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Abbreviations and Acronyms

ASTM	American Society for Testing and Materials
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CFR	Code of Federal Regulations
EPA	United States Environmental Protection Agency, Region 5
EU	Emission Unit
Facility	Veolia Environmental Services
gal	gallon
g	grams
HAP	Hazardous Air Pollutant
hr	hour
kg	kilogram
lb	pound
MACT	Maximum Achievable Control Technology
Mg	megagram
MMBtu	million British Thermal Units
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
Operator	Veolia Environmental Services
Permittee	Veolia Environmental Services
PM	Particulate Matter
PM ₁₀	Particulate matter less than 10 microns in diameter
ppm	parts per million
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
SO ₂	Sulfur Dioxide
VOC	Volatile Organic Compounds

1.0 Source Identification and Unit-Specific Information

(A) . General Source Information

Parent Company: Veolia ES, Technical Solutions, L.L.C
700 E. Butterfield Road
Lombard, Illinois 60148

Facility: Veolia ES, Technical Solutions, L.L.C
7 Mobile Avenue
Sauget, Illinois 62201

County: St.Clair

SIC Code: 4953

AFS Plant Identification Number: 1716300103

Description of Process: Veolia ES, Technical Services L.L.C. is a treatment, storage and disposal facility, which accepts offsite waste for further disposal through incineration. Containers and bulk shipments of hazardous and solid wastes are received, analyzed and transferred to temporary storage facilities, processed and incinerated in one of three combustion units.

(B) Source Emission Points

The emissions units located at the facility at the time of permit issuance are:

Emission Unit	Description	Manufacturer /Model	Date of Construction	Emission Control Equipment
Hazardous Waste Combustors	Incineration Unit #2 (Incinerator) with a Maximum Heat Capacity 16 mmBtu/hr	Trade Waste Incineration, TWI-2000, Series 2	9/1986	Joy-Niro Spray Dryer Absorber (SDA-2), Pulse Flo Fabric Filter (BH-2)
	Incineration Unit #3 (Incinerator)) with a Maximum Heat Capacity 16 mmBtu/hr	Trade Waste Incineration, TWI-2000, Series 2	9/1986	Joy-Niro Spray Dryer Absorber (SDA-3), Pulse Flo Fabric Filter (BH-3)
	Incineration Unit #4 (Rotary Kiln)) with a Maximum Heat Capacity 50 mmBtu/hr	International Waste Energy, PY*ROX	6/1988	Tempering Chamber, Activated Carbon Injection, Spray Dryer Absorber, Fabric Filter
Material Processing Areas	Waste Processing Units (Area 1 and Area 2)		1988	Carbon Adsorption Unit (MP-2 only)
	Lab Pack Repack Unit		1988	None
Drum Crusher	Empty drums are crushed		1984	None
Storage Tanks for	Tanks #2, #4, #6, #8, #10,	Modern Welding	1988	Carbon Canisters

Liquid Wastes	#20, #30, #40, #50, #60, #300, #302, #304, #306, #308, #310, #312, #314, and #390			
Bulk Feed Building	Temporary storage of bulk solid wastes in pits prior to being fed to incineration unit #4		1988	Cyclone, Airtol Baghouse (BF Bldg-BH-1), Carbon Adsorption Unit
Gasoline Storage Tanks	Design capacity - 564 gallons, equipped with submerged loading pipe		1992	None
Boiler	Natural Gas-Fired Boiler with a Maximum Heat Capacity 10.6 mmBtu/hr	Cleaver Brooks, 250	11/1995	None
Fugitive Emissions	Pumps, Valves, Open-End Lines and Compressors		N/A	None

2.1 Hazardous Waste Combustors, Units 2, 3 and 4

(A). **Emission Limitations and Standards** [40 C.F.R. § 71.6(a)(1)]

The Permittee shall comply with the following requirements for each individual incinerator unless specified otherwise:

1. Visible emission Limitation.

(a) The Permittee shall not cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission source, except as allowed by 35 IAC 212.123(b) and 212.124. [35 IAC 212.123(a)]

(b) The Permittee shall not cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally overhead at a point beyond the property line of the source unless the wind speed is greater than 40.2 kilometers per hour (25 miles per hour.) [35 IAC 212.301 and 212.314]

2. Sulfur Dioxide Limitation.

Total sulfur dioxide emissions from the facility shall not exceed 7.7 tons per year for units 2 and 3 and 50.76 tons per year for unit 4. [Construction permits 87100024 and 88010001]

3. Carbon Monoxide Limitation.

(a) Carbon monoxide in excess of 100 parts per million by volume, over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis and corrected to 7 percent oxygen. If the Permittee elects to comply with this carbon monoxide standard rather than the hydrocarbon standard set forth in 40 C.F.R. § 63.1203(a)(5)(ii), the Permittee must also document that, during the destruction and removal efficiency (DRE) test runs or their equivalent as provided by §63.1206(b)(7), hydrocarbons do not exceed 10 parts per million by volume during those runs, over an hourly rolling average (monitored continuously with a continuous

emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; or

Hydrocarbons in excess of 10 parts per million by volume (ppmv), over an hourly rolling average (monitored continuously with a continuous emissions monitoring system), dry basis, corrected to 7 percent oxygen, and reported as propane; [40 C.F.R. 63.1203(a)(5)]

(b) Carbon Monoxide emissions from the incinerator shall not exceed 500 ppm corrected to 50% excess air. [35 IAC 216.141, Construction permits 83120053, 87100024, and 88010001]

(c) Carbon Monoxide emissions from the facility shall not exceed 6.6 tons per year for units 2 and 3 and 13.86 tons per year for unit 4. [Construction permits 87100024 and 88010001]

4. Particulate Matter Limitation.

(a) The Permittee shall not cause or allow the emission of particulate matter into the atmosphere from any incinerator burning more than 0.907 megagram per hour (Mg/hr; 2,000 pound per hour (lb/hr)) but less than 27.2 Mg/hr (60,000 lb/hr) of refuse to exceed 183 milligrams per standard cubic meter (mg/scm; 0.08 grain per standard cubic foot (gr/scf)) of effluent gases corrected to 12 percent carbon dioxide [35 IAC 212.181(b)].

(b) Prior to October 14, 2008, Particulate matter in excess of 34 milligrams per dry standard cubic meter (mg/dscm) corrected to 7 percent oxygen. [40 C.F.R. § 63.1203(a)(7)]

(c) As of October 14, 2008, except as provided by 40 C.F.R. § 63.1219(e), particulate matter in excess of 0.013 grain per standard cubic foot (gr/scf), corrected to 7 percent oxygen. [40 C.F.R. § 63.1219(a)(7)]

(d) Total suspended solid emissions from the facility shall not exceed 15.0 tons per year for units 2 and 3 and 16.92 tons per year for unit 4. [Construction permits 87100024 and 88010001]

5. Volatile Organic Compounds Limitation.

(a) The Permittee shall not cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in Section 219.302 and the following exception: If no odor nuisance exists the limitation of this Subpart shall apply only to photochemically reactive material. Alternatively, pursuant to 35 IAC 219.302, a control device shall reduce such emissions either to 10 ppm equivalent methane (molecular weight 16) or less, or to convert 85 percent of the hydrocarbons to carbon dioxide and water.

(b) Organic material emissions from the facility shall not exceed 0.9 tons per year for units 2 and 3 and 3.1 tons per year for unit 4. [Construction permits 87100024 and 88010001]

6. Nitrogen Oxide Limitation.

Nitrogen Oxide emissions from the facility shall not exceed 4.0 tons per year for units 2 and 3 and 61.6 tons per year for unit 4. [Construction permits 87100024 and 88010001]

7. Hazardous Air Pollutant Limitations.

(a) Prior to October 14, 2008 [40 C.F.R. § 63.1203(a)]:

(i) For dioxins and furans: Emissions in excess of 0.20 ng TEQ/dscm corrected to 7 percent oxygen;
or

(ii) Mercury in excess of 130 micrograms per dry standard cubic meter ($\mu\text{g}/\text{dscm}$) corrected to 7 percent oxygen;

(iii) Lead and cadmium in excess of 240 $\mu\text{g}/\text{dscm}$, combined emissions, corrected to 7 percent oxygen;

(iv) Arsenic, beryllium, and chromium in excess of 97 µg/dscm, combined emissions, corrected to 7 percent oxygen;

(b) As of October 14, 2008 [40 C.F.R. § 63.1219(a)]:

(i) For dioxins and furans:

(A) For incinerators equipped with either a waste heat boiler or dry air pollution control system: Emissions in excess of 0.20 ng TEQ/dscm, corrected to 7 percent oxygen;

(B) Emissions in excess of 0.40 ng TEQ/dscm, corrected to 7 percent oxygen, for incinerators not equipped with either a waste heat boiler or dry air pollution control system;

(C) A source equipped with a wet air pollution control system followed by a dry air pollution control system is not considered to be a dry air pollution control system, and a source equipped with a dry air pollution control system followed by a wet air pollution control system is considered to be a dry air pollution control system for purposes of this standard;

(ii) Mercury in excess of 130 µg/dscm, corrected to 7 percent oxygen;

(iii) Cadmium and lead in excess of 230 µg/dscm, combined emissions, corrected to 7 percent oxygen;

(iv) Arsenic, beryllium, and chromium in excess of 92 µg/dscm, combined emissions, corrected to 7 percent oxygen;

(c) Emissions to the atmosphere from sludge incineration plants that process wastewater treatment plant sludges shall not exceed 3.2 kg (7.1 lb) of mercury per 24-hour period [40 C.F.R. § 61.52(b)].

(d) The Permittee shall design, install, operate, and maintain a treatment process that destroys benzene in the waste stream by incinerating the waste in a combustion unit that achieves a destruction efficiency

of 99 percent or greater for benzene [40 C.F.R. § 61.348(a)(1)(iii)].

(e) For a transfer system that consists of continuous hard-piping, all joints or seams between the pipe sections shall be permanently or semi-permanently sealed (e.g., a welded joint between two sections of metal pipe or a bolted and gasketed flange) [40 C.F.R. § 63.689(c)(2)].

8. Hydrogen Chloride Limitations.

(a) Prior to October 14, 2008 [40 C.F.R. § 63.1203(a)]:

Hydrochloric acid and chlorine gas in excess of 77 parts per million by volume, combined emissions, expressed as hydrochloric acid equivalents, dry basis and corrected to 7 percent oxygen.

(b) As of October 14, 2008 [40 C.F.R. § 63.1219(a)]:

Hydrogen chloride and chlorine gas (total chlorine) in excess of 32 parts per million by volume, combined emissions, expressed as a chloride (Cl^-) equivalent, dry basis and corrected to 7 percent oxygen.

(c) Hydrogen chloride emissions from incinerators 2 and 3 shall not exceed 4.0 pounds per hour or the control devices shall demonstrate a minimum HCl removal efficiency of 99%. [Construction permits 83120053 and 87100024]

9. Destruction and removal efficiency (DRE) standard [40 C.F.R. § 63.1203(c) and 40 C.F.R. § 63.1219(c)]:

(a) Each affected HWC must achieve a DRE of 99.99% for each principle organic hazardous constituent (POHC) designated under 40 C.F.R. §§ 63.1203(c)(3) and 63.1215(c)(3). DRE for each POHC shall be calculated from the following equation:

$$\text{DRE} = [1 - (W_{\text{OUT}}/W_{\text{IN}})] \times 100\%$$

Where:

W_{IN} = mass feedrate of one POHC in a waste feedstream;
and

W_{OUT} = mass emission rate of the same POHC present in exhaust emissions prior to release to the atmosphere

(b) Principal organic hazardous constituents (POHCs)

(i) The Permittee must treat the POHCs in the waste feed that Permittee specifies under 40 C.F.R. §§ 63.1203(c)(3)(ii) and 63.1219(c)(3)(ii) to the extent required by 63.1203 and 1219(c)(1).

(ii) The Permittee must specify one or more POHCs that are representative of the most difficult to destroy organic compounds in the hazardous waste feedstream. The Permittee must base this specification on the degree of difficulty of incineration of the organic constituents in the waste and on their concentration or mass in the waste feed, considering the results of waste analyses or other data and information.

(B). **Non-Applicability of Regulations of Concern** [40 C.F.R. § 71.6(f)(1)]

1. Units 2, 3, and 4 are not subject to 40 C.F.R. Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because units 2, 3, and 4 are required comply with a post-1990 MACT standard. [40 C.F.R. § 64.2(a)]
2. Units 2, 3, and 4 are not subject to 35 IAC Part 229 "Hospital Medical Infectious Waste Incinerators", because no hospital or medical infectious waste is accepted and processed by the source.

