

Statement of Basis

for the DRAFT CAAPP Permit for:

Source Name:

Lee County Landfill

Statement of Basis No.: 99090089-2014-10

I.D. No.: 103806AAL

Permit No.: 99090089

Date Prepared: October 20, 2014

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 Renewal CAAPP Permit issued on February 20, 2008, the source has also been issued the following:

Construction Permit 08120028, issued February 10, 2009, permitted construction of a new enclosed flare of 6,000 scfm of landfill gas (LFG). This flare controls LFG that is not routed to a gas-to-energy facility (owned by Lee\Dixon Energy Partners, LLC).

Many of the conditions in Construction Permit 08120028 supersede conditions in Construction Permits previously incorporated into the last CAAPP permit. In particular, it established new emission limitations for the landfill and the flare.

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 February 19, 2013. The initial submittal was deemed incomplete due to an absent 286-CAAPP form. A notice requesting this form was sent via e-mail on March 27, 2013. The 286-CAAPP was received by Illinois EPA on April 9, 2013 and the CAAPP renewal application was subsequently deemed complete. 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 in a Request for Additional Information (RAFI), sent August 7, 2014. The response to the RAFI was received August 15, 2014 with no application information requiring updates.

1.3 Legal Basis for Conditions in the CAAPP Permit

This industrial source is subject to a variety of Federal 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 a Municipal Solid Waste (MSW) Landfill emission unit that is subject to the following Federal regulations.

- 40 CFR Part 60 - Subpart A, NSPS General Provisions
- 40 CFR Part 60 - Subpart WWW, NSPS for MSW Landfills
- 40 CFR Part 61 - Subpart M, Standard of Asbestos
- 40 CFR Part 63 - Subpart A, NESHAP General Provisions
- 40 CFR Part 63 - Subpart AAAAA, NESHAP for MSW Landfills
- 40 CFR Part 63 - Subpart CCCCC, NESHAP for Gasoline Dispensing Facilities
- 40 CFR Part 82 - Subpart F, Ozone Depleting Substances

b. Applicable SIP Regulations

This source operates a Municipal Solid Waste (MSW) Landfill emission unit that is subject to the following Federal 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 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

Lee County Landfill began construction in June 1998 and began accepting waste in November that same year. At the same time, Lee\Dixon Energy Partners (BOA I.D. 103020ACJ) built a landfill gas (LFG) to energy plant (CAAPP Permit #00070051) at the landfill (Lee County Landfill and Lee\Dixon Energy Partners elected to obtain and operate under separate CAAPP permits). To supply LFG to the gas to energy plant, a landfill gas collection and control system (GCCS) was constructed; a flare to burn any LFG not supplied to the gas to energy plant was constructed as part of the GCCS. The landfill underwent an expansion in 2006 as part of Lee County Landfill's acquisition of the adjacent Dixon GROU #1 and #2 landfills. This expansion was accompanied by a new landfill GCCS. As the landfill continued accepting waste, a flare of larger capacity was installed in 2008 to further control LFG not supplied to the gas to energy plant. As of the time of this writing, the landfill and gas to energy plant continue to operate.

2.2 Description of Source

SIC Code: 4953
 County: Lee

Lee County Landfill operates a Municipal Solid Waste (MSW) landfill located at 1214 South Bataan Road near Dixon, Illinois. A MSW landfill is defined as an entire disposal facility in a contiguous geographical space where household waste is placed in or on land. An MSW landfill may also receive other types of RCRA Subtitle D wastes (40 CFR 257.2) such as commercial solid waste, nonhazardous sludge, conditionally exempt small quantity generator waste, and industrial solid waste. In addition, the landfill has an active landfill gas collection and control (GCCS) system that collects landfill gas (LFG) generated at the source and vents to a gas to energy facility and an enclosed flare.

The source contains the following processes:

<i>Emission Unit</i>	<i>Description</i>	<i>Significant Dates</i>	<i>Air Pollution Control Devices or Measures</i>
MSW Landfill	Active MSW Landfill	Constructed: June 1998 Initiated Waste Disposal Operations: November 1998	Gas to Energy Engines ¹ Enclosed Flare 6,000scfm Commenced Operation: 2008
Gasoline Dispensing Facilities	Gasoline Tanks	--	Submerged Pipe

¹While considered a single source for the purposes of permitting, the gas to energy engines are owned and operated by Dixon/Lee Energy Partners (BOA I.D. #103020ACJ), LLC under a separate CAAPP permit. See CAAPP permit #00070051 details applicable requirements for these engines.

2.3 Single Source Status

The source is considered a single source with Lee\Dixon Energy Partners, I.D. No. 103020ACJ, located at Lee County Landfill. The gas to energy facility and its associated equipment is owned and operated by Lee\Dixon Energy Partners under a separate CAAPP permit, Permit #00070051.

Under both 40 CFR 52.21(b)(5) and Section 39.5 of the Illinois Environmental Protection Act, different sources can be "aggregated" and considered a single stationary source for PSD and Title V operating permit purposes. They can be considered a single stationary source if they (1) belong to the same industrial grouping or operate as a support facility, (2) are located on contiguous or adjacent properties, and (3) are under common control/ownership.

