

Statement of Basis

for the DRAFT CAAPP Permit for:

Source Name:

State Farm Mutual Automobile Insurance Company

Statement of Basis No.: 95120220-1205

I.D. No.: 113020AEP

Permit No.: 95120220

Date Prepared: July 18, 2012

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705

This Statement of Basis is being provided to USEPA and any interested parties as required by Section 39.5(8)(b) of the Illinois Environmental Protection Act.

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PREFACE

Reason For This Document

This document is a requirement of the permitting authority in accordance with 502(a) of the Clean Air Act, 40 CFR 70.7(a)(5), and Section 39.5(8)(b) of the Illinois Environmental Protection Act. Section 39.5(8)(b) of the Illinois Environmental Protection Act states the following:

"The Agency shall prepare a statement that sets forth the legal and factual basis for the Draft CAAPP permit conditions, including references to the applicable statutory or regulatory provisions."

Purpose Of This Document

The purpose of this Statement of Basis is to provide discussion regarding the development of this Draft CAAPP Permit. This document would also provide the permitting authority, the public, the source, and the USEPA with the applicability and technical matters that form the basis of the Draft CAAPP Permit.

Summary Of Historical Actions Leading Up To Today's Permitting Action

Since the last New CAAPP Permit issued on August 16, 2004, the source has not been issued any modifications or amendments.

Limitations

This Statement of Basis is not enforceable and only sets forth the legal and factual basis for the Draft CAAPP Permit Conditions (Chapters I and II). Chapter III contains supplemental material that would assist in educating interested parties about this source and the Draft CAAPP Permit. The Statement of Basis does not shield the source from enforcement actions or its responsibility to comply with existing or future applicable regulations. Nor does the Statement of Basis constitute a defense to a violation of the Federal Clean Air Act or the Illinois Environmental Protection Act including implementing regulations.

This document does not purport to establish policy or guidance.

INTRODUCTION

The Clean Air Act Permit Program (CAAPP) is the operating permit program established in Illinois for major stationary sources as required by Title V of the federal Clean Air Act and Section 39.5 of the Illinois Environmental Protection Act. The Title V Permit Program (CAAPP) is the primary mechanism to apply the various air pollution control requirements established by the Clean Air Act to major sources, defined in accordance with Title V of the Clean Air Act. The Draft CAAPP Permit contains conditions identifying the state and federal applicable requirements that apply to the source. The Draft CAAPP Permit also establishes the necessary monitoring and compliance demonstrations. The source must implement this monitoring to demonstrate that the source is operating in accordance with the applicable requirements of the permit. The Draft CAAPP Permit identifies all applicable requirements for the various emission units as well as establishes detailed provisions for testing, monitoring, recordkeeping, and reporting to demonstrate compliance with the Clean Air Act. Further explanations of the specific provisions of the Draft CAAPP Permit are contained in the following Chapters of this Statement of Basis.

In addition, the Illinois EPA has committed substantial resources and effort in the development of an acceptable Statement of Basis (this document) that would meet the expectations of USEPA, Region 5. As a result, this document contains discussions that address applicability determinations, periodic monitoring, streamlining, prompt reporting, and SSM authorizations (as necessary). These discussions involve, where necessary, a brief description and justification for the resulting conditions and terms in this Draft CAAPP Permit. This document begins by discussing the legal basis for the contents of the Draft CAAPP Permit, moves into the factual description of the permit, and ends with supplemental information that has been provided to further assist with the understanding of the background and genesis of the permit content.

It is Illinois EPA's preliminary determination that this source's Permit Application meets the standards for issuance of a "Final" CAAPP Permit as stipulated in Section 39.5(10)(a) of the Illinois Environmental Protection Act (see Chapter I - Section 1.2 of this document). The Illinois EPA is therefore initiating the necessary procedural requirements to issue a Final CAAPP Permit. The Illinois EPA has posted the Draft CAAPP permit and this Statement of Basis on USEPA website:

<http://www.epa.gov/reg5oair/permits/ilonline.html>

CHAPTER I - LEGAL BASIS FOR THE PERMIT AND PERMIT CONDITIONS

1.1 Legal Basis for Program

The Illinois EPA's state operating permit program for major sources established to meet the requirements of 40 CFR Part 70 are found at Section 39.5 of the Illinois Environmental Protection Act [415 ILCS 5/39.5]. The program is called the Clean Air Act Permitting Program (CAAPP). The underlying statutory authority is found in the Illinois Environmental Protection Act at 415 ILCS 5/39.5. The CAAPP was given final full approval by USEPA on December 4, 2001 (see 66 FR 62946).

1.2 Legal Basis for Issuance of CAAPP Permit

In accordance with Section 39.5(10)(a) of the Illinois Environmental Protection Act, the Illinois EPA may only issue a CAAPP Permit if all of the following standards for issuance have been met:

- The applicant has submitted a complete and certified application for a permit, permit modification, or permit renewal consistent with Sections 39.5(5) and (14) of the Illinois Environmental Protection Act, as applicable, and applicable regulations (Section a. below);
- The applicant has submitted with its complete application an approvable compliance plan, including a schedule for achieving compliance, consistent with Section 39.5(5) of the Illinois Environmental Protection Act and applicable regulations (Section b. below);
- The applicant has timely paid the fees required pursuant to Section 39.5(18) of the Illinois Environmental Protection Act and applicable regulations (Section c. below); and
- The applicant has provided any additional information as requested by the Illinois EPA (Section d. below).

a. Application Status

The source submitted an application for a Renewal CAAPP Permit on October 24, 2003. The source is currently operating under the source is currently operating under an application shield resultant from a timely and complete renewal application submittal. This Draft CAAPP Permit addresses application content and necessary revisions to meet the requirements for issuance of the permit.

b. Present Compliance Status

At the time of this Draft CAAPP Permit, there were no pending State or Federal enforcement actions against the source; therefore, a Compliance Schedule is not required for this source. The source submitted an approvable Compliance Plan as part of its Certified Permit Application. The source has certified compliance with all applicable rules and regulations. In addition, the draft permit requires the source to certify its compliance status on an annual basis.

c. Payment of Fees

The source is current on payment of all fees associated with operation of the emission units.

d. Additional Information

The source provided all the necessary additional application material as requested by the Illinois EPA.

1.3 Legal Basis for Conditions in the CAAPP Permit

This industrial source is subject to a variety of Federal and SIP regulations, which are the legal basis for the conditions in this permit (see Sections a. and b. below). Also, the CAAPP provides the legal basis for additional requirements such as periodic monitoring, reporting, and recordkeeping. The following list summarizes those regulations that form the legal basis for the conditions in this Draft CAAPP Permit and are provided in the permit itself as the origin and authority.

a. Applicable Federal Regulations

This source operates emission units that are subject to the following Federal regulations.

- 40 CFR Part 63 - Subpart ZZZZ Stationary Reciprocating Internal Combustion Engines
- 40 CFR Part 63 - Subpart JJJJJJ Industrial, Commercial and Institutional Boilers Area Source

b. Applicable SIP Regulations

This source operates emission units that are subject to the following SIP regulations:

- 35 IAC Part 201 - Permits And General Provisions
- 35 IAC Part 212 - Visible And Particulate Matter Emissions
- 35 IAC Part 214 - Sulfur Limitations
- 35 IAC Part 216 - Carbon Monoxide Emissions
- 35 IAC Part 254 - Annual Emissions Report

c. Other Applicable Requirements

There are no other applicable requirements for this source.

CHAPTER II - FACTUAL BASIS FOR THE PERMIT AND PERMIT CONDITIONS

2.1 Source History

There is no significant source history warranting discussion for this source.

2.2 Description of Source

SIC Code: 7374
County: McLean

The source State Farm Mutual Automobile Insurance Company, Corporate South Complex includes eight engine driven electric generators and eight boiler units. State Farm uses the generators to provide emergency, backup electricity for the site. The boiler units are used to produce hot water for heating.

The source contains the following processes:

<i>Emission Units</i>	<i>Description</i>
Engines EG-1N, EG-2N, EG-3N	Three (3) 15.892 mmBtu/hr Distillate Fuel Oil Fired Engines
Engines EG-C1, EG-C2, EG-CD, EG-D1, EG-D2	Five (5) 7.7 mmBtu/hr Distillate Fuel Oil Fired Engines
Boilers B-1S, B-2S	Two (2) 31.4 mmBtu/hr Natural Gas Fired Boilers
Boiler B-1SG	8.37 mmBtu/hr Natural Gas Fired Boiler
Boiler B-2SG	8.37 mmBtu/hr Natural Gas Fired Boiler with Distillate Fuel Oil Backup
Boiler B-3S	29.29 mmBtu/hr Natural Gas Fired Boiler with Distillate Fuel Oil Backup
Boiler B-1PS	8.37 mmBtu/hr Natural Gas Fired Boiler
Boiler B-2PS	14.6 mmBtu/hr Natural Gas Fired Boiler
Boiler B-3SG	32.7 mmBtu/hr Natural Gas Fired Boiler

2.3 Single Source Status

State Farm Mutual Automobile Insurance Company (State Farm) owns and/or operates sixteen facilities in the Bloomington area, including Corporate South (CS), the site that is the subject of this CAAPP permit. Unlike the other State Farm facilities in Bloomington, CS is a data processing center that includes administrative services that support the primary data processing activity of the facility. In fact, CS could be located anywhere because its primary activity is data processing.