(C). **Work Practice and Operational Requirements** [40 C.F.R. § 71.6(a)(1)]

1. The Permittee shall not burn beryllium NESHAP containing waste, hospital medical infectious waste and municipal waste. [Section 504(a) of the CAA]
2. Until such time as the permittee has submitted a revised Part 71 application and a Notification of Compliance for each incinerator which documents compliance with the Subpart EEE emission standards and continuous monitoring system requirements, and

- identifies operating parameter limits (OPLs) as required by the February 22, 2008, Request to Provide Information, and the permitting authority has issued a modified permit which incorporates all requirements, including OPLs and associated monitoring requirements, necessary to assure compliance with the Hazardous Waste Combustor MACT, 40 C.F.R. part 63, subpart EEE, the Permittee is prohibited from burning waste containing mercury, arsenic, chromium, beryllium, cadmium, and lead. [504(a) of the Clean Air Act]
3. Compliance with standards [40 C.F.R. § 63.1206(b)(1)]
The emission standards and operating requirements set forth in Subpart EEE apply at all times except:
 - (i) During periods of startup, shutdown, and malfunction; and
 - (ii) When hazardous waste is not in the combustion chamber (i.e., the hazardous waste feed to the combustor has been cut off for a period of time not less than the hazardous waste residence time).
 4. If the Permittee plans to change (as defined in 40 C.F.R. § 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS, the Permittee must not burn hazardous waste for more than a total of 720 hours (renewable at the discretion of the Administrator) and only for the purposes of pretesting or comprehensive performance testing. Pretesting is defined at 40 C.F.R. § 63.1207(h)(2)(i) and (ii). However, the Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The Permittee must specify operating requirements, including limits on operating parameters, that the Permittee determines will ensure compliance with the emission standards of this subpart based on available information. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. [40 C.F.R. § 63.1206(b)(5)(i)(C)]

5. General Operating requirements [40 C.F.R. 63.1206(c) (1)]

(a) The Permittee must operate only under the operating requirements specified in the Documentation of Compliance under 40 C.F.R. § 63.1211(c) or the Notification of Compliance under 40 C.F.R. §§ 63.1207(j) and 63.1210(d), except:

- (i) During performance tests under approved test plans according to 40 C.F.R. § 63.1207(e), (f), and (g), and
- (ii) Under the conditions of 40 C.F.R. § 63.1206(b) (1) (i) or (ii) of this section.

(b) The Documentation of Compliance and the Notification of Compliance must contain operating requirements including, but not limited to, the operating requirements in this section and 40 C.F.R. § 63.1209.

(c) Failure to comply with the operating requirements is failure to ensure compliance with the emission standards of Subpart EEE.

6. Startup, Shutdown, and Malfunction plan [40 C.F.R. § 63.1206(c) (2)]

(a) The Permittee is subject to the startup, shutdown, and malfunction plan requirements of 40 C.F.R. § 63.6(e) (3). The source is subject to the following general provisions of Subpart A under 40 C.F.R. § 63.6(e) (3):

- (i) The Permittee must develop a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard. The startup, shutdown, and malfunction plan does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard. The purpose

of the startup, shutdown, and malfunction plan is to:

(A) Ensure that, at all times, the Permittee operates and maintains each affected source, including associated air pollution control and monitoring equipment, in a manner which satisfies the general duty to minimize emissions established by 40 C.F.R. § paragraph 63.6(e)(1)(i);

(B) Ensure that Permittee is prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and

(C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).

- (ii) The Permittee must maintain at the affected source a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Administrator. In addition, if the startup, shutdown, and malfunction plan is subsequently revised as provided in 40 C.F.R. § 63.6(e)(3)(viii), the Permittee must maintain at the affected source each previous (i.e., superseded) version of the startup, shutdown, and malfunction plan, and must make each such previous version available for inspection and copying by the Administrator for a period of 5 years after revision of the plan. If at any time after adoption of a startup, shutdown, and malfunction plan an affected source ceases operation or is otherwise no longer subject to the provisions of this part, the Permittee must retain a copy of the most recent plan for 5 years from the date the source ceases operation or is no longer subject to this part and must make the plan available upon request for inspection and copying by the Administrator. The Administrator may at any time request in writing that the

Permittee submit a copy of any startup, shutdown, and malfunction plan (or a portion thereof) which is maintained at the affected source or in the possession of the Permittee. Upon receipt of such a request, the Permittee must promptly submit a copy of the requested plan (or a portion thereof) to the Administrator. The Permittee may elect to submit the required copy of any startup, shutdown, and malfunction plan to the Administrator in an electronic format. If the Permittee claims that any portion of such a startup, shutdown, and malfunction plan is confidential business information entitled to protection from disclosure under section 114(c) of the Act or 40 C.F.R. § 2.301, the material which is claimed as confidential must be clearly designated in the submission.

(iii) To satisfy the requirements of this section to develop a startup, shutdown, and malfunction plan, the Permittee may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection when requested by the Administrator.

(iv) Based on the results of a determination made under 63.6(e)(1)(i), the Administrator may require that the Permittee make changes to the startup, shutdown, and malfunction plan for that source. The Administrator must require appropriate revisions to a startup, shutdown, and malfunction plan, if the Administrator finds that the plan:

(A) Does not address a startup, shutdown, or malfunction event that has occurred;

(B) Fails to provide for the operation of the source (including associated air pollution control and monitoring equipment) during a startup, shutdown, or malfunction event in a manner consistent with the general duty to minimize emissions established by 40 C.F.R. § 63.6(e)(1)(i);

(C) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control and monitoring equipment as quickly as practicable; or

(D) Includes an event that does not meet the definition of startup, shutdown, or malfunction listed in 40 C.F.R. § 63.2.

- (v) The Permittee may periodically revise the startup, shutdown, and malfunction plan for the affected source as necessary to satisfy the requirements of this part or to reflect changes in equipment or procedures at the affected source. Unless the permitting authority provides otherwise, the Permittee may make such revisions to the startup, shutdown, and malfunction plan without prior approval by the Administrator or the permitting authority. However, each such revision to a startup, shutdown, and malfunction plan must be reported in the quarterly report. If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the Permittee developed the plan, the Permittee must revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment. In the event that the Permittee makes any revision to the startup, shutdown, and malfunction plan which alters the scope of the activities at the source which are deemed to be a startup, shutdown, or malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement, or other requirement in a standard established under this part, the revised plan shall not take effect until after the Permittee has provided a written notice describing the revision to the permitting authority.

(vi) Any revisions made to the startup, shutdown, and malfunction plan in accordance with the procedures established by this part shall not be deemed to constitute permit revisions under part 70 or part 71 of this chapter and the elements of the startup, shutdown, and malfunction plan shall not be considered an applicable requirement as defined in 40 C.F.R. § 70.2 and 40 C.F.R. § 71.2. Moreover, none of the procedures specified by the startup, shutdown, and malfunction plan for an affected source shall be deemed to fall within the permit shield provision in section 504(f) of the Act.

(b) The Permittee is subject to the following provisions of 40 C.F.R. § 63.1206(c) (2):

(i) The Permittee must identify in the startup, shutdown, and malfunction plan a projected oxygen correction factor based on normal operations to use during periods of startup and shutdown.

(ii) The Permittee must record the startup, shutdown, and malfunction plan in the operating record.

(iii) Operating under the startup, shutdown, and malfunction plan:

(A) Compliance with AWFCO requirements during malfunctions:

(1) During malfunctions, the automatic waste feed cutoff requirements of 40 C.F.R. § 63.1206(c) (3) continue to apply, except for 40 C.F.R. § 63.1206(c) (3) (v) and (c) (3) (vi) of this section. If there is an exceedance of a Part 63, Subpart EEE, emission standard monitored by a CEMS or COMs or operating limit specified under 40 C.F.R. § 63.1209, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed, except as provided by 40 C.F.R. § 63.1206(c) (3) (viii). If the malfunction itself prevents immediate and automatic cutoff of the hazardous waste feed, the

Permittee must cease feeding hazardous waste as quickly as possible.

- (2) Although the automatic waste feed cutoff requirements continue to apply during a malfunction, an exceedance of an emission standard monitored by a CEMS or COMS or operating limit specified under 40 C.F.R. § 63.1209 is not a violation of subpart EEE if the source continues to operate in accordance with 40 C.F.R. § 63.6(e)(1).
- (3) Excessive exceedances during malfunctions. For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittee must:
 - Within 45 days of the 10th exceedance, complete an investigation of the cause of each exceedance and evaluation of approaches to minimize the frequency, duration, and severity of each exceedance, and revise the startup, shutdown, and malfunction plan as warranted by the evaluation to minimize the frequency, duration, and severity of each exceedance; and
 - Record the results of the investigation and evaluation in the operating record, and include a summary of the investigation and evaluation, and any changes to the startup, shutdown, and malfunction plan, in the excess emissions report required under 40 C.F.R. § 63.10(e)(3).

(B) Compliance with AWFCO requirements when burning hazardous waste during startup and shutdown:

- (1) If the permittee feeds hazardous waste during startup or shutdown, the permittee must include waste feed restrictions (e.g., type and quantity), and other appropriate operating conditions and limits in the startup, shutdown, and malfunction plan.
- (2) The permittee must interlock the operating limits you establish under 40 CFR 63.1206 (c) (2) (v) (B) (1) with the automatic waste feed cutoff system required under §63.1206(c) (3), except for 40 C.F.R. § 63.1206 (c) (3) (v) and (c) (3) (vi).
- (3) When feeding hazardous waste during startup or shutdown, the automatic waste feed cutoff system must immediately and automatically cutoff the hazardous waste feed if the permittee exceeds the operating limits you establish under 40 C.F.R. § 63.1206 (c) (2) (v) (B) (1) of this section, except as provided by 40 C.F.R. § 63.1206 (c) (3) (viii).
- (4) Although the automatic waste feed cutoff requirements of 40 C.F.R. § 63.1206 (c) (2) (v) (B) (4) apply during startup and shutdown, an exceedance of an emission standard or operating limit is not a violation of this subpart EEE if the permittee operates in accordance with §63.6(e) (1).

(c) Malfunction, Startup and Shutdown provisions of Subpart EEE discussed above do not release the Permittee from compliance with opacity, PM and CO limits and the following requirements of 35 IAC 201.149.

4. Automatic waste feed cutoff (AWFCO) [40 C.F.R. § 63.1206(c) (3) (i)]

(a) The Permittee must operate the hazardous waste combustor with a functioning AWFCO system that immediately and automatically cuts off the hazardous waste feed, except as provided by 40 C.F.R. § 63.1206(c) (3) (viii):

- (i) When any of the following are exceeded: Operating parameter limits specified under 40 C.F.R. § 63.1209; an emission standard monitored by a CEMS; and the allowable combustion chamber pressure;
- (ii) When the span value of any CMS detector, except a CEMS, is met or exceeded;
- (iii) Upon malfunction of a CMS monitoring an operating parameter limit specified under 40 C.F.R. § 63.1209 or an emission level; or
- (iv) When any component of the automatic waste feed cutoff system fails.

(b) Ducting of combustion gases. During an AWFCO, the Permittee must continue to duct combustion gasses to the air pollution control system while hazardous waste remains in the combustion chamber (i.e., if the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated).

(c) Restarting waste feed. The Permittee must continue to monitor during the cutoff the operating parameters for which limits are established under 40 C.F.R. § 63.1209 and the emissions required under that section to be monitored by a CEMS, and must not restart the hazardous waste feed until the operating parameters and emission levels are within the specified limits.

(d) Failure of the AWFCO system. If the AWFCO system fails to automatically and immediately cutoff the flow of hazardous waste upon exceedance of a parameter required to be interlocked with the AWFCO system under 40 C.F.R. § 63.1206(3)(i), the Permittee has failed to comply with the AWFCO requirements of 40 C.F.R. § 63.1206(3). If an equipment or other failure prevents immediate and automatic cutoff of the hazardous waste feed, however, the Permittee must cease feeding hazardous waste as quickly as possible.

(e) Corrective measures. If, after any AWFCO, there is an exceedance of an emission standard or operating

requirement, irrespective of whether the exceedance occurred while hazardous waste remained in the combustion chamber (i.e., whether the hazardous waste residence time has transpired since the hazardous waste feed cutoff system was activated), the Permittee must investigate the cause of the AWFCO, take appropriate corrective measures to minimize future AWFCOs, and record the findings and corrective measures in the operating record.

(f) Ramping down waste feed.

(i) The Permittee may ramp down the waste feedrate of pumpable hazardous waste over a period not to exceed 1 minute, except as provided by 40 C.F.R. § 63.1206(c)(3)(viii)(B). If the Permittee elects to ramp down the waste feed, the Permittee must document ramp down procedures in the operating and maintenance plan. The procedures must specify that the ramp down begins immediately upon initiation of automatic waste feed cutoff and the procedures must prescribe a bona fide ramping down. If an emission standard or operating limit is exceeded during the ramp down, the Permittee have failed to comply with the emission standards or operating requirements of this subpart.