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: carbon monoxide (CO), nitrogen oxide (NO_x), and particulate.

The source also requires a CAAPP Permit because the source is subject to a standard, limitation, or other requirement under Section 111 (NSPS) or Section 112 (HAPs) of the CAA for which USEPA requires a CAAPP Permit, or because the source is in a source category designated by the USEPA. Specifically, this source is subject to federal NSPS and NESHAP for Municipal Solid Waste Landfills (40 CFR 60 Subpart WWW and 40 CFR 63 Subpart AAAA, respectively). In addition, the source is subject to the NESHAP for Gasoline Dispensing Facilities, 40 CFR 63 Subpart CCCCC.

The source also requires a CAAPP Permit because the source is considered a single source with Lee\Dixon Energy Partners, LLC, (I.D. No. 103020ACJ and CAAPP permit No. 00070051), located at Lee County Landfill. The Permittees have elected to obtain separate CAAPP Permits for their operations (see also Section 1.3 above).

This source is considered a natural minor for the following regulated pollutants: nitrogen oxides (NO_x), volatile organic material (VOM), carbon monoxide (CO), and/or hazardous air pollutants (HAP).

Based on available data, this source is a major source of emissions for GHG, because the estimated potential emissions of GHG are more than 100 tons per year (mass) and 100,000 tons per year (CO₂e). Lee County Landfill, Inc. voluntarily submitted data for actual emissions of GHGs in its 2013 AER, reporting actual annual emissions of GHG of 142,488.80 tons per year. The emissions consist of 39,583.80 tons of CO₂, 0 tons of N₂O, and 4,116.20 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>2013</i>	<i>2012</i>	<i>2011</i>
CO	26.71	16.10	17.29
NOx	13.84	10.81	11.47
PM	57.73	47.76	49.90
SO ₂	1.22	0.74	1.48
VOM	7.78	9.16	9.00
CO ₂ e	142,488.80	141,160.85	156,240.49
HAP (top)	1.74	1.85	2.01

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)	39.1
Sulfur Dioxide (SO ₂)	141.0
Particulate Matter (PM)	140.6
Nitrogen Oxides (NO _x)	52.0
HAP, not included in VOM or PM (HAP)	29.9
Total	402.6

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>
97120093*	March 6, 1998	Flare Station
01060011*	(Date not available)	Gas collection and control system
06020081	November 30, 2006	Landfill Gas and Control System (Also permitted landfill expansion)
07060038	November 29, 2007	Revised Gas and Control System for landfill expansion

*These permits have been superseded by requirements in later permits and were not referenced in the 2008 CAAPP renewal. As such, there was no need to incorporate requirements from these permits (See *Extraneous or Obsolete T1 Conditions below*).

- Newly Issued Construction Permits:

<i>Permit No.</i>	<i>Date Issued</i>	<i>Subject</i>
08120028	February 10, 2009	New enclosed flare

- 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.
- Extraneous or Obsolete T1 Conditions:³

<i>Construction Permit No.</i>	<i>Condition Number</i>	<i>Subject</i>
97120093	N/A	Flare station
01060011	N/A	Gas collection and control system
07060038	5.6.3	Combined emission limits for the landfill and gas to energy facility.

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

As of the date of this writing, the only recent emission testing Lee County Landfill has been required to perform was an initial performance test for its 6,000 scfm enclosed flare. This test was required to demonstrate compliance with the construction permit issued for it (Permit No. 08120028), compliance with 40 CFR 60.752(b)(2)(iii)(B) and compliance with 40 CFR 60.754(d).

On October 28, 2009, between 12:45 PM and 1:45 PM, a USEPA Method 9 test for opacity was conducted for the flare. Weather conditions on the day of the test were cloudy and approximately 58° F. Throughout the entire duration of the test no visible emissions were noted, thus demonstrating compliance with 40 CFR 60.752(b)(2)(iii)(B) and 40 CFR 60.754(d). Raw data from this test is shown on the following page.

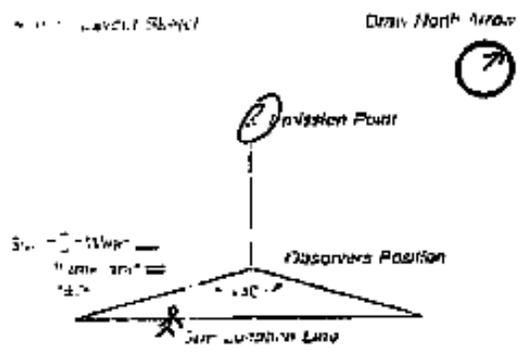
TEST RESULTS

Summary of Average Opacity

10/28/2009 Run #1
Enclosed Flare

Set #	Start--End Time	Opacity	
		Sum	Avg
1	12:45 - 12:51	0	0.0
2	12:52 - 12:57	0	0.0
3	12:58 - 13:03	0	0.0
4	13:04 - 13:09	0	0.0
5	13:10 - 13:15	0	0.0
6	13:16 - 13:21	0	0.0
7	13:22 - 13:27	0	0.0
8	13:28 - 13:33	0	0.0
9	13:34 - 13:39	0	0.0
10	13:40 - 13:45	0	0.0

