of deviations shall be in accordance with the provisions of relevant regulations if such provisions address timing of deviation reports.

- ii. Otherwise, if the relevant regulations do not address timing of deviation reports, deviation reports shall be submitted within 30 days.

5.7.2 Annual Emissions Report

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

5.8 General Operational Flexibility/Anticipated Operating Scenarios

None

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

5.9 General Compliance Procedures

None

## 6.0 CONDITIONS FOR EMISSIONS CONTROL PROGRAMS

### 6.1 NO<sub>x</sub> Trading Program

#### 6.1.1 Description of NO<sub>x</sub> Trading Program

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

Electrical generating units (EGU) that are subject to the NO<sub>x</sub> Trading Program are referred to as "budget EGU." Sources that have one or more EGU or other units subject to the NO<sub>x</sub> Trading Program are referred to as budget sources.

The NO<sub>x</sub> Trading Program controls NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> allowances" for the actual NO<sub>x</sub> emissions of its budget units during the preceding control period. The USEPA will then retire NO<sub>x</sub> allowances in the source's accounts in amounts equivalent to its seasonal emissions. If a source does not have sufficient allowances in its accounts, USEPA would subtract allowances from the source's future allocation for the next control period and impose other penalties as appropriate. Stringent monitoring procedures developed by USEPA apply to budget units to assure that actual emissions of NO<sub>x</sub> emissions are accurately determined.

The number of NO<sub>x</sub> allowances available for budget sources is set by the overall budget for NO<sub>x</sub> emissions established by USEPA. This budget requires a substantial reduction in NO<sub>x</sub> 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<sub>x</sub> allowances budgeted for EGU in an amount determined by rule [35 IAC Part 217, Appendix F]. Between 2007 and 2011, the allocation mechanism for existing EGU gradually shifts to one based on the actual operation of EGU in preceding control periods. New budget EGU, for which limited operating data may be available, may obtain NO<sub>x</sub> 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<sub>x</sub> allowances as described above, budget sources may transfer NO<sub>x</sub> 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<sub>x</sub> emissions from budget units to comply with the overall NO<sub>x</sub> budget. In particular, the NO<sub>x</sub> 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<sub>x</sub> allowances from those units that can be transferred to other units at which it is more difficult to control NO<sub>x</sub> emissions. Experience with reduction of sulfur dioxide emissions under the federal Acid Rain program has shown that this type of trading program not only achieves regional emission reductions in a more cost-effective manner but also results in greater overall reductions than application of traditional emission standards to individual emission units.

The USEPA developed the plan for the NO<sub>x</sub> Trading Program with assistance from affected states. Illinois' rules for the NO<sub>x</sub> Trading Program for EGU are located at 35 IAC Part 217, Subpart W, and have been approved by the USEPA. These rules provide for interstate trading, as mandated by Section 9.9 of the Act. Accordingly, these rules refer to and rely upon federal rules at 40 CFR Part 96, which have been developed by USEPA for certain aspects of the NO<sub>x</sub> Trading Program, and which an individual state must follow to allow for interstate trading of allowances.

Note: This narrative description of the NO<sub>x</sub> Trading Program is for informational purposes only and is not enforceable.

#### 6.1.2 Applicability

- a. The following emission unit at this source is an existing budget EGU for purposes of the NO<sub>x</sub> Trading Program. Accordingly, this source is a budget source and the Permittee is the owner or operator of a budget source and budget EGU. In this section of this permit, this emission unit is addressed as a budget EGU.

Boiler 1

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

### 6.1.3 General Provisions of the NO<sub>x</sub> Trading Program

- a. This source and the budget EGU at this source shall comply with all applicable requirements of Illinois' NO<sub>x</sub> 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<sub>x</sub> Trading Program that applies to a budget source (including any provision applicable to the account representative of a budget source) shall also apply to the owner and operator of such budget source and to the owner and operator of each budget EGU at the source, pursuant to 35 IAC 217.756(f) (3).
- c. Any provision of the NO<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> 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<sub>x</sub> emissions in excess of the number of NO<sub>x</sub> allowances held as provided above, shall surrender allowances as required for deduction under 40 CFR 96.54(d) (1), pursuant to 35 IAC 201.756(f) (5). In addition, the owner or operator of a budget EGU that has excess emissions shall pay any fine, penalty, or assessment, or comply with any other remedy imposed under 40 CFR

96.54(d) (3) and the Act, pursuant to 35 IAC 217.756(f) (6). Each ton of NO<sub>x</sub> emitted in excess of the number of NO<sub>x</sub> 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<sub>x</sub> Trading Program is a limited authorization to emit one ton of NO<sub>x</sub> in accordance with the NO<sub>x</sub> Trading Program. As explained by 35 IAC 217.756(d) (6), no provisions of the NO<sub>x</sub> Trading Program, the budget permit application, the budget permit, or a retired unit exemption under 40 CFR 96.5 and no provision of law shall be construed to limit the authority of the United States or the State of Illinois to terminate or limit this authorization. As further explained by 35 IAC 217.756(d) (7), an allowance allocated by the Illinois EPA or USEPA under the NO<sub>x</sub> Trading Program does not constitute a property right. As provided by 35 IAC 217.756(d) (4), allowances shall be held in, deducted from, or transferred among allowances accounts in accordance with 35 IAC Part 217, Subpart W, and 40 CFR 96, Subparts F and G.

#### 6.1.5 Monitoring Requirements for Budget EGU

- a. The Permittee shall comply with the monitoring requirements of 40 CFR Part 96, Subpart H, for each budget EGU and the compliance of each budget EGU with the emission limitation under Condition 6.1.4(a) shall be determined by the emission measurements recorded and reported in accordance with 40 CFR 96, Subpart H, pursuant to 35 IAC 217.756(c) (1), (c) (2) and (d) (3).
  - i. For Boiler 1, the Permittee is conducting continuous emissions monitoring for NO<sub>x</sub>, as generally provided for by 40 CFR 75.71(a).
- b. The account representative for the source and each budget EGU at the source shall comply with those sections of the monitoring requirements of 40 CFR 96, Subpart H, applicable to an account representative, pursuant to 35 IAC 217.756(c) (1) and (d) (3).

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<sub>x</sub> Trading Program.

#### 6.1.6 Recordkeeping Requirements for Budget EGU

Unless otherwise provided below, the Permittee shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This 5-year period may be extended for cause at any time

prior to the end of the 5 years, in writing by the Illinois EPA or the USEPA.

- a. The account certificate of representation of the account representative for the source and each budget EGU at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 40 CFR 96.13, as provided by 35 IAC 217.756(e) (1) (A). These certificates and documents must be retained on site at the source for at least 5-years after they are superseded because of the submission of a new account certificate of representation changing the account representative.
- b. All emissions monitoring information, in accordance with 40 CFR 96, Subpart H, (provided that to the extent that 40 CFR 96, Subpart H, provides for a 3-year period for retaining records, the 3-year period shall apply), pursuant to 35 IAC 217.756(e) (1) (B).
- c. Copies of all reports, compliance certifications, and other submissions and all records made or required under the NO<sub>x</sub> Trading Program or documents necessary to demonstrate compliance with requirements of the NO<sub>x</sub> Trading Program, pursuant to 35 IAC 217.756(e) (1) (C).
- d. Copies of all documents used to complete a budget permit application and any other submission under the NO<sub>x</sub> 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<sub>x</sub> Trading Program, including those under 40 CFR 96, Subparts D and H, and 35 IAC 217.774, pursuant to 35 IAC 217.756(e) (2).
- b. Notwithstanding the provisions in Conditions 9.8 and 9.9 of this CAAPP permit, these submittals need only be signed by the designated representative, who may serve in place of the responsible official for this purpose, as provided by Section 39.5(1) of the Act, and submittals to the Illinois EPA need only be made to the Illinois EPA, Air Compliance Section.

#### 6.1.8 Allocation of NO<sub>x</sub> 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<sub>x</sub> allowances as follows. (The portion of Appendix F that applies to the Permittee is provided in Condition 6.1.10.) The number of NO<sub>x</sub> allowances actually allocated for the budget EGU shall be the number of NO<sub>x</sub> allowances issued by USEPA pursuant to the allocation information

reported to it by the Illinois EPA, which information may reflect adjustments to the overall allocations to budget EGU as provided for by 35 IAC 217.760(b) and (c):

- i. In 2004 through 2006 (the first three years of the NO<sub>x</sub> Trading Program), an annual allocation of NO<sub>x</sub> allowances as specified by 35 IAC 217.764(a)(1), i.e., the number of NO<sub>x</sub> allowances listed in Appendix F, Column 7, and as provided by 35 IAC 217.768(j), a pro-rata share of any NO<sub>x</sub> 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<sub>x</sub> allowances as specified by 35 IAC 217.764(b)(1), i.e., the number of NO<sub>x</sub> allowances listed in Appendix F, Column 8, and as provided by 35 IAC 217.764(b)(4), a pro-rata share of any NO<sub>x</sub> allowances remaining after the allocation of allowances pursuant to 35 IAC 217.764(b)(2) to budget EGU that commence operation between January 1, 1995 and April 30, 2003.
- iii. In 2008, as provided by 35 IAC 217.764(c), a specified allocation of NO<sub>x</sub> allowances, i.e., the number of NO<sub>x</sub> allowances listed in Appendix F, Column 8, and as provided by 35 IAC 217.764(c)(4), a pro-rata share of any NO<sub>x</sub> allowances remaining after the allocation of allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2004.
- iv. In 2009, as provided by 35 IAC 217.764(d), a specified allocation of NO<sub>x</sub> allowances, i.e., the number of NO<sub>x</sub> allowances listed in Appendix F, Column 9, and as provided by 35 IAC 217.764(d)(4), a pro-rata share of any NO<sub>x</sub> allowances remaining after the allocation of NO<sub>x</sub> allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2005, and as provided by 35 IAC 217.764(d)(6), a pro-rata share of any surplus of NO<sub>x</sub> allowances in the NSSA after the allocation of NO<sub>x</sub> 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<sub>x</sub> allowances, i.e., the number of NO<sub>x</sub> allowances listed in Appendix F, Column 9, and a pro-rata share of any NO<sub>x</sub> allowances remaining after the allocation of NO<sub>x</sub> allowances to budget EGU that commence operation between January 1, 1995 and April 30, 2006, and a pro-rata share

of any surplus of NO<sub>x</sub> allowances in the NSSA following the allocation of NO<sub>x</sub> allowances to new budget EGU.

- vi. In 2011 and annually thereafter, as provided by 35 IAC 217.764(f), an allocation of NO<sub>x</sub> allowances based on the prior operation of the EGU during previous control periods, as described in Condition 6.1.8(b), and a pro-rata share of any surplus of NO<sub>x</sub> allowances in the NSSA following the allocation of NO<sub>x</sub> allowances to new budget EGU.

Note: If the start of the NO<sub>x</sub> 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<sub>x</sub> allowances for the budget EGU listed in Condition 6.1.2(a), calculated as the product of the applicable NO<sub>x</sub> emissions rate and heat input as follows, shall be the basis for determining the pro-rata share of NO<sub>x</sub> allowances for the budget EGU and the allocation of NO<sub>x</sub> allowances to the budget EGU based on their prior operation:
  - i. The applicable NO<sub>x</sub> emission rate for the budget EGU shall be 0.15 lb/mmBtu, as specified by 35 IAC 217.762(a)(1).
  - ii. The applicable heat input (mmBtu/control period) shall be the average of the two highest heat inputs from the control periods four to six years prior to the year for which the allocation is being made, as provided by 35 IAC 217.762(b)(1).

#### 6.1.9 Budget Permit Required by the NO<sub>x</sub> Trading Program

- a. For this source, this segment of the CAAPP Permit, i.e., Section 6.1, is the Budget Permit required by the NO<sub>x</sub> Trading Program and is intended to contain federally enforceable conditions addressing all applicable NO<sub>x</sub> Trading Program requirements. This Budget Permit shall be treated as a complete and segregable portion of the source's entire CAAPP permit, as provided by 35 IAC 217.758(a)(2).
- b. The Permittee and any other owner or operator of this source and each budget EGU at the source shall operate the budget EGU in compliance with this Budget Permit, pursuant to 35 IAC 217.756(b)(2).
- c. No provision of this Budget Permit or the associated application shall be construed as exempting or excluding the Permittee, or other owner or operator and, to the extent applicable, the account

representative of a budget source or budget EGU from compliance with any other regulation or requirement promulgated under the CAA, the Act, the approved State Implementation Plan, or other federally enforceable permit, pursuant to 35 IAC 217.756(g).

- d. Upon recordation by USEPA under 40 CFR 96, Subpart F or G, or 35 IAC 217.782, every allocation, transfer, or deduction of an allowance to or from the budget units' compliance accounts or to or from the overdraft account for the budget source is deemed to amend automatically, and become part of, this budget permit, pursuant to 35 IAC 217.756(d) (8). This automatic amendment of this budget permit shall be deemed an operation of law and will not require any further review.
- e. No revision of this Budget Permit shall excuse any violation of the requirements of the NO<sub>x</sub> 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<sub>x</sub> Trading Program, the application shall contain the information specified by 35 IAC 217.758(b) (2).