(ii) If the automatic waste feed cutoff is triggered by an exceedance of any of the following operating limits, the Permittee may not ramp down the waste feed cutoff: Minimum combustion chamber temperature, maximum hazardous waste feedrate, or any hazardous waste firing system operating limits that may be established for its combustor.

(e) Compliance with the requirements of the AWFCO in Subpart EEE will assure compliance with the requirements for a waste cutoff interlock system required by Construction permit 83120053.

5. ESV openings [40 C.F.R. § 63.1206(c)(4)]

(a) Failure to meet standards. If an emergency safety vent (ESV) opens when hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not expired) during an event other than a malfunction as defined in the startup,

shutdown, and malfunction plan such that combustion gases are not treated as during the most recent comprehensive performance test (e.g., if the combustion gas by-passes any emission control device that was operating during the performance test), the Permittee must document in the operating record whether the source remained in compliance with the emission standards of Subpart EEE considering emissions during the ESV opening event.

(b) ESV operating plan.

(i) The Permittee must develop an ESV operating plan, comply with the operating plan, and keep the plan in the operating record.

(ii) The ESV operating plan must provide detailed procedures for rapidly stopping the waste feed, shutting down the combustor, and maintaining temperature and negative pressure in the combustion chamber during the hazardous waste residence time, if feasible. The plan must include calculations and information and data documenting the effectiveness of the plan's procedures for ensuring that combustion chamber temperature and negative pressure are maintained as is reasonably feasible.

(c) Corrective measures. After any ESV opening that results in a failure to meet the emission standards as defined in 40 C.F.R. § 63.1206(c)(4)(i), the Permittee must investigate the cause of the ESV opening, take appropriate corrective measures to minimize such future ESV openings, and record the findings and corrective measures in the operating record.

6. Combustion system leaks [40 C.F.R. 63.1206(c)(5)]

(a) Combustion system leaks of hazardous air pollutants must be controlled by maintaining the maximum combustion zone pressure lower than ambient pressure using an instantaneous monitor; and

(b) The Permittee must specify in the performance test workplan and Notification of Compliance the method that will be used to control combustion system leaks. The Permittee controls combustion system leaks by

maintaining the combustion zone pressure lower than ambient pressure using an instantaneous monitor, the Permittee must also specify in the performance test workplan and Notification of Compliance the monitoring and recording frequency of the pressure monitor, and specify how the monitoring approach is integrated into the automatic waste feed cutoff system.

7. Operator training and certification [40 C.F.R. § 63.1206(c)(6)]

(a) The Permittee must establish training programs for all categories of personnel whose activities may reasonably be expected to directly affect emissions of hazardous air pollutants from the source. Such persons include, but are not limited to, chief facility operators, control room operators, continuous monitoring system operators, persons that sample and analyze feedstreams, persons that manage and charge feedstreams to the combustor, persons that operate emission control devices, and ash and waste handlers. Each training program shall be of a technical level commensurate with the person's job duties specified in the training manual. Each commensurate training program shall require an examination to be administered by the instructor at the end of the training course. Passing of this test shall be deemed the "certification" for personnel, except that, for control room operators, the training and certification program shall be as specified in 40 C.F.R. § 63.1206(c)(6)(iii) through (c)(6)(vi).

(b) The Permittee must ensure that the source is operated and maintained at all times by persons who are trained and certified to perform these and any other duties that may affect emissions of hazardous air pollutants. A certified control room operator must be on duty at the site at all times the source is in operation.

(c) Hazardous waste incinerator control room operators must:

- (i) Be trained and certified under a site-specific, source-developed and implemented program that meets the requirements of 40 C.F.R. § 63.1206(c)(6)(v); or

(ii) Be trained under the requirements of, and certified under, one of the following American Society of Mechanical Engineers (ASME) standards: QHO-1-1994, QHO-1a-1996, or QHO-1-2004 (Standard for the Qualification and Certification of Hazardous Waste Incinerator Operators). If the Permittee elects to use the ASME program:

(A) Control room operators must, prior to the compliance date, achieve provisional certification, and must submit an application to ASME and be scheduled for the full certification exam. Within 1 year of the compliance date, control room operators must achieve full certification;

(B) New operators and operators of new sources must, before assuming their duties, achieve provisional certification, and must submit an application to ASME, and be scheduled for the full certification exam. Within 1 year of assuming their duties, these operators must achieve full certification; or

(iii) Be trained and certified under a State program.

(d) Site-specific, source developed and implemented training programs for control room operators must include the following elements:

(i) Training on the following subjects:

(A) Environmental concerns, including types of emissions;

(B) Basic combustion principles, including products of combustion;

(C) Operation of the specific type of combustor used by the operator, including proper startup, waste firing, and shutdown procedures;

(D) Combustion controls and continuous monitoring systems;

- (E) Operation of air pollution control equipment and factors affecting performance;
 - (F) Inspection and maintenance of the combustor, continuous monitoring systems, and air pollution control devices;
 - (G) Actions to correct malfunctions or conditions that may lead to malfunction;
 - (H) Residue characteristics and handling procedures; and
 - (I) Applicable Federal, state, and local regulations, including Occupational Safety and Health Administration workplace standards; and
- (ii) An examination designed and administered by the instructor; and
 - (iii) Written material covering the training course topics that may serve as reference material following completion of the course.
- (e) To maintain control room operator qualification under a site-specific, source developed and implemented training program as provided by 40 C.F.R. § 63.1206(c) (6) (v), control room operators must complete an annual review or refresher course covering, at a minimum, the following topics:
- (i) Update of regulations;
 - (ii) Combustor operation, including startup and shutdown procedures, waste firing, and residue handling;
 - (iii) Inspection and maintenance;
 - (iv) Responses to malfunctions or conditions that may lead to malfunction; and
 - (v) Operating problems encountered by the operator.
- (f) The Permittee must record the operator training and certification program in the operating record.

8. Operation and maintenance plan [40 C.F.R. § 63.1206(c)(7)]

(a) The Permittee must prepare and at all times operate according to an operation and maintenance plan that describes in detail procedures for operation, inspection, maintenance, and corrective measures for all components of the combustor, including associated pollution control equipment, that could affect emissions of regulated hazardous air pollutants.

(b) The plan must prescribe how the source will operate and maintain the combustor in a manner consistent with good air pollution control practices for minimizing emissions at least to the levels achieved during the comprehensive performance test.

(c) This plan ensures compliance with the operation and maintenance requirements of 40 C.F.R. § 63.6(e) and minimizes emissions of pollutants, automatic waste feed cutoffs, and malfunctions.

(d) The Permittee must record the plan in the operating record.

9. Compliance with Subpart EEE will assume compliance with the requirements for Waste Feed cutoff interlock system and Sensors from Construction permits 87100024, 88010001, and 83120053.

10. The incinerators and associated air pollution control equipment shall be constructed such that the values of the parameters monitored and/or indicators of acceptable status are displayed for operating personnel with audible and visual alarms. [Construction permits 87100024, 88010001, and 83120053]

(D). **Monitoring and Testing** [40 C.F.R. § 71.6(a)(3)(i)(A)]

1. Continuous emissions monitoring systems (CEMS) and continuous opacity monitoring systems (COMS) [40 C.F.R. § 63.1209(a)]:

(a) The Permittee must use either a carbon monoxide or hydrocarbon CEMS to demonstrate any monitor compliance with the carbon monoxide or hydrocarbon standard. The

Permittee must also use an oxygen CEMS to continuously correct the carbon monoxide to 7 percent oxygen.

(b) The Permittee must install, calibrate, maintain, and operate a particulate matter CEMS to demonstrate and monitor compliance with the particulate matter standards under Subpart EEE. However, compliance with the requirements in 40 C.F.R. § 63.1209 to install, calibrate, maintain, and operate the PM CEMS is not required until such time that the EPA promulgates all performance specifications and operational requirements applicable to PM CEMS.

(c) Performance specifications. The Permittee must install, calibrate, maintain, and continuously operate the CEMS and COMS in compliance with the quality assurance procedures provided in the appendix to Subpart EEE and Performance Specifications 1 (opacity), 4B (carbon monoxide and oxygen), and 8A (hydrocarbons) in Appendix B of 40 C.F.R. Part 60.

(d) Carbon monoxide readings exceeding the span should be recorded in accordance with the following requirements of 40 C.F.R. § 63.1209(a)(3):

- (i) Except as provided by § 63.1209(a)(3)(ii), if a carbon monoxide CEMS detects a response that results in a 1-minute average at or above the 3,000 ppmv span level required by Performance Specification 4B in appendix B, part 60, the 1-minute average must be recorded as 10,000 ppmv. The 1-minute 10,000 ppmv value must be used for calculating the hourly rolling average carbon monoxide level.
- (ii) Carbon monoxide CEMS that use a span value of 10,000 ppmv when 1-minute carbon monoxide levels are equal to or exceed 3,000 ppmv are not subject to 40 C.F.R. § 63.1209(a)(3)(i). Carbon monoxide CEMS that use a span value of 10,000 are subject to the same CEMS performance and equipment specifications when operating in the range of 3,000 ppmv to 10,000 ppmv that are provided by Performance Specification 4B for other carbon monoxide CEMS, except:

- (A) Calibration drift must be less than 300 ppmv;
and
 - (B) Calibration error must be less than 500 ppmv.
- (e) Hydrocarbon readings exceeding the span.
- (i) Except as provided by §63.1209(a)(4)(ii), if a hydrocarbon CEMS detects a response that results in a 1-minute average at or above the 100 ppmv span level required by Performance Specification 8A in appendix B, part 60 of this chapter, the 1-minute average must be recorded as 500 ppmv. The 1-minute 500 ppmv value must be used for calculating the hourly rolling average HC level.
 - (ii) Hydrocarbon CEMS that use a span value of 500 ppmv when 1-minute hydrocarbon levels are equal to or exceed 100 ppmv are not subject to §63.1209(a)(4)(i). Hydrocarbon CEMS that use a span value of 500 ppmv are subject to the same CEMS performance and equipment specifications when operating in the range of 100 ppmv to 500 ppmv that are provided by Performance Specification 8A for other hydrocarbon CEMS, except:
 - (A) The zero and high-level calibration gas must have a hydrocarbon level of between 0 and 100 ppmv, and between 250 and 450 ppmv, respectively;
 - (B) The strip chart recorder, computer, or digital recorder must be capable of recording all readings within the CEM measurement range and must have a resolution of 2.5 ppmv;
 - (C) The CEMS calibration must not differ by more than ± 15 ppmv after each 24-hour period of the seven day test at both zero and high levels;
 - (D) The calibration error must be no greater than 25 ppmv; and
 - (E) The zero level, mid-level, and high level calibration gas used to determine calibration error must have a hydrocarbon level of 0-200

ppmv, 150-200 ppmv, and 350-400 ppmv, respectively.

(f) Petitions to use CEMS for other standards. The Permittee may petition U.S. EPA to use CEMS for compliance monitoring for particulate matter, mercury, semi-volatile metals, low volatile metals, and hydrogen chloride and chlorine gas under 40 C.F.R. § 63.8(f) in lieu of compliance with the corresponding operating parameter limits.

(g) Calculation of rolling averages should be done in accordance with the following requirements of 40 C.F.R. § 63.1209(a)(6):

(i) Calculation of rolling averages upon intermittent operations. The Permittee must ignore periods of time when 1-minute values are not available for calculating the hourly rolling average. When 1-minute values become available again, the first 1-minute value is added to the previous 59 values to calculate the hourly rolling average.

(ii) Calculation of rolling averages when the hazardous waste feed is cutoff.

(A) Except as provided by 63.1209(a)(6)(iii)(B), the Permittee must continue monitoring carbon monoxide when the hazardous waste feed is cutoff if the source is operating. The Permittee must not resume feeding hazardous waste if the emission levels exceed the standard.

(B) The Permittee is not subject to the CEMS requirements of this subpart during periods of time the Permittee meets the requirements of §63.1206(b)(1)(ii) (compliance with emissions standards for nonhazardous waste burning sources when the Permittee is not burning hazardous waste).

(h) Operating parameter limits for hydrocarbons. If the Permittee elects to comply with the carbon monoxide and hydrocarbon emission standard by continuously monitoring carbon monoxide with a CEMS, the Permittee must demonstrate that hydrocarbon emissions during the comprehensive performance test do

not exceed the hydrocarbon emissions standard. In addition, the limits the Permittee established on the destruction and removal efficiency (DRE) operating parameters required under 40 C.F.R. § 63.1209(j) also ensure that the Permittee maintains compliance with the hydrocarbon emission standard. If the Permittee does not conduct the hydrocarbon demonstration and DRE tests concurrently, separate operating parameter limits under 40 C.F.R. § 63.1209(j) shall be established based on each test and the more restrictive of the operating parameter limits applies.