PROJECT TITLE: Lee County Landfill
 ADDRESS: 1214 S. Watson Rd.
 CITY: Pike STATE: IL ZIP: 62450
 SOURCE ID NUMBER: Enclaved Flare
 SOURCE EQUIPMENT: _____ OPERATING MODE: _____
 ENTRY EQUIPMENT: _____ OPERATING MODE: _____
 SOURCE EMISSION POINT: 18' round Flare
 START: See STOP: See
 DIST. ABOVE GRADING LEVEL: _____ HEIGHT RELATIVE TO OBSERVER: _____
 START: 50' STOP: See START: Same STOP: See
 DIRECTION FROM OBSERVER: _____ DIRECTION FROM OBSERVER: _____
 START: 150' STOP: See START: N/E STOP: See
 SOURCE EMISSIONS:
 START: Clear STOP: See
 PLUME TYPE: CONTINUOUS FUGITIVE INTERMITTENT
 WATER DROPLETS PRESENT: _____ IF WATER DROPLET PLUME: _____
 ATTACHED DETACHED
 HEIGHT OF PLUME AT WHICH OPACITY WAS DETERMINED: _____
 START: 10' from top of stack STOP: See
 SOURCE BACKGROUND: _____
 START: Cloudy Sky STOP: See
 SKY CONDITIONS: _____
 START: Grey STOP: _____ START: Cloudy STOP: See
 WIND DIRECTION: _____
 START: 5-10 mph STOP: See START: N STOP: See
 WIND SPEED: _____
 START: 78°F STOP: See WET BULB TEMP: _____ RH percent: _____



OBSERVATION DATE: 10-28-09
 START TIME: 12:45 END TIME: 1:24

SEC	SEC				SEC			
	0	15	30	45	0	15	30	45
01	0	0	0	0	31	0	0	0
02	0	0	0	0	32	0	0	0
03	0	0	0	0	33	0	0	0
04	0	0	0	0	34	0	0	0
05	0	0	0	0	35	0	0	0
06	0	0	0	0	36	0	0	0
07	0	0	0	0	37	0	0	0
08	0	0	0	0	38	0	0	0
09	0	0	0	0	39	0	0	0
10	0	0	0	0	40	0	0	0
11	0	0	0	0	41	0	0	0
12	0	0	0	0	42	0	0	0
13	0	0	0	0	43	0	0	0
14	0	0	0	0	44	0	0	0
15	0	0	0	0	45	0	0	0
16	0	0	0	0	46	0	0	0
17	0	0	0	0	47	0	0	0
18	0	0	0	0	48	0	0	0
19	0	0	0	0	49	0	0	0
20	0	0	0	0	50	0	0	0
21	0	0	0	0	51	0	0	0
22	0	0	0	0	52	0	0	0
23	0	0	0	0	53	0	0	0
24	0	0	0	0	54	0	0	0
25	0	0	0	0	55	0	0	0
26	0	0	0	0	56	0	0	0
27	0	0	0	0	57	0	0	0
28	0	0	0	0	58	0	0	0
29	0	0	0	0	59	0	0	0
30	0	0	0	0	60	0	0	0

AVERAGE OPACITY FOR HIGHEST PERIOD: 0
 RANGE OF OPACITY READINGS: MINIMUM 0 MAXIMUM 0
 NUMBER OF READINGS ABOVE 0% WERE: 0

OBSERVER'S NAME (PRINT): Joe Crowe
 OBSERVER'S SIGNATURE: [Signature] DATE: 10-28-09
 ORGANIZATION: Custom Stack Analysis
 CERTIFIED BY: Whittier Enterprises DATE: _____
 ADDRESS: _____ DATE: _____

COMMENTS: Sun was not out
 NUMBER OF THESE OPACITY OBSERVATIONS: _____
 DATE: _____

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 dated February 18, 2009 demonstrates the source's ability to comply with all applicable requirements. Previous field inspections also demonstrate the source's compliance with 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)(i)
NSPS/NESHAP for Municipal Solid Waste Landfills (40 CFR 60 Subpart WWW and 40 CFR 63 Subpart AAAA)	Applicable Standard	See the Permit, Condition 3.1(d)(i)

It should be noted that the opacity requirements of 35 IAC 212.123(a) (30% opacity) are subsumed by the Fugitive Particulate Matter requirements of 35 IAC 212.301, no visible emissions across the source property line. In this case, it is assumed that no visible emissions is equivalent to zero percent opacity. Further, the control measures requirement in the following summarized periodic monitoring also assures compliance in regard to 35 IAC 212.123(a).

Fugitive Particulate Matter Emissions

- ✓ Monitoring as follows (Condition 3.1(a)(ii)(A))
 - o Daily observations to demonstrate compliance with control measures requirements
- ✓ Recordkeeping as follows (Condition 3.1(a)(ii)(A)):
 - o Records of observations
- ✓ Reporting as follows (Condition 3.5(a)):
 - o Prompt reporting within 30 days of detecting a deviation

Rationale and Justification for Periodic Monitoring

Periodic Monitoring, at the current level of compliance, is sufficient for this source because:

- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA

NSPS/NESHAP for Municipal Solid Waste Landfills

Condition 3.1(d)(i)

The Lee County Landfill is considered to be a "Municipal solid waste landfill or MSW landfill" for purposes of compliance with 40 CFR Part 60 Subpart WWW – Standards of Performance for Municipal Solid Waste Landfills and 40 CFR Part 63 Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills.