Because State Farm owns and/or operates multiple facilities in Bloomington, Illinois, EPA evaluated whether the facilities are single or separate sources for permitting purposes. Illinois EPA has determined that CS is a separate source from the other State Farm owned or operated facilities in Bloomington. In evaluating State Farm's sites, Illinois EPA considered the following factors: (1) whether the facilities share the same two digit Standard Industrial Classification (SIC) code; (2) whether the facilities are located on one or more contiguous or adjacent properties; and, (3) whether the facilities are under common control. Finally, Illinois EPA also considered whether any of the facilities are a support facility to CS.

As discussed in more detail below, all the facilities have a different SIC code than CS (7374 for computer processing and data preparation and processing services). All the facilities, including CS, are under common control because

State Farm owns and/or operates all of the sites. Finally, all of the facilities may be deemed contiguous or adjacent to CS because they are all located within 3.2 miles of CS.

Corporate Headquarters

A single source review was performed pertaining to Corporate Headquarters (HQ), located at One State Farm Plaza, 61710, and it was determined to be a separate source from CS. The rationale for this decision is as follows:

- HQ belongs to a different SIC code (63 for Insurance Carriers) than CS;
- HQ may be contiguous or adjacent to CS (0.8 miles from CS);
- HQ and CS are under common control of State Farm; and
- HQ houses core functions of the insurance-related activities, including life insurance, health insurance and claims. The primary activity at HQ is insurance carrier services. HQ does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although HQ and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, HQ is a separate source from CS.

Airport Hangar

A single source review was performed pertaining to the Airport Hangar, located at Route 9, 61704, and it was determined to be a separate source from CS. The Airport Hangar is solely used for aircraft storage, and activities at the site include building maintenance, rolling the aircraft in and out of the hangar, and cleaning the aircraft. The rationale for this decision is as follows:

- The Airport Hangar belongs to a different SIC code (4581 for Airports, Flying Fields, and Airport Terminal Services, including aircraft storage at airports and hangar operation) than CS;
- The Airport Hangar may be contiguous or adjacent to CS (3.2 miles from CS);
- The Airport Hanger and CS are under common control of State Farm; and
- The Airport Hangar does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although the Airport Hanger and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, the Airport Hangar is a separate source from CS.

State Farm Park

A single source review was performed pertaining to State Farm Park

(SFP), located at 202 East Hamilton Road, 61704, and it was determined to be a separate source from CS. The site is a park facility used primarily for recreational purposes by State Farm employees. The rationale for this decision is as follows:

- SFP belongs to a different SIC code (79 for Amusement and Recreation Services) than CS;
- SFP may be contiguous or adjacent to CS (1.6 miles from CS);
- SFP and CS are under common control of State Farm; and
- Although SFP is primarily used for recreational purposes by State Farm employees, there are meeting rooms on the upper level of the park building. SFP is located near the other State Farm sites and employees of State Farm work at this location. However, SFP does not provide or receive production or services to or from any of the other sites. Thus, it is not a support facility of CS.

Although SFP and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, SFP is a separate source from CS.

Flex I

A single source review was performed pertaining to Flex I, located at 1507 Rhodes Lane, 61704, and it was determined to be a separate source from CS. This site is a storage facility. The rationale for this decision is as follows:

- Flex I belongs to a different SIC code (4225 for General Warehousing and Storage) than CS;
- Flex I may be contiguous or adjacent to CS (1.0 miles from CS);
- Flex I and CS are under common control of State Farm; and
- Flex I is a storage facility primarily used for emergency operations equipment that is reserved for disaster sites. It could be located anywhere as it is merely a storage facility. This site does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although Flex I and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Flex I is a separate source from CS.

Flex II

A single source review was performed pertaining to Flex II, located at 1509 Rhodes Lane, 61704, and it was determined to be a separate source from CS. Flex II is a storage facility. The rationale for this decision is as follows:

- Flex II belongs to a different SIC code (4225 for General Warehousing and Storage) than CS;
- Flex II may be contiguous or adjacent to CS (1.0 miles from CS);

- Flex II and CS are under common control of State Farm; and
- Flex II is a storage facility for claims, evidence, and public affairs materials. The facility also stores supplies and houses file and legal review. This site could be located anywhere as it is merely a storage facility. Thus, it is not a support facility of CS.

Although Flex II and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Flex II is a separate source from CS.

GE Building

A single source review was performed pertaining to GE Building, located at 1702 General Electric Road, Unit 2, 61704, and it was determined to be a separate source from CS. This is a leased site used for storage. The rationale for this decision is as follows:

- GE Building belongs to a different SIC code (4225 for General Warehousing and Storage) than CS;
- GE Building may be contiguous or adjacent to CS (2.9 miles from CS);
- GE Building and CS are under common control of State Farm; and
- State Farm leases this site and uses it as a storage facility for convention and travel materials. GE building could be located anywhere as it is merely a storage facility. It does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although GE Building and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, GE Building is a separate source from CS.

Hamilton Road Building

A single source review was performed pertaining to Hamilton Road Building, located at 1715 East Hamilton Road, 61704, and it was determined to be a separate source from CS. This site is a leased storage facility. The rationale for this decision is as follows:

- Hamilton Road Building belongs to a different SIC code (4225 for General Warehousing and Storage) than CS;
- Hamilton Road Building may be contiguous or adjacent to CS (0.4 miles from CS);
- Hamilton Road Building and CS are under common control of State Farm; and
- State Farm leases this site and uses it as a storage facility for office furniture. This site could be located anywhere as it is merely a storage facility. It does not provide or receive

production or services to or from the other sites. Thus, it is not a support facility of CS.

Although Hamilton Road Building and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Hamilton Road Building is a separate source from CS.

Research Lab

A single source review was performed pertaining to the Research Lab, located at 1501 Rhodes Lane, 61704, and it was determined to be a separate source from CS. This site is a research and testing facility. The rationale for this decision is as follows:

- The Research Lab belongs to a different SIC code (87 for Engineering, Accounting, Research, Management, and Related Services) than CS;
- The Research Lab may be contiguous or adjacent to CS (1.0 miles from CS);
- The Research Lab and CS are under common control of State Farm; and
- The Research Lab is a research facility for testing appliances and other materials/objects. This site could be located anywhere as it is merely a research facility. This site does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although the Research Lab and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, the Research Lab is a separate source from CS.

MRSF Central

A single source review was performed pertaining to MRSF Central, located at 2202 Graf Drive, 61704, and it was determined to be a separate source from CS. This site is a storage facility. The rationale for this decision is as follows:

- MRSF Central belongs to a different SIC code (4225 for General Warehousing and Storage) than CS;
- MRSF Central may be contiguous or adjacent to CS (adjacent to CS);
- MRSF Central and CS are under common control of State Farm; and
- MRSF is a storage facility for multiple regions. This site also houses printing equipment for printing forms, fliers, and direct marketing materials. (These activities, belonging to SIC code 7331, are not the primary activities at the site.) This site could be located anywhere as it is merely a storage facility. It does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although MRSF Central and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, MRSF Central is a separate source from CS.

Executive Building

A single source review was performed pertaining to Executive Building located at 2207 East Washington Street, 61701, and it was determined to be a separate source from CS. This site houses computer maintenance and technical support. The rationale for this decision is as follows:

- Executive Building belongs to the same two digit SIC code (73 (7378) for Computer Programming, Data Processing, and Other Computer Related Services, including computer repair and maintenance) as CS;
- Executive Building may be contiguous or adjacent to CS (1.3 miles from CS);
- Executive Building and CS are under common control of State Farm; and
- The primary activity at this site is providing technical support services for computers at all sites, including systems support for the data center at CS. Primarily, employees at this site respond to requests for computer hardware maintenance from employees at other sites. Although, on occasion, employees from Executive Building may service the computers at CS, the majority of Executive Building's activities are not directed toward CS. Thus, it is not a support facility of CS.

Although Executive Building and CS are under common control, may be contiguous or adjacent, and belong to the same two digit SIC codes, they are not support facilities to each other. Therefore, Executive Building is a separate source from CS.

Hershey Road Building

A single source review was performed pertaining to Hershey Road Building, located at 304 North Hershey Road, 61704, and it was determined to be a separate source from CS. This site consists of meeting rooms. The rationale for this decision is as follows:

- Hershey Road Building belongs to a different SIC code (99 for Non-Classifiable Establishments) than CS;
- Hershey Road Building may be contiguous or adjacent to CS (1.8 miles from CS);
- Hershey Road Building and CS are under common control of State Farm; and
- This site is primarily used for meeting rooms for employees. Although this site has to be located close to employees, it does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although Hershey Road Building and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Hershey Road Building is a separate source from CS.

Lincoln Building

A single source review was performed pertaining to Lincoln Building, 2205 East Washington Street, 61701, and it was determined to be a separate source from CS. This site houses State Farm Bank (SFB). The rationale for this decision is as follows:

- Lincoln Building belongs to a different SIC code (6035 for Federally Chartered Savings Institutions) than CS;
- Lincoln Building may be contiguous or adjacent to CS (1.3 miles from CS);
- Lincoln Building and CS are under common control of State Farm; and
- Lincoln Building houses human resources activities; however, the primary activity at this site is SFB. Although SFB's activities are primarily housed at this site, there are employees who undertake SFB activities at other sites. SFB does not provide or receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although Lincoln Building and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Lincoln Building is a separate source from CS.