2. Other continuous monitoring systems (CMS) [40 C.F.R. § 63.1209(b)]:

(a) The Permittee must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under § 63.1209.

(b) Except as specified in 40 C.F.R. § 63.1209(b)(2)(i) and (ii), the Permittee must install and operate continuous monitoring systems other than CEMS in conformance with 40 C.F.R. § 63.8(c)(3) that requires, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system:

(i) Calibration of thermocouples and pyrometers. The calibration of thermocouples must be verified at a frequency and in a manner consistent with manufacturer specifications, but no less frequent than once per year. The Permittee must operate and maintain optical pyrometers in accordance with manufacturer specifications unless otherwise approved by the Administrator. The Permittee must calibrate optical pyrometers in accordance with the frequency and procedures recommended by the manufacturer, but no less frequent than once per year, unless otherwise approved by the Administrator.

(ii) Accuracy and calibration of weight measurement devices for activated carbon injection systems. The Permittee operates a carbon injection system, the accuracy of the weight measurement device

must be ± 1 percent of the weight being measured. The calibration of the device must be verified at least once each calendar quarter at a frequency of approximately 120 days.

(c) A CMS must sample the regulated parameter without interruption, and evaluate the detector response at least once each 15 seconds, and compute and record the average values at least every 60 seconds.

(d) The span of the non-CEMS CMS detector must not be exceeded. The Permittee must interlock the span limits into the automatic waste feed cutoff system required by 40 C.F.R. § 63.1206(c)(3).

(e) Calculation of rolling averages.

(i) Calculation of rolling averages upon intermittent operations. The Permittee must ignore periods of time when 1-minute values are not available for calculating rolling averages. When 1-minute values become available again, the first 1-minute value is added to the previous 1-minute values to calculate rolling averages.

(ii) Calculation of rolling averages when the hazardous waste feed is cutoff.

(A) Except as provided by §63.1209

(b)(5)(iii)(B), the Permittee must continue monitoring operating parameter limits with a CMS when the hazardous waste feed is cutoff if the source is operating. The Permittee must not resume feeding hazardous waste if an operating parameter exceeds its limit.

(B) The Permittee is not subject to the CMS requirements during periods of time the Permittee meets the requirements of §63.1206(b)(1)(ii) (compliance with emissions standards for nonhazardous waste burning sources when the Permittee is not burning hazardous waste).

3. Bag leak detection system requirements [40 C.F.R. § 63.1206(c)(8)]

The Permittee must continuously operate a bag leak detection system under the following requirements:

- (a) A bag leak detection system that meets the specifications and requirements of 40 C.F.R. § 63.1206(c)(8)(ii), and the Permittee must comply with the corrective measures and notification requirements of § 63.1206(c)(8)(iii) and (iv).
- (b) Bag leak detection system specification and requirements:
 - (i) The bag leak detection system must be certified by the manufacturer to be capable of continuously detecting and recording particulate matter emissions at concentrations of 1.0 milligram per actual cubic meter unless the Permittee demonstrates, under 40 C.F.R. § 63.1209(g)(1), that a higher detection limit would routinely detect particulate matter loadings during normal operations;
 - (ii) The bag leak detection system shall provide output of relative or absolute particulate matter loadings;
 - (iii) The bag leak detection system shall be equipped with an alarm system that will sound an audible alarm when an increase in relative particulate loadings is detected over a preset level;
 - (iv) The bag leak detection system shall be installed and operated in a manner consistent with available written guidance from the U.S. EPA or, in the absence of such written guidance, the manufacturer's written specifications and recommendations for installation, operation, and adjustment of the system;
 - (v) The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time;

(vi) Following initial adjustment, the Permittee must not adjust the sensitivity or range, averaging period, alarm set points, or alarm delay time, except as detailed in the operation and maintenance plan required under 40 C.F.R. § 63.1206(c)(7). The Permittee must not increase the sensitivity by more than 100 percent or decrease the sensitivity by more than 50 percent over a 365-day period unless such adjustment follows a complete baghouse inspection which demonstrates the baghouse is in good operating condition; and

(vii) The bag leak detector shall be installed downstream of the baghouse and upstream of any wet acid gas scrubber. Where multiple detectors are required, the system's instrumentation and alarm system may be shared among the detectors.

(c) Bag leak detection system corrective measures requirements. The operating and maintenance plan required by 40 C.F.R. § 63.1206(c)(7) must include a corrective measures plan that specifies the procedures the Permittee will follow in the case of a bag leak detection system alarm. The corrective measures plan must include, at a minimum, the procedures used to determine and record the time and cause of the alarm as well as the corrective measures taken to correct the control device malfunction or minimize emissions as specified below. Failure to initiate the corrective measures required by this paragraph is failure to ensure compliance with the emission standards in Subpart EEE.

(i) The Permittee must initiate the procedures used to determine the cause of the alarm within 30 minutes of the time the alarm first sounds; and

(ii) The Permittee must alleviate the cause of the alarm by taking the necessary corrective measure(s) which may include, but are not to be limited to, the following:

(A) Inspecting the baghouse for air leaks, torn or broken filter elements, or any other malfunction that may cause an increase in emissions;

- (B) Sealing off defective bags or filter media;
- (C) Replacing defective bags or filter media, or otherwise repairing the control device;
- (D) Sealing off a defective baghouse compartment;
- (E) Cleaning the bag leak detection system probe, or otherwise repairing the bag leak detection system; or
- (F) Shutting down the combustor.

4. Analysis of feedstreams [40 C.F.R. § 63.1209(c)]:

(a) General. Prior to feeding the material, the Permittee must obtain an analysis of each feedstream that is sufficient to document compliance with the applicable feedrate limits provided by 40 C.F.R. § 63.1209.

(b) Feedstream analysis plan. The Permittee must develop and implement a feedstream analysis plan and record it in the operating record. The plan must specify at a minimum:

- (i) The parameters for which the Permittee will analyze each feedstream to ensure compliance with the operating parameter limits of this section;
- (ii) Whether the Permittee will obtain the analysis by performing sampling and analysis or by other methods, such as using analytical information obtained from others or using other published or documented data or information;
- (iii) How the Permittee will use the analysis to document compliance with applicable feedrate limits (e.g., if the Permittee blends hazardous wastes and obtains analyses of the wastes prior to blending but not of the blended, as-fired, waste, the plan must describe how the Permittee will determine the pertinent parameters of the blended waste);

(iv) The test methods which the Permittee will use to obtain the analyses;

(v) The sampling method which the Permittee will use to obtain a representative sample of each feedstream to be analyzed using sampling methods described in Appendix IX, Part 266, of Title 40, or an equivalent method; and

(vi) The frequency with which the Permittee will review or repeat the initial analysis of the feedstream to ensure that the analysis is accurate and up to date.

(c) Review and approval of analysis plan. The Permittee must submit the feedstream analysis plan to the permitting authority for review and approval, if requested.

(d) Compliance with feedrate limits. To comply with the applicable feedrate limits of this section, the Permittee must monitor and record feedrates as follows:

(i) Determine and record the value of the parameter for each feedstream by sampling and analysis or other method;

(ii) Determine and record the mass or volume flowrate of each feedstream by a CMS. If the Permittee determines flowrate of a feedstream by volume, the Permittee must determine and record the density of the feedstream by sampling and analysis (unless the Permittee report the constituent concentration in units of weight per unit volume (e.g., mg/l)); and

(iii) Calculate and record the mass feedrate of the parameter per unit time.

(e) Waiver of monitoring of constituents in certain feedstreams. The Permittee is not required to monitor levels of metals or chlorine in the following feedstreams to document compliance with the feedrate limits under this section provided that the Permittee documents in the comprehensive performance test plan the expected levels of the constituent in the

feedstream and account for those assumed feedrate levels in documenting compliance with feedrate limits: natural gas, process air, and feedstreams from vapor recovery systems.

(f) Performance evaluations [40 C.F.R. § 63.1209(d)]:

(i) The requirements of 40 C.F.R. § 63.8(d) (Quality control program) and (e) (Performance evaluation of continuous monitoring systems) apply, except that the Permittee must conduct performance evaluations of components of the CMS under the frequency and procedures (for example, submittal of performance evaluation test plan for review and approval) applicable to performance tests as provided by 40 C.F.R. § 63.1207.

(ii) The Permittee must comply with the quality assurance procedures for CEMS prescribed in the appendix to Subpart EEE.

(g) Conduct of monitoring [40 C.F.R. § 63.1209(e)]:
The provisions of 40 C.F.R. § 63.8(b) apply.

(h) Operation and maintenance of continuous monitoring systems [40 C.F.R. § 63.1209(f)]:

The provisions of § 63.8(c) apply except:

(i) Section 63.8(c)(3). The requirements of 63.1211(c), that requires CMSs to be installed, calibrated, and operational on the compliance date, shall be complied with instead of 63.8(c)(3); and

(ii) Section 63.8(c)(4)(ii). The performance specifications for carbon monoxide, hydrocarbon and oxygen CEMSs in subpart B, 40 C.F.R. Part 60 that requires detectors to measure the sample concentration at least once every 15 seconds for calculating an average emission rate once every 60 seconds shall be complied with instead of § 63.8(c)(4)(ii).

(j) Reduction of monitoring data [40 C.F.R. § 63.1209(h)]: The following provisions of 40 C.F.R. § 63.8(g) apply:

- (i) The Permittee of each CMS must reduce the monitoring data as specified in 63.8(g) (1) through (5).
- (ii) The Permittee of each COMS shall reduce all data to 6-minute averages calculated from 36 or more data points equally spaced over each 6-minute period. Data from CEMS for measurement other than opacity, unless otherwise specified in the relevant standard, shall be reduced to 1-hour averages computed from four or more data points equally spaced over each 1-hour period, except during periods when calibration, quality assurance, or maintenance activities pursuant to provisions of this part are being performed. During these periods, a valid hourly average shall consist of at least two data points with each representing a 15-minute period. Alternatively, an arithmetic or integrated 1-hour average of CEMS data may be used. Time periods for averaging are defined in 40 C.F.R. § 63.2.
- (iii) The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant).
- (iv) All emission data shall be converted into units of the relevant standard for reporting purposes using the conversion procedures specified in that standard. After conversion into units of the relevant standard, the data may be rounded to the same number of significant digits as used in that standard to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).
- (v) Monitoring data recorded during periods of unavoidable CMS breakdowns, out-of-control periods, repairs, maintenance periods, calibration checks, and zero (low-level) and high-level adjustments must not be included in any data average computed under this part. For the Permittee complying with the requirements of 63.10(b) (2) (vii) (A) or (B), data averages must include any data recorded during periods of monitor breakdown or malfunction.

(k) When an operating parameter is applicable to multiple standards [40 C.F.R. § 63.1209(i)]:

40 C.F.R. § 63.1209(j) through (p) require the Permittee to establish limits on operating parameters based on comprehensive performance testing to ensure the Permittee maintains compliance with the emission standards. For several parameters, the Permittee must establish a limit for the parameter to ensure compliance with more than one emission standard. An example is a limit on minimum combustion chamber temperature to ensure compliance with both the DRE standard of 40 C.F.R. § 63.1209(j) and the dioxin/furan standard of 40 C.F.R. § 63.1209(k). If the performance tests for such standards are not performed simultaneously, the most stringent limit for a parameter derived from independent performance tests applies.

(l) DRE [40 C.F.R. § 63.1209(j)]: To remain in compliance with the destruction and removal efficiency (DRE) standard, the Permittee must establish operating limits during the comprehensive performance test (or during a previous DRE test under provisions of 40 C.F.R. § 63.1206(b)(7) for the following parameters, unless the limits are based on manufacturer specifications, and comply with those limits at all times that hazardous waste remains in the combustion chamber (i.e., the hazardous waste residence time has not transpired since the hazardous waste feed cutoff system was activated):

(i) Minimum combustion chamber temperature.

(A) The Permittee must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The Permittee must document the temperature measurement location in the test plan the Permittee submit under 63.1207(e).

(B) The Permittee must establish a minimum hourly rolling average limit as the average of the test run averages.

(ii) Maximum flue gas flowrate or production rate

(A) As an indicator of gas residence time in the control device, the Permittee must establish and comply with a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run.

(B) The Permittee must comply with this limit on an hourly rolling average basis.

(iii) Maximum hazardous waste feedrate

(A) The Permittee must establish limits on the maximum pumpable and total (i.e., pumpable and nonpumpable) hazardous waste feedrate for each location where hazardous waste is fed.

(B) The Permittee must establish the limits as the average of the maximum hourly rolling averages for each run.

(C) The Permittee must comply with the feedrate limit(s) on an hourly rolling average basis.

(iv) Operation of waste firing system. The Permittee must specify operating parameters and limits to ensure that good operation of each hazardous waste firing system is maintained.