Condition 3.1(d)(ii)

Pursuant to 39.5(7)(a) and (b) of the Act, for purposes of compliance with 40 CFR Part 60 Subpart WWW and 40 CFR Part 63 Subpart AAAA, documentation and data required Lee County Landfill shall be included in, applicable compliance records and/or reports, required under 40 CFR Part 60 Subpart WWW and 40 CFR Part 63 Subpart AAAA.

Non-Applicability Discussion

The following complex source-wide non-applicability determination was made for this source:

- Condition 3.4(g) – Several internal combustion engines at the source were determined to be not subject to the requirements of 40 CFR Part 60 Subparts IIII and JJJJ and Part 63 Subpart ZZZZ, based upon all engines not meeting the applicability criteria in 40 CFR 60.4200, 60.4230 and 63.6585(a) and the definition of a Stationary reciprocating internal combustion engine (RICE) in 40 CFR 60.4219, 60.4248, and 63.6675, respectively, i.e., all engines at the source are mobile and meet the definition of a non-road engine as defined in 40 CFR 1068.30. Since applicability under the above is dependent upon a particular engine being stationary, limitations and periodic monitoring to verify non-applicability were included in the permit.

Prompt Reporting Discussion

Prompt reporting of deviations for source wide emission units has been established as 30 days. See rationale in Chapter III Section 3.9.

3.7 Emission Unit Justifications and Rationale

a. Municipal Solid Waste Landfill		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
Visible Emissions (Opacity) Requirement (35 IAC 212.123(a) and 40 CFR 60.18(c)(1))	Applicable Limit	See the Permit, Condition 4.1.2(a)
SO ₂ Requirement (35 IAC 214.301)	Applicable Limit	See the Permit, Condition 4.1.2(b)
NSPS Requirements (40 CFR 60 Subpart WWW)	Applicable Standard	See the Permit, Condition 4.1.2(b)
HAP Requirements (40 CFR 63 Subpart AAAAA)	Applicable Standard	See the Permit, Condition 4.1.2(c)
Asbestos Requirements (40 CFR 60 Subpart M)	Applicable Standard	See the Permit, Condition 4.1.2(d)
Title 1 Requirements - T1 (Construction Permit 08120028)	Applicable Limit	See the Permit, Condition 4.1.4(a)

Visible Emissions (i.e., Opacity)

- ✓ Monitoring as follows (Condition 4.1.2(a)(ii)(A))
 - 30% opacity limitation - 35 IAC 212.123(a)/No visible emissions - 40 CFR 60.18(c)(1): Compliance monitoring for the enclosed flare pursuant to 35 IAC 212.123(a) is subsumed by no visible emissions monitoring for 40 CFR 60.18(c)(1) using USEPA RM 22. In lieu of RM 22, the Permittee may verify compliance using USEPA RM 9 since RM 22 does not quantify opacity;
 - Monitoring the enclosed flare on a monthly basis. If visible emission from the flare are detected, the monitoring interval shall be increased from a monthly to a weekly interval until the Permittee can demonstrate the flare has no visible emission for three consecutive monthly monitoring periods of observation data. Thereafter, the Permittee is allowed to resume monitoring on the monthly interval.
 - Monitoring by a third party is not required unless requested in writing;
 - The Permittee shall either take corrective action within 4 hours of such observation or indicate a deviation within the monitoring record.
 - A deviation shall be recorded in the monitoring record:
 - If an exceedance is observed and corrective action cannot be made within 48 hours;
 - If RM 22 is used to verify compliance, a deviation shall be indicated in the monitoring record if visible emissions are observed for more than a total of 5 minutes during the 2 hour

observation period.

- If RM 9 is used to verify compliance, a deviation shall be indicated in the monitoring record if the enclosed flare's average opacity exceeds 30% over the 3 test run monitoring period.
- ✓ Recordkeeping as follows (Condition 4.1.2(a)(ii)(B)):
 - Field data sheets of observations with notes as to whether the enclosed flare was operating properly and An indication as to whether monitoring is on a monthly or quarterly basis;
 - Description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- ✓ Reporting as follows (Condition 4.1.5(a)):
 - Prompt reporting within 30 days.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring, at the current level of compliance, is sufficient because:

- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA.
- The zero opacity threshold for the enclosed flare, i.e., no visible emissions, using Method 22, is a substantially narrower compliance threshold compared to the 30 percent opacity limit allowed under 35 IAC 212.123(a).