Downtown Building

A single source review was performed pertaining to Downtown Building located at 112 East Washington Street, 61701, and it was determined to be a separate source from CS. This site houses personnel who perform audits. The rationale for this decision is as follows:

- Downtown Building belongs to a different SIC code (87 Engineering, Accounting, Research, Management, and Related Services) than CS;
- Downtown Building may be contiguous or adjacent to CS (3.0 miles from CS);
- Downtown Building and CS are under common control of State Farm; and
- Downtown Building houses the personnel that conduct internal audits of the whole organization. These employees do as much or more work outside of the Bloomington area as they do in the Bloomington area. This site also houses the subrogation unit, as well as a call center for collections. These activities at Downtown Building are truly organizational in nature. Downtown Building's primary activity is internal audits, and it does not provide or receive production or services to or from other sites. Thus, it is not a support facility of CS.

Although Downtown Building and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, Downtown Building is a separate source from CS.

Oakland Avenue Building

A single source review was performed pertaining to Oakland Avenue Building (OAB), located at 2309 East Oakland Avenue, 61701, and it was determined to be a separate source from CS. This site houses training activities. The rationale for this decision is as follows:

- OAB belongs to a different SIC code (8299 for Schools and Educational Services, Not Elsewhere Classified, including continuing education programs; and 8734 for Testing Laboratories) than CS;
- OAB may be contiguous or adjacent to CS (1,000 feet from CS);
- OAB and CS are under common control of State Farm; and
- OAB is used mainly to provide training for employees in automobile and homeowner claims and includes training areas consisting of automobiles in varying stages of disrepair and a house constructed of various materials. This site also houses small and large classrooms and a testing center. Employees from all over the country use this facility for training, taking exams, and/or for meetings. At any time, at least half of the people at the site are from outside the Bloomington area. This site could be located anywhere. Other activities at the site include research and development for vehicle painting and dismantling automobiles. Thus, this site is not a support facility of CS.

Although OAB and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, OAB is a separate source from CS.

Illinois Operations Center

A single source review was performed pertaining to Illinois Operations Center (IOC), located at 2702 Ireland Grove Road, 61709, and it was determined to be a separate source from CS. This site provides insurance support to three states. The rationale for this decision is as follows:

- IOC belongs to a different SIC code (64 for Insurance Agents, Brokers, and Service) than CS;
- IOC may be contiguous or adjacent to CS (adjacent to CS);
- IOC and CS are under common control of State Farm; and
- This site is a Zone Office, which means that the activities at IOC provide support to State Farm customers in individual states. The IOC provides support for the Great Lakes Zone (IL, IN, and MI). This site could be located anywhere in IL, IN or MI as it provides customer support for the Great Lake Zone. It does not provide or

receive production or services to or from the other sites. Thus, it is not a support facility of CS.

Although IOC and CS are under common control and may be contiguous or adjacent, they belong to different SIC codes and are not support facilities to each other. Therefore, IOC is a separate source from CS.

2.4 Ambient Air Quality Status for the Area

The source is located in an area that as of the date of permit issuance designated attainment or unclassifiable for the National Ambient Air Quality Standards for all criteria pollutants (carbon monoxide, lead, nitrogen dioxide, ozone, PM_{2.5}, PM₁₀, sulfur dioxide). (See 40 CFR Part 81 - Designation of Areas for Air Quality Planning Purposes)

2.5 Source Status

The source requires a CAAPP permit because this source is considered major (based on its PTE) for the following regulated pollutants: nitrogen oxides.

This source is considered a natural minor for the following regulated pollutants: hazardous air pollutant (HAP).

Based on available data, this source is a major source of emissions for GHG, because the estimated potential emissions of GHG that are more than 100 tons per year (mass) and 100,000 tons per year (CO₂e). State Farm Mutual Automobile Insurance Co. submitted data in its application for which the Illinois EPA estimated the PTE of GHG emissions to be 161,536.27 tons per year. The emissions consist of 161,260.33 tons of CO₂, 91.91 tons of N₂O, and 211.04 tons of methane.

This source is not currently subject to any "applicable requirements," as defined by Section 39.5(1) of the Act, for emissions of greenhouse gases (GHG) as defined by 40 CFR 86.1818-12(a), as referenced by 40 CFR 52.21(b)(49)(i). There are no GHG-related requirements under the Illinois Environmental Protection Act, Illinois' State Implementation Plan, or the Clean Air Act that apply to this facility, including terms or conditions in a Construction Permit addressing emissions of GHG or BACT for emissions of GHG from a major project at this facility under the PSD rules. In particular, the USEPA's Mandatory Reporting Rule for GHG emissions, 40 CFR Part 98, does not constitute an "applicable requirement" because it was adopted under the authority of Sections 114(a)(1) and 208 of the Clean Air Act. This permit also does not relieve the Permittee from the legal obligation to comply with the relevant provisions of the Mandatory Reporting Rule for this facility.

2.6 Annual Emissions

The following table lists annual emissions (tons) of criteria pollutants for this source, as reported in the Annual Emission Reports (AER) sent to the Illinois EPA:

<i>Pollutant</i>	<i>2010</i>	<i>2009</i>	<i>2008</i>
CO	4.69	4.04	4.54
NO _x	7.47	6.57	7.79
PM	0.38	0.16	0.18
SO ₂	0.08	0.07	0.09
VOM	0.56	0.33	0.39

<i>Pollutant</i>	<i>2010</i>	<i>2009</i>	<i>2008</i>
CO _{2E}	4,411.55	5,368.28	5,929.78
HAP (0)	0	0	0

2.7 Fee Schedule

The following table lists the approved annual fee schedule (tons) submitted in the Source's permit application:

<i>Pollutant</i>	<i>Tons/Year</i>
Volatile Organic Material (VOM)	5.96
Sulfur Dioxide (SO ₂)	13.86
Particulate Matter (PM)	5.45
Nitrogen Oxides (NO _x)	126.15
HAP, not included in VOM or PM (HAP)	----
Total	151.42

2.8 SIP Permit Facts (T1 Limits)

CAAPP Permits must address all "applicable requirements," which includes the terms and conditions of preconstruction permits issued under regulations approved by USEPA in accordance with Title I of the CAA (See definition of applicable requirements in Section 39.5(1) of the Illinois Environmental Protection Act). Preconstruction permits, commonly referred to in Illinois as Construction Permits, derive from the New Source Review ("NSR") permit programs required by Title I of the CAA. These programs include the two major NSR permit programs: (1) the Prevention of Significant Deterioration ("PSD") program¹ and (2) the nonattainment NSR program.² These programs also encompass state construction permit programs for projects that are not major.

In the CAAPP or Illinois's Title V permit program, the Illinois EPA's practice is to identify requirements that are carried over from an earlier Title I permit into a New or Renewed CAAPP Permit as "TI" conditions (i.e., Title I conditions). Title I Conditions that are revised as part of their incorporation into a CAAPP Permit are further designated as "TIR". Title I Conditions that are newly established through a CAAPP Permit are designated as "TIN". It is important that Title I Conditions be identified in a CAAPP Permit because these conditions will not expire when the CAAPP Permit expires. Because the underlying authority for Title I Conditions comes from Title I of the CAA and their initial establishment in Title I Permits, the effectiveness of T1 Conditions derives from Title I of the CAA rather than being linked to Title V of the A. For "changes" to be made to Title I Conditions, they must either cease to be applicable based on obvious circumstances, e.g., the subject emission unit is permanently shut down, or appropriate Title I procedures must be followed to change the conditions.

- Previously Incorporated Construction Permits:

<i>Permit No.</i>	<i>Date Issued</i>	<i>Subject</i>
99110094	1/5/2000	Natural Gas Fired Boilers

- Newly Issued Construction Permits:

<i>Permit No.</i>	<i>Date Issued</i>	<i>Subject</i>
01080025	8/2002	Natural Gas Fired Boiler with Distillate Fuel Oil Backup
10030016	April/2010	Natural Gas Fired Boilers
04090053	March/2005	Distillate Fuel Oil Fired Emergency Engines

- There are no newly issued Construction Permits for projects not yet constructed for this source.
- The Illinois EPA has not established any T1R or T1N Limits in this Draft CAAPP permit.
- There are no extraneous or obsolete T1 conditions for the source.

CHAPTER III - SUPPLEMENTAL DISCUSSIONS REGARDING THE PERMIT

The information provided in this Chapter of the Statement of Basis is being provided to assist interested parties in understanding what additional information may have been relied on to support this draft CAAPP permit.

3.1 Environmental Justice Discussions

This location has not been identified as a potential concern for Environmental Justice consideration.

3.2 Emission Testing Results

The source, at the time of this draft permit, has not been required to perform any emissions testing.

3.3 Compliance Reports (Annual Certifications, Semiannual Monitoring, NESHAP, etc.)

A review of the source's compliance reports demonstrates the sources ability to comply with all applicable requirements.

3.4 Field Inspection Results

A review of the source's latest field inspection report demonstrates the source's ability to comply with all applicable requirements.

3.5 Historical Non-Compliance

There is no historical non-compliance for this source.

3.6 Source Wide Justifications and Rationale

Applicable Requirements Summary		
Applicable Requirement	Type	Location
Fugitive Particulate Matter (35 IAC 212.301 and 35 IAC 212.314)	Applicable Standard	See the Permit, Condition 3.1(a)

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 3.1(a)(ii))
 - o If required, daily observations for a week for PM emissions.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.

Non-Applicability Discussion

Complex source-wide non-applicability determinations were not made for this source.