6.1.10 References

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

Company Name/ I.D. No.	Generating Unit	EGU	NO <sub>x</sub> Budget Allowances	80% of NO <sub>x</sub> Budget Allowances	50% of NO <sub>x</sub> Budget Allowances	2004, 2005, 2006 Allowances	2007, 2008 Allowances	2009, 2010 Allowances
1	2	3	4	5	6	7	8	9
057801AAA	D. Creek	D. Creek	914	731	457	868	717	448

## 6.2 Acid Rain Program

### 6.2.1 Applicability

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

#### Boiler 1

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<sub>x</sub> emissions of affected units shall not exceed the limit set by 40 CFR Part 76, with the ability for averaging among units as allowed by an Acid Rain Permit. SO<sub>2</sub> 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 SO<sub>2</sub> allowances to account for the SO<sub>2</sub> emissions from affected units at the source that are subject to Title IV provisions. Each allowance is a limited authorization to emit up to one ton of SO<sub>2</sub> emissions during or after a specified calendar year. The possession of allowances does not authorize exceedances of applicable emission standards or violations of ambient air quality standards.

### 6.2.3 Monitoring, Recordkeeping and Reporting

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

Note: As further addressed by Section 7 of this permit, the following emission determination methods are currently being used for Boiler 1.

NO <sub>x</sub> :	Continuous Emissions Monitoring (40 CFR 75.12)
SO <sub>2</sub> :	Continuous Emissions Monitoring (40 CFR 75.11)
Opacity:	Continuous Emission Monitoring (40 CFR 75.14)
CO <sub>2</sub> :	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 5 of this permit. Revisions and modifications of this Acid Rain permit, including administrative amendments and automatic amendments (pursuant to Sections 408(b) and 403(d) of the CAA or regulations thereunder) are governed by Title IV provisions, as provided by Section 39.5(13)(e) of the Act. Accordingly, revision or renewal of the Acid Rain permit may be handled separately from this CAAPP permit and a copy of the new Acid Rain permit may be included in this permit by administrative amendment.

#### 6.2.5 Coordination with Other Requirements

- a. This permit does not contain any conditions that are intended to interfere with or modify the requirements of Title IV provisions. In particular, this permit does not restrict the flexibility under Title IV provisions of the owners and operators of this source to amend their Acid Rain compliance plan. [Section 39.5(17)(h) of the Act]
- b. Where another applicable requirement of the CAA is more stringent than an applicable requirement of Title IV provisions, both requirements are incorporated into this permit and are enforceable and the owners and operators of the source shall comply with both requirements. [Section 39.5(7)(h) of the Act]

7.0 UNIT SPECIFIC CONDITIONS

7.1 Coal Fired Boiler - Subject to NSPS, 40 CFR 60, Subpart D

7.1.1 Description

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. The boiler, which was built in 1976, has nominal capacity of 3713 mmBtu/hour. This boiler also has the capability to fire at various modes such as combination of coal, petroleum coke, and fuel oil as its principal fuel. In addition to coal, the boiler fires fuel oil during startup and for flame stabilization. Periodically small amounts of used oil or boiler cleaning residue are fired with the coal in this boiler.

Nitrogen oxide (NO<sub>x</sub>) emissions from the boiler are controlled by low-NO<sub>x</sub> burners and a selective catalytic reduction (SCR) system. Particulate matter (PM) emissions are controlled by an electrostatic precipitator (ESP). Sulfur dioxide (SO<sub>2</sub>) emissions are controlled by a flue gas desulfurization (FGD) scrubber system. The Permittee currently plans to operate the SCR and FGD on an as needed basis to comply with applicable NO<sub>x</sub> and SO<sub>2</sub> emission standards.

7.1.2 List of Emission Units and Air Pollution Control Equipment

Unit ID	Description	Emission Control Equipment
Boiler B-1	Riley Stoker (1976) Nominal 3,713 mmBtu/hr	LNB, SCR, ESP, FGD

7.1.3 Applicability Provisions

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

b. Startup Provisions

The Permittee is authorized to operate the affected boiler in violation of the applicable standards in Condition 7.1.4(b) (35 IAC 212.204), Condition 7.1.4(c) (35 IAC 214.121(a)), and Condition 7.1.4(d) (35 IAC 216.121) during startup subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262, as the Permittee "... has affirmatively demonstrated that all reasonable efforts have been made to minimize startup emissions, duration of individual startups and frequency of startups."

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

35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.

- ii. The Permittee shall conduct startup of the affected boiler in accordance with the manufacturers' written instructions or other written instructions prepared by the Permittee and maintained on site, that are specifically developed to minimize excess emissions from startups and that include, at a minimum, the following measures:
  - A. Review of the operational condition of the affected boiler prior to initiating startup of the boiler.
  - B. Use of oil burners to heat the boiler prior to initiating burning of coal.
  - C. Review of the operating parameters of the affected boiler during each startup to make appropriate adjustments to the startup to reduce or eliminate excess emissions.
  - D. Timely energization of the electrostatic precipitator as soon as this may be safely accomplished without damage or risk to personnel or equipment.
- iii. The Permittee shall fulfill applicable recordkeeping requirements of Conditions 7.1.9(c) and (g).

c. Malfunction and Breakdown Provisions

The Permittee is authorized to continue operation of the affected boiler in violation of the applicable requirements of Condition 7.1.4(b) (35 IAC 212.204), Condition 7.1.4(c) (35 IAC 214.121(a)), and Condition 7.1.4(d) (35 IAC 216.121) in the event of a malfunction or breakdown of the affected boiler, including the coal pulverizer, the electrostatic precipitator (including flue gas conditioning), the scrubber, or the ash and sludge removal systems, subject to the following provisions. This authorization is provided pursuant to 35 IAC 201.262 as the Permittee has submitted "... proof that continued operation is required to provide essential service, prevent risk of injury to personnel or severe damage to equipment." This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.

- i. This authorization only allows such continued operation as necessary to provide essential service or prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.
  
- ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable reduce boiler load, repair the affected boiler, or remove the affected boiler from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24 hours\* or noon of the Illinois EPA's next business day\*, whichever is later. The Permittee may obtain an extension for up to a total of 72 hours\* from the Illinois EPA, Air Regional Office. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that extraordinary circumstances exist and the affected boiler can not reasonably be repaired or removed from service within the allowed time, it will repair the affected boiler or remove the boiler from service as soon as practicable; and it is taking all reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.
  - \* For this purpose and other related provisions, time shall be measured from the start of a particular incident. The absence of excess emissions for a short period shall not be considered to end the incident if excess emissions resume. In such circumstances, the incident shall be considered to continue until corrective actions are taken so that excess emissions cease or the Permittee takes the boiler out of service.
  
- iii.
  - A. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Conditions 7.1.9(c) and (h), 7.1.10-2(d) and 7.1.10-3(a)
  
  - B. 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.

- d. Notwithstanding the above, the authorizations in Conditions 7.1.3(b) and (c) shall not apply for Condition 7.1.4(c) (35 IAC 214.121(a)) when the coal supply for the affected boiler would comply with this standard without use of the FGD scrubber system, that is, the uncontrolled SO<sub>2</sub> emission rate of the coal supply complies with 35 IAC 214.121(a).

7.1.4 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 <sub>2</sub>	1.20	40 CFR 60.43(a) (2)
NO <sub>x</sub>	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 60.8(c) and 60.11(c), the above emission limitations do not apply during startup, malfunction, and shutdown, as defined by 40 CFR 60.2. Notwithstanding this provision, pursuant to 40 CFR 60.7(b) and (c), exceedances of these limitations during startup, malfunction, 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. The emissions of PM from the affected boiler shall not exceed 0.10 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.204.
- c. The emissions of SO<sub>2</sub> from the affected boiler shall not exceed 1.2 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 214.121(a).
- d. The affected boiler is subject to 35 IAC 216.121 which provides that no person shall cause or allow the emission of CO into the atmosphere from any fuel combustion emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected to 50 percent excess air.
- e. The emissions of NO<sub>x</sub> from the affected boiler shall not exceed 0.7 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 217.121(d).
- f. The affected boiler is subject to the following requirements related to NO<sub>x</sub> emissions pursuant to 35 IAC Part 217 Subpart V:
  - i. During each ozone control period (May 1 through September 30):
    - A. The emissions of NO<sub>x</sub> from the affected boiler shall not exceed 0.25 lb/mmBtu of actual heat input based on a ozone control period average for that unit, pursuant to 35 IAC 217.706(a), or
    - B. If the Permittee elects to participate in a NO<sub>x</sub> averaging plan, the emissions of NO<sub>x</sub> from the affected boiler and other eligible EGU that are participating in such NO<sub>x</sub> averaging demonstration shall not exceed 0.25 lbs/mmBtu of actual heat input, as averaged for the ozone control period for the EGU participating in the demonstration, pursuant to 35 IAC 217.708(a) and (b). For this purpose, other eligible EGU are EGU at other sources that are authorized to participate in a NO<sub>x</sub> averaging plan by a CAAPP permit or other federally enforceable permit issued by the Illinois EPA to the owner or operator of those EGU.

Note: Given the emission determination methods specified by 35 IAC 217.710, the emissions of NO<sub>x</sub> for purposes of these standards are generally calculated in accordance with the federal Acid Rain Program and are different from the emissions determined for

purposes of the NOx Trading Program.

- ii. If the Permittee elects to have the affected boiler comply by participation in a NOx averaging demonstration as provided for and authorized above:
  - A. The affected boiler shall be included in only one NOx averaging demonstration during an ozone control period, pursuant to 35 IAC 217.708(d).
  - B. The NO<sub>x</sub> averaging demonstration shall only include other EGU that are authorized through a federally enforceable permit to participate in a NO<sub>x</sub> averaging demonstration and for which the owner or operator of the EGU maintains the required records, data and reports and submits copies of such records, data, and reports to the Illinois EPA upon request, pursuant to 35 IAC 217.708(c) and (g).
  - C. The effect of failure of the NO<sub>x</sub> averaging demonstration to show compliance shall be that the compliance status of the affected boiler shall be determined pursuant to Condition 7.1.4(f) (i) (A) as if the NO<sub>x</sub> emission rates of the affected boiler were not averaged with other EGU, pursuant to 35 IAC 217.708(g).

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

- g. The affected boiler is subject to 35 IAC 212.122 which provides that no person shall cause or allow the opacity from a new fuel combustion emission unit with a heat input greater than 250 mmBtu/hr to exceed 20 percent, except as provided by 35 IAC 212.122(b).

#### 7.1.5 Non-Applicability of Regulations of Concern

- a. i. This permit is issued based on the affected boiler not being subject to NSPS standards for firing of oil, i.e., 40 CFR 60.43(a) (1) for SO<sub>2</sub> and 40 CFR 60.44(a) (2) for NO<sub>x</sub>, 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.

- ii. If the affected boiler is not using solid fuel (coal) as its principal fuel, the affected boiler shall comply with the requirements of the following NSPS standards that address burning a combination of fuels:
  - A. For SO<sub>2</sub>, 40 CFR 60.43(h).
  - B. For NO<sub>x</sub>, 40 CFR 60.44a(c).
- b. i. The Permittee is shielded from the following rules, which address burning a combination of fuels, for the affected boiler when the boiler is using solid fuel (coal) as its principal fuel. This is because the incidental use of other fuels generally serves as a good combustion practice for firing of solid fuel and does not provide a decrease in emissions that can be used to reduce the emission rate that must be achieved for emissions associated with combustion of solid fuel.
  - A. 35 IAC 212.207 for PM.
  - B. 35 IAC 214.162 for SO<sub>2</sub>.
- ii. If the affected boiler is not using solid fuel as its principal fuel, the affected boiler shall comply with the requirements of the following conditions. During such periods, Condition 7.1.5(c)(ii)(A), below for PM, shall substitute for Condition 7.1.4(b) and Condition 7.1.5(c)(ii)(B), below for SO<sub>2</sub>, shall supplement Condition 7.1.4(c):
  - A. The emissions of PM from the affected boiler in any one hour period shall not exceed the amount, in lb/hr, allowed by the formula in 35 IAC 212.207. For this purpose, the applicable PM standard for heat input from liquid fuel and natural gas shall be 0.1 and 0.0 lb/mmBtu, respectively, pursuant to 35 IAC 212.206 and 212.207.
  - B. The emissions of SO<sub>2</sub> from the affected boiler in any one hour period shall not exceed the amount, in lb/hr, allowed by the formula in 35 IAC 214.162. For this purpose, the applicable SO<sub>2</sub> standards for heat input from residual fuel oil, distillate fuel oil, and natural gas shall be 0.8, 0.3 and 0.0 lb/mmBtu, respectively, pursuant to 35 IAC 214.121(b)(1), 214.121(b)(2), and 214.162.
- iii. For the purpose of the above conditions, the affected boiler shall be considered to be

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

iv. The Permittee shall notify the Illinois EPA if the status of the affected boiler changes to or from using solid fuel as its principal fuel. This notification shall be provided at least 7 days in advance of such change in status unless the change results from a sudden event that precludes such advance notification, in which case notification shall be provided as soon as practicable prior to the change.

c. Pursuant to 35 IAC 201.403(a), the Permittee is not subject to the requirements of 35 IAC Part 201 Subpart L for opacity and SO<sub>2</sub> monitoring because the Permittee must conduct opacity and SO<sub>2</sub> monitoring on the affected boiler in accordance with the NSPS.