Sulfur Emissions

- ✓ Monitoring as follows (Condition 4.1.2(b))
 - Volumetric Flow Throughput: gas flow rate measuring device
 - Annual LFG chemical and physical composition
 - Total reduced sulfur (TRS) - RM 15/16 or ASTM D5504;and
 - Annual compliance monitoring using volumetric flow throughput data from the gas collection and control system, i.e., 12 month average LFG flow throughput (cubic feet per minute) and an analysis of the LFG chemical and physical composition. Worst case emissions are assumed since the dilution effect of other combustion components are not accounted for in the calculations. Where the maximum possible SO₂ concentration and mass (lb/hr and ton/yr) that can be emitted are calculated, assuming stoichiometric combustion, i.e., 0% excess air and 100% conversion of TRS to SO₂.
- ✓ Recordkeeping as follows (Condition 4.1.2(b))
 - Design specifications for the flare
 - LFG consumed by the flare, on a daily basis
 - Maximum hourly emissions of SO₂, with supporting documentation
 - Monthly and annual emissions of SO₂ from the affected flare (tons/month and tons/year) with supporting calculations
 - An inspection/maintenance log
 - Total sulfur content of the LFG and the results of the compliance verification analysis pursuant to Condition 4.1.2(b)(ii)(B), compliance with 35 IAC 214.301.
- ✓ Reporting as follows (Condition 4.1.5(a))
 - Prompt reporting within 30 days

Rationale and Justification for Periodic Monitoring

Periodic monitoring, at the current level of compliance, is sufficient for this emission unit because:

- Source has not exhibited a history of non-compliance
- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA

Nonmethane Organic Compounds (NMOC) Emission

- ✓ Monitoring as follows (Condition 4.1.2(c))
 - Compliance with the Gas Collections and Control System (GCCS) design plan requirements, in Conditions (4.1.2(b)(i)(A)(III)-(IV) and 40 CFR 60.752(b)(2)(ii) and (iv), based upon the GCCS being installed and operated pursuant to the approved GCCS design plan, dated January 31, 2007, and any subsequent amendments to the plan;
 - 40 CFR 60.755(a) and 60.756(a) - Verification that the gas collection system is in compliance with Conditions 4.1.2.(b)(i)(A)(III) and 40 CFR 60.752(b)(2)(ii) based upon monitoring specified methods in 40 CFR 60.755(a) and 60.756(a);
 - Monthly well/wellhead pressure, oxygen or nitrogen concentration and temperature reading
 - Continuous monitoring of the enclosed flare for presence of a pilot light or the flame itself;
 - 40 CFR 60.755(b) - Verification that the Permittee is in compliance with 40 CFR 60.753(a), based upon placement of each well or design component as specified by the date thresholds;
 - 40 CFR 60.755(c) and (d) and 60.756(f) - Verification the GCCS is in compliance with the surface methane operational standard as provided in 40 CFR 753(d) based upon quarterly monitoring using the specified instrumentation specifications and procedures for surface emission monitoring devices
- ✓ Recordkeeping as follows (Condition 4.1.2(c)(ii)(D)):
 - General Records (Condition 4.1.2(c)(ii)(D)(I))
 - Site-specific NMOC emission rates;
 - USEPA and/or Illinois EPA correspondence approving alternatives to operational standards, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of 40 CFR 60.753 through 60.758 allowed under 40 CFR 60.752(b)(2)(i)(B);
 - Waste acceptance
 - Inspection maintenance and repair log for the affected landfill and/or control equipment
 - Landfill gas flow to the control system (monthly and annual);
 - Operating hours on a monthly basis for the landfill gas enclosed flare
 - NSPS Records (Condition 4.1.2(c)(ii)(D)(II)-(VII))
 - 40 CFR 60.7(b) - Occurrence and duration of any startup, shutdown, or malfunction;
 - 40 CFR 60.7(f) - All measurements, maintenance, reports and records;
 - 40 CFR 60.18(f)(2) - Record of the presence of a flare pilot flame using continuous temperature recorder or logbook;
 - 40 CFR 60.758(a) - Copy of the design capacity report;
 - 40 CFR 60.758(c) - Continuous records of the equipment operating parameters specified to be monitored in 40 CFR 60.756; and
 - 40 CFR 60.758(d) - Plot map showing location of each existing and planned collector in the system.

- ✓ Reporting as follows (Condition 4.1.5(a) and (b)):
 - Prompt reporting within 30 days
 - NSPS Reporting
 - 40 CFR 60.757(a)(3) - If applicable, an amended design capacity report within 90 days of an increase in the maximum design capacity of the landfill;
 - 40 CFR 60.757(d) - closure report within 30 days of waste acceptance cessation;
 - 40 CFR 60.757(e) - Equipment removal report 30 days prior to removal or cessation of operation of the control equipment; and
 - 40 CFR 757(f) and 40 CFR 63.1980(a) - semi-annual reports of any exceedance recorded pursuant to the information shown in 40 CFR 60.757(f)(1) through (f).

Rationale and Justification for Periodic Monitoring

Periodic Monitoring, at the current level of compliance, is sufficient because:

- The source is subject to a standard promulgated after November 1990, i.e., 40 CFR 60 Subpart WWW, which already contains monitoring that is adequate to demonstrate compliance
- Source not exhibited a history of non-compliance
- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA

HAP Emissions

- ✓ Monitoring as follows (Condition 4.1.2(d)(ii)(A))
 - 40 CFR 63.1960 - Compliance based upon compliance with 40 CFR 60 Subpart WWW, including performance testing, monitoring, and other credible evidence. Except that the Permittee must have a written SSM plan according to the provisions in 40 CFR 63.6(e)(3).
 - 40 CFR 63.1965 - deviations defined in 40 CFR 63.1990 to 40 CFR 63 Subpart AAAA
 - Fails to meet any term or condition that is adopted to implement an applicable requirement in 40 CFR 63 Subpart AAAA, including, but not limited to, any emissions limitation (including any operating limit) or work practice standard;
 - Fails to meet any term or condition that is adopted to implement an applicable requirement in 40 CFR 63 Subpart AAAA and that is included in the operating permit for any affected source required to obtain such a permit; or
 - Fails to meet any emission limitation (including any operating limit), or work practice standard in 40 CFR 63 Subpart AAAA during SSM, regardless of whether or not such failure is permitted by 40 CFR 63 Subpart AAAA.
 - Landfill monitoring and SSM plan requirements, deviations including the items in 40 CFR 63.1960(a) through (c).
- ✓ Recordkeeping as follows (Condition 4.1.2(d)(ii)(B)):
 - 40 CFR 63.1980(a) - records as specified in 40 CFR 60 Subpart WWW
 - 40 CFR 63.1980(b) - records as specified in the General Provisions of 40 CFR 63 Subpart A and 40 CFR 63 as shown in Table 1 of 40 CFR 63 Subpart AAAA. Applicable records in the general provisions include items such as SSM plans
 - 40 CFR 63.1980(g) - if leachate is applied in a controlled fashion to the waste mass then the owner or operator must keep a record of calculations showing that the percent moisture by weight expected in the waste mass to

which a liquid is added is less than 40 percent.

- ✓ Reporting as follows (Condition 4.1.5(a) and (b)):
 - Prompt reporting within 30 days
 - NESHAP Reporting
 - 40 CFR 60.757(f) and 40 CFR 63.1980(a) - semi-annual exceedance reports as specified in 40 CFR 60 Subpart WWW; and
 - 40 CFR 63.1980(b) - reports as specified in the General Provisions of 40 CFR 60 Subpart A and 40 CFR 63 as shown in Table 1 of 40 CF# 63 Subpart AAAA. Applicable records in the General Provisions include items such as SSM plans.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring, at the current level of compliance, is sufficient because:

- The source is subject to a standard promulgated after November 1990, i.e., 40 CFR 60 Subpart WWW and 40 CFR 63 Subpart AAAA, which already contains monitoring that is adequate to demonstrate compliance
- Source not exhibited a history of non-compliance
- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA

Asbestos Emissions

- ✓ Monitoring as follows (Condition 4.1.2(e)(ii)(A))
 - Sections 39.5(7)(b) and (d) of the Act, the monthly inspection on all inactive and active ACWM disposal sites at the source to verify compliance with the visible emissions and/or cover requirements of Condition 4.1.2(f)(i)(A) and 40 CFR 61.151(a) and 61.154(c). Monitor for visible emissions using USEPA RM 22 or take corrective action if ACWM is exposed above ground.
- ✓ Recordkeeping as follows (Condition 4.1.2(e)(ii)(B)):
 - 40 CFR 61.154(e) - Asbestos-containing waste material received records
 - 40 CFR 61.154(f) - Records of the location, depth and area, and quantity in cubic meters (cubic yards) of asbestos-containing waste material within the disposal site on a map or diagram of the disposal area.
 - Records of the inspection and/or corrective actions and data as per RM 22, as applicable.
- ✓ Reporting as follows (Condition 4.1.5(a) and (b)):
 - Prompt reporting within 30 days
 - NESHAP Reporting
 - 40 CFR 61.151(d) and 61.154(j), the owner or operator shall notify IEPA 45 days prior to excavating or otherwise disturbing any asbestos-containing waste material that has been deposited at a waste disposal site and covered as per 40 CFR 61.151 or 61.154;
 - 40 CFR 61.154(e)(1)(iv) - Report, by the following working day, the presence of a significant amount of improperly enclosed or uncovered waste and/or report immediately, if the discrepancy between the quantity of waste designated on the waste shipment records and the quantity actually received is not resolved within 15 days after receiving the waste; and
 - 40 CFR 61.154(h) - Submit, upon closure of the facility, a copy of records of asbestos waste disposal locations and quantities.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient because:

- There is a small likelihood of an exceedance since other permit requirements and/or regulations serve to insure compliance with 40 CFR Part 61 Subpart M, specifically the landfill is required to apply daily cover and final cover over the waste pursuant to their RCRA permit issued by the Illinois EPA Bureau of Land and the Permittee is required to make landfill cover integrity inspection and repair pursuant to 40 CFR 60.755(c)(5).
- Source has not exhibited a history of non-compliance.

Title 1 Requirements

Construction Permit 08120028 [T1]

- ✓ Recordkeeping as follows (Condition 4.1.4(a)(ii)(B)):
 - o Design specifications for the enclosed flare;
 - o LFG consumed by the flare, on a daily basis;
 - o Operation log;
 - o Inspection/maintenance log;
 - o Maximum hourly emissions of NOx and CO
 - o Monthly and annual emissions of NOx and CO
- ✓ Reporting as follows (Condition 4.1.5(a)):
 - o Prompt reporting within 30 days

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient because:

- There is a small likelihood of an exceedance.
- Source has not exhibited a history of non-compliance.
- Monitoring is consistent with that required for other MSW landfills permitted by Illinois EPA.