(m) Dioxins and furans [40 C.F.R. § 63.1209(k)]: The Permittee must comply with the dioxin and furans emission standard by establishing and complying with the following operating parameter limits. The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.

(i) Gas temperature at the inlet to a dry particulate matter control device.

Each combustor is equipped with a baghouse (fabric filter). Therefore, the Permittee must establish a limit on the maximum temperature of

the gas at the inlet to the device on an hourly rolling average. The Permittee must establish the hourly rolling average limit as the average of the test run averages.

(ii) Minimum combustion chamber temperature

(A) The Permittee must measure the temperature of each combustion chamber at a location that best represents, as practicable, the bulk gas temperature in the combustion zone. The Permittee must document the temperature measurement location in the test plan under 40 C.F.R. § 63.1207(e) and (f);

(B) The Permittee must establish a minimum hourly rolling average limit as the average of the test run averages.

(iii) Maximum flue gas flow rate or production rate

(A) As an indicator of gas residence time in the control device, the Permittee must establish and comply with a limit on the maximum flue gas flow rate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run.

(B) The Permittee must comply with this limit on an hourly rolling average basis.

(iv) Maximum hazardous waste feedrate

(A) The Permittee must establish limits on the maximum pumpable and total (pumpable and nonpumpable) waste feedrate for each location where waste is fed.

(B) The Permittee must establish the limits as the average of the maximum hourly rolling averages for each run.

(C) The Permittee must comply with the feedrate limit(s) on an hourly rolling average basis.

(v) Particulate matter operating limit

Combustor #4 is equipped with an activated carbon injection system, therefore, the Permittee must establish operating parameter limits on the particulate matter control device as specified by 40 C.F.R. § 63.1209(m)(1).

(vi) Activated carbon injection parameter limits

(A) Carbon feedrate. The Permittee must establish a limit on minimum carbon injection rate on an hourly rolling average calculated as the average of the test run averages for unit #4. If the carbon injection system injects carbon at more than one location, the Permittee must establish a carbon feedrate limit for each location.

(B) Carrier fluid. The Permittee must establish a limit on minimum carrier fluid (gas or liquid) flowrate or pressure drop as an hourly rolling average based on the manufacturer's specifications for unit #4. The Permittee must document the specifications in the test plan submitted under 40 C.F.R. § 63.1207(e) and (f).

(C) Carbon specification

(1) The Permittee must specify and use the brand (i.e., manufacturer) and type of carbon used during the comprehensive performance test until a subsequent comprehensive performance test is conducted, unless the Permittee documents in the site-specific performance test plan required under 40 C.F.R. § 63.1207(e) and (f) key parameters that affect adsorption and establish limits on those parameters based on the carbon used in the performance test.

(2) The Permittee may substitute at any time a different brand or type of carbon provided that the replacement has equivalent or improved properties compared to the carbon used in the performance test and conforms to

the key sorbent parameters identified under 40 C.F.R. § 63.1209(k)(6)(iii)(A). The Permittee must include in the operating record documentation that the substitute carbon will provide the same level of control as the original carbon.

(vii) Inhibitor feedrate parameter limits. If the Permittee feed a dioxin/furan inhibitor into the combustion system, the Permittee must establish limits for the following parameters:

(A) Minimum inhibitor feedrate. The Permittee must establish a limit on minimum inhibitor feedrate on an hourly rolling average as the average of the test run averages.

(B) Inhibitor specifications.

(1) The Permittee must specify and use the brand (i.e., manufacturer) and type of inhibitor used during the comprehensive performance test until a subsequent comprehensive performance test is conducted, unless The Permittee documents in the site-specific performance test plan required under §§ 63.1207(e) and (f) key parameters that affect the effectiveness of the inhibitor and establish limits on those parameters based on the inhibitor used in the performance test.

(2) The Permittee may substitute at any time a different brand or type of inhibitor provided that the replacement has equivalent or improved properties compared to the inhibitor used in the performance test and conforms to the key parameters the Permittee identifies under 40 C.F.R. §63.1209(k)(9)(ii)(A). The Permittee must include in the operating record documentation that the substitute inhibitor will provide the same level of control as the original inhibitor.

(n) Mercury [40 C.F.R. § 63.1209(l)]: The Permittee must comply with the mercury emission standard by

establishing and complying with the following operating parameter limits. The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.

(i) Feedrate of mercury. For incinerators, when complying with the mercury emission standards under 40 C.F.R. §§ 63.1203, 63.1216 and 63.1219, the Permittee must establish a 12-hour rolling average limit for the total feedrate of mercury in all feedstreams as the average of the test run averages.

(ii) Extrapolation of feedrate levels. In lieu of establishing mercury feedrate limits as specified in 40 C.F.R. § 63.1209(1)(1)(i), the Permittee may request as part of the performance test plan under 40 C.F.R. § 63.7(b) and (c) and 40 C.F.R. § 63.1207(e) and (f) to use the mercury feedrates and associated emission rates during the comprehensive performance test to extrapolate to higher allowable feedrate limits and emission rates. The extrapolation methodology will be reviewed and approved, as warranted, by U.S. EPA. The review will consider in particular whether:

(A) Performance test metal feedrates are appropriate (i.e., whether feedrates are at least at normal levels; depending on the heterogeneity of the waste, whether some level of spiking would be appropriate; and whether the physical form and species of spike material is appropriate); and

(B) Whether the extrapolated feedrates the Permittee requests are warranted considering historical metal feedrate data.

(iii) Activated carbon injection.

Incinerator #4 is equipped with an activated carbon injection system, therefore, the Permittee must establish operating parameter limits prescribed by 40 C.F.R. § 63.1209(k)(5) and (k)(6).

(o) Particulate matter [40 C.F.R. § 63.1209(m)]: The Permittee must comply with the particulate matter emission standard by establishing and complying with the following operating parameter limits. The Permittee must base the limits on operation during the comprehensive performance test, unless the limits are based on manufacturer specifications.

(i) Control device operating parameter limits.

The Permittee must ensure that the control device is properly operated and maintained as required by 40 C.F.R. § 63.1206(c)(7) and by monitoring the operation of the control device.

(A) During each comprehensive performance test conducted to demonstrate compliance with the particulate matter emissions standard, the Permittee must establish a range of operating values for the control device that is a representative and reliable indicator that the control device is operating within the same range of conditions as during the performance test. the Permittee must establish this range of operating values as follows:

- (1) The Permittee must select a set of operating parameters appropriate for the control device design that the Permittee determines to be a representative and reliable indicator of the control device performance.
- (2) The Permittee must measure and record values for each of the selected operating parameters during each test run of the performance test. A value for each selected parameter must be recorded using a continuous monitor.
- (3) For each selected operating parameter measured in accordance with the requirements of § 63.1209(m)(1)(iv)(A)(1), the Permittee must establish a minimum operating parameter limit or a maximum operating parameter limit, as appropriate for the parameter, to define the operating limits within which the control device can operate and still

continuously achieve the same operating conditions as during the performance test.

(4) The Permittee must prepare written documentation to support the operating parameter limits established for the control device and the Permittee must include this documentation in the performance test plan that the Permittee submits for review and approval. This documentation must include a description for each selected parameter and the operating range and monitoring frequency required to ensure the control device is being properly operated and maintained.

(B) The Permittee must install, calibrate, operate, and maintain a monitoring device equipped with a recorder to measure the values for each operating parameter selected in accordance with the requirements of § 63.1209(m) (1) (iv) (A) (1). The Permittee must install, calibrate, and maintain the monitoring equipment in accordance with the equipment manufacturer's specifications. The recorder must record the detector responses at least every 60 seconds, as required in the definition of continuous monitor.

(C) The Permittee must regularly inspect the data recorded by the operating parameter monitoring system at a sufficient frequency to ensure the control device is operating properly. An excursion is determined to have occurred any time that the actual value of a selected operating parameter is less than the minimum operating limit (or, if applicable, greater than the maximum operating limit) established for the parameter in accordance with the requirements of § 63.1209(m) (1) (iv) (A) (3).

(D) Operating parameters selected in accordance with § 63.1209(m) (1) (iv) may be based on manufacturer specifications provided the Permittee supports the use of manufacturer specifications in the performance test plan that the Permittee submits for review and approval.

(ii) Maximum flue gas flowrate or production rate.

(A) As an indicator of gas residence time in the control device, the Permittee must establish a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run.

(B) The Permittee must comply with this limit on an hourly rolling average basis.

(iii) Maximum ash feedrate.

The Permittee must establish a maximum ash feedrate limit as a 12-hour rolling average of the test run averages. This requirement is waived, however, if the Permittee complies with particulate matter detection system requirements under 40 C.F.R. § 63.1206(c) (9).

(p) Semi-volatile metals and low volatile metals [40 C.F.R. § 63.1209(n)]: The Permittee must comply with the semi-volatile metal (cadmium and lead) and low volatile metal (arsenic, beryllium, and chromium) emission standards by establishing and complying with the following operating parameter limits. The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.

(i) Maximum inlet temperature to dry particulate matter air pollution control device. The Permittee must establish a limit on the maximum inlet temperature to the primary dry metals emissions control device (e.g., baghouse) on an hourly rolling average basis as the average of the test run averages.

(ii) Maximum feedrate of semi-volatile and low volatile metals.

(A) General. The Permittee must establish feedrate limits for semi-volatile metals (cadmium and lead) and low volatile metals (arsenic,

beryllium, and chromium) as follows, except as provided by 40 C.F.R. § 63.1209(n)(2)(ii):

(B) For incinerators when complying with the emission standards under 40 C.F.R. §§ 63.1203 and 63.1219, the Permittee must establish 12-hour rolling average limits for the total feedrate of semivolatile and low volatile metals in all feedstreams as the average of the test run averages.

(C) LVM limits for pumpable wastes. The Permittee must establish separate feedrate limits for low volatile metals in pumpable feedstreams using the procedures prescribed above for total low volatile metals. Dual feedrate limits for both pumpable and total feedstreams are not required, however, if the Permittee the Permittee the total feedrate limit solely on the feedrate of pumpable feedstreams.

- (iii) Control device operating parameter limits (OPLs). The Permittee must establish operating parameter limits on the particulate matter control device as specified by 40 C.F.R. § 63.1209(m)(1);
- (iv) Maximum total chlorine and chloride feedrate. The Permittee must establish a 12-hour rolling average limit for the feedrate of total chlorine and chloride in all feedstreams as the average of the test run averages.
- (v) Maximum flue gas flowrate or production rate.

(A) As an indicator of gas residence time in the control device, the Permittee must establish a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run.

(B) The Permittee must comply with this limit on a hourly rolling average basis.

(q) Hydrogen chloride and chlorine gas [40 C.F.R. § 63.1209(o)]: The Permittee must comply with the hydrogen chloride and chlorine gas emission standard by establishing and complying with the following operating parameter limits. The Permittee must base the limits on operations during the comprehensive performance test, unless the limits are based on manufacturer specifications.

(i) Feedrate of total chlorine and chloride. The Permittee must establish a 12-hour rolling average limit for the total feedrate of chlorine (organic and inorganic) in all feedstreams as the average of the test run averages.

(ii) Maximum flue gas flowrate or production rate.

(A) As an indicator of gas residence time in the control device, the Permittee must establish a limit on the maximum flue gas flowrate, the maximum production rate, or another parameter that the Permittee documents in the site-specific test plan as an appropriate surrogate for gas residence time, as the average of the maximum hourly rolling averages for each run.

(B) The Permittee must comply with this limit on an hourly rolling average basis.

(iii) Dry Scrubber. The combustor is equipped with a dry scrubber, therefore, the Permittee must establish the following operating parameter limits:

(A) Minimum sorbent feedrate. The Permittee must establish a limit on minimum sorbent feedrate on an hourly rolling average as the average of the test run averages.

(B) Minimum carrier fluid flowrate or nozzle pressure drop. The Permittee must establish a limit on minimum carrier fluid (gas or liquid) flowrate or nozzle pressure drop based on manufacturer's specifications.

(C) Sorbent specifications:

- (1) The Permittee must specify and use the brand (i.e., manufacturer) and type of sorbent used during the comprehensive performance test until a subsequent comprehensive performance test is conducted, unless the Permittee documents in the site-specific performance test plan required under 40 C.F.R. § 63.1207(e) and (f) key parameters that affect adsorption and establish limits on those parameters based on the sorbent used in the performance test.

- (2) The Permittee may substitute at any time a different brand or type of sorbent provided that the replacement has equivalent or improved properties compared to the sorbent used in the performance test and conforms to the key sorbent parameters the Permittee identifies under 40 C.F.R. § 63.1209(o)(4)(iii)(A). The Permittee must record in the operating record documentation that the substitute sorbent will provide the same level of control as the original sorbent.

(r) Maximum combustion chamber pressure [40 C.F.R. § 63.1209(p): The Permittee must monitor the pressure instantaneously and the automatic waste feed cutoff system must be engaged when negative pressure is not maintained.