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 have the PM and CO emissions of the affected boiler measured by an approved testing service as specified below:

a. i. PM emission measurements shall be made prior to December 31, 2005. (To satisfy this requirement, the measurements must be made after December 31, 2003.)

ii. PM emission measurements shall be made within 90 days of operating an affected boiler for more than 24 hours total in a calendar quarter at a load\* that is more than 2 percent higher than the greatest load on the boiler, during the most recent set of PM tests on the affected boiler in which compliance is shown (refer to Condition 7.1.7(e)(iii)(D)), provided, however, that the Illinois EPA may upon request of the Permittee

provide more time for testing (if such time is reasonably needed to schedule and perform testing or coordinate testing with seasonal conditions) or waive this requirement for further testing (if other information, e.g., the margin of compliance shown by previous testing, indicates compliance at such higher load).

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

iii. Periodic PM emission measurements shall be made for the affected boilers within a time period determined from the compliance margin for the applicable PM emission standard, based on the results of the preceding PM measurement, as follows. For this purpose, the compliance margin is the extent to which the actual PM emissions as measured are lower than the applicable PM limit. For example, if the measured PM emissions of the affected boiler are 0.075 lb/mmBtu, the compliance margin for the applicable PM limit, 0.10 lb/mmBtu, would be 25 percent.  $(0.100 - 0.075 = 0.025, 0.025 / 0.100 = 0.25$  or 25 percent)

- A. If the compliance margin is less than 20 percent, within 15 months of the previous measurement.
- B. If the compliance margin is between 20 and 40 percent, within 27 months of the previous measurement.
- C. If the compliance margin is greater than 40 percent, within 39 months of the previous measurement.

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

- A. In conjunction with the initial measurements of PM emissions as required above by Condition 7.1.7(a) (i) (unless this PM measurement is conducted prior to the issuance of this permit), if a measurement of CO emissions is not otherwise performed earlier in conjunction with a relative accuracy test audit (RATA) for SO<sub>2</sub> or NO<sub>x</sub> conducted under this permit.
- B. In conjunction with each subsequent measurement of PM emissions made pursuant to Condition 7.1.7(a) (ii) or (iii) (or a

RATA for SO<sub>2</sub> or NO<sub>x</sub> preceding such measurement), provided, however, that if measured CO emissions are no more than 100 ppm at 50 percent excess air, CO measurements need not be performed with the next PM measurement (or preceding RATA) but shall be performed with the second measurement of PM emissions following the measurement in which CO emissions were no more than 100 ppm (or a RATA preceding that PM measurement).

- v. A. If standard fuel (i.e., coal, fuel oil, and gas) is less than 97.0 percent by weight of the fuel supply to a boiler during a quarter, the Permittee shall have measurements of PM and CO emissions from the boiler made during the next quarter while firing alternative fuel or process waste in the boiler.
  - B. The Permittee shall conduct such measurements while firing the boiler with 1.25 times the greatest percentage of alternative fuel material or process waste that it would normally fire in the boiler.  
If the boiler has been firing a mix of alternative fuel materials or process wastes, the mix of fuel during such measurements shall be approved by the Illinois EPA.
  - C. The Permittee shall repeat such measurements if the percentage of alternative fuel materials and process wastes burned in a boiler during a quarter is more than the percentage of such material in the fuel supply to the boiler when previous emission measurements were conducted.
- vi. Measurements of PM and CO emissions shall be made within 90 days (or such later date set by the Illinois EPA) following a reasonable request by the Illinois EPA for such measurements.
- b. i. These measurements shall be performed at the maximum operating loads of the affected boiler and other operating conditions that are representative of normal operation. In addition, the Permittee may perform measurements at other operating conditions to evaluate variation in emissions.
  - ii. Measurements shall be taken at an appropriate location in the ductwork or stack associated with the affected boiler.

- iii. The following test methods and procedures shall be used for these measurements. Refer to 40 CFR 60, Appendix A for USEPA Methods.

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Particulate Matter (PM)	USEPA Method 5/202*
Carbon Monoxide (CO)	USEPA Method 10

Other test methods adopted by USEPA may be used in place of the above methods with the approval of the Illinois EPA.

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

- c. Except for minor deviations in test methods, as defined by 35 IAC 283.130, emission testing shall be conducted in accordance with a test plan prepared by the Permittee and submitted to the Illinois EPA for review prior to emission testing, and the conditions, if any, imposed by the Illinois EPA as part of its review and approval of the test plan, pursuant to 35 IAC 283.220 and 283.230.
- i. The Permittee shall submit this test plan at least 60 days prior to the actual date of testing and the test plan shall include the information specified by Condition 8.6.2.
- ii. Notwithstanding the above, as provided by 35 IAC 283.220(d), the Permittee need not submit a test plan for emission testing that will be conducted in accordance with the procedures used for previous tests accepted by the Illinois EPA or the previous test plan submitted to and approved by the Illinois EPA, provided that the Permittee's notification for testing, as required below, contains the information specified by 35 IAC 283.220(d)(1)(A), (B) and (C).
- d. The Permittee shall notify the Illinois EPA prior to conducting emission tests to enable the Illinois EPA to observe testing. Notification for the expected test date shall be submitted a minimum of 30 days prior to the expected date of testing. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual test date. The Illinois EPA may on a case-by case basis accept shorter advance notice if it would not interfere with the Illinois EPA's ability to observe testing.

- e. The Permittee shall submit the Final Report(s) for any required emission testing to the Illinois EPA within 45 days after the tests results are compiled and finalized but no later than 120 days after the date of testing. The Final Report shall include the information specified in Condition 8.6.3 and the following information:
  - i. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
  - ii. A description of any minor deviations from the test plan, as provided by 35 IAC 283.230(a).
  - iii. Detailed description of operating conditions during testing, including:
    - A. Source(s) of fuel and specifications (ash, sulfur and heat content).
    - B. Boiler information, i.e., firing rate of the affected boiler(s) (mmBtu/hr), composition of fuel as burned (ash, sulfur and heat content), and fuel blending ratio (percent), if a blend of fuels is burned.
    - C. Control equipment information, i.e., equipment condition and operating parameters during testing.
    - D. Load during testing (gross megawatt output and steam flow).
  - iv. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
  - v. The opacity data (six-minute averages) measured during testing.

#### 7.1.8 Monitoring Requirements

- a. Pursuant to NSPS, 40 CFR 60.45, 40 CFR 75.14, and Section 39.5(7)(d)(iii) of the Act, the Permittee shall install, operate, calibrate and maintain continuous monitoring equipment for the measurement of opacity from the affected 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. The Permittee shall operate this equipment in

accordance with the general provisions for opacity monitoring systems in 40 CFR 75.10.

- iii. This monitor shall be the primary basis for quarterly reporting of exceedances of Condition 7.1.4(a)(iii), in accordance with 40 CFR 60.7(c) and 60.45(g), and Condition 7.1.4(g). (See Condition 7.1.10-2(a).)

Note: The requirements of 35 IAC Part 201 Subpart L for opacity monitoring do not apply because the Permittee must conduct opacity monitoring for the affected boiler in accordance with the NSPS. (Refer to Condition 7.1.5(c).)

- b. Pursuant to 40 CFR 60.45, 40 CFR 75.11, and Section 39.5(7)(d)(iii) of the Act, the Permittee shall install, operate, calibrate and maintain a continuous emission monitoring system (CEMS) for the measurement of SO<sub>2</sub> emissions from the affected boiler.
  - i. This CEMS shall be used to demonstrate compliance with the limits in Condition 7.1.4(c) based on the average hourly SO<sub>2</sub> emission rate determined from monitored data from three-hour block averaging periods.
  - ii. This CEMS shall be operated pursuant to written monitoring procedures that include a quality assurance/control plan, which procedures address the requirements in 40 CFR Part 75.

Note 1: This permit is issued based on the Permittee performing continuous emission monitoring for SO<sub>2</sub> 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.

Note 2: The requirements of 35 IAC Part 201 Subpart L for SO<sub>2</sub> monitoring do not apply because the Permittee must conduct SO<sub>2</sub> monitoring for the affected boiler in accordance with the NSPS. (Refer to Condition 7.1.5(c).)

- c. Pursuant to 40 CFR 60.45, 40 CFR 75.12, 35 IAC 217.710(a), and Section 39.5(7)(d)(iii) of the Act, the Permittee, shall install, calibrate, maintain and operate a CEMS for the measurement of NO<sub>x</sub> emissions from the affected boiler, in accordance with the requirements of 40 CFR 75 Subpart B.
- d. Pursuant to Section 412 of the Clean Air Act and 40 CFR Part 75, the source is required to operate

continuous monitors for the affected boiler for various parameters, including SO<sub>2</sub>, NO<sub>x</sub>, volumetric flow and opacity, along with a computerized data acquisition and handling system for collected data. (See also Condition 6.2.3) To the extent that applicable performance specifications and operating requirements for monitoring under 40 CFR Part 75 are inconsistent with the above requirements for monitoring, the procedures of 40 CFR Part 75 shall take precedence. (See also Condition 8.2)

#### 7.1.9 Recordkeeping Requirements

##### a. Records for Boiler Operation

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

- i. Load (in terms of either gross megawatts output or steam flow) on an hourly basis for the affected boiler.
- ii. An operating log for the affected boiler, which shall include the following information:
  - A. Information for each startup and shutdown of the boiler, including date, time and duration, as required by 40 CFR 60.7(b). (See also Condition 7.2.9(h).)
  - B. Information for any incident in which the operation of the affected boiler continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken, as addressed by 40 CFR 60.7(b). (See also Condition 7.2.9(ii).)
- iii.
  - A. Records of agreements with suppliers of alternative fuels, including origin of material, specifications for heat and ash content, and representative data for elemental composition of such material, including mercury and other heavy metals, chlorine and fluorine.
  - B. Records for each load of such material received at the source, which at a minimum shall include date, supplier name, type of material and amount (tons).

- C. Records for each day when a fuel material other than coal, gas or oil was burned, including the estimated amount of each such material burned.
- iv. Total operating hours (hours/quarter).
- v. A. Amount of coal consumed (tons/quarter).
- B. Amount of each other fuel material consumed (tons, gallons, cubic feet per quarter, as appropriate).
- vi. If the Permittee is relying on data for heat input for purposes of compliance with Conditions 7.1.4(a) (ii) and 7.1.4(b) (35 IAC Part 212 Subpart E) or Condition 7.1.4(c) (Part 214 Subpart E) that is different from that recorded pursuant to the federal Acid Rain Program, heat input (mmBtu, on an hourly basis) or the conversion factors that the Permittee relies upon to convert from boiler load as recorded pursuant to Condition 7.1.9(a) (i) to hourly heat input.
- b. Records for Control Device(s)

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

- i. Electrostatic Precipitator (ESP)
  - When the boiler is in operation, the status of each ESP field shall be recorded at least once per shift and the following numerical data shall be recorded at least once per day:
    - A. Fields in service.
    - B. Primary voltages and currents.
    - C. Secondary voltages and currents.
    - D. Sparking rates.
- ii. Selective Catalytic Reduction (SCR)
  - A. Manufacture/vendor or Permittee developed operating and maintenance procedures.
  - B. An operating log including reagent usage and system settings.

Note: This log need only be maintained during periods when the Permittee operates this system, which is operated at its

discretion as needed to comply with applicable requirements.

- C. A maintenance and repair log, including addition or replacement of a catalyst layer.

iii. FGD Scrubber System

- A. Manufacture/vendor or Permittee developed operating and maintenance procedures.
- B. An operating log including usage of limestone and system settings.

Note: This log need only be maintained during periods when the Permittee operates this system, which is operated at its discretion as needed to comply with applicable requirements.

- A. A maintenance and repair log.

c. Records for Continuous Opacity 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 opacity monitoring system on the affected boiler required by Condition 7.1.8(a) that as a minimum shall include:

- i. Operating records for each opacity monitoring system, including:
  - A. Opacity measurements.
  - B. Continuous monitoring system performance testing measurements.
  - C. Performance evaluations and other quality assurance/control activities.
  - D. Calibration checks.
  - E. Maintenance and adjustment performed.
  - F. Periods other than performance of quality assurance, calibration, and maintenance, as addressed above, when the monitor was inoperative, with reason.
  - G. Quarterly reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Condition 7.1.10-2(a) and (d).