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.

b. Gasoline Dispensing Facilities		
Applicable Requirements Summary		
Applicable Requirement	Type	Location
35 IAC 215.122(b) and 25 IAC 215.583(a)(1)	Applicable Standard	See the Permit, Condition 4.2.2(b)
40 CFR 63 Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities	Applicable Standard	See the Permit, Condition 4.2.2(c)
Section 39.5(7) of the Act	Operational Limits	See the Permit, Condition 4.2.2(c)(i)

HAP Emissions

- ✓ Monitoring as follows (Condition 4.2.2)
 - Verification that the gasoline storage tank is being filled utilizing a permanent submerged loading pipe or submerged fill, to ensure compliance with requirements of Condition 4.2.2 and to verify that submerged loading pipe or submerged fill is in place and operating correctly. Such inspections shall be performed either monthly or each time that the tank is filled.
- ✓ Recordkeeping as follows (Condition 4.2.2):
 - Verification of compliance with Condition 4.2.2(a) through (c) pursuant to 39.5(7) of the Act.
- ✓ Reporting as follows (Condition 4.2.5):
 - 30 days of becoming aware of a the non-compliance status pursuant due to damage, deterioration, or other condition of the tank.
 - 30 days of exceedance of the operational and emissions limitations in Conditions 4.2.4

Work Practice Requirements (35 IAC Part 215) VOM and HAPs

- ✓ Monitoring as follows (Condition 4.2.2(a)(ii)(A) and 4.2.2(b)(ii)(A))
 - Semi-annual inspections of the gasoline storage tank and dispensing operations.
- ✓ Recordkeeping as follows (Condition 4.2.2(a)(ii)(B) and 4.2.2(b)(ii)(B) and (C)):
 - Records of semi-annual inspections.
 - Written operating procedures.

Rationale and Justification for Periodic Monitoring

Periodic Monitoring is sufficient for this emission unit because:

- Monitoring is consistent with other sources in this source category.
- Source has not exhibited a history of non-compliance as it relates to specific applicable requirements for this tank.
- Consistent with NESHAP monitoring requirements.
- The monitoring is sufficient to demonstrate compliance because the requirement is to physically have an operational loading pipe that is submerged while loading gasoline to the tank. This is verified by inspecting the tank and the loading pipe to verify that it is present and has not come

loose or fallen off. Given the longevity of the materials and specifications of the loading pipe, semi-annual is sufficient timeframe to identify any problems before they occur.

Operational Limit - Avoidance of Limit - VOM

The 10,000 gallon limit on throughput is being imposed to avoid applicability of 35 IAC 215.586(c) and 40 CFR 63.11117 and 63.11118.

- ✓ Recordkeeping as follows (Condition 4.2.2(c)(ii)(A)):
 - o Records of monthly and annual gasoline throughput.

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 3.9.

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.

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.

- **Federal Start-up/Shutdown/Malfunction-Breakdown Authorization Discussion**

As originally adopted, the General Provisions of the NESHAP, 40 CFR Part 63 Subpart A (40 CFR 63.6(f) and (h)) provided that the limits of the NESHAP generally did not apply during startup, shutdown and malfunction (SSM) events (the "SSM Exemption") unless otherwise provided in a particular subpart for a particular category of source or emissions unit.⁴ However, in December 2008, a US Court of Appeals decision in *Sierra Club v. EPA*, 551 F.3d 1019 (D.C. Cir. 2008), vacated this SSM Exemption.⁵

On July 22, 2009, Adam Kushner, Director of the Office of Civil Enforcement of the USEPA issued guidance identifying the categories of sources that would no longer be exempt from applicable numerical NESHAP standards during startup, shutdown, and malfunction as a result of the vacatur of the SSM exemption (the SSM Vacatur). This guidance states that the SSM vacatur immediately affects only the NESHAP standards for source categories that both (i) incorporate the SSM Exemption by reference and (ii) contain no other regulatory text that provides an exemption or exception from otherwise applicable limits during startup, shutdown or malfunction events. The NESHAP standards for many source categories contain such separate category-specific exemption language for startup, shutdown and malfunction events. These provisions were not at issue in the *Sierra Club* case and decision, and accordingly those separate provisions would not be affected by the vacatur of the SSM Exemption in 40 CFR 63 Subpart A. The guidance identifies the NESHAP standards for various categories of sources that would be affected by the SSM vacatur and the standards for other categories of sources that would not be affected ("Table 1" and "Table 2," respectively, of the guidance).⁶

3.11 Greenhouse Gas Provisions

On June 3, 2010, USEPA adopted rules for the initial permitting of major sources of emissions of greenhouse gases (GHG). See, 75 FR 31514-31608. Prompted by the earlier adoption of GHG emissions standards for motor vehicles under Title II of the CAA, the USEPA's rules implement a two-phased program for permitting major sources of GHG under Title V permit programs.⁷ As Illinois EPA is planning to issue a permit to this source during the second phase of the rules, GHG emissions must be addressed during this CAAPP permitting action.⁸ Annual Emission Reports submitted to the Illinois EPA by this source and/or estimated GHG emissions by the Illinois EPA, which detail the source's actual annual emissions of GHG, provide the necessary data to appropriately address emissions of GHG in the Draft CAAPP Permit. The data in these reports clearly show the source is a major source for emissions of GHG.