(s) Operating under different modes of operation [40 C.F.R. § 63.1209(q): The Permittee has not established different mode of operation. Therefore, the source shall only operate under the terms and conditions identified in this permit.

(t) Significant figures. The emission limits provided in 40 C.F.R. §§ 63.1203 and 63.1219(a) and (b) are presented with two significant figures. Although the Permittee must perform intermediate calculations using at least three significant figures, the Permittee may round the resultant emission levels to two significant figures to document compliance. [40 C.F.R. §§ 63.1203(d) and 63.1219(d)]

5. If the Permittee plans to change (as defined in 40 C.F.R. § 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS, the Permittee must conduct a comprehensive performance test under the requirements of §§ 63.1207(f)(1) and (g)(1) to document compliance with the affected emission standard(s) and establish operating parameter limits as required under §63.1209, and submit to the Administrator a Notification of Compliance under §§ 63.1207(j) and 63.1211(c). [40 C.F.R. § 63.1206(b)(5)(i)(B)]

6. Compliance with the carbon monoxide and hydrocarbon emission standards. [40 C.F.R. § 63.1206(b)(6)] This paragraph applies to sources that elect to comply with the carbon monoxide and hydrocarbon emissions standards of subpart EEE by documenting continuous compliance with the carbon monoxide standard using a continuous emissions monitoring system and documenting compliance with the hydrocarbon standard during the destruction and removal efficiency (DRE) performance test or its equivalent.

(a) If during the acceptable DRE test the Permittee did not obtain hydrocarbon emissions data sufficient to document compliance with the hydrocarbon standard, the Permittee must either:

(i) Perform, as part of the performance test, an "equivalent DRE test" to document compliance with the hydrocarbon standard. An equivalent DRE test is comprised of a minimum of three runs each with a minimum duration of 1 hour during which the Permittee operates the combustor as close as reasonably possible to the operating parameter limits that the Permittee established based on the initial DRE test. The Permittee must use the highest hourly rolling average hydrocarbon emission level achieved during the equivalent DRE test to document compliance with the hydrocarbon standard; or

(ii) Perform a DRE test as part of the performance test.

7. The provisions of § 63.7 apply, except as noted below.
[40 C.F.R. § 63.1207(a)]

8. Types of performance tests [40 C.F.R. § 63.1207(b)]

(a) The Permittee must conduct comprehensive performance tests to demonstrate compliance with the emission standards provided by Subpart EEE, establish limits for the operating parameters provided by § 63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems for each incinerator.

(b) Confirmatory performance test. The Permittee must conduct confirmatory performance tests on each incinerator to:

(i) Demonstrate compliance with the dioxin/furan emission standard when the source operates under normal operating conditions; and

(ii) Conduct a performance evaluation of continuous monitoring systems required for compliance assurance with the dioxin/furan emission standard under § 63.1209(k).

9. Comprehensive performance test [40 C.F.R. § 71.6(c)(3)]

The permittee must conduct comprehensive performance tests to demonstrate compliance with the Subpart EEE emission standards, establish limits for the operating parameters provided by §63.1209, and demonstrate compliance with the performance specifications for continuous monitoring systems. The Permittee must commence the comprehensive performance test no later than 30 days after EPA approves the CPT and CMS PET plans pursuant to the February 22, 2008, Request to Provide Information.

10. Frequency of testing. Except as otherwise specified in 40 C.F.R. § 63.1207(d)(4), the Permittee must conduct testing periodically as prescribed in 40 C.F.R. § 63.1207(d)(1) through (d)(3). The date of commencement of the initial comprehensive performance test is the basis for establishing the deadline to commence the initial confirmatory performance test and

the next comprehensive performance test. The Permittee may conduct performance testing at any time prior to the required date. The deadline for commencing subsequent confirmatory and comprehensive performance testing is based on the date of commencement of the previous comprehensive performance test. Unless the Administrator grants a time extension under § 63.1207(b)(3)(i), the Permittee must conduct testing as follows:

(a) Comprehensive performance testing. Except as otherwise specified in 40 C.F.R. § 63.1207(d)(4), the Permittee must commence testing no later than 61 months after the date of commencing the previous comprehensive performance test. If the Permittee submits data in lieu of the initial performance test, the Permittee must commence the subsequent comprehensive performance test within 61 months of commencing the test used to provide the data in lieu of the initial performance test.

(b) Confirmatory performance testing. Except as otherwise specified in 40 C.F.R. § 63.1207(d)(4), the Permittee must commence confirmatory performance testing no later than 31 months after the date of commencing the previous comprehensive performance test. If the Permittee submit data in lieu of the initial performance test, the Permittee must commence the initial confirmatory performance test within 31 months of the date 6 months after the compliance date. To ensure that the confirmatory test is conducted approximately midway between comprehensive performance tests, the Administrator will not approve a test plan that schedules testing within 18 months of commencing the previous comprehensive performance test.

(c) Duration of testing. The Permittee must complete performance testing within 60 days after the date of commencement, unless the Administrator determines that a time extension is warranted based on its documentation in writing of factors beyond its control that prevents the Permittee from meeting the 60-day deadline.

11. **Content of performance test plan** [40 C.F.R. § 63.1207(f)]. The provisions of §§ 63.7(c)(2)(i)-(iii) and (v) regarding the content of the test plan

apply. In addition, the Permittee must include the following information in the test plan:

(a) Content of comprehensive performance test plan.

(i) An analysis of each feedstream, including hazardous waste, other fuels, and industrial furnace feedstocks, as fired, that includes:

(A) Heating value, levels of ash (for hazardous waste incinerators only), levels of semivolatile metals, low volatile metals, mercury, and total chlorine (organic and inorganic); and

(B) Viscosity or description of the physical form of the feedstream;

(ii) For organic hazardous air pollutants established by 42 U.S.C. 7412(b)(1), excluding caprolactam (CAS number 105602) as provided by § 63.60:

(A) Except as provided by 40 C.F.R. § 63.1207(f)(1)(ii)(D), an identification of such organic hazardous air pollutants that are present in each hazardous waste feedstream. The Permittee need not analyze for organic hazardous air pollutants that would reasonably not be expected to be found in the feedstream. The Permittee must identify any constituents the Permittee excludes from analysis and explain the basis for excluding them. The Permittee must conduct the feedstream analysis according to 40 C.F.R. § 63.1208(b)(8);

(B) An approximate quantification of such identified organic hazardous air pollutants in the hazardous waste feedstreams, within the precision produced by analytical procedures of 40 C.F.R. § 63.1208(b)(8); and

(C) A description of blending procedures, if applicable, prior to firing the hazardous waste feedstream, including a detailed analysis of the materials prior to blending, and blending ratios.

(D) The Administrator may approve on a case-by-case basis a hazardous waste feedstream analysis

for organic hazardous air pollutants in lieu of the analysis required under 40 C.F.R. § 63.1207(f)(1)(ii)(A) if the reduced analysis is sufficient to ensure that the POHCs used to demonstrate compliance with the applicable DRE standards of this subpart continue to be representative of the most difficult to destroy organic compounds in its hazardous waste feedstreams;

- (iii) A detailed engineering description of the hazardous waste combustor, including:
 - (A) Manufacturer's name and model number of the hazardous waste combustor;
 - (B) Type of hazardous waste combustor;
 - (C) Maximum design capacity in appropriate units;
 - (D) Description of the feed system for each feedstream;
 - (E) Capacity of each feed system;
 - (F) Description of automatic hazardous waste feed cutoff system(s);
 - (G) Description of the design, operation, and maintenance practices for any air pollution control system; and
 - (H) Description of the design, operation, and maintenance practices of any stack gas monitoring and pollution control monitoring systems;
- (iv) A detailed description of sampling and monitoring procedures including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis;
- (v) A detailed test schedule for each hazardous waste for which the performance test is planned, including date(s), duration, quantity of

hazardous waste to be burned, and other relevant factors;

- (vi) A detailed test protocol, including, for each hazardous waste identified, the ranges of hazardous waste feedrate for each feed system, and, as appropriate, the feedrates of other fuels and feedstocks, and any other relevant parameters that may affect the ability of the hazardous waste combustor to meet the emission standards;
- (vii) A description of, and planned operating conditions for, any emission control equipment that will be used;
- (viii) Procedures for rapidly stopping the hazardous waste feed and controlling emissions in the event of an equipment malfunction;
- (ix) A determination of the hazardous waste residence time as required by 40 C.F.R. § 63.1206(b)(11);
- (x) If the Permittee is requesting to extrapolate metal feedrate limits from comprehensive performance test levels under 40 C.F.R. § 63.1209(l)(1)(v) or § 63.1209(n)(2)(vii):
 - (A) A description of the extrapolation methodology and rationale for how the approach ensures compliance with the emission standards;
 - (B) Documentation of the historical range of normal (i.e., other than during compliance testing) metals feedrates for each feedstream;
 - (C) Documentation that the level of spiking recommended during the performance test will mask sampling and analysis imprecision and inaccuracy to the extent that the extrapolated feedrate limits adequately assure compliance with the emission standards;
- (xi) If the Permittee does not continuously monitor regulated constituents in natural gas, process air feedstreams, and feedstreams from vapor recovery systems under § 63.1209(c)(5), the Permittee must include documentation of the

expected levels of regulated constituents in those feedstreams;

- (xii) Documentation justifying the duration of system conditioning required to ensure the combustor has achieved steady-state operations under performance test operating conditions, as provided by 40 C.F.R. § 63.1207(g) (1) (iii);
- (xiii) The Permittee must submit an application to request alternative monitoring under § 63.1209(g) (1) not later than with the comprehensive performance test plan, as required by § 63.1209(g) (1) (iii) (A).
- (xiv) The Permittee must document the temperature location measurement in the comprehensive performance test plan, as required by §§ 63.1209(j) (1) (i) and 63.1209(k) (2) (i).
- (xv) Because unit 4 is equipped with activated carbon injection, the Permittee must document in the comprehensive performance test plan for unit 4:
 - (A) The manufacturer specifications for minimum carrier fluid flowrate or pressure drop, as required by § 63.1209(k) (6) (ii); and
 - (B) Key parameters that affect carbon adsorption, and the operating limits the Permittee establishes for those parameters based on the carbon used during the performance test, if the Permittee elects not to specify and use the brand and type of carbon used during the comprehensive performance test, as required by § 63.1209(k) (6) (iii).
- (xvi) If its source is equipped with a particulate matter control device other than a wet scrubber, the Permittee must include in the comprehensive performance test plan:
 - (A) Documentation to support the operating parameter limits the Permittee establishes for the control device, as required by § 63.1209(m) (1) (iv) (A) (4); and

(B) Support for the use of manufacturer specifications if the Permittee recommends such specifications in lieu of basing operating limits on performance test operating levels, as required by § 63.1209(m) (1) (iv) (D).

(xvii) If its source is equipped with a dry scrubber to control hydrogen chloride and chlorine gas, the Permittee must document in the comprehensive performance test plan key parameters that affect adsorption, and the limits the Permittee establishes for those parameters based on the sorbent used during the performance test, if the Permittee elects not to specify and use the brand and type of sorbent used during the comprehensive performance test, as required by § 63.1209(o) (4) (iii) (A); and

(xviii) For purposes of calculating semivolatile metal, low volatile metal, mercury, and total chlorine (organic and inorganic), and ash feedrate limits, a description of how the Permittee will handle performance test feedstream analytical results that determines these constituents are not present at detectable levels.

(xix) Such other information as the Administrator reasonably finds necessary to determine whether to approve the performance test plan.

(b) Content of confirmatory test plan.

(i) A description of the Permittee's normal hydrocarbon or carbon monoxide operating levels, as specified in 40 C.F.R. § 63.1207(g) (2) (i), and an explanation of how these normal levels were determined;

(ii) A description of the Permittee's normal applicable operating parameter levels, as specified in 40 C.F.R. § 63.1207(g) (2) (ii), and an explanation of how these normal levels were determined;

(iii) A description of the Permittee's normal chlorine operating levels, as specified in 40 C.F.R.

§ 63.1207(g)(2)(iii), and an explanation of how these normal levels were determined;

- (iv) A description of the Permittee's normal cleaning cycle of the particulate matter control device for unit 4, as specified in 40 C.F.R. § 63.1207(g)(2)(iv), and an explanation of how these normal levels were determined;
- (v) A detailed description of sampling and monitoring procedures including sampling and monitoring locations in the system, the equipment to be used, sampling and monitoring frequency, and planned analytical procedures for sample analysis;
- (vi) A detailed test schedule for each hazardous waste for which the performance test is planned, including date(s), duration, quantity of hazardous waste to be burned, and other relevant factors;
- (vii) A detailed test protocol, including, for each hazardous waste identified, the ranges of hazardous waste feedrate for each feed system, and, as appropriate, the feedrates of other fuels and feedstocks, and any other relevant parameters that may affect the ability of the hazardous waste combustor to meet the dioxin/furan emission standard;
- (viii) A description of, and planned operating conditions for, any emission control equipment that will be used;
- (ix) Procedures for rapidly stopping the hazardous waste feed and controlling emissions in the event of an equipment malfunction; and
- (x) Such other information as the Administrator reasonably finds necessary to determine whether to approve the confirmatory test plan.