Prompt Reporting Discussion

Prompt reporting of deviations for source wide emission units has been established as 30 days. See rationale in Chapter III Section 8.

3.7 Emission Unit Justifications and Rationale

a. Distillate Fuel Oil Fired Emergency Engines EG-1N, EG-2N, EG-3N		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.1.2(a)
SO ₂ Requirement 35 IAC 214.301	Applicable Standard	See the Permit, Condition 4.1.2(b)
NO _x Limitation	Applicable Limit	See the Permit, Condition 4.1.2(c)
HAP Requirements 40 CFR 63.6580	Applicable Standard	See the Permit, Condition 4.1.2(d)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.1.2(e)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.1.2(f)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.1.2(a)(ii)(A) and (f)(ii)(A))
 - o For each engine Method 9 measurements conducted based on hours of operation
 - o Monthly Inspections
- ✓ Recordkeeping as follows (Condition 4.1.2(a)(ii)(B) and (f)(ii)(B)):
 - o Records of each Method 9 measurements
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.1.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for engines that combust distillate fuel oil. The likelihood of distillate fuel oil fired engines violating opacity is small. It should also be

noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas engines. These records would help the Illinois EPA determine if the distillate fuel oil fired engines are being operated properly and therefore would result in opacity being minimized. Because these engines use distillate fuel oil that contains low PM content and coupled with the engine monthly inspections, engine efficiency is maintained reducing the likelihood of visible emissions.

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.1.2(b)(ii)(A) and (f)(ii)(A))
 - o Monthly inspections of the engines
- ✓ Recordkeeping as follows (Condition 4.1.2(b)(ii)(B) and (f)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.1.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of distillate fuel oil fired engines violating the sulfur limit is unlikely. The distillate fuel oil has sulfur content limited to levels that would result in SO₂ emissions less than the limit. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the distillate fuel oil fired engines. These records would help the Illinois EPA determine if the distillate fuel oil fired engines are being operated properly and therefore would result in SO₂ being minimized.

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.1.2(c)(ii)(A) and (f)(ii)(A))
 - o Monthly inspections of the engines
- ✓ Recordkeeping as follows (Condition 4.1.2(c)(ii)(B) and (f)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.1.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.

HAP Emission

There are no periodic monitoring requirements that need to be separately addressed because there are no applicable requirements in 40 CFR 63 Subpart ZZZZ for the engines.

Non-Applicability Discussion

The Permittee has certified that the engines have not been modified or reconstructed after July 11, 2005. All non-applicability discussions can be found in the CAAPP permit.

Startup/Shutdown/Malfunction-Breakdown Discussion

The source requested and has been granted startup exceptions, see Chapter III Section 5.0.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

b. Distillate Fuel Oil Fired Emergency Engines EG-C1, EG-C2, EG-CD, EG-D1, EG-D2		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.2.2(a)
SO ₂ Requirement 35 IAC 214.301	Applicable Standard	See the Permit, Condition 4.2.2(b)
CO Limitation	Applicable Limit	See the Permit, Condition 4.2.2(c)
NO _x Limitation	Applicable Limit	See the Permit, Condition 4.2.2(d)
HAP Requirements 40 CFR 63.6580	Applicable Standard	See the Permit, Condition 4.2.2(e)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.2.2(f)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.2.2(g)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.2.2(a)(ii)(A) and (g)(ii)(A))

- o For each engine Method 9 measurements conducted based on hours of operation
- o Monthly Inspections
- ✓ Recordkeeping as follows (Condition 4.2.2(a)(ii)(B) and (g)(ii)(B)):
 - o Records of each Method 9 measurements
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.2.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for engines that combust distillate fuel oil. The likelihood of distillate fuel oil fired engines violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas engines. These records would help the Illinois EPA determine if the distillate fuel oil fired engines are being operated properly and therefore would result in opacity being minimized. Because these engines use distillate fuel oil that contains low PM content and coupled with the engine monthly inspections, engine efficiency is maintained reducing the likelihood of visible emissions.

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.2.2(b)(ii)(A) and (g)(ii)(A))
 - o Monthly inspections of the engines
- ✓ Recordkeeping as follows (Condition 4.2.2(b)(ii)(B) and (g)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.2.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.

- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of distillate fuel oil fired engines violating the sulfur limit is unlikely. The distillate fuel oil has sulfur content limited to levels that would result in SO₂ emissions less than the limit. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the distillate fuel oil fired engines. These records would help the Illinois EPA determine if the distillate fuel oil fired engines are being operated properly and therefore would result in SO₂ being minimized.

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.2.2(c)(ii)(A) and (g)(ii)(A))
 - o Monthly inspections of the engines
- ✓ Recordkeeping as follows (Condition 4.2.2(c)(ii)(B) and (g)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.2.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of distillate fuel oil fired engines violating the CO limit is unlikely. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the distillate fuel oil fired engines. These records would help the Illinois EPA determine if the distillate fuel oil fired engines are being operated properly and therefore would result in CO being minimized.

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.2.2(d)(ii)(A) and (g)(ii)(A))
 - o Monthly inspections of the engines
- ✓ Recordkeeping as follows (Condition 4.2.2(d)(ii)(B) and (g)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.2.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.

HAP Emission

There are no periodic monitoring requirements that need to be separately addressed because there are no applicable requirements in 40 CFR 63 Subpart ZZZZ for the engines.

Non-Applicability Discussion

The Permittee has certified that the engines have not been modified or reconstructed after July 11, 2005. All non-applicability discussions can be found in the CAAPP permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

c. Natural Gas Boilers 1S and 2S (NSPS Dc)		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.3.2(a)
CO Requirement 35 IAC 216.121	Applicable Standard	See the Permit, Condition 4.3.2(b)
Operational and Production Requirements and 40 CFR 60 Subparts A and Dc	Applicable Operational and Production Limits	See the Permit, Condition 4.3.2(c)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.3.2(d)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.3.2(a)(ii)(A) and (f)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections

- ✓ Recordkeeping as follows (Condition 4.3.2(a)(ii)(B) and (f)(ii)(B)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.3.5(a)):

- o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for boilers that combust natural gas. The likelihood of a natural gas boiler violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas boilers. These records would help the Illinois EPA determine if the natural gas boiler are being operated properly and therefore would result in opacity being minimized. Because these boilers use pipeline quality natural gas, which contains low PM content and coupled with monthly operational inspections, ensure boiler efficiencies to reduce the likelihood of visible emissions.

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.3.2(d)(ii)(A) and (f)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.3.2(d)(ii)(B) and (f)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.3.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boilers violating CO is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers are being operated properly and therefore would result in CO being minimized. The use of pipeline quality natural gas that contains low PM content and coupled with the boilers monthly

inspections, boilers efficiency is maintained reducing the likelihood of CO emissions.

Non-Applicability Discussion

- The Permittee has certified that the boilers are gas-fired boilers as defined in 40 CFR 63.11195(e). All non-applicability discussions can be found in the CAAPP permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

d. Natural Gas Boiler B-1SG		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.4.2(a)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.4.2(c)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.4.2(d)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.4.2(a)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections
- ✓ Recordkeeping as follows (Condition 4.4.2(a)(ii)(B)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.4.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for boiler that combust natural gas. The likelihood of natural gas boiler violating opacity is small. It should also be noted that the source is also

required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas boiler. These records would help the Illinois EPA determine if the natural gas boiler are being operated properly and therefore would result in opacity being minimized. Because these engines use pipeline quality natural gas, which contains low PM content and coupled with monthly operational inspections, ensure boiler efficiencies to reduce the likelihood of visible emissions.

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

e. Natural Gas Boiler B-2SG with Distillate Fuel Oil Backup		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.5.2(a)
PM Requirement 35 IAC 212.206	Applicable Standard	See the Permit, Condition 4.5.2(b)
SO ₂ Requirement 35 IAC 214.122 and limitation	Applicable Standard and Limitation	See the Permit, Condition 4.5.2(c)(i)(A) and (B)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.5.2(d)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.5.2(e)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.5.2(a)(ii)(A) and (e)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections

- ✓ Recordkeeping as follows (Condition 4.5.2(a)(ii)(B) and (e)(ii)(B)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.5.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for boilers that combust natural gas with distillate fuel oil as emergency backup. The likelihood of natural gas boiler with distillate fuel oil as emergency backup violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the natural gas boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in opacity being minimized.

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.5.2(b)(ii)(A) and (f)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.5.2(b)(ii)(B) and (f)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.5.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating PM is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in PM being minimized. The use of pipeline quality natural gas and because these boiler use distillate fuel oil that contains low PM content and coupled with the boiler monthly inspections, boiler efficiency is maintained reducing the likelihood of PM emissions.

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.5.2(c)(ii)(A) and (f)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.5.2(c)(ii)(B) and (f)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.5.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating SO₂ is small. It should also be noted that the source is also required to maintain the type of fuel used, sulfur content (weight %), maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in SO₂ being minimized. The use of pipeline quality natural gas and because this boiler use distillate fuel oil that contains low SO₂ content and coupled with the boilers monthly inspections, boiler efficiency is maintained reducing the likelihood of SO₂ emissions.