The new federal rules also require subject Title V sources to comply with any applicable GHG-related requirements that arise from other CAA programs.⁹ However, there are currently no emission standards or other regulatory obligations relating to GHG that constitute "applicable requirements" for this source. For this reason, the Draft CAAPP Permit for this source does not contain any substantive requirements for GHG. At the federal level, the only venue that could potentially establish GHG-related requirements at this time is the PSD program. As of January 2, 2011, sources triggering PSD must evaluate GHG emissions resulting from projects that trigger the major source or major modification rules.¹⁰ This source has neither constructed such a project, nor received a permit authorizing such a project, since January 2, 2011, to the present, and therefore has not triggered any GHG-related requirements under the PSD program.

There are no other GHG-related requirements established under the CAA that are applicable to this source at this time. In particular, the mandatory reporting rule for GHG promulgated by USEPA in 2009 [see *generally*, 40 CFR Part 98] is not an applicable requirement and therefore would not be included in the Draft CAAPP Permit for this source. There are also no GHG-related requirements under the Illinois Environmental Protection Act or contained within Illinois' SIP that apply to the source at this time. Other state laws or regulations in Illinois relating to GHG, including efforts to reduce emissions of GHG under authority other than the Illinois Environmental Protection Act, do not constitute applicable requirements under the CAAPP.

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.¹¹ Section 39.5(7)(b) of the Illinois Environmental Protection Act¹² 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.^{13, 14} 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.^{15, 16} 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.¹⁷ 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.¹⁸

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

This CAAPP renewal address an enclosed flare that was constructed at the landfill. The requirements of the construction permit (Permit No. 08120028) supersede certain requirements of the previous CAAPP permit and need to be incorporated into this CAAPP renewal.

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 The incorporation, or carry-over, of terms or conditions from previous Title I permits into Title V permits typically does not occur on a wholesale basis. Recognizing that construction permits may frequently contain obsolete or extraneous terms and conditions, USEPA has emphasized that only "environmentally significant terms" from previous preconstruction permits must be carried over into Title V permits. See, White Paper for Streamlined Development of Part 70 Permit Applications, dated July 10, 1995. Therefore, certain T1 terms and conditions have not been carried over from these SIP approved permits for reasons that are explained below.

⁴ During startup, shutdown and malfunction, a source was instead required to minimize emissions of subject emission units in a manner consistent with good air pollution control practice. A startup shutdown and malfunction plan must be maintained by a source setting forth how it operate emission units to minimize emissions during events, ideally so that they are not accompanied by any violations of the applicable standards. Finally, the term "malfunction" is also narrowly defined under the NESHAP. Malfunctions only include events that are sudden, infrequent and not reasonably preventable. Events that are caused, even in part, by poor maintenance or careless operation are not malfunctions for purposes of any SSM exemption.

⁵ The *Sierra Club* decision has created concern for the sources that are subject to NESHAP standards and have relied upon the SSM Exemption. For some source categories, the technological capability to maintain compliance with numerical NESHAP standards during SSM events may not currently exist. Numerical standards were also adopted without critical consideration necessarily having been given to whether those standards could reasonably and appropriately be met during startup, shutdown or malfunction events. Consequently, the vacatur of the SSM Exemption creates uncertainty and concern about how to apply these NESHAP standards pertaining to such events.

⁶ The USEPA guidance contains a caveat. USEPA recognizes that the source category-specific SSM exemption provisions may be challenged separately. As such, the analysis in its guidance could be subject to change. USEPA indicates that it intends to evaluate which source category-specific SSM exemption provisions should be revised. The Illinois EPA is not aware of any such specific challenges that have been made to source category-specific SSM exemption provisions in the NESHAP.

⁷ The new rules apply the first phase of permitting to sources already subject to Title V by virtue of their conventional, non-GHG pollutants. As noted above, these sources are expected to address GHG in their permitting applications and to comply with any substantive requirements for GHG that have

been established through other CAA programs such as PSD. The second phase of permitting that begins July 1, 2011, essentially applies the same requirements to sources who will become subject to Title V based on their GHG emissions alone (i.e., existing or newly constructed sources with a potential to emit of equal to or greater than 100,000 tons per year of CO₂e and 100 tons per year of GHG on a mass basis).

⁸ USEPA has stated that the first phase of its new rules requires existing Title V sources to address GHG in their Title V applications by citing to any pollutants for which the Title V source is major and to all regulated air pollutants. See, PSD and Title V Permitting Guidance for Greenhouse Gases, prepared by the Office of Air Quality Planning and Standards, page 51 (November 2010).

⁹ See generally, PSD and Title V Permitting Guidance for GHG at pages 53-56.

¹⁰ A major source subject to PSD based on potential emissions of a non-GHG pollutant and potential emissions of GHG equal or greater than 75,000 tons per year of CO₂e is required to address GHG emissions in evaluating control options and associated monitoring, reporting, etc, for any construction of a new major source or a major modification of an existing major source.

¹¹ 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).

¹² 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."

¹³ 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.

¹⁴ 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.

¹⁵ 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.

¹⁶ 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.

¹⁷ 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).

¹⁸ 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.