- ii. Records for the affected boiler that identify the upper bound of the normal range of opacity measurements from the boiler, considering an hour of operation, within which compliance with the PM limitations in Conditions

7.1.4(a)(ii) and 7.1.4(b) is assured, with supporting explanation and documentation, including results of historic emission tests.

At a minimum, these records shall be reviewed and revised as necessary following performance of each subsequent PM emission tests on the affected boiler. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).

- iii. Records to address compliance with Conditions 7.1.4(a)(ii), (iii), (b), and (g) including:
  - A. Each 6-minute period when the opacity was above the limitation of Conditions 7.1.4(a)(iii) and (g) (20 percent opacity) with date, time, whether it occurred during startup, malfunction, breakdown, or shutdown, and further explanation of the incident.
  - B. Each hour when the measured opacity of the affected boiler was above the normal range, as specified above in Condition 7.1.9(c)(ii), with date, time, operating condition if startup, malfunction, breakdown, or shutdown, further explanation of the incident, and whether particulate matter emissions may have exceeded the limit of Conditions 7.1.4(a)(ii) and 7.1.4(b), with explanation.

d. Records for Continuous SO<sub>2</sub> Monitoring Systems

Pursuant to Section 39.5(7)(b) of the Act and the NSPS, 40 CFR 60.45, the Permittee shall maintain records for the SO<sub>2</sub> CEMS on the affected boiler required by Condition 7.1.8(b) that as a minimum shall include:

- i. Operating records for the SO<sub>2</sub> CEMS, including:
  - A. SO<sub>2</sub> emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e).
  - B. Continuous monitoring system performance testing measurements.
  - C. Performance evaluations and other quality assurance /control activities.
  - D. Calibration checks.
  - E. Maintenance and adjustments performed.
  - F. Periods when the SO<sub>2</sub> CEMS was inoperative, with date, time and reason.
  - G. Data reduction information.
  - H. Quarterly reports submitted in accordance with NSPS, 40 CFR 60.7(c) and Conditions 7.1.10-2(a) and (b).
- ii. Records to verify compliance with the limitation of Condition 7.1.4(a)(ii) and 7.1.4(c), including:
  - A. SO<sub>2</sub> emissions in the terms of the applicable standard (lb/mmBtu) from the affected boiler on an hourly basis, as derived from the data obtained by the SO<sub>2</sub> CEMS.
  - B. The date and time of any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of SO<sub>2</sub>, as recorded above, exceeded 1.2 lb/mmBtu as allowed by Condition 7.1.4(a)(ii) and 7.1.4(c), with the calculated SO<sub>2</sub> emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Condition 7.1.4(a)(ii) and 7.1.4(c).

e. Records for Continuous NO<sub>x</sub> Monitoring

Pursuant to 35 IAC 217.712(a), Section 39.5(7)(b) of

the Act and the NSPS, 40 CFR 60.45, the Permittee shall maintain records for the NOx CEMS on the affected boiler required by Condition 7.1.8(c) in accordance with the applicable recordkeeping requirements of 40 CFR 75, that as a minimum shall include:

- i. Operating records for the NOx CEMS, including:
    - A. NOx emission data into units of the applicable standards (lb/mmBtu) calculated in accordance with NSPS, 40 CFR 60.45(e).
    - B. Continuous monitoring system performance testing measurements.
    - C. Performance evaluations and other quality assurance/control activities.
    - D. Calibration checks.
    - E. Maintenance and adjustments performed.
    - F. Periods when the CEMS was inoperative, with date, time and reason.
    - G. Data reduction information.
    - H. Quarterly reports submitted in accordance with Condition 7.1.10-2(a) and (c).
  - ii. Records to verify compliance with the limitation of Conditions 7.1.4(a) (ii) and 7.1.4(e) including:
    - A. NOx emissions in the terms of the applicable standard (lb/mmBtu) from the affected boiler on an hourly basis, as derived from the data obtained by the NOx CEMS.
    - B. The date and time of any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of NOx, as recorded above, exceeded 0.7 lb/mmBtu as allowed by Condition 7.1.4(a) (ii) and 7.1.4(e), with the calculated NOx emission rate. These records shall be prepared from the above records at least quarterly as needed to verify compliance with the limitation of Condition 7.1.4(a) (ii) and 7.1.4(e).
- f. Acid Rain Program
- Records for the continuous emission monitoring required for the affected boiler by the Acid Rain Program should be kept by the source in accordance

with 40 CFR Part 75, including the General Recordkeeping Provisions; the General Recordkeeping Provisions for Specific Situations, if applicable; and Certification, Quality Assurance and Quality Control Record Provisions. [See Condition 6.2.3]

g. Records for Startups

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

- i. Records of the source's established startup procedures for the affected boiler (as summarized in the CAAPP application).
- ii. Records for each startup of the affected boiler, including:
  - A. Date and description of startup, e.g., startup following scheduled maintenance outage.
  - B. Duration of the startup, from initial firing of fuel to achievement of normal operation, i.e., stable operation firing the principal fuel with control equipment operating to enable compliance.
  - C. If normal operation is not achieved within 12 hours or if established startup procedures are not followed:
    - I. A detailed explanation why startup could not be completed sooner or established procedures could not be followed.
    - II. Documentation for the established startup procedures that were followed.
    - III. The time at which solid fuel (coal) firing was begun.
    - IV. The flue gas temperature at which the electrostatic precipitator was energized, if coal was fired before the electrostatic precipitator was energized.
    - V. Limestone or slurry usage in the scrubber during startup, if applicable.
    - VI. Estimates of magnitude of PM and SO<sub>2</sub> 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 and Section 39.5(7)(a) of the Act, the Permittee shall maintain records, related to malfunction and breakdown for the affected boiler that as a minimum, shall include:

- i. A maintenance and repair log for the affected boiler and associated equipment, listing activities performed with date.
- ii. Records for each incident when operation of the affected boiler continued with excess emissions, including malfunction or breakdown 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 7.1.10-3(a), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.1.10-3(a)(ii).
  - E. If opacity exceeded the applicable standard (Condition 7.1.4(a)(iii) and (g)) for two or more hours or PM emissions may have exceeded the applicable hourly standard (Condition 7.1.4(b)):
    - I. A detailed explanation why continued operation of the affected boiler was necessary.
    - II. The preventative measures that have or will be taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity, including any repairs to the affected boiler and associated equipment and any changes to its operating and maintenance procedures.
    - III. An estimate of the magnitude of excess emissions occurring during the incident.

7.1.10-1 Reporting Requirements - Reporting of Deviations

- a. For the affected boiler, the Permittee shall promptly notify the Illinois EPA of deviations from permit requirements as follows, pursuant to Section 39.5(7) (f) (ii) of the Act:
  - i. Notification and reporting as specified in Condition 7.1.10-3(a) for any deviation from the PM limits in Conditions 7.1.4(a) (ii) and 7.1.4(b).
  - ii. Notification and reporting as specified in Condition 7.1.10-3(a) for certain deviations from the opacity limits in Conditions 7.1.4(a) (iii) and (g).
  - iii. Reporting as specified in Conditions 7.1.10-2(b), (c) and (d) for deviations from Condition 7.1.4(a), (b), (c), (d), (e) and (g).
  - iv. Reporting with the quarterly reports required by Condition 7.1.10-2(a) for deviations not addressed above by Condition 7.1.10-1(a) (i), (ii) or (iii), including deviations from other applicable requirements, e.g., monitoring and recordkeeping requirements. For this purpose, the quarterly reports shall also include the following information for each incident if not already otherwise required: a description of the deviation, including whether it occurred during startup, malfunction, or breakdown, if applicable; a discussion of the probable cause of the deviation; a description of the corrective actions taken; and a description of the preventative measures taken.

7.1.10-2 Reporting Requirements - Regular Reports

a. Quarterly Operating Reports

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

- i. These reports shall include the following information for operation of the affected boiler during the quarter:
  - A. The total operating hours for the affected boiler, as also reported in accordance with 40 CFR Part 75.
  - B. The greatest load achieved by the affected boiler (steam flow or gross megawatts).

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

D. The number of startups.

ii. These reports shall include the information for SO<sub>2</sub>, NO<sub>x</sub>, and PM emissions and opacity from the affected boiler during the quarter and the operation of required continuous monitoring systems specified by Conditions 7.1.10-2(b), (c) and (d).

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

A. A summary of deviations that have been previously reported to the Illinois EPA, as provided by Condition 7.1.10-1(a) (i) and (ii), including identification of each such report. For this purpose, the Permittee need not resubmit copies of the previous reports but may elect to supplement such material.

B. Detailed information for other deviations, as specified by Condition 7.1.10-1(a) (iii) and (iv).

iv. A. These reports 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 SO<sub>2</sub> Emissions

Pursuant to Section 39.5(7)(b) of the Act and the NSPS 40 CFR 60.45(g), the Permittee shall report the following information to the Illinois EPA in accordance with 40 CFR 60.7(c) for the affected boiler with its quarterly operating reports pursuant to Condition 7.1.10-2(a):

i. Summary information on the performance of the SO<sub>2</sub> CEMS, including the information for a "Summary Report" specified by 40 CFR 60.7(d).

When the SO<sub>2</sub> CEMS was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.

- ii. If specifically requested by the Illinois EPA or the CEMS downtime was more than 5 percent of the total operating time for the affected boiler: the date and time identifying each period during which the CEMS was inoperative except for zero and span checks, and the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with 40 CFR Part 75, i.e., the dates and results of the Linearity Test(s) and any Relative Accuracy Test Audit(s) during the quarter, a listing of any days when a required daily calibration was not performed, and the date and duration of any periods when the CEMS was out-of-control as addressed by 40 CFR 75.24.
  - iii. The following information for each period when SO<sub>2</sub> emissions were in excess of the applicable standards specified in Condition 7.1.4(a)(ii) and 7.1.4(c)\*. When there were no such exceedances, this shall be stated in the report.
    - A. The starting date and time of the SO<sub>2</sub> excess emissions.
    - B. The duration of the excess emissions.
    - C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.1.9(d)(ii).
    - D. A detailed explanation of the cause of the excess emissions.
    - E. A detailed explanation of corrective actions and actions taken to lessen the emissions.
- \* For the purpose of reporting excess SO<sub>2</sub> emissions, the averaging period is an arithmetic average of three contiguous one-hour periods, as used to determine compliance with the limitations of Condition 7.1.4(a)(ii) and 7.1.4(c). The records for excess emissions shall consist of arithmetic average emissions of three contiguous one-hour periods during which the limitation was exceeded.
- c. Reporting of NO<sub>x</sub> Emissions
- Pursuant to Section 39.5(7)(b) of the Act and the NSPS 40 CFR 60.45(g), the Permittee shall report the following information for the affected boiler to the

Illinois EPA in accordance with 40 CFR 60.7(c) with its quarterly operating reports pursuant to Condition 7.1.10-2(a):

- i. Summary information on the performance of the NOx CEMS, including the information for a "Summary Report" specified by 40 CFR 60.7(d). When the NOx CEMS was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.
  - ii. If specifically requested by the Illinois EPA or the CEMS downtime was more than 5 percent of the total operating time for the affected boiler: the date and time identifying each period during which the CEMS was inoperative except for zero and span checks, and the nature of CEMS repairs or adjustments and a summary of quality assurance data consistent with 40 CFR Part 75, i.e., the dates and results of the Linearity Test(s) and any Relative Accuracy Test Audit(s) during the quarter, a listing of any days when a required daily calibration was not performed, and the date and duration of any periods when the CEMS was out-of-control as addressed by 40 CFR 75.24.
  - iii. The following information for each period when NOx emissions were in excess of the limitation in Condition 7.1.4(a)(ii) and (e)\*. When there were no such exceedances, this shall be stated in the report.
    - A. The starting date and time of the NOx excess emissions.
    - B. The duration of the excess emissions.
    - C. A copy of the records for the excess emissions, as maintained pursuant to Condition 7.1.9(e)(ii).
    - D. A detailed explanation of the cause of the excess emissions.
    - E. A detailed explanation of corrective actions and actions taken to lessen the emissions.
- \* For the purpose of reporting excess NOx emissions, the averaging period is an arithmetic average of three contiguous one-hour periods, as used to determine compliance with the limitations of Condition 7.1.4(a)(ii) and 7.1.4(e). The records for excess emissions shall consist of a three-hour rolling emission averages during which the limitation was exceeded.

d. Reporting of Opacity and PM Emissions

Pursuant to Sections 39.5(7)(b) and (f) of the Act and the NSPS, 40 CFR 60.45(g), the Permittee shall report the following information for the affected boiler to the Illinois EPA with its quarterly operating report pursuant to Condition 7.1.10-2(a):

- i. Summary information on the performance of the opacity monitoring system and excess emissions, as required for a "Summary Report" in accordance with 40 CFR 60.7(d). When no excess opacity occurred or the continuous opacity monitoring system was not inoperative, repaired or adjusted except for zero and span checks, this shall be stated in the report.
- ii. The operating status of the opacity monitoring system, including the dates and times of any periods during which it was inoperative, if requested by the Illinois EPA or the opacity monitoring system downtime was more than 5 percent of the total operating time for the affected boiler during the quarter.
- iii. The following information for each period when opacity was in excess of the applicable standard specified in Conditions 7.1.4(a)(iii) and (g).
  - A. The starting dates and time of the exceedances.
  - B. The duration of the excess opacity.
  - C. The magnitude of excess opacity, based on six minute average opacity, including:
    - I. The percent opacity for each six-minute period.
    - II. The start and stop time of each six-minute period in excess of the limitation.
  - D. A detailed explanation of the cause of excess opacity, if known, including whether such excess opacity occurred during startup, malfunction or breakdown of the boiler.
  - E. A detailed explanation of corrective actions and actions taken to lessen the opacity.
  - F. Identification of the previous report for the incident submitted to the Illinois EPA

pursuant to Condition 7.1.10-3(a) (ii). For this purpose, the Permittee need not resubmit copies of such report but may elect to supplement such material.