Non-Applicability Discussion

- The Permittee has certified that the boilers are gas-fired boilers as defined in 40 CFR 63.11237 and are limited to 48 hours per calendar year when distillate fuel oil is fired. All non-applicability discussions can be found in the CAAPP permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

f. Natural Gas Boiler B-3S with Distillate Fuel Oil Backup (NSPS Dc)		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.6.2(a)
PM Requirement 35 IAC 212.206 and Limitations	Applicable Standard and Limitation	See the Permit, Condition 4.6.2(b)(i)(A) and (B)

Applicable Requirements Summary		
Applicable Requirement	Type	Location
SO ₂ Requirement 40 CFR 60 Subparts A and Dc, 35 IAC 214.122 and Limitation	Applicable Standard and Limitation	See the Permit, Condition 4.6.2(c)(i)(A), (B), (C) and (D)
VOM Limitation	Applicable Limitation	See the Permit, Condition 4.6.2(d)
CO Requirement 35 IAC 216.121 and Limitation	Applicable Standard and Limitation	See the Permit, Condition 4.6.2(e)(i)(A) and (B)
NO _x Limitation	Applicable Limitation	See the Permit, Condition 4.6.2(f)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.6.2(g)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.6.2(h)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.6.2(a)(ii)(A) and (h)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections

- ✓ Recordkeeping as follows (Condition 4.6.2(a)(ii)(A) and (h)(ii)(A)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for boilers that combust natural gas with distillate fuel oil as emergency backup. The likelihood of natural gas boiler with distillate fuel oil as emergency backup violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the natural gas

boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in opacity being minimized.

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.6.2(b)(ii)(A) and (e)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.6.2(b)(ii)(B) and (e)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating PM is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in PM being minimized. The use of pipeline quality natural gas and because these boiler use distillate fuel oil that contains low PM content and coupled with the boiler monthly inspections, boiler efficiency is maintained reducing the likelihood of PM emissions.

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.6.2(c)(ii)(A) and (e)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.6.2(c)(ii)(B) and (e)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.

- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating SO₂ is small. It should also be noted that the source is also required to maintain the type of fuel used, sulfur content (weight %), maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boiler with distillate fuel oil as emergency backup are being operated properly and therefore would result in SO₂ being minimized. The use of pipeline quality natural gas and because this boiler use distillate fuel oil that contains low SO₂ content and coupled with the boilers monthly inspections, boiler efficiency is maintained reducing the likelihood of SO₂ emissions.

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.6.2(d)(ii)(A) and (e)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.6.2(d)(ii)(B) and (e)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating CO is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with distillate fuel oil as emergency backup are being operated properly and therefore would result in CO being minimized. The use of pipeline quality natural gas and because this boiler use distillate fuel oil that contains low CO content and coupled with the boiler monthly inspections, boilers efficiency is maintained reducing the likelihood of CO emissions.

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.6.2(e)(ii)(A) and (e)(ii)(A))

- o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.6.2(e)(ii)(B) and (e)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating NO_x is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with distillate fuel oil as emergency backup are being operated properly and therefore would result in NO_x being minimized. The use of pipeline quality natural gas and because this boiler use distillate fuel oil that contains low NO_x content and coupled with the boiler monthly inspections, boilers efficiency is maintained reducing the likelihood of NO_x emissions.

Organic Material Emission

- ✓ Monitoring as follows (Condition 4.6.2(f)(ii)(A) and (e)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.6.2(f)(ii)(B) and (e)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.6.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler with distillate fuel oil as emergency backup violating VOM is small. It should also be

noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler with distillate fuel oil as emergency backup. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with distillate fuel oil as emergency backup are being operated properly and therefore would result in being minimized. The use of pipeline quality natural gas and because this boiler use distillate fuel oil that contains low VOM content and coupled with the boiler monthly inspections, boilers efficiency is maintained reducing the likelihood of VOM emissions.

Non-Applicability Discussion

- The Permittee has certified that the boilers are gas-fired boilers as defined in 40 CFR 63.11237 and are limited to 48 hours per calendar year when distillate fuel oil is fired. All non-applicability discussions can be found in the CAAPP permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

g. Natural Gas Boiler B-1PS		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.7.2(a)
NO _x Limitation	Applicable Limitation	See the Permit, Condition 4.7.2(b)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.7.2(c)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.7.2(d)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.7.2(a)(ii)(A) and (d)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections

- ✓ Recordkeeping as follows (Condition 4.7.2(a)(ii)(B) and (d)(ii)(B)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.7.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 30% opacity limit for boiler that combust natural gas. The likelihood of natural gas boiler violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the natural gas boiler. These records would help the Illinois EPA determine if the natural gas boiler are being operated properly and therefore would result in opacity being minimized. Because these engines use pipeline quality natural gas, which contains low PM content and coupled with monthly operational inspections, ensure boiler efficiencies to reduce the likelihood of visible emissions.

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.7.2(b)(ii)(A) and (d)(ii)(A))
 - o Monthly inspections of the boiler
- ✓ Recordkeeping as follows (Condition 4.7.2(b)(ii)(B) and (d)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.7.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category.
- The likelihood of pipeline quality natural gas boiler violating NO_x is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boiler. These records would help the Illinois EPA determine if the pipeline quality natural gas boiler is being operated properly and therefore would result in NO_x being minimized. The use of pipeline quality natural gas that contains low NO_x content and coupled with the boiler monthly inspections, boiler efficiency is maintained reducing the likelihood of NO_x emissions.

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

h. Natural Gas Boilers B-2PS and B-3SG (NSPS Dc)		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Opacity Requirements (35 IAC 212.123(a))	Applicable Standard	See the Permit, Condition 4.8.2(a)
PM Limitation	Applicable Limitation	See the Permit, Condition 4.8.2(b)
SO2 Limitation	Applicable Limitation	See the Permit, Condition 4.8.2(c)
VOM Limitation	Applicable Limitation	See the Permit, Condition 4.8.2(d)
CO Requirement 35 IAC 216.121 and Limitation	Applicable Standard and Limitation	See the Permit, Condition 4.8.2(e)(i)(A) and (B)
NO _x Limitation	Applicable Limitation	See the Permit, Condition 4.8.2(f)
HAP Requirements Limitation	Applicable Limitation	See the Permit, Condition 4.8.2(g)(i)(A)
Operational and Production Requirements	Applicable Operational and Production Limits	See the Permit, Condition 4.8.2(h)(i)(A), (B), (C) and (D)
Work Practice Requirement	Applicable Work Practice	See the Permit, Condition 4.8.2(i)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.8.2(a)(ii)(A) and (i)(ii)(A))
 - o Annual Method 22 observations
 - o If required, Method 9 measurements
 - o Monthly Inspections

- ✓ Recordkeeping as follows (Condition 4.8.2(a)(ii)(B) and (i)(ii)(B)):
 - o Records of each Method 22 observation
 - o If required, records of each Method 9 measurement
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. Annual observations of opacity, including records of these observations, are sufficient to verify compliance with the 20% opacity limit for boilers with low NO_x burners that combust pipeline quality natural gas. The likelihood of natural gas boilers with low NO_x burners violating opacity is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in opacity being minimized.

Particulate Matter Emission

- ✓ Monitoring as follows (Condition 4.8.2(b)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(b)(ii)(B) and (i)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 day. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating PM is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in PM being minimized.

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.8.2(c)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(c)(ii)(B) and (i)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection

- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating SO₂ is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in SO₂ being minimized.

Carbon Monoxide Emissions

- ✓ Monitoring as follows (Condition 4.8.2(d)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(d)(ii)(B) and (i)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating CO is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in CO being minimized.

Nitrogen Oxides Emissions

- ✓ Monitoring as follows (Condition 4.8.2(e)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(e)(ii)(B) and (i)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating NO_x is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in NO_x being minimized.

Organic Material Emission

- ✓ Monitoring as follows (Condition 4.8.2(f)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(f)(ii)(B) and (i)(ii)(B)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating VOM is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection

records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in VOM being minimized.

HAP Emission

- ✓ Monitoring as follows (Condition 4.8.2(g)(ii)(A) and (i)(ii)(A))
 - o Monthly inspections of the boilers
- ✓ Recordkeeping as follows (Condition 4.8.2(g)(ii)(A) and (i)(ii)(A)):
 - o Type of fuel used
 - o Records of each inspection
- ✓ Reporting as follows (Condition 4.8.5(a)):
 - o Prompt reporting within 30 days. See rationale in Chapter III Section 8.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for these emission units because:

- There is a small likelihood of an exceedance.
- Emissions do not vary significantly under normal operation and/or vary slowly with time.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with other sources in this source category. The likelihood of pipeline quality natural gas boilers with low NO_x burners violating HAPs is small. It should also be noted that the source is also required to maintain the type of fuel used, maintain inspection records, and maintain maintenance and repair logs of the pipeline quality natural gas boilers with low NO_x burners. These records would help the Illinois EPA determine if the pipeline quality natural gas boilers with low NO_x burners are being operated properly and therefore would result in HAPs being minimized.

Non-Applicability Discussion

Complex non-applicability determinations were not made for this emission unit. All non-applicability discussions can be found in the Draft CAAPP Permit.

Prompt Reporting Discussion

Prompt reporting of deviations has been established as 30 days. See rationale in Chapter III Section 8.

3.8 Insignificant Activities Discussion

There are no insignificant activities for the source subject to specific regulations which are obligated to comply with Sections 9.1(d) and Section 39.5 of the Act; Sections 165, 173, and 502 of the Clean Air Act; or any other applicable permit or registration requirements and therefore there are no periodic monitoring requirements that need to be separately addressed.