12. Operating conditions during testing. [40 C.F.R. § 63.1207(g)] The Permittee must comply with the provisions of § 63.7(e). Conducting performance testing under operating conditions representative of

the extreme range of normal conditions is consistent with the requirement of § 63.7(e)(1) to conduct performance testing under representative operating conditions.

(a) Comprehensive performance testing

- (i) Operations during testing. For the following parameters, the Permittee must operate the combustor during the performance test under normal conditions (or conditions that will result in higher than normal emissions):

(A) Chlorine feedrate. The Permittee must feed normal (or higher) levels of chlorine during the dioxin/furan performance test;

(B) Ash feedrate. For hazardous waste incinerators, the Permittee must conduct the following tests when feeding normal (or higher) levels of ash: The semivolatile metal and low volatile metal performance tests; and the dioxin/furan and mercury performance tests if activated carbon injection or a carbon bed is used; and

(C) Cleaning cycle of the particulate matter control device. The Permittee must conduct the following tests when the particulate matter control device undergoes its normal (or more frequent) cleaning cycle: The particulate matter, semivolatile metal, and low volatile metal performance tests; and the dioxin/furan and mercury performance tests if activated carbon injection or a carbon bed is used.

- (ii) Modes of operation. Given that the Permittee must establish limits for the applicable operating parameters specified in § 63.1209 based on operations during the comprehensive performance test, the Permittee may conduct testing under two or more operating modes to provide operating flexibility.
- (iii) Steady-state conditions.

Prior to obtaining performance test data, the Permittee must operate under performance test conditions until the Permittee reaches steady-state operations with respect to emissions of pollutants the Permittee must measure during the performance test and operating parameters under § 63.1209 for which the Permittee must establish limits. During system conditioning, the Permittee must ensure that each operating parameter for which the Permittee must establish a limit is held at the level planned for the performance test. The Permittee must include documentation in the performance test plan under 40 C.F.R. § 63.1207(f) justifying the duration of system conditioning.

(b) Confirmatory performance testing. The Permittee must conduct confirmatory performance testing for dioxin/furan under normal operating conditions for the following parameters:

- (i) Carbon monoxide (or hydrocarbon) CEMS emissions levels must be within the range of the average value to the maximum value allowed, except as provided by 40 C.F.R. § 63.1207(g)(2)(iv). The average value is defined as the sum of the hourly rolling average values recorded (each minute) over the previous 12 months, divided by the number of rolling averages recorded during that time. The average value must not include calibration data, startup data, shutdown data, malfunction data, and data obtained when not burning hazardous waste;
- (ii) Each operating limit (specified in § 63.1209) established to maintain compliance with the dioxin/furan emission standard must be held within the range of the average value over the previous 12 months and the maximum or minimum, as appropriate, that is allowed, except as provided by 40 C.F.R. § 63.1207(g)(2)(iv). The average value is defined as the sum of the rolling average values recorded over the previous 12 months, divided by the number of rolling averages recorded during that time. The average value must not include calibration data, startup data,

shutdown data, malfunction data, and data obtained when not burning hazardous waste;

- (iii) The Permittee must feed chlorine at normal feedrates or greater; and
- (iv) If the combustor is equipped with carbon injection or carbon bed, normal cleaning cycle of the particulate matter control device.
- (v) The Administrator may approve an alternative range to that required by 40 C.F.R. § 63.1207(g)(2)(i) and (ii) if the Permittee documents in the confirmatory performance test plan that it may be problematic to maintain the required range during the test. In addition, when making the finding of compliance, the Administrator may consider test conditions outside of the range specified in the test plan based on a finding that the Permittee could not reasonably maintain the range specified in the test plan and considering factors including whether the time duration and level of the parameter when operations were out of the specified range were such that operations during the confirmatory test are determined to be reasonably representative of normal operations. In addition, the Administrator will consider the proximity of the emission test results to the standard.

13. Operating conditions during subsequent testing. [40 C.F.R. § 63.1207(h)]

- (a) Current operating parameter limits established under § 63.1209 are waived during subsequent comprehensive performance testing.
- (b) Current operating parameter limits are also waived during pretesting prior to comprehensive performance testing for an aggregate time not to exceed 720 hours of operation (renewable at the discretion of the Administrator) under an approved test plan or if the source records the results of the pretesting. Pretesting means:

- (i) Operations when stack emissions testing for dioxin/furan, mercury, semivolatile metals, low volatile metals, particulate matter, or hydrogen chloride/chlorine gas is being performed; and
 - (ii) Operations to reach steady-state operating conditions prior to stack emissions testing under 40 C.F.R. § 63.1207(g)(1)(iii).
14. Test methods. [40 C.F.R. § 63.1208] The Permittee must use the following test methods to determine compliance with the emissions standards of this subpart:
- (a) Dioxins and furans.
 - (i) To determine compliance with the emission standard for dioxins and furans, the Permittee must use:
 - (A) Method 0023A, Sampling Method for Polychlorinated Dibenzop-Dioxins and Polychlorinated Dibenzofurans emissions from Stationary Sources, EPA Publication SW-846 (incorporated by reference—see § 63.14); or
 - (B) Method 23, provided in appendix A, 40 C.F.R. part 60, after approval by the Administrator.
 - (1) The Permittee may request approval to use Method 23 in the performance test plan required under § 63.1207(e)(#)(i) and (ii).
 - (2) In determining whether to grant approval to use Method 23, the Administrator may consider factors including whether dioxin/furan were detected at levels substantially below the emission standard in previous testing, and whether previous Method 0023 analyses detected low levels of dioxin/furan in the front half of the sampling train.
 - (3) Sources that emit carbonaceous particulate matter, such as coal-fired boilers, and sources equipped with activated carbon injection, will be deemed not suitable for use of Method 23 unless the Permittee documents that there would not be a

significant improvement in quality assurance with Method 0023A.

(ii) The Permittee must sample for a minimum of 3 hours, and collect a minimum sample volume of 2.5 dscm;

(iii) The Permittee may assume that nondetects are present at zero concentration.

(b) Mercury. The Permittee must use Method 29, provided in appendix A, 40 C.F.R. part 60, to demonstrate compliance with emission standard for mercury.

(c) Cadmium and lead. The Permittee must use Method 29, provided in appendix A, 40 C.F.R. part 60, to determine compliance with the emission standard for cadmium and lead (combined).

(d) Arsenic, beryllium, and chromium. The Permittee must use Method 29, provided in appendix A, 40 C.F.R. part 60, to determine compliance with the emission standard for arsenic, beryllium, and chromium (combined).

(e) Hydrogen chloride and chlorine gas

(i) Compliance with MACT standards. To determine compliance with the emission standard for hydrogen chloride and chlorine gas (combined), the Permittee must use:

(A) Method 26/26A as provided in appendix A, 40 C.F.R. part 60; or

(B) Methods 320 or 321 as provided in appendix A, 40 C.F.R. part 63, or

(C) ASTM D 6735-01, Standard Test Method for Measurement of Gaseous Chlorides and Fluorides from Mineral Calcining Exhaust Sources—Impinger Method to measure emissions of hydrogen chloride, and Method 26/26A to measure emissions of chlorine gas, provided that the Permittee follow the provisions in 40 C.F.R. § 63.1208(b)(5)(C)(1) through (6).

- (1) A test must include three or more runs in which a pair of samples is obtained simultaneously for each run according to section 11.2.6 of ASTM Method D6735-01.
 - (2) The Permittee must calculate the test run standard deviation of each set of paired samples to quantify data precision, according to Equation 1 in 40 C.F.R. § 63.1208(b)(5)(C)(2).
 - (3) The Permittee must calculate the test average relative standard deviation according to Equation 2 in 40 C.F.R. § 63.1208(b)(5)(i)(C)(3).
 - (4) If RSD_{TA} is greater than 20 percent, the data are invalid and the test must be repeated.
 - (5) The post-test analyte spike procedure of section 11.2.7 of ASTM Method D6735-01 is conducted, and the percent recovery is calculated according to section 12.6 of ASTM Method D6735-01.
 - (6) If the percent recovery is between 70 percent and 130 percent, inclusive, the test is valid. If the percent recovery is outside of this range, the data are considered invalid, and the test must be repeated.
- (ii) Compliance with risk-based limits under § 63.1215. To demonstrate compliance with emission limits established under § 63.1215, the Permittee must use Method 26/26A as provided in appendix A, 40 C.F.R. part 60, Method 320 as provided in appendix A, 40 C.F.R. part 63, Method 321 as provided in appendix A, 40 C.F.R. part 63, or ASTM D 6735-01, Standard Test Method for Measurement of Gaseous Chlorides and Fluorides from Mineral Calcining Exhaust Sources—Impinger Method (following the provisions of 40 C.F.R. § 63.1208(b)(5)(C)(1) through (6)), except for incinerators, boilers, and lightweight aggregate kilns, the Permittee must use Methods 320 or 321 as provided in appendix A, 40 C.F.R. part 63, or

ASTM D 6735-01 to measure hydrogen chloride, and Method 26/26A as provided in appendix A, 40 C.F.R. part 60 of to measure total chlorine, and calculate chlorine gas by difference if:

- (1) The bromine/chlorine ratio in feedstreams is greater than 5 percent; or
- (2) The sulfur/chlorine ratio in feedstreams is greater than 50 percent.

(f) Particulate matter. The Permittee must use Methods 5 or 5I, provided in appendix A, 40 C.F.R. part 60, to demonstrate compliance with the emission standard for particulate matter.

(g) Other Test Methods. The Permittee may use applicable test methods in EPA Publication SW-846, as necessary to demonstrate compliance with requirements of this subpart, except as otherwise specified in 40 C.F.R. § 63.1208(b)(2)-(b)(6).

(h) Feedstream analytical methods. The Permittee may use any reliable analytical method to determine feedstream concentrations of metals, chlorine, and other constituents. It is the Permittee's responsibility to ensure that the sampling and analysis procedures are unbiased, precise, and that the results are representative of the feedstream.

(i) Opacity. Method 9, provided in appendix A in 40 C.F.R. part 60.

15. The permittee shall screen all waste for mercury, arsenic, chromium, beryllium, cadmium, and lead prior to incineration at the facility. The Permittee shall obtain a representative sample of the waste for mercury, arsenic, chromium, beryllium, cadmium, and lead analysis by the permittee using appropriate quality assurance/quality control procedures and an appropriate test method(s). The permittee shall follow this pre-acceptance screening sampling and analysis procedure for each shipment of waste using appropriate quality assurance/quality control procedures and an appropriate test method(s) with appropriate detection limits. If the sampling analysis indicates that mercury, arsenic, chromium, beryllium, cadmium, and/or

lead is present in the waste, the permittee shall not incinerate such waste at the facility consistent with condition 2.1(C) (2) of this permit.

If waste accepted for incineration is batched, treated, blended, mixed, or otherwise altered from its shipped state, the permittee shall sample and analyze such batched, treated, blended, mixed, or otherwise altered waste for mercury, arsenic, chromium, beryllium, cadmium, and lead prior to incineration using appropriate quality assurance/quality control procedures and an appropriate test method(s). If the sampling analysis indicates that mercury, arsenic, chromium, beryllium, cadmium, and/or lead is present in the waste, the permittee shall not incinerate such waste at the facility consistent with condition 2.1(C) (2) of this permit. [40 C.F.R. §71.6(a) (3) (i) (B)]

E. Recordkeeping and Reporting [40 C.F.R. § 71.6(a) (3)]

1. Summary of notification requirements [40 C.F.R. § 63.1210(a)]

[Note: Check correspondent reference for particular date, deadline or frequency of required notification procedures]

(a) The Permittee must submit the following notifications to the U.S. EPA:

Reference	Notification
63.9(d)	Notification that the source is subject to special compliance requirements
63.9(j)	Notification and documentation of any change in information already provided under § 63.9
63.1206(b) (5) (i)	Notification of changes in design, operation, or maintenance
63.1206(c) (8) (iv)	Notification of excessive bag leak detection system exceedances

Reference	Notification
63.1207(e), 63.9(e), 63.9(g)(1) and (3)	Notification of performance test and continuous monitoring system evaluation, including the performance test plan and CMS performance evaluation plan*
63.1210(d), 63.1207(j), 63.1207(k), 63.1207(l), 63.9(h), 63.10(d)(2) 63.10(e)(2)	Notification of compliance, including results of performance tests and continuous monitoring system performance evaluations

* The Permittee may also be required on a case-by-case basis to submit a feedstream analysis plan under § 63.1209(c)(3).