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

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

- iv. The following information for periods when PM emissions were in excess of the limit in Conditions 7.1.4(a) (ii) and 7.1.4(b). If there were no such exceedances during the reporting period, the quarterly report shall so state.

- A. A summary of information for each period of exceedance that includes:

- I. The starting date and time of the exceedance.

- II. The duration of the exceedance.

- III. The magnitude of the exceedance.

- IV. The percent opacity measured for each six-minute period during the exceedance.

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

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

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

- B. Identification of the previous reports for the incidents submitted to the Illinois EPA pursuant to Condition 7.1.10-3(a) (ii). For this purpose, the Permittee need not

resubmit copies of such report but may elect to supplement such material.

- v. The following summary information related to opacity and PM exceedances:
  - A. Further information for each type of recurring opacity exceedance that occurred during the quarter, including: a discussion of any circumstances or events during the quarter that generally affected the number or magnitude of such exceedances; a discussion of any additional understanding of the causes for such exceedances gained during the quarter, including the role of component failure or degradation, maintenance practices, and operating procedures; a general discussion of the effectiveness of the corrective actions that were taken in response to such exceedances; and a general discussion of further actions that are being considered to address such exceedances.
  - B. Further information for any new type(s) of opacity exceedances that occurred during the quarter including: a general narrative description for the type(s) of exceedance; a general explanation of the cause(s) for such exceedances, including the role of component failure or degradation, maintenance practices, and operating procedures; a detailed explanation of the corrective actions that have been taken for such exceedances, including the reasons that the selected actions were taken, the effectiveness of those actions, and the likelihood of future occurrence of similar exceedances; and a general discussion of possible further actions that could be taken to address such exceedances. For this purpose, new type(s) of exceedance are ones that have not been addressed in the preceding four quarterly opacity reports.
  - C. Other information relevant to generally explaining the number and magnitude of opacity and PM exceedances during the quarter, e.g., a further discussion of specific events or circumstances that occurred that affected the number or magnitude of exceedances during the quarter.
  - D. Information describing actions taken during the quarter that should generally

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

- vi. A glossary of common technical terms used by the Permittee in its reports pursuant to this Condition 7.1.10-2(d), including the definitions for the categories used by the Permittee to classify exceedance events.
- e. The Permittee shall submit a report to the Illinois EPA by November 30 of each year that demonstrates whether the affected boiler has complied with Condition 7.1.4(f), pursuant to 35 IAC 217.712(d) and (e). 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).
  - i. If the Permittee is demonstrating compliance on a unit-specific basis with Condition 7.1.4(f)(i)(A), this report shall contain the information specified by 35 IAC 217.712(d) including the heat input and NO<sub>x</sub> emissions of the unit for the ozone control period.
  - ii. If the Permittee is demonstrating compliance by means of "NO<sub>x</sub> averaging" as authorized by Condition 7.1.4(f)(ii)(B), this report shall contain the information specified by 35 IAC 217.712(e) and other related information as follows:
    - A. In all cases, for the affected boiler, the Permittee shall report the following:
      - I. Identification of the other EGU that are participating in the demonstration, including identification of the source that is the lead party for the demonstration and that is also taking responsibility for submitting the information required by Condition 7.1.10-2(e)(ii)(B) below.
      - II. A statement confirming that the boiler is eligible to participate in an averaging demonstration, i.e., the unit is included in only one demonstration [35 IAC 217.708(d)] and the Permittee is complying with

applicable recordkeeping and reporting requirements for the unit, pursuant to 35 IAC 217.708(c) and (g).

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

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

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

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

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

III. A statement whether the demonstration shows compliance.

f. Acid Rain Program Reporting

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

7.1.10-3 Reporting Requirements - Notifications

a. Reporting of Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Section 39.5(7) (a) of the Act, the Permittee shall provide the following notifications and reports to the Illinois EPA, concerning incidents when operation of the affected boiler continued with excess emissions, including continued operation during malfunction or breakdown as addressed by Condition 7.1.3(c). These requirements do not apply to such excess emissions, if any, that occur during startup or shutdown of 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 applicable PM emissions standard (Condition 7.1.4(b)) could be exceeded or in which the opacity from the affected boiler exceeds or may have exceeded 30 percent for more than five consecutive 6-minute averaging periods unless the Permittee has begun the shutdown of the affected boiler by such time. (Otherwise, as related to opacity, if opacity during an incident only exceeds or may have exceeded 30 percent for less than six 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.1.10-2(a) (iii) and (d).)
- ii. Upon conclusion of each incident in which the applicable PM emission standard may have been exceeded or in which exceedances of the opacity standard are two hours or more in duration, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days that includes: a detailed description of the deviation and its cause(s); an explanation why continued operation of the affected boiler was necessary; the length of time during which operation continued under such conditions until repairs were completed or the boiler was taken out of service; a description of the measures taken to minimize and correct deficiencies with chronology; and a description of the preventative measures that have been and are being taken.

7.1.11 Anticipated Operating Scenarios/Operating Flexibility

The Permittee is authorized to make the following operational changes with respect to the affected boiler without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 35.5(7) (a) of the Act. This condition does not affect the Permittee's obligation

to continue to comply with applicable requirements; to properly obtain a construction permit in a timely manner for any activity constituting construction or modification as defined in 35 IAC 201.102 or, as applicable, 40 CFR 52.21(a)(2) or 35 IAC 203.207; and to comply with other legal requirements that apply to such a change:

- a. Operation of additional air pollution control equipment, which is addressed by a separate construction permit.
- b. Firing of coal or a mix of coal from different suppliers.
- c. Firing of the following materials in conjunction with firing of standard fuels, provided that such materials can be accommodated with the existing fuel handling system and the burners in the affected boiler, and that such materials do not make up more than 25 percent by weight of the fuel supply to the boiler on a quarterly basis:
  - i. Other process wastes generated at the source in addition to used oil and boiler cleaning residue.
  - ii. Alternative fuels that do not constitute waste and were not generated from municipal waste or hazardous waste, such as petroleum coke, tire derived fuel (as defined at Section 54.10b of the Act), clean lumber and wood waste (as defined at 40 CFR 60.2265), shredded polyethylene agricultural containers, and seed corn, provided that such materials are shipped to the source in homogeneous form prepared for use as fuel (e.g., a shipment of tire derived fuel).

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

#### 7.1.12 Compliance Procedures

- a. Compliance with the opacity limitation of Conditions 7.1.4(a)(iii) and (g) (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 7.1.8(a) and the recordkeeping requirements of Condition 7.1.9.
- b. Compliance with PM emission limitation of Conditions 7.1.4(a)(ii) and 7.1.4(b) is addressed by continuous opacity monitoring in accordance with Condition 7.1.8(a), PM testing in accordance with Condition

7.1.7, and the recordkeeping required by Condition 7.1.9.

- c. Compliance with the SO<sub>2</sub> emission limitation of Condition 7.1.4(a) (ii) and 7.1.4(c) is addressed by continuous monitoring in accordance with Condition 7.1.8(b) and the recordkeeping required by Condition 7.1.9(d).
- d. Compliance with the CO emission limit of Condition 7.1.4(d) is addressed by emission testing in accordance with Condition 7.1.7.

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

- e. Compliance with NO<sub>x</sub> emission limits of Conditions 7.1.4(a) (ii), 7.1.4(e) and 7.1.4(f) is addressed by continuous monitoring in accordance with Condition 7.1.8(c) and the recordkeeping required by Condition 7.1.9(e).

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

## 7.2 Coal Handling Equipment

### 7.2.1 Description

The Permittee transfers and stores coal in a series of operations, including railcar unloading, truck unloading, various conveyor belts (with associated hoppers, diverters, and transfer points), storage piles (with stackers and feeders), and bunkers. As a part of handling, the coal may be passed through "crackers" designed to break apart frozen coal. Particulate matter (PM) emissions associated with these operations are controlled by various measures including the moisture content of the coal, application of dust suppressant to the coal, enclosures and covers, and dust collection devices.

### 7.2.2 List of Emission Units and Air Pollution Control Equipment

#### Coal Receiving Operations

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

#### Coal Transfer Operations

Coal Transfer Conveyors  
Enclosures and Covers

#### Coal Storage Operations

Outdoor Storage Piles  
Coal Transfer Conveyors  
Coal Storage Bunkers

### 7.2.3 Applicability Provisions

- a. The "affected operations" for the purpose of these unit-specific conditions, are the emission units that are used solely for the purpose of transferring coal or other solid fuel from one location to another or for storage of coal or other solid fuel, without changing the size of the fuel, e.g., by crushing or screening, as described in Conditions 7.2.1 and 7.2.2.
- b. The Permittee is authorized to continue operation of an affected operation in violation of the applicable requirements of Condition 7.2.4(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." This authorization supersedes the general prohibition in Condition 9.2.3 against

continued operation in such circumstances.

i. This authorization only allows such continued operation as necessary to provide essential service, prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.

ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable 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. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that extraordinary circumstances exist and the affected operation can not reasonably be repaired or removed from service within the allowed time, it will repair the affected operation or remove the operation from service as soon as practicable; and it is taking all reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.

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

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

iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess

emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

7.2.4 Applicable Emission Standards

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

7.2.5 Non-Applicability of Regulations of Concern

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

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

- a. i. The Permittee shall implement and maintain control measures for the affected operations, such as enclosure, natural surface moisture, application of dust suppressant, and use of dust collection devices, that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission control requirements in Conditions 7.2.4 and 7.2.6(b), pursuant to Section 39.5(7) (a) of the Act.
- ii. The Permittee shall operate and maintain each affected operation with the control measures identified in Condition 7.2.9(b).
- b. i. The affected operations shall not exceed the following PM emission limits [T1]:

Operation(s)	PM Emissions	
	(Lb/Ton)	(Ton/Yr)
Modified Rail Car Unloading	0.001	2.25
Dumper Hopper Feeder	0.01	22.5
Rail Car Dumper Conveying & Transfer	0.01	22.5
Stacker Boom Conveyor	0.01	22.5
Storage Pile Stack Out	0.008	18.0
Storage Pile Reclaim	0.01	22.5
Storage Pile Conveying and Transfer	0.01	22.5
Total:		132.8

- ii. A. The amount of material received by the upgraded rail system shall not exceed 4.5 million tons/year. [T1]
- B. The amount of material handled by the upgraded transfer and conveying system shall not exceed 4.5 million tons/year. [T1]
- C. The amount of material handled in the storage pile shall not exceed 4.5 million tons/year. [T1]
- 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 months total). [T1]

Note: The above requirements were established in Permit 03090039, pursuant to the federal PSD rules, 40 CFR 52.21. These requirements ensure that the construction project addressed in that permit does not constitute a major modification pursuant to Title I of the CAA, specifically the PSD rules.

#### 7.2.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the exhaust from the affected operations during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7)(b) of the Act.
  - A. For each affected operation, testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the issuance of this permit.
  - B. Upon written request by the Illinois EPA, such testing shall be conducted for specific affected operation(s) within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.
- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
- iii. A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and

employer of the qualified observer(s).

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

#### 7.2.8 Inspection Requirements

- a. The Permittee shall perform inspections of the affected operations on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.2.6(a). These inspections shall be performed with personnel not directly involved in the day-to day operation of the affected operations and may be scheduled so that only a number of affected operations are reviewed during each inspection, provided however, that all affected operations shall be inspected at least once during each calendar quarter, pursuant to Section 39.5(7)(a) of the Act.
- b. The Permittee shall perform detailed inspections of the dust collection equipment for the affected operations at least every 15 months while the operations are out of service, with an initial inspection performed before any maintenance and repair activities are conducted during the period the operation is out of service and a follow-up inspection performed after any such activities are completed [Section 39.5(7)(a) of the Act].