National Emission Standards for Hazardous Air Pollutants (NESHAP)

There are no periodic monitoring requirements that need to be separately addressed because 40 CFR 63 Subpart ZZZZ for the engines contain appropriate periodic monitoring requirements.

3.9 Prompt Reporting Discussion

Among other terms and conditions, CAAPP Permits contain reporting obligations to assure compliance with applicable requirements. These reporting obligations are generally four-fold. More specifically, each CAAPP Permit sets forth any reporting requirements specified by state or federal law or regulation, requires prompt reports of deviations from applicable requirements, requires reports of deviations from required monitoring and requires a report certifying the status of compliance with terms and conditions of the CAAPP Permit over the calendar year.

The number and frequency of reporting obligations in any CAAPP Permit is source-specific. That is, the reporting obligations are directly related to factors, including the number and type of emission units and applicable requirements, the complexity of the source and the compliance status. This four-fold approach to reporting is common to virtually all CAAPP Permits as described below. Moreover, this is the approach established in the Draft CAAPP Permit for this source.

Regulatory Reports

Many state and federal environmental regulations establish reporting obligations. These obligations vary from rule-to-rule and thus from CAAPP source to CAAPP source and from CAAPP Permit to CAAPP Permit. The variation is found in the report triggering events, reporting period, reporting frequency and reporting content. Regardless, the CAAPP makes clear that all reports established under applicable regulations shall be carried forward into the CAAPP Permit as stated in Section 39.5(7)(b) of the Illinois Environmental Protection Act. Generally, where sufficiently detailed to meet the exacting standards of the CAAPP, the regulatory reporting requirements are simply restated in the CAAPP Permit. Depending on the regulatory obligations, these regulatory reports may also constitute a deviation report as described below.

The Draft CAAPP Permit for this source would embody all regulatory reporting as promulgated under federal and state regulations under the Clean Air Act and the Illinois Environmental Protection Act. Depending on the frequency of the report, the regulatory report may also satisfy the prompt reporting obligations discussed below. These reports must be certified by a responsible official.

These reports are generally found in the reporting sections for each emission unit group. The various regulatory reporting requirements are summarized in the table at the end of this Reporting Section.

Deviation Reports (Prompt Reporting)

Section 39.5(7)(f)(ii) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require prompt reporting of deviations from the permit requirements.

Neither the CAAPP nor the federal rules upon which the CAAPP is based and was approved by USEPA define the term "prompt". Rather, 40 CFR Part

70.6(a)(3)(iii)(B) intended that the term have flexibility in application. The USEPA has acknowledged for purposes of administrative efficiency and clarity that the permitting authority (in this case, Illinois EPA) has the discretion to define "prompt" in relation to the degree and type of deviation likely to occur at a particular source. The Illinois EPA follows this approach and defines prompt reporting on a permit-by-permit basis. In instances where the underlying applicable requirement contains "prompt" reporting, the Illinois EPA typically incorporates the pre-established timeframe in the CAAPP permit (e.g. a NESHAP or NSPS deviation report). Where the underlying applicable requirement fails to explicitly set forth the timeframe for reporting deviations, the Illinois EPA generally uses a timeframe of 30 days to define prompt reporting of deviations.

This approach to prompt reporting of deviations as discussed herein is consistent with the requirements of Section 39.5(7)(f)(ii) of the Illinois Environmental Protection Act as well as 40 CFR Part 70 and the CAA. The reporting arrangement is designed so that the source will appropriately notify the Illinois EPA of those events that might warrant attention. The timing for these event-specific notifications is necessary and appropriate as it gives the source enough time to conduct a thorough investigation into the causes of an event, collecting any necessary data, and developing preventive measures, to reduce the likelihood of similar events, all of which must be addressed in the notification for the deviation, while at the same time affording regulatory authority and the public timely and relevant information. The approach also affords the Illinois EPA and USEPA an opportunity to direct investigation and follow-up activities, and to make compliance and enforcement decisions in a timely fashion.

The Draft CAAPP Permit for this source would require prompt reporting as required by the Illinois Environmental Protection Act in the fashion described in this subsection. In addition, pursuant to Section 39.5(7)(f)(i) of the Illinois Environmental Protection Act, this Draft CAAPP Permit would also require the source to provide a summary of all deviations with the Semi-Annual Monitoring Report. These reports must be certified by a responsible official, and are generally found in the reporting sections for each emission unit group.

Semi-Annual Monitoring Reports

Section 39.5(7)(f)(i) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require a report relative to monitoring obligations as set forth in the permit. Depending upon the monitoring obligation at issue, the semi-annual monitoring report may also constitute a deviation report as previously discussed. This monitoring at issue includes instrumental and non-instrumental emissions monitoring, emissions analyses, and emissions testing established by state or federal laws or regulations or as established in the CAAPP Permit. This monitoring also includes recordkeeping. Each deviation from each monitoring requirement must be identified in the relevant semi-annual report. These reports provide a timely opportunity to assess for compliance patterns of concern. The semi-annual reports shall be submitted regardless of any deviation events. Reporting periods for semi-annual monitoring reports are January 1 through June 30 and July 1 through December 31 of each calendar year. Each semi-annual report is due within 30 days after the close of reporting period. The reports shall be certified by a responsible official. The Draft CAAPP Permit for this source would require such reports at Condition 3.5(b).

Annual Compliance Certifications

Section 39.5(7)(p)(v) of the Illinois Environmental Protection Act mandates that each CAAPP Permit require a source to submit a certification of its compliance status with each term and condition of its CAAPP Permit. The reports afford a broad assessment of a CAAPP sources compliance status. The CAAPP requires that this report be submitted, regardless of compliance status, on an annual basis. Each CAAPP Permit requires this annual certification be submitted by May 1 of the year immediately following the calendar year reporting period. The report shall be certified by a responsible official. The Draft CAAPP Permit for this source would require such a report at Condition 2.6(a).

Prompt reporting of deviations is critical in order to have timely notice of deviations and the opportunity to respond, if necessary. The effectiveness of the permit depends upon, among other important elements, timely and accurate reporting. The Illinois EPA, USEPA, and the public rely on timely and accurate reports submitted by the source to measure compliance and to direct investigation and follow-up activities. Prompt reporting is evidence of the source's good faith in disclosing deviations and describing the steps taken to return to compliance and prevent similar incidents.

Any occurrence that results in an excursion from any emission limitation, operating condition, or work practice standard as specified in this Draft CAAPP Permit is a deviation subject to prompt reporting. Additionally, any failure to comply with any permit term or condition is a deviation of that permit term or condition and must be reported to the Illinois EPA as a permit deviation. The deviation may or may not be a violation of an emission limitation or standard. A permit deviation can exist even though other indicators of compliance suggest that no emissions violation or exceedance has occurred. Reporting permit deviations does not necessarily result in enforcement action. The Illinois EPA has the discretion to take enforcement action for permit deviations that may or may not constitute a deviation from an emission limitation or standard or the like, as necessary and appropriate.

As a result, the Illinois EPA's approach to prompt reporting of deviations as discussed herein is consistent with the requirements of Section 39.5(7)(f)(ii) of the Illinois Environmental Protection Act as well as 40 CFR Part 70 and the CAA. This reporting arrangement is designed so that the source will appropriately notify the Illinois EPA of those events that might warrant individual attention.

3.10 Start-up/Shutdown/Malfunction Breakdown Discussion

- SIP Start-up/Malfunction-Breakdown Authorization Discussion

The Illinois EPA does not provide for "automatic exemptions" within CAAPP Permits for operation with excess emissions during malfunction/breakdown or startups. The permits and the language regarding such exemptions are consistent with the Illinois SIP and federal guidance on the topic. An explanation of Illinois' SIP and its permitting practice is provided below.

Illinois' SIP at 35 IAC 201.149 prohibits continued operation of an emission unit during malfunction or breakdown of the unit or associated air pollution control equipment, or startup of an emission unit or associated air pollution control equipment, if such operation would cause a violation of applicable emission standards or limitations absent express permit authorization (emphasis

added). Further provisions pertaining to such permit authorization are set forth in 35 IAC Part 201, Subpart I. These provisions make clear that the process in Illinois for addressing malfunction/breakdown and startup is in two steps. The first step, as set forth at 35 IAC 201.261, consists of seeking authorization by means of an application for permit to prospectively make a claim of malfunction/breakdown or startup. Pursuant to the provisions for malfunction/breakdown, the application shall include an explanation of why continued operation is necessary; the anticipated nature, quantity and duration of emissions; and measures that will be taken to minimize the quantity and duration of emissions. Pursuant to the applicable regulation, for startup, the application shall include a description of the startup procedure, duration, and frequencies of startups, type, and quantity of emissions during startups and efforts to minimize emissions, duration, and frequency. These regulatory requirements are acknowledged by the CAAPP, pursuant to Section 39.5(5)(s) of the Illinois Environmental Protection Act. Absent a request for authorization in an application for a CAAPP Permit that satisfies both the requirements for application content and the standards for granting, and, after Illinois EPA review, an express grant of such authorization in a CAAPP Permit issued by the Illinois EPA, a CAAPP source cannot make a claim of malfunction/breakdown or startup under Illinois regulations.