(b) The Permittee must submit the following notifications to the U.S. EPA if the Permittee requests or **elects** to comply with alternative requirements:

Reference	Notification, request, petition, or application
63.9(i)	The Permittee may request an adjustment to time periods or postmark deadlines for submittal and review of required information.
63.10(e)(3)(ii)	The Permittee may request to reduce the frequency of excess emissions and CMS performance reports.
63.10(f)	The Permittee may request to waive recordkeeping or reporting requirements.
63.1206(b)(5)(i)(C)	The Permittee may request to burn hazardous waste for more than 720 hours and for purposes other than testing or pretesting after making a change in the design or operation that could affect compliance with emission standards and prior to submitting revised Notification of Compliance.

Reference	Notification, request, petition, or application
63.1206(b) (8) (iii) (B)	If the Permittee elects to conduct particulate matter CEMS correlation testing and wish to have federal particulate matter and opacity standards and associated operating limits waived during the testing, the Permittee must notify the Administrator by submitting the correlation test plan for review and approval.
63.1206(b) (8) (v)	The Permittee may request approval to have the particulate matter and opacity standards and associated operating limits and conditions waived for more than 96 hours for a correlation test.
63.1206(c) (2) (ii) (C)	The Permittee may request to make changes to the startup, shutdown, and malfunction plan.
63.1206(c) (5) (i) (C)	The Permittee may request an alternative means of control to provide control of combustion system leaks.
63.1206(c) (5) (i) (D)	The Permittee may request other techniques to prevent fugitive emissions without use of instantaneous pressure limits.
63.1207(d) (3)	The Permittee may request more than 60 days to complete a performance test if additional time is needed for reasons beyond its control.
63.1207(e) (3), 63.7(h)	The Permittee may request a time extension if the Administrator fails to approve or deny its test plan.
63.1207(h) (2)	The Permittee may request to waive current operating parameter limits during pretesting for more than 720 hours.

Reference	Notification, request, petition, or application
63.1207(f) (1) (ii) (D)	The Permittee may request a reduced hazardous waste feedstream analysis for organic hazardous air pollutants if the reduced analysis continues to be representative of organic hazardous air pollutants in its hazardous waste feedstreams.
63.1207(g) (2) (v)	The Permittee may request to operate under a wider operating range for a parameter during confirmatory performance testing.
63.1207(i)	The Permittee may request up to a 1-year time extension for conducting a performance test (other than the initial comprehensive performance test) to consolidate testing with other state or federally-required testing.
63.1207(j) (4)	The Permittee may request more than 90 days to submit a Notification of Compliance after completing a performance test if additional time is needed for reasons beyond its control.
63.1207(1) (3)	After failure of a performance test, the Permittee may request to burn hazardous waste for more than 720 hours and for purposes other than testing or pretesting.
63.1209(a) (5), 63.8(f)	The Permittee may request: (1) Approval of alternative monitoring methods for compliance with standards that are monitored with a CEMS; and (2) approval to use a CEMS in lieu of operating parameter limits.

Reference	Notification, request, petition, or application
63.1209(g) (1)	The Permittee may request approval of: (1) Alternatives to operating parameter monitoring requirements, except for standards that the Permittee must monitor with a continuous emission monitoring system (CEMS) and except for requests to use a CEMS in lieu of operating parameter limits; or (2) a waiver of an operating parameter limit.
63.1209(l) (1)	The Permittee may request to extrapolate mercury feedrate limits.
63.1209(n) (2)	The Permittee may request to extrapolate semivolatile and low volatile metal feedrate limits.
63.1211(d)	The Permittee may request to use data compression techniques to record data on a less frequent basis than required by §63.1209.

2. Notification of compliance (NOC) [40 C.F.R. § 63.1210(d)]:

(a) The Notification of Compliance status requirements of 40 C.F.R. § 63.9(h) apply, except that:

- (i) The notification is a Notification of Compliance, rather than compliance status;
- (ii) The notification is required for the initial comprehensive performance test and each subsequent comprehensive and confirmatory performance test; and
- (iii) The Permittee must postmark the notification before the close of business on the 90th day following completion of relevant compliance demonstration activity specified in Subpart EEE rather than the 60th day as required by 40 C.F.R. § 63.9(h) (2) (ii).

(b) The permittee must submit a NOC to EPA and Illinois EPA no later than 60 days after completion of

the CPTs required in the February 22, 2008, Request to Provide Information. [40 C.F.R. 71.6(c)(3)]

(c) Upon postmark of the Notification of Compliance, the operating parameter limits identified in the Notification of Compliance, as applicable, shall be complied with, the limits identified in the Documentation of Compliance or a previous Notification of Compliance are no longer applicable.

(d) The Notification of Compliance requirements of 40 C.F.R. § 63.1207(j) also apply.

3. Summary of reporting requirements under Subpart EEE [40 C.F.R. § 63.1211(a)]:

The Permittee must submit the following reports to the permitting authority:

Reference	Report
63.10(d)(5)(i)	Periodic startup, shutdown, and malfunction reports.
63.10(d)(5)(ii)	Immediate startup, shutdown, and malfunction reports.
63.10(e)(3)	Excessive emissions and continuous monitoring system performance report and summary report.
63.1206(c)(3)(vi)	Excessive exceedance reports.
63.1206(c)(4)(iv)	Emergency safety vent opening reports.

4. AWFCO Excessive exceedance reporting [40 C.F.R. § 63.1206(c)(3)(vi)]:

(a) For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste remains in the combustion chamber (i.e., when the hazardous waste residence time has not transpired since the hazardous waste feed was cutoff) during a 60-day block period, the Permittee must submit to the Administrator a written report within 5 calendar days of the 10th exceedance documenting the exceedances and results of the investigation and corrective measures taken.

(b) On a case-by-case basis, the Administrator may require excessive exceedance reporting when fewer than 10 exceedances occur during a 60-day block period.

5. Bag leak detection system [40 C.F.R. § 63.1206(c) (8) (iv)]:

Excessive exceedances notification. If the Permittee operates the combustor when the detector response exceeds the alarm set-point more than 5 percent of the time during any 6-month block time period, the Permittee must submit a notification to the Administrator within 30 days of the end of the 6-month block time period that describes the causes of the exceedances and the revisions to the design, operation, or maintenance of the combustor or baghouse the Permittee are taking to minimize exceedances. To document compliance with these requirements the Permittee must:

(a) The Permittee must keep records of the date, time, and duration of each alarm, the time corrective action was initiated and completed, and a brief description of the cause of the alarm and the corrective action taken;

(b) The Permittee must record the percent of the operating time during each 6-month period that the alarm sounds;

(c) In calculating the operating time percentage, if inspection of the fabric filter demonstrates that no corrective action is required, no alarm time is counted; and

(d) If corrective action is required, each alarm shall be counted as a minimum of 1 hour.

6. Emergency Safety Vent reporting requirements [40 C.F.R. § 63.1206(c) (4)]:

The Permittee must submit to the Administrator a written report within 5 days of an ESV opening that results in failure to meet the emission standards of this subpart (as determined in 40 C.F.R. § 63.1206(c) (4) (i)) documenting the result of the investigation and corrective measures taken.

7. Periodic startup, shutdown, and malfunction reports.
[40 C.F.R. § 63.10(d)(5)(ii)]

If actions taken by the Permittee during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction of an affected source (including actions taken to correct a malfunction) are consistent with the procedures specified in the source's startup, shutdown, and malfunction plan (see § 63.6(e)(3)), the Permittee shall state such information in a startup, shutdown, and malfunction report. Actions taken to minimize emissions during such startups, shutdowns, and malfunctions shall be summarized in the report and may be done in checklist form; if actions taken are the same for each event, only one checklist is necessary. Such a report shall also include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded. Reports shall only be required if a startup or shutdown caused the source to exceed any applicable emission limitation in the relevant emission standards, or if a malfunction occurred during the reporting period. The startup, shutdown, and malfunction report shall consist of a letter, containing the name, title, and signature of the Permittee or other responsible official who is certifying its accuracy, that shall be submitted to the Administrator semiannually (or on a more frequent basis if specified otherwise in a relevant standard or as established otherwise by the permitting authority in the source's title V permit). The startup, shutdown, and malfunction report shall be delivered or postmarked by the 30th day following the end of each calendar half (or other calendar reporting period, as appropriate). If the Permittee is required to submit excess emissions and continuous monitoring system performance (or other periodic) reports under this part, the startup, shutdown, and malfunction reports required under this paragraph may be submitted simultaneously with the excess emissions and continuous monitoring system performance (or other) reports. If startup, shutdown, and malfunction reports are submitted with excess emissions and continuous

monitoring system performance (or other periodic) reports, and the Permittee receives approval to reduce the frequency of reporting for the latter under 40 C.F.R. § 63.10(e) the frequency of reporting for the startup, shutdown, and malfunction reports also may be reduced if the Administrator does not object to the intended change. The procedures to implement the allowance in the preceding sentence shall be the same as the procedures specified in § 63.10(e) (3).

8. Immediate startup, shutdown, and malfunction reports. [40 C.F.R. § 63.10(d) (5) (ii)]

Notwithstanding the allowance to reduce the frequency of reporting for periodic startup, shutdown, and malfunction reports under § 63.10(d) (5) (i), any time an action taken by the Permittee during a startup or shutdown that caused the source to exceed any applicable emission limitation in the relevant emission standards, or malfunction (including actions taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the Permittee shall report the actions taken for that event within 2 working days after commencing actions inconsistent with the plan followed by a letter within 7 working days after the end of the event. The immediate report required under § 63.10(d) (5) (ii) shall consist of a telephone call (or facsimile (FAX) transmission) to the Administrator within 2 working days after commencing actions inconsistent with the plan, and it shall be followed by a letter, delivered or postmarked within 7 working days after the end of the event, that contains the name, title, and signature of the Permittee or other responsible official who is certifying its accuracy, explaining the circumstances of the event, the reasons for not following the startup, shutdown, and malfunction plan, describing all excess emissions and/or parameter monitoring exceedances which are believed to have occurred (or could have occurred in the case of malfunctions), and actions taken to minimize emissions in conformance with § 63.6(e) (1) (i).

9. Notification of changes in design, operation, or maintenance [40 C.F.R. § 63.1206(b) (5)].

- (a) The Permittee must notify the Administrator at least 60 days prior to a change (as defined by § 63.1206(b)(5)(iii)) the design, operation, or maintenance practices of the source in a manner that may adversely affect compliance with any emission standard that is not monitored with a CEMS, unless the Permittee documents circumstances that dictate that such prior notice is not reasonably feasible. The notification must include:
 - (i) A description of the changes and which emission standards may be affected; and
 - (ii) A comprehensive performance test schedule and test plan under the requirements of § 63.1207(f) that will document compliance with the affected emission standard(s);
 - (b) If the Permittee determines that a change will not adversely affect compliance with the emission standards or operating requirements, the Permittee must document the change in the operating record upon making such change. The Permittee must revise as necessary the performance test plan, Documentation of Compliance, Notification of Compliance, and start-up, shutdown, and malfunction plan to reflect these changes.
10. Notification of performance test and CMS performance evaluation, and approval of test plan and CMS performance evaluation plan. [40 C.F.R. § 63.1207(e)]
- (a) The provisions of 40 C.F.R. § 63.7(b) and (c) and § 63.8(e) apply, except:
 - (i) Comprehensive performance test. The Permittee must submit to the Administrator a notification of its intention to conduct a comprehensive performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least 1 year before the performance test and performance evaluation are scheduled to begin.
- The Permittee must submit to the Administrator a notification of its intention to conduct the comprehensive performance test at least

60 calendar days before the test is scheduled to begin.

(ii) Confirmatory performance test. The Permittee must submit to the Administrator a notification of its intention to conduct a confirmatory performance test and CMS performance evaluation and a site-specific test plan and CMS performance evaluation test plan at least 60 calendar days before the performance test is scheduled to begin. The Administrator will notify the Permittee of approval or intent to deny approval of the site-specific test plan and CMS performance evaluation test plan within 30 calendar days after receipt of the original test plans.

(b) The Permittee must make its site-specific test plan and CMS performance evaluation test plan available to the public for review no later than 60 calendar days before initiation of the test. The Permittee must issue a public notice to all persons on its facility/public mailing list (developed pursuant to 40 C.F.R. 70.7(h), 71.11(d)(3)(i)(E) and 124.10(c)(1)(ix)) announcing the availability of the test plans and the location where the test plans are available for review. The test plans must be accessible to the public for 60 calendar days, beginning on the date that the Permittee issues its public notice. The location must be unrestricted and provide access to the public during reasonable hours and provide a means for the public to obtain copies. The notification must include the following information at a minimum:

- (i) The name and telephone number of the source's contact person;
- (ii