#### 7.2.9 Recordkeeping Requirements

The Permittee shall maintain records of the following:

- a. The Permittee shall keep a record, which shall be kept up to date, of the following:
  - i. Information related to the dust collection equipment associated with the affected operations, including the design control efficiency or performance specifications and maximum design particulate matter emissions, gr/dscf, with supporting documentation.
  - ii. The maximum operating capacity of each affected operation, (ton/hour), with supporting documentation.
- b.
  - i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures for the affected operations currently being implemented pursuant to Condition 7.2.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
  - ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with the emission limitations in Condition 7.2.6(b), with supporting emission calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee. Except as addressed by Condition 7.2.9(a)(i), this demonstration shall developed using emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions published by USEPA.
  - iii. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
- c.
  - i. The Permittee shall maintain the amount of coal and other solid fuels received at the source, by type of fuel (tons/month and tons/year).
  - ii. To demonstrate compliance with Condition 7.2.6(b), the Permittee shall keep records for coal handling system of PM emissions (tons/month and tons/year) based on the

records in Condition 7.2.9, with supporting calculations.

d. The Permittee shall maintain records of the following for the inspections required by Condition 7.2.8:

i. For the inspections required by Condition 7.2.8(a) for each affected operation:

- A. Date and time the inspection was performed and name(s) of inspection personnel.
- B. The observed condition of the control measures for each affected operation, including the presence of any visible emissions or visible accumulations of coal fines in the vicinity of the process.
- C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
- D. A summary of compliance compared to the established control measures.

ii. For the inspections required by Condition 7.2.8(b) for the dust collection equipment for affected operations:

- A. Date and time the inspection was performed and name(s) of inspection personnel.
- B. The observed condition of the equipment.
- C. A summary of the maintenance and repair that is to be or was conducted on the equipment.
- D. A description of any maintenance or repair that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
- E. A summary of the observed condition of the equipment as related to its ability to reliably and effectively control emissions.

- e. The Permittee shall maintain records of the following for each incident when any affected operation operated without the established control measures:
  - i. The date of the incident and identification of the affected operations that were involved.
  - ii. A description of the incident, including the established control measures that were not present or implemented; the established control measures that were present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
  - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
  - iv. The length of time after the incident was identified that the affected operations continued to operate before established control measures were in place or the operations were shutdown (to resume operation only after established control measures were in place) and, if this time was more than one hour, an explanation why this time was not shorter, including a description of any mitigation measures that were implemented during the incident.
  - v. The estimated total duration of the incident, i.e., the total length of time that the affected operations ran without established control measures and the estimated amount of coal handled during the incident.
  - vi. A discussion of the probable cause of the incident and any preventative measures taken.
  - vii. A discussion whether Condition 7.2.4(b) or the PM emission limits (lb/ton) in Condition 7.2.6(b) may have been violated during the incident, with an estimate of the amount of any additional or excess PM emissions (lb) from the incident, with supporting explanation as needed.
- f. The Permittee shall keep 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. Records for Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Section 39.5(7)(b) of the Act, 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 control equipment, listing activities performed with date.
- ii. Records for each incident when operation of an affected operation continued during malfunction or breakdown with excess emissions, as provided by Condition 7.2.3(b), including the following information:
  - A. Date and duration of malfunction or breakdown.
  - B. A description of the malfunction or breakdown.
  - C. The corrective actions used to reduce the quantity of emissions and the duration of the incident.
  - D. Confirmation of fulfillment of the requirements of Condition 7.2.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.2.10(b)(ii).
  - E. If excess emissions occurred for two or more hours:
    - I. A detailed explanation why continued operation of the affected operation was necessary.
    - II. A detailed explanation of the preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
    - III. An estimate of the magnitude of excess emissions occurring during the incident.

h. Records for Opacity Measurements

The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected operations that it conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.2.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the affected operations, the observed opacity, and copies of the raw data sheets for the measurements.

7.2.10 Reporting Requirements

a. Reporting of Deviations

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

- i. Notification within 30 days for operation of an affected operations that was not in compliance with applicable requirements in Conditions 7.2.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.2.9(e).
- ii. Notification with the quarterly reports required by Condition 7.1.10-2(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.

b. Reporting of Continued Operation During Malfunctions and Breakdowns

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

- i. The Permittee shall notify the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from an affected

operation exceeds or may have exceeded 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for less than five consecutive 6-minute averaging periods in a row, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.2.10(a).

- ii. Upon conclusion of each incident that is two hours or more in duration, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation of an affected operation was necessary, the length of time during which operation continued under such conditions, the measures taken by the Permittee to minimize and correct deficiencies with chronology, and when the repairs were completed or when the affected operation was taken out of service.

#### 7.2.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected operations without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for an activity for which a permit is required pursuant to 35 IAC 201.142.

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

#### 7.2.12 Compliance Procedures

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

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

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

### 7.3 Heating Boiler

#### 7.3.1 Description

The boiler is fuel combustion emission unit used to produce steam for auxiliary support and provide heat. The boiler is fired with distillate fuel oil.

#### 7.3.2 List of Emission Units and Air Pollution Control Equipment

Unit	Description	Control Equipment
Heating Boiler - HB-1	Distillate Oil Fired Boiler (Pre-1971) Nominal 63 mmBtu/hr	None

#### 7.3.3 Applicability Provisions

- a. The "affected boiler" for the purpose of these unit-specific conditions is the boiler described in Conditions 7.3.1 and 7.3.2.
- b. The Permittee is authorized to continue operation of an affected boiler in violation of the applicable emission limitations of Conditions 7.3.4(a), (b), and (d) 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, prevent risk of injury to personnel or severe damage to equipment." This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.
  - i. This authorization only allows such continued operation as necessary to provide essential service, prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.
  - ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable repair the affected boiler or remove the affected boiler from service so that excess emissions cease. Unless the Permittee obtains an extension from the Illinois EPA, this shall be accomplished within 24 hours\* or noon of the Illinois EPA's next business day\*, whichever is later. The

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

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

- iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.3.9(f) and 7.3.10(b).
- iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

#### 7.3.4 Applicable Emission Standards

- a. The affected boiler is subject to the standard in Condition 5.2.2(b), which addresses the opacity of the emission of smoke or other particulate matter from the affected boiler, pursuant to 35 IAC 212.123.
- b. The emissions of PM from the affected boiler shall not exceed 0.10 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 212.206.
- c. The emissions of SO<sub>2</sub> from the affected boiler shall not exceed 0.3 lb/mmBtu of actual heat input in any one hour period, pursuant to 35 IAC 214.161(b).
- d. The affected boiler is subject to 35 IAC 216.121, which provides that no person shall cause or allow the emission of CO into the atmosphere from any fuel combustion emission source with actual heat input greater than 10 mmBtu/hr to exceed 200 ppm, corrected

to 50 percent excess air.

7.3.5 Non-Applicability of Regulations of Concern

None

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

- a. Distillate fuel oil shall be the only fuel fired in the affected boiler.

7.3.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the exhaust from the affected boiler during representative operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.
  - A. On an annual basis. For this purpose, opacity testing shall first be conducted within the first 500 hours of operation of the boiler pursuant to this permit.
  - B. Upon written request by the Illinois EPA, such testing shall be conducted within 45 calendar days of the request, or on the date that the affected boiler next operates, or on the date agreed upon by the Illinois EPA, whichever is later.
- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 5.0 percent.
- iii.
  - A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of testing, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the 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 operating conditions. This condition supersedes the requirements of Condition 8.6.2.
  - B. The Permittee shall promptly notify the Illinois EPA of any changes in the date or time of testing.

- iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include relevant information specified in Condition 8.6.3 and the following information:
  - A. Summary of results.
  - B. Name of certified observer(s), copy of their current certification(s), and name of employer.
  - C. Description of observation location and meteorological conditions.
  - D. Detailed description of the operating conditions of the affected boiler during testing, including fuel consumption (gal/hr) and firing rate (mmBtu/hr).
- b.
  - i. Within 90 days of a written request from the Illinois EPA, the Permittee shall have measurements of the CO and PM emissions of the affected boiler conducted by an approved independent testing service.
  - ii. Testing shall be performed using the following procedures:
    - A. The applicable methods specified by 40 CFR 60, Appendix A, shall be used for testing CO and PM emissions.
  - iii. The Permittee shall submit a test plan to the Illinois EPA at least 60 days prior to testing.
  - iv. The Illinois EPA shall be notified prior to these tests to enable the Illinois EPA to observe these tests. Notification of the expected date of testing shall be submitted a minimum of 30 days prior to the expected date. Notification of the actual date and expected time of testing shall be submitted a minimum of 5 working days prior to the actual date of the test. The Illinois EPA may, at its discretion, accept notification with shorter advance notice provided that the Illinois EPA will not accept such notification if it interferes with the Illinois EPA's ability to observe the testing.

- v. The Permittee shall submit the Final Report(s) for any required emission testing to the Illinois EPA within 45 days after the tests results are compiled and finalized but no later than 120 days after the date of testing. The Final Report shall include the information specified in Condition 8.6.3 and the following information:
  - A. A summary of results.
  - B. Detailed description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
  - C. Detailed description of the operating conditions of the affected boiler during testing, including fuel consumption (gal/hr) and firing rate (mmBtu/hr).
  - D. Detailed 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

None

7.3.9 Recordkeeping Requirements

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

- a. i. An operating log for the affected boiler, which shall include the following information:
  - A. Information for each startup and shutdown of the boiler, including date, time and duration.
  - B. Information for any incident in which the operation of the affected boiler continued during malfunction or breakdown, including: date, time, and duration; a description of the incident; whether emissions exceeded or may have exceeded any applicable standard; a description of the corrective actions taken to reduce emissions and the duration of the incident; and a description of the preventative actions taken.
  - C. Information identifying any deviation from Condition 7.3.6(a).

ii. A maintenance and repair log for the affected boiler, listing activities performed with date.

b. Records for Opacity Measurements

Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records for all opacity measurements made in accordance with USEPA Method 9 for the affected boiler that the Permittee conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.3.7(a), or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the boiler, the observed opacity, and copies of the raw data sheets for the measurements.

c. Records for each shipment of fuel for the affected boiler, including date, supplier, quantity (in gallons), sulfur content, heat content (Btu/gal), and whether the SO<sub>2</sub> emissions from the burning of such fuel would meet the standard in Condition 7.3.4(c).

d. Fuel usage for the affected boiler, gallons/month and gallons/year.

f. Records for Continued Operation During Malfunctions and Breakdowns

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

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

ii. Records for each incident when operation of the affected boiler continued during malfunction or breakdown with excess emissions, as provided by Condition 7.3.3(b), including the following information:

A. Date and duration of malfunction or breakdown.

B. A description of the malfunction or breakdown.

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

- D. Confirmation of fulfillment of the requirements of Condition 7.3.10(b), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.3.10(b) (ii).
- E. If excess emissions occurred for two or more hours:
  - I. A detailed explanation why continued operation of the affected boiler was necessary.
  - II. A detailed explanation of the preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
  - III. An estimate of the magnitude of excess emissions occurring during the incident.

#### 7.3.10 Reporting Requirements

##### a. Reporting of Deviations

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

- i. A. Notification to the Illinois EPA's Regional Office, by telephone (voice, facsimile or electronic) as soon as possible during normal working hours for each incident in which the opacity from the affected boiler exceeds or may have exceeded the limit in Condition 7.3.4(a) (30 percent) for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during an incident only exceeds or may have exceeded 30 percent for no more than five consecutive 6-minute averaging periods, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.3.10(a) (iii) (A).)
- B. Upon conclusion of such incident, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation of the 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.

- ii. Notification within 30 days for a deviation from Condition 7.3.4(c) or 7.3.6(a), with a copy of the applicable records for the incident and a discussion of the probable cause of deviation, the corrective actions taken, and the preventative measures taken.
- iii. A. Reporting with the quarterly reports required by Condition 7.1.10(a) for other deviations not addressed by Condition 7.3.10(a)(i) or (ii), including deviations from applicable emission standards, inspection requirements and recordkeeping requirements. For this purpose, these reports shall include a description of each incident and a discussion of the probable cause of the deviation, the corrective actions taken, and the preventative measures taken.
  - B. With the quarterly report, the Permittee shall also address deviations that occurred during the quarter that have been separately reported to the Illinois EPA, with a summary of such deviations. For this purpose, the Permittee need not resubmit the detailed information provided in the initial notifications and reports for such deviations.

7.3.11 Operational Flexibility/Anticipated Operating Scenarios

None

7.3.12 Compliance Procedures

- a. Compliance with the opacity limit of Condition 7.3.4(a) is addressed by the testing and recordkeeping required by Conditions 7.3.7(a) and 7.3.9(b), respectively.
- b. Compliance with the PM limit of Condition 7.3.4(b) is addressed by the testing provided for by Condition 7.3.7(b) and the recordkeeping required by Condition 7.3.9.
- c. Compliance with Condition 7.3.4(c) is addressed by records required by Condition 7.3.9(c). For this purpose, complete conversion of sulfur to SO<sub>2</sub> shall be assumed, e.g., SO<sub>2</sub> emissions in lb/mmBtu are twice the sulfur content of the fuel supply, in lb/mmBtu.

- d. Compliance with the CO limits of Condition 7.3.4(d) is addressed by upon request testing by Conditions 7.3.7(b).