The second phase of Illinois' process for operation with excess emissions during malfunction/breakdown or startup, as set forth at 35 IAC 201.262, addresses the showing that must be made in order to make a viable claim of malfunction/breakdown or startup. Pursuant to the regulations for malfunction/breakdown, this showing consists of a demonstration that operation was necessary to prevent injury to persons or severe damage to equipment, or was required to provide essential services. There are two elements to the required showing, "need" and "function". For startup, it shall consist of a demonstration that all reasonable efforts have been made to minimize emissions from the startup event, to minimize the duration of the event, and to minimize the frequency of such events. To a certain extent, this showing may be evaluated on past practice. However, this showing is also prospective, like the showing for malfunction/breakdown, as it relates to future events, which and whose exact circumstances are not known, and which, in fact, may or may not occur.

The approach taken by Illinois' regulation can be distinguished from and contrasted with that of the federal NESHAP regulations, under 40 CFR Part 63. These federal regulations address excess emissions during malfunction (and shutdown) or startup without the initial step required by Illinois' rules. This is because all sources are able to claim exclusion from an otherwise applicable standard during a malfunction or startup event. The validity of the claims is then subject to scrutiny by USEPA and the state enforcement authority, as to the acceptability of a source's claim that an incident should qualify for an exemption. That is, that the excess emissions could not be readily prevented and were not contrary to good air pollution control practices. In fact, this case-by-case scrutiny is the second step provided for in Illinois' regulations. This "federal approach" is set forth in the planned revised CAAPP Permit for select emission units that are subject to certain NESHAPs. Violations of applicable NESHAP emission limits are governed by the "federal approach." Violations of emissions standards found in state air pollution control regulations at 35 IAC Subtitle B Chapter I Subchapter c are governed by the SIP approach.

For those units for which this source seeks malfunction/breakdown or startup authorization under Illinois' SIP, the draft CAAPP Permit application contains

complete Forms 204-CAAPP and 203-CAAPP, respectively entitled Request To Continue To Operate During Malfunction and Breakdown and Request To Operate During Startup of Equipment. These forms seek the specific information required by the relevant state regulation. Again, that information is an explanation of why continued operation is necessary; the anticipated nature, quantity and duration of emissions; and measures that will be taken to minimize the quantity and duration of emissions for malfunctions and breakdowns. It is a description of the startup procedure, duration and frequencies of startups, type and quantity of emissions during startups, and efforts to minimize emissions, duration and frequency for start-up. Accordingly, this source seeks malfunction/breakdown as well as startup authorization in accordance with applicable Illinois regulation. Illinois EPA thoroughly reviewed this information against the SIP. Based on its review, the Draft CAAPP Permit would grant authorization to the facility to make a claim of malfunction/breakdown or startup. That the Draft CAAPP Permit affords such authorization, does not equate to an "automatic exemption." The grant of such initial authorization is fully consistent with long standing practice in Illinois permitting and enforcement. Due to the size and complexity of the source and the inability to simply shutdown equipment or the level of hazards associated with improper start-up or shutdown, the source may experience excess emissions due to events that cannot be readily anticipated or reasonably avoided. However, the facility is also fully aware that it may be held accountable for any excess emissions that occur regardless of any such authorization.

Neither the provisions in the SIP nor the provisions in the CAAPP Permit delineating the elements for a viable claim of malfunction/breakdown or startup translate into any advanced determination on excess emissions. Rather, together the regulations and the CAAPP Permit simply provide a framework whereby a source may have an opportunity to make a claim of malfunction/breakdown or startup, with the viability of such claim subject to specific review against the requisite requirements. Indeed, 35 IAC 201.265 clearly states that violating an applicable state standard even if consistent with any expression of authority regarding a malfunction/breakdown or startup set forth in a permit shall only constitute a prima facie defense to an enforcement action for violation of said regulation. The malfunction/breakdown or startup authorization provided in the Draft CAAPP Permit does not provide shields from state emission standards that may be violated during said events. Rather, the source is subject to the applicable limitations or standards on any malfunction/breakdown or startup authorization included within the permit. As a result, any excess emissions during these events would constitute violations potentially subject to enforcement action.

For any source that receives such authorization, the type of authorization (i.e., malfunction/breakdown or startup), the emission units for which authorization has been received, and the conditions under, and manner in which such authorization may be utilized are clearly set forth in the CAAPP Permit. The origin of these authorizations is 35 IAC 201.149.

3.11 Incorporation by Reference Discussion

Based on guidance found in White Paper 2 and past petition responses by the Administrator, it is recognized that Title V permit authorities may, within their discretion, incorporate plans by reference. As recognized in the *White Paper 2*, permit authorities can effectively streamline the contents of a Title V permit, avoiding the inevitable clutter of restated text and preventing unnecessary delays where, as here, permit issuance is subject to a decision deadline.³ However, it is also recognized that the benefits of incorporation

of plans must be carefully balanced by a permit authority with its duty to issue permits in a way that is "clear and meaningful" to the Permittee and the public.⁴

The criteria that are mentioned in USEPA Administrator Petition Responses stress the importance of identifying, *with specificity*, the object of the incorporation.⁵ The Illinois EPA agrees that such emphasis is generally consistent with USEPA's pronouncements in previous guidance.

For each condition incorporating a plan, the Illinois EPA is also briefly describing the general manner in which the plan applies to the source. Identifying the nature of the source activity, the regulatory requirements or the nature of the equipment associated with the plan is a recommendation of the *White Paper 2*⁶. The Illinois EPA has stopped short of enumerating the actual contents of a plan, as restating them in the permit would plainly defeat the purpose of incorporating the document by reference and be contrary to USEPA guidance on the subject.⁷

Plans may need to be revised from time to time, as occasionally required by circumstance or by underlying rule or permit requirement. Except where expressly precluded by the relevant rules, this Draft CAAPP Permit allows the Permittee to make future changes to a plan without undergoing formal permit revision procedures. This approach will allow flexibility to make required changes to a plan without separately applying for a revised permit and, similarly, will lessen the impacts that could result for the Illinois EPA if every change to a plan's contents required a permitting transaction.⁸ Changes to the incorporated plans during the permit term are automatically incorporated into the Draft CAAPP Permit unless the Illinois EPA expresses a written objection.

The Draft CAAPP Permit incorporates by reference the following plans: Work Practices Plan.

3.12 Periodic Monitoring General Discussions

Pursuant to Section 504(c) of the Clean Air Act, a Title V permit must set forth monitoring requirements, commonly referred to as "Periodic Monitoring," to assure compliance with the terms and conditions of the permit. A general discussion of Periodic Monitoring is provided below. The Periodic Monitoring that is proposed for specific operations and emission units and at this source is discussed in Chapter III of this Statement of Basis. Chapter III provides a narrative discussion of and justification for the elements of Periodic Monitoring that would apply to the different emission units and types of emission units at the facility.

As a general matter, the required content of a CAAPP Permit with respect to such Periodic Monitoring is addressed in Section 39.5(7) of the Illinois Environmental Protection Act.⁹ Section 39.5(7)(b) of the Illinois Environmental Protection Act¹⁰ provides that in a CAAPP Permit:

The Agency shall include among such conditions applicable monitoring, reporting, record keeping and compliance certification requirements, as authorized by paragraphs d, e, and f of this subsection, that the Agency deems necessary to assure compliance with the Clean Air Act, the regulations promulgated thereunder, this Act, and applicable Board regulations. When monitoring, reporting, record keeping and compliance certification requirements are specified within the Clean Air Act,

regulations promulgated thereunder, this Act, or applicable regulations, such requirements shall be included within the CAAPP Permit.

Section 39.5(7)(d)(ii) of the Illinois Environmental Protection Act further provides that a CAAPP Permit shall:

Where the applicable requirement does not require periodic testing or instrumental or noninstrumental monitoring (which may consist of recordkeeping designed to serve as monitoring), require Periodic Monitoring sufficient to yield reliable data from the relevant time period that is representative of the source's compliance with the permit ...

Accordingly, the scope of the Periodic Monitoring that must be included in a CAAPP Permit is not restricted to monitoring requirements that were adopted through rulemaking or imposed through permitting. When applicable regulatory emission standards and control requirements or limits and control requirement in relevant Title 1 permits are not accompanied by compliance procedures, it is necessary for Monitoring for these standards, requirements or limits to be established in a CAAPP Permit.^{11, 12} Monitoring requirements must also be established when standards and control requirement are accompanied by compliance procedures but those procedures are not adequate to assure compliance with the applicable standards or requirements.^{13, 14} For this purpose, the requirements for Periodic Monitoring in a CAAPP Permit may include requirements for emission testing, emissions monitoring, operational monitoring, non-instrumental monitoring, and recordkeeping for each emission unit or group of similar units at a facility, as required by rule or permit, as appropriate or as needed to assure compliance with the applicable substantive requirements. Various combinations of monitoring measures will be appropriate for different emission units depending on their circumstances, including the substantive emission standards, limitations and control requirements to which they are subject.

What constitutes sufficient Periodic Monitoring for particular emission units, including the timing or frequency associated with such Monitoring requirements, must be determined by the permitting authority based on its knowledge, experience and judgment.¹⁵ For example, as Periodic Monitoring must collect representative data, the timing of Monitoring requirements need not match the averaging time or compliance period of the associated substantive requirements, as set by the relevant regulations and permit provisions. The timing of the various requirements making up the Periodic Monitoring for an emission unit is something that must be considered when those Monitoring requirements are being established. For this purpose, Periodic Monitoring often consists of requirements that apply on a regular basis, such as routine recordkeeping for the operation of control devices or the implementation of the control practices for an emission unit. For certain units, this regular monitoring may entail "continuous" monitoring of emissions, opacity or key operating parameters of a process or its associated control equipment, with direct measurement and automatic recording of the selected parameter(s). As it is infeasible or impractical to require emissions monitoring for most emission units, instrumental monitoring is more commonly conducted for the operating parameters of an emission unit or its associated control equipment. Monitoring for operating parameter(s) serves to confirm proper operation of equipment, consistent with operation to comply with applicable emission standards and limits. In certain cases, an applicable rule may directly specify that a particular level of an operating parameter be maintained, consistent with the manner in which a unit was being operated during emission testing. Periodic

Monitoring may also consist of requirements that apply on a periodic basis, such as inspections to verify the proper functioning of an emission unit and its associated controls.