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

Note: This condition 7.3.12 is included in this permit pursuant to Section 39.5(p)(v) of the Act.

## 7.4 Limestone Handling Equipment

### 7.4.1 Description

The Permittee operates equipment for handling and storing limestone, which is a raw material for the flue gas desulfurization (FGD) scrubber system. Associated particulate matter (PM) emissions are controlled by various control measures including enclosures and covers.

### 7.4.2 List of Emission Units and Air Pollution Control Equipment

Emission Unit Description	Emission Control Equipment
Limestone Conveyors	Enclosures and Covers
Limestone Unloading	Enclosures and Covers

### 7.4.3 Applicability Provisions

- a. The "affected operations" for the purpose of these unit-specific conditions, are the emission units that are described in Conditions 7.4.1 and 7.4.2, which handle and store without processing the limestone to reduce its size, e.g., by crushing or screening.
- b. The Permittee is authorized to continue operation of an affected operation in violation of the applicable requirement of Condition 7.4.4(b) (35 IAC 212.123) and Condition 7.4.4(c) (35 IAC 212.321(a)) in the event of a malfunction or breakdown of an affected 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." This authorization supersedes the general prohibition in Condition 9.2.3 against continued operation in such circumstances.
  - i. This authorization only allows such continued operation as necessary to provide essential service, prevent risk of injury to personnel or severe damage to equipment and does not extend to continued operation solely for the economic benefit of the Permittee. As provided by 35 IAC 201.265, this authorization does not shield the Permittee from enforcement for any such violation and shall only constitute a prima facie defense to such an enforcement action provided that the Permittee has fully complied with all associated terms and conditions.
  - ii. Upon occurrence of excess emissions due to malfunction or breakdown, the Permittee shall as soon as practicable 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. The Illinois EPA, Air Compliance Section, in Springfield, may grant a longer extension if the Permittee demonstrates that extraordinary circumstances exist and the affected operation can not reasonably be repaired or removed from service within the allowed time, it will repair the affected operation or remove the operation from service as soon as practicable; and it is taking all reasonable steps to minimize excess emissions, based on the actions that have been and will be taken.

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

- iii. The Permittee shall fulfill applicable recordkeeping and reporting requirements of Condition 7.4.9(f) and 7.4.10(b).
- iv. Following notification to the Illinois EPA of a malfunction or breakdown with excess emissions, the Permittee shall comply with all reasonable directives of the Illinois EPA with respect to such incident, pursuant to 35 IAC 201.263.

#### 7.4.4 Applicable Emission Standards

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

212.321(a), which provides that:

No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new operations emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (see also Attachment 1) [35 IAC 212.321(a)].

7.4.5 Non-Applicability of Regulations of Concern

- a. This permit is issued based on the affected operations not being subject to the New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, 40 CFR Part 60, Subparts A and OOO, because the affected operations do not meet the definition of a nonmetallic mineral processing plant because there is no equipment used to crush or grind.

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

- a. i. The Permittee shall implement and maintain control measures for the affected operations, such as enclosure, natural surface moisture, application of dust suppressant, and use of dust collection devices, that minimize visible emissions of particulate matter and provide assurance of compliance with the applicable emission control requirements in Conditions 7.4.4, pursuant to Section 39.5(7) (a) of the Act.
- ii. The Permittee shall operate and maintain each affected operation with the control measures identified in Condition 7.4.9(b).

7.4.7 Testing Requirements

- a. i. The Permittee shall have the opacity of the exhaust from the affected operations during representative weather and operating conditions determined by a qualified observer in accordance with USEPA Test Method 9, as further specified below, pursuant to Section 39.5(7) (b) of the Act.
  - A. For each affected operations, testing shall be conducted at least annually. For this purpose, testing shall first be conducted within three months of the issuance of this permit.
  - B. Upon written request by the Illinois EPA, such testing shall be conducted for

specific affected operations within 45 calendar days of the request or on the date agreed upon by the Illinois EPA, whichever is later.

- ii. The duration of opacity observations for each test shall be at least 30 minutes (five 6-minute averages) unless the average opacities for the first 12 minutes of observations (two six-minute averages) are both less than 10.0 percent.
- iii.
  - A. The Permittee shall notify the Illinois EPA at least 7 days in advance of the date and time of these tests, in order to allow the Illinois EPA to witness testing. This notification shall include the name and employer of the qualified observer(s).
  - B. The Permittee shall promptly notify the Illinois EPA of any changes in the time or date for testing.
- iv. The Permittee shall provide a copy of its observer's readings to the Illinois EPA at the time of testing, if Illinois EPA personnel are present.
- v. The Permittee shall submit a written report for this testing within 15 days of the date of testing. This report shall include:
  - A. Date and time of testing.
  - B. Name and employer of qualified observer.
  - C. Copy of current certification.
  - D. Description of observation condition, including recent weather.
  - E. Description of the operating conditions of the affected processes.
  - F. Raw data.
  - G. Opacity determinations.
  - H. Conclusions.

#### 7.4.8 Inspection Requirements

- a. The Permittee shall perform inspections of the affected operations on at least a monthly basis, including associated control measures, while the affected operations are in use, to confirm compliance with the requirements of Condition 7.4.6(a). These inspections shall be performed with personnel not

directly involved in the day-to day operation of the affected operations and may be scheduled so that only a number of affected operations are reviewed during each inspection, provided however, that all affected operations shall be inspected at least once during each calendar quarter, pursuant to Section 39.5(7) (a) of the Act.

#### 7.4.9 Recordkeeping Requirements

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

- a. The Permittee shall keep a record, which shall be kept up to date of the following:
  - i. The maximum operating capacity of each affected operations, (ton/hour), with supporting documentation.
  - b.
    - i. The Permittee shall maintain a record, which shall be kept up to date, of the control measures for the affected operations currently being implemented pursuant to Condition 7.4.6(a). These control measures are referred to as the "established control measures" in this subsection of this permit.
    - ii. Accompanying this record, the Permittee shall maintain a demonstration that confirms that the above established practices are sufficient to assure compliance with Condition 7.4.4(c) at the maximum process weight rate at which each affected operations can be operated (tons material/hour), with supporting emission calculations and documentation for the emission factors and the efficiency of the control measures being relied upon by the Permittee. Except as addressed by Condition 7.4.9(a) (i), this demonstration shall developed using emission factors for uncontrolled PM emissions, efficiency of control measures, and controlled PM emissions published by USEPA.
    - iii. Copies of these records shall be submitted to the Illinois EPA in accordance with Condition 5.6.2(d).
- c. The Permittee shall maintain records of the following for the inspections required by Condition 7.4.8:
  - i. For the inspections required by Condition 7.4.8(a) for each affected operations:
    - A. Date and time the inspection was performed and name(s) of inspection personnel.

- B. The observed condition of the control measures for each affected operations, including the presence of any visible emissions or visible accumulations of limestone fines in the vicinity of the process.
  - C. A description of any maintenance or repair associated with established control measures that is recommended as a result of the inspection and a review of outstanding recommendations for maintenance or repair from previous inspection(s), i.e., whether recommended action has been taken, is yet to be performed or no longer appears to be required.
  - D. A summary of compliance compared to the established control measures.
- d. The Permittee shall maintain records of the following for each incident when any affected operations 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 present, if any; other control measures or mitigation measures that were implemented, if any; and the magnitude of the PM emissions during the incident.
  - iii. The time at and means by which the incident was identified, e.g., scheduled inspection or observation by operating personnel.
  - iv. The length of time after the incident was identified that the affected 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 limestone handled during the incident.

- vi. A discussion of the probable cause of the incident and any preventative measures taken.
- vii. A discussion whether Condition 7.4.4(b) may have been violated during the incident, with supporting explanation as needed.
- e. The Permittee shall keep 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.)
- f. Records for Continued Operation During Malfunctions and Breakdowns

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

- i. A maintenance and repair log for each affected operations and associated control 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 7.4.3(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 7.4.10(c), as applicable, including copies of follow-up reports submitted pursuant to Condition 7.4.10(c) (ii).
  - E. If excess emissions occurred for one hour (60 minutes) or more:
    - I. A detailed explanation why continued operation of the affected operations was necessary.

- II. A detailed explanation of the preventative measures planned or taken to prevent similar malfunctions or breakdowns or reduce their frequency and severity.
- III. An estimate of the magnitude of excess emissions occurring during the incident.

g. Records for Opacity Measurements

The Permittee shall keep records for all opacity measurements made in accordance with USEPA Method 9 for the affected operations that it conducts or that are conducted on its behest by individuals who are qualified to make such observations. For each occasion on which such measurements are made, these records shall include the formal report for the measurements if conducted pursuant to Condition 7.5.7, or otherwise the identity of the observer, a description of the measurements that were made, the operating condition of the affected process, the observed opacity, and copies of the raw data sheets for the measurements.

7.4.10 Reporting Requirements

a. Reporting of Deviations

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

- i. Notification within 30 days for operation of an affected operations that was not in compliance with applicable requirements in Conditions 7.4.6(a) that continued for more than 12 operating hours from the time that it was identified. Such notifications shall be accompanied by a copy of the records for the incident required by Condition 7.2.9(e).
- ii. Notification with the quarterly reports required by Condition 7.1.10(a) for other deviations, including deviations from applicable emission standards, inspection requirements and recordkeeping requirements.

b. Reporting of Continued Operation During Malfunctions and Breakdowns

Pursuant to 35 IAC 201.263 and Section 39.5(7)(a) of the Act, the Permittee shall provide the following

notifications and reports to the Illinois EPA, concerning incidents when operation of an affected operations continued during malfunction or breakdown with excess emissions as addressed by Condition 7.4.3(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 or may have exceeded 30 percent for more than five consecutive 6-minute averaging periods. (Otherwise, if opacity during a malfunction or breakdown incident only exceeds or may have exceeded 30 percent for no more than three 6-minute averaging periods, the Permittee need only report the incident in the quarterly report, in accordance with Condition 7.4.10(a).)
- ii. Upon conclusion of each such incident, the Permittee shall submit a follow-up report to the Illinois EPA, Compliance Section and Regional Office, within 15 days providing a detailed explanation of the event, an explanation why continued operation of an affected operations 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 operations 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 the affected operations without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7) (a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for an activity for which a permit is required pursuant to 35 IAC 201.142.

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

7.4.12 Compliance Procedures

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

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

7.5 Storage Tanks

7.5.1 Description

The storage tanks are associated with gasoline dispensing operations for plant vehicles.

7.5.2 List of Emission Units and Air Pollution Control Equipment

Unit	Description	Control Equipment
Storage Tanks DCGT-1, DCGT-2	Gasoline Storage Tanks Capacity 2000 gal each	Submerged Loading Pipe

7.5.3 Applicability Provisions

An "affected storage tank" for the purpose of these unit-specific conditions, is a storage tank described in Conditions 7.5.1 and 7.5.2.

7.5.4 Applicable Emission Standards

- a. The affected storage tanks are subject to 35 IAC 215.122(b) and 215.583(a)(1), which provides that:
  - i. No person shall cause or allow the loading of any organic material into any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe, submerged fill, or an equivalent device approved by the Illinois EPA according to the provisions of 35 IAC 201 or unless such tank is a pressure tank as described in 35 IAC 215.121(a) or is fitted with a recovery system as described in 35 IAC 215.121(b)(2) [35 IAC 215.122(b)].

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

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

7.5.5 Non-Applicability of Regulations of Concern

- a. This permit is issued based on each affected storage tank not being subject to the NSPS for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels), 40 CFR Part 60, Subpart Kb, because the capacity of the tank is less than 40 cubic meters (10,566 gallons).

- b. This permit is issued based on each affected storage tank not being subject to 35 IAC 215.121 or 215.122(a) because the capacity of each affected storage tank is less than 40,000 gallons.
- c. This permit is issued based on the requirements of 35 IAC 215.583(a)(2) related to transfers of gasoline to storage tanks not being applicable because the affected storage tanks are located in Fulton County. [35 IAC 215.583(b)]

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

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

7.5.7 Testing Requirements

None

7.5.8 Inspection Requirements

None

7.5.9 Recordkeeping Requirements

The Permittee shall maintain records of the following items for the affected storage tanks, pursuant to Section 39.5(7)(b) and (p)(i) of the Act:

- a. Design information for the capacity of the tank and the presence of a permanent submerged loading pipe.
- b. Maintenance and repair records for the affected storage tanks, as related to the repair or replacement of the loading pipe.
- c. Throughput of material, gal/mo and gal/yr, by type of material.

7.5.10 Reporting Requirements

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

- a. Notification within 30 days for any filling of an affected storage tank that was not in compliance with the requirements of Conditions 7.5.4 or 7.5.6, i.e., that was conducted without a submerged loading pipe.

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

#### 7.5.11 Operational Flexibility/Anticipated Operating Scenarios

The Permittee is authorized to make the following physical or operational change with respect to the affected storage tanks without prior notification to the Illinois EPA or revision of this permit, pursuant to Section 39.5(7)(a) of the Act. This condition does not affect the Permittee's obligation to continue to comply with applicable requirements or to properly obtain a construction permit in a timely manner for any activity constituting a modification as defined by 40 CFR 52.21 or for any activity constituting construction or modification as defined in 35 IAC 201.102.

- a. Changes to components related to the submerged loading pipe, including addition of new components and repair and replacement of components.
- b. Changes in the material stored in the affected storage tanks.

#### 7.5.12 Compliance Procedures

- a. Compliance with Conditions 7.5.4(a) is addressed by the use of a submerged loading pipe as required in Condition 7.5.6(a) and by the recordkeeping requirements of Condition 7.5.9.

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

## 8.0 GENERAL PERMIT CONDITIONS

### 8.1 Permit Shield

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

This permit shield does not extend to applicable requirements which are promulgated after June 27, 2003 (the date of issuance of the draft permit) unless this permit has been modified to reflect such new requirements.

### 8.2 Applicability of Title IV Requirements (Acid Deposition Control)

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

### 8.3 Emissions Trading Programs

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

### 8.4 Operational Flexibility/Anticipated Operating Scenarios

#### 8.4.1 Changes Specifically Addressed by Permit

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

#### 8.4.2 Changes Requiring Prior Notification

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

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

(including test methods), recordkeeping, reporting, or compliance certification requirements;

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

## 8.5 Testing Procedures

Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the condition of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of any tests conducted as required by this permit or as the result of a request by the Illinois EPA shall be submitted as specified in Conditions 8.6.3 and 8.6.4.

## 8.6 Reporting Requirements

### 8.6.1 Monitoring Reports

Reports summarizing required monitoring as specified in the conditions of this permit shall be submitted to the Illinois EPA every six months as follows, unless more frequent submittal of such reports is required in Section 7 of this permit [Section 39.5(7)(f) of the Act]:

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

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

#### 8.6.2 Test Notifications

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

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

#### 8.6.3 Test Reports

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

- a. The name and identification of the affected unit(s);
- b. The date and time of the sampling or measurements;

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

#### 8.6.4 Reporting Addresses

- a. Unless otherwise specified in the particular provision of this permit or in the written instructions distributed by the Illinois EPA for particular reports, reports and notifications shall be sent to the Illinois EPA - Air Compliance Section with a copy sent to the Illinois EPA - Air Regional Field Office.
- b. As of the date of issuance of this permit, the addresses of the offices that should generally be utilized for the submittal of reports and notifications are as follows:
  - i. Illinois EPA - Air Compliance Section  
 Illinois Environmental Protection Agency  
 Bureau of Air  
 Compliance & Enforcement Section (#40)  
 P.O. Box 19276  
 Springfield, Illinois 62794-9276
  - ii. Illinois EPA - Air Regional Field Office  
 Illinois Environmental Protection Agency  
 Division of Air Pollution Control  
 5415 North University  
 Peoria, Illinois 61614
  - iii. USEPA Region 5 - Air Branch  
 USEPA (AR - 17J)  
 Air & Radiation Division  
 77 West Jackson Boulevard  
 Chicago, Illinois 60604

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

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

8.7 Obligation to Comply with Title I Requirements

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

## 9.0 STANDARD PERMIT CONDITIONS

### 9.1 Effect of Permit

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

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

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

9.1.3 Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Section 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

### 9.2 General Obligations of Permittee

#### 9.2.1 Duty to Comply

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

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

#### 9.2.2 Duty to Maintain Equipment

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

#### 9.2.3 Duty to Cease Operation

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

#### 9.2.4 Disposal Operations

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

#### 9.2.5 Duty to Pay Fees

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

### 9.3 Obligation to Allow Illinois EPA Surveillance

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

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

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

#### 9.4 Obligation to Comply With Other Requirements

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

#### 9.5 Liability

##### 9.5.1 Title

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

##### 9.5.2 Liability of Permittee

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

##### 9.5.3 Structural Stability

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

##### 9.5.4 Illinois EPA Liability

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

##### 9.5.5 Property Rights

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

#### 9.6 Recordkeeping

##### 9.6.1 Control Equipment Maintenance Records

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

#### 9.6.2 Records of Changes in Operation

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

#### 9.6.3 Retention of Records

- a. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit [Section 39.5(7)(e)(ii) of the Act].
- b. Other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a longer period is specified by a particular permit provision.

#### 9.7 Annual Emissions Report

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

#### 9.8 Requirements for Compliance Certification

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

- a. The certification shall include the identification of each term or condition of this permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- b. All compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the Illinois EPA.
- c. All compliance reports required to be submitted shall include a certification in accordance with Condition 9.9.

## 9.9 Certification

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

## 9.10 Defense to Enforcement Actions

### 9.10.1 Need to Halt or Reduce Activity Not a Defense

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

### 9.10.2 Emergency Provision

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

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

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

- ii. The permitted source was at the time being properly operated.
- iii. The Permittee submitted notice of the emergency to the Illinois EPA within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- iv. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or regulations in this permit.

- b. This provision is in addition to any emergency or upset provision contained in any applicable requirement. This provision does not relieve a Permittee of any reporting obligations under existing federal or state laws or regulations.

#### 9.11 Permanent Shutdown

This permit only covers emission units and control equipment while physically present at the indicated source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

#### 9.12 Reopening and Reissuing Permit for Cause

##### 9.12.1 Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition [Section 39.5(7) (o) (iii) of the Act].

##### 9.12.2 Reopening and Revision

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

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

##### 9.12.3 Inaccurate Application

The Illinois EPA has issued this permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be grounds for

revocation and reissuance under Section 39.5(15) of the Act, pursuant to Section 39.5(5) (e) and (i) of the Act.

#### 9.12.4 Duty to Provide Information

The Permittee shall furnish to the Illinois EPA, within a reasonable time specified by the Illinois EPA any information that the Illinois EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the Permittee shall also furnish to the Illinois EPA copies of records required to be kept by this permit, or for information claimed to be confidential, the Permittee may furnish such records directly to USEPA along with a claim of confidentiality [Section 39.5(7) (o) (v) of the Act].

#### 9.13 Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the Permittee shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force [Section 39.5(7) (i) of the Act].

#### 9.14 Permit Expiration and Renewal

Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of this CAAPP permit will remain in effect until the issuance of a renewal permit [Section 39.5(5) (l) and (o) of the Act]. The authority for terms and conditions of this permit that do not include a citation for their authority is Section 39.5(7) (a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements.

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

The authority for terms and conditions of this permit that do not

include a citation for their authority is Section 39.5(7)(a) of the Act, which provides that the Illinois EPA shall include such provisions in a CAAPP permit as are necessary to accomplish the purposes of the Act and to assure compliance with all applicable requirements.

9.15 General Authority for the Terms and Conditions of this Permit

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

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

10.0 ATTACHMENTS

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

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

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

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

Where:

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

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

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

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

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

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

Metric		English	
P	E	P	E
Mg/hr	kg/hr	T/hr	lb/hr
0.05	0.25	0.05	0.55
0.1	0.29	0.10	0.77
0.2	0.42	0.2	1.10
0.3	0.64	0.30	1.35
0.4	0.74	0.40	1.58

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

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

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

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

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

Where:

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

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

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

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

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

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

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

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

10.3 Attachment 3 - Example Certification by a Responsible Official

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

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Official Title: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Date Signed: \_\_\_\_\_

#### 10.4 Attachment 4 - Guidance

The Illinois has prepared guidance for sources on the Clean Air Act Permit Program (CAAPP) that is available on the Internet site maintained by the Illinois EPA, [www.epa.state.il.us](http://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](http://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](http://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](http://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](http://www.epa.state.il.us/air/caapp/199-caapp.pdf)

10.5 Attachment 5 - Acid Rain Program Permit

217-782-2113

CERTIFIED MAIL

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

CIGI Duck Creek Station  
Attn: Mr. James L. Luckey  
Designated Representative  
17751 North CILCO Road  
Canton, Illinois 61520

Oris No.: 6016  
IEPA I.D. No.: 057801AAA  
Source/Unit: Duck Creek / 1  
Date Received: December 22, 1997  
Date Issued: December 14, 1998  
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 Central Illinois Generation Inc. (CIGI) Duck Creek plant to incorporate applicable nitrogen oxides emissions limitation compliance requirement.

**SULFUR DIOXIDE (SO<sub>2</sub>) ALLOCATIONS AND NITROGEN OXIDES (NO<sub>x</sub>) REQUIREMENTS FOR AN AFFECTED UNIT:**

		2000	2001	2002	2003	2004
UNIT 1	SO <sub>2</sub> Allowances, under Tables 2,3, or 4 of 40 CFR Part 73	11,197	11,197	11,197	11,197	11,197
UNIT 1	NO <sub>x</sub> limit	<p>Pursuant to 40 CFR part 76, Illinois EPA approves a NO<sub>x</sub> standard emission limitation compliance plan for unit #1. The compliance plan is effective for calendar year beginning 2000 through calendar year 2004. Under the compliance plan, this unit's annual average NO<sub>x</sub> emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.7(a)(2), of 0.46 lb/mmBtu for wall fired boilers.</p> <p>In addition, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO<sub>x</sub> compliance plan and requirements covering excess emissions.</p>				

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The above aforementioned condition does not necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (See 40 CFR 72.84).

**COMMENTS, NOTES AND JUSTIFICATIONS:** The SO<sub>2</sub> allowances revised per CILCO's request are reflected as published in Federal Register dated September 28, 1998.

An initial NO<sub>x</sub> compliance plan in which a standard emission limitation is chosen is effective beginning for calendar year 2000 and continues through the last calendar year that the acid rain permit is effective. Every subsequent standard emission limitation NO<sub>x</sub> compliance plan submitted at the time of acid rain permit renewal will be effective for the same years that the acid rain permit is effective, including any partial years.

**PERMIT APPLICATION:** The NO<sub>x</sub> 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 Shashi Shah at 217-782-7395.

(ORIGINAL SIGNED BY DONALD E. SUTTON)

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

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



Plant Name (from Step 1) Duck Creek

Phase II Permit - Page 2

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

**Standard Requirements**

Permit Requirements

- (1) The designated representative of each affected source and each affected unit at the source shall:
  - (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30, and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each affected source and each affected unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
  - (ii) Have an Acid Rain Permit.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR parts 74, 75, and 76.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR parts 74 and 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics of the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

- (1) The owners and operators of each source and each affected unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 72.8(a)(2)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an affected unit under 40 CFR 72.8(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.8(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:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

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

Plant Name (from Step 1): Duck Creek

**Recordkeeping and Reporting Requirements (cont.)**

- (iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (v) 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 subject 1 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(c) of the Act.
- (2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
- (3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
- (4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
- (6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II recovering extension plant) and 40 CFR 76.11 (NO<sub>x</sub> averaging plant), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 76 (including 40 CFR 76.10, 76.17, and 76.10), 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, 76, 78, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

**Effect on Other Authorities.** No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

- (1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or
- (5) Interfering with or impeding any program for competitive bidding for power supply in a State in which such program is established.

**Certification**

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

Name	Kathleen A. Lockenwitz	
Signature	<i>Kathleen Lockenwitz</i>	Date 12-21-95

**STEP 5 (optional)**  
Enter the source AIRS  
and FIDS identification  
numbers, if known.

AIRS
FIDS

# Phase II NO<sub>x</sub> Compliance Plan

Page 11 of 21

For more information, see instructions and refer to 40 CFR 75.8

This submission is:  New  Revised

## STEP 1

Indicate plant name, State, and CRIS code from NADS, if applicable

Plant Name	Duck Creek Station	IL State	6016 CRIS Code
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## STEP 2

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

ID#	1					
Type	DBW	Type	Type	Type	Type	Type

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wash-fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(c) EPA-approved early election plan under 40 CFR 75.3 through 75.517 (also indicate above emission limit specified in plan)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(d) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I dry bottom wash-fired boilers)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(f) Standard annual average emission limitation of 0.35 lb/mmBtu (for call burner boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(g) Standard annual average emission limitation of 0.35 lb/mmBtu (for cyclone boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(h) Standard annual average emission limitation of 0.30 lb/mmBtu (for vertically fired boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(i) Standard annual average emission limitation of 0.25 lb/mmBtu (for wet bottom boilers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(j) NO <sub>x</sub> Averaging Plan (include NO <sub>x</sub> Averaging form)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(X) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Plant Name (from Step 1)  
 Duck Creek Station

STEP 2, cont'd.

D#	D#	D#	D#	D#	D#
1					
Type	Type	Type	Type	Type	Type
DBU					

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 74.17 (a)(2)(ii)(C), (a)(2)(ii)(B), or (b)(2)

(n) AEL (Include Phase II AEL Demonstration Period, Final AEL Revision, or AEL Renewal form as appropriate)

(o) PRODH for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

(p) Repowering extension plan approved or under review

STEP 3

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

Standard Requirements

**General:** This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 78.6(e)(1)(ii)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

NAME Robert M. Bisha, Director - Environmental Services & Compliance  
 Signature *Robert M. Bisha* Date 12/18/97