The Periodic Monitoring for an emission unit may also include measures, such as emission testing, that would only be required once or only upon specific request by the Illinois EPA. These requirements would always be accompanied by Monitoring requirements would apply on a regular basis. When emission testing or other measure is only required upon request by the Illinois EPA, it is included as part of the Periodic Monitoring for an emission unit to facilitate a response by the Illinois EPA to circumstances that were not contemplated when Monitoring was being established, such as the handling of a new material or a new mode of operation. Such Monitoring would also serve to provide further verification of compliance, along with other potentially useful information. As emission testing provides a quantitative determination of compliance, it would also provide a determination of the margin of compliance with the applicable limit(s) and serve to confirm that the Monitoring required for an emission unit on a regular basis is reliable and appropriate. Such testing might also identify specific values of operating parameters of a unit or its associated control equipment that accompany compliance and can be relied upon as part of regular Monitoring.

There are a number of considerations or factors that are or may be relevant when evaluating the need to establish new monitoring requirements as part of the Periodic Monitoring for an emission unit. These factors include: (1) The nature of the emission unit or process and its emissions; (2) The variability in the operation and the emissions of the unit or process over time; (3) The use of add-on air pollution control equipment or other practices to control emissions and comply with the applicable substantive requirement(s); (4) The nature of that control equipment or those control practices and the potential for variability in their effectiveness; (5) The nature of the applicable substantive requirement(s) for which Periodic Monitoring is needed; (6) The nature of the compliance procedures that specifically accompany the applicable requirements; (7) The type of data that would already be available for the unit; (8) The effort needed to comply with the applicable requirements and the expected margin of compliance; (9) The likelihood of a violation of applicable requirements; (10) The nature of the Periodic Monitoring that may be readily implemented for the emission unit; (11) The extent to which such Periodic Monitoring would directly address the applicable requirements; (12) The nature of Periodic Monitoring commonly required for similar emission units at other facilities and in similar circumstances; (13) The interaction or relationship between the different measures in the Periodic Monitoring for an emission unit; and (14) The feasibility and reasonableness of requiring additional measures in the Periodic Monitoring for an emission unit in light of other relevant considerations.¹⁶

CHAPTER IV - CHANGES FROM PREVIOUSLY ISSUED CAAPP PERMITS

4.1 Major Changes Summary

This renewal CAAPP draft is presented in a new format. The new format is the result of recommendations by the USEPA, comments made by sources, and interactions with the public.

	<i>Previous CAAPP Permit Layout</i>	<i>New CAAPP Permit Layout</i>
Section 1	Source Identification	Source Information
Section 2	List Of Abbreviations/Acronyms	General Permit Requirements
Section 3	Insignificant Activities	Source Requirements
Section 4	Significant Emission Units	Emission Unit Requirements
Section 5	Overall Source Conditions	Title I Requirements
Section 6	Emission Control Programs	Insignificant Activities
Section 7	Unit Specific Conditions	Other Requirements
Section 8	General Permit Conditions	State Only Requirements
Section 9	Standard Permit Conditions	---
Section 10	Attachments	Attachments

4.2 Specific Permit Condition Changes

- Section 4 - Emission Unit Requirements
 1. Added Construction Permits 1080025, 10030016 and 04090053 for engines and boilers constructed since the last issuance of the CAAPP permit.
 2. Added sulfur content (weight %) limits for the distillate fuel oil to demonstrate compliance with SO₂ applicable standard and/or limitation.
 3. Added additional monitoring, recordkeeping to demonstrate compliance with applicable standards and/or limitations.
 4. Boilers B-1S and B-2S no longer using distillate fuel oil as a backup fuel.
- Section 5 - Additional Title I Conditions
 1. Emission units that have combined emission limits and distillate fuel usage limits were added in this section.

Endnotes

¹ The federal PSD program, 40 CFR 52.21, applies in Illinois. The Illinois EPA administers PSD permitting for major projects in Illinois pursuant to a delegation agreement with USEPA.

² Illinois has a state nonattainment NSR program, pursuant to state rules, Major Stationary Sources Construction and Modification ("MSSCM"), 35 IAC Part 203, which have been approved by USEPA as part of the State Implementation Plan for Illinois.

³ Among other things, USEPA observed that the stream-lining benefits can consist of "reduced cost and administrative complexity, and continued compliance flexibility...". *White Paper 2*, page 41.

⁴ See, *In the Matter of Tesoro Refining and Marketing*, Petition No. IX-2004-6, Order Denying in Part and Granting in Part Petition for Objection to Permit, at page 8 (March 15, 2005); see also, *White Paper 2* at page 39 ("reference must be detailed enough that the manner in which any referenced materials applies to a facility is clear and is not reasonably subject to misinterpretation").

⁵ The Order provides that permit authorities must ensure the following: "(1) referenced documents be specifically identified; (2) descriptive information such as the title or number of the document and the date of the document be included so that there is no ambiguity as to which version of the document is being referenced; and (3) citations, cross references, and incorporations by reference are detailed enough that the manner in which any referenced material applies to a facility is clear and is not reasonably subject to misinterpretation." See, *Petition Response* at page 43, citing *White Paper 2* at page 37.

⁶ See, *White Paper 2* at page 39.

⁷ Nothing in USEPA guidance, including the *White Paper 2* or previous orders responding to public petitions, supports the notion that permit authorities incorporating a document by reference must also restate contents of a given plan in the body of the Title V permit. Such an interpretation contradicts USEPA recognition that permit authorities need not restate or recite an incorporated document so long as the document is sufficiently described. *White Paper 2* at page 39; see also, *In the matter of Consolidated Edison Co. of New York, Inc., 74th St. Station*, Petition No. II-2001-02, Order Granting in Part and Denying in Part Petition for Objection to Permit at page 16 (February 19, 2003).

⁸ This approach is consistent with USEPA guidance, which has previously embraced a similar approach to certain SSM plans. See, *Letter and Enclosures*, dated May 20, 1999, from John Seitz, Director of Office of Air Quality Planning and Standards, to Robert Hodanbosi and Charles Lagges, STAPPA/ALAPCO, pages 9-10 of Enclosure B.

⁹ The provisions of the Act for Periodic Monitoring in CAAPP permits reflect parallel requirements in the federal guidelines for State Operating Permit Programs, 40 CFR 70.6(a)(3)(i)(A), (a)(3)(i)(B), and (c)(1).

¹⁰ Section 39.5(7)(p)(i) of the Act also provides that a CAAPP permit shall

contain "Compliance certification, testing, monitoring, reporting and record keeping requirements sufficient to assure compliance with the terms and conditions of the permit."

¹¹ The classic example of regulatory standards for which Periodic Monitoring requirements must be established in a CAAPP permit are state emission standards that pre-date the 1990 Clean Air Act Amendments that were adopted without any associated compliance procedures. Periodic Monitoring must also be established in a CAAPP permit when standards and limits are accompanied by compliance procedures but those procedures are determined to be inadequate to assure compliance with the applicable standards or limits.

¹² Another example of emission standards for which requirements must be established as part of Periodic Monitoring is certain NSPS standards that require initial performance testing but do not require periodic testing or other measures to address compliance with the applicable limits on a continuing basis.

¹³ The need to establish Monitoring requirements as part of Periodic Monitoring when existing compliance procedures are determined to be inadequate, as well as when they are absent, was confirmed by the federal appeals court in *Sierra Club v. Environmental Protection Agency*, 536 f. 3d 673, 383 U.S. App. D.C. 109.

¹⁴ The need to establish Monitoring requirements as part of Periodic Monitoring is also confirmed in USEPA's Petition Response. USEPA explains that "...if there is periodic monitoring in the applicable requirements, but that monitoring is not sufficient to assure compliance with permit terms and conditions, permitting authorities must supplement monitoring to assure such compliance." Petition Response, page 6.

¹⁵ The test for the adequacy of "Periodic Monitoring" is a context-specific determination, particularly whether the provisions in a Title V permit reasonably address compliance with relevant substantive permit conditions. 40 CFR 70.6(c)(1); see also 40 CFR 70.6(a)(3)(i)(B); see also, *In the Matter of CITGO Refinery and Chemicals Company L.P.*, Petition VI-2007-01 (May 28, 2009); see also, *In the Matter of Waste Management of LA. L.L.C. Woodside Sanitary Landfill & Recycling Center, Walker, Livingston Parish, Louisiana*, Petition VI-2009-01 (May 27, 2010); see also, *In the Matter of Wisconsin Public Service Corporation's JP Pulliam Power Plant*, Petition V-2009-01 (June 28, 2010).

¹⁶ A number of these factors are specifically listed by USEPA in its Petition Response. USEPA also observes that the specific factors that it identifies in its Petition Response with respect to Periodic Monitoring provide "...the permitting authority with a starting point for its analysis of the adequacy of the monitoring; the permitting authority also may consider other site-specific factors." Petition Response, page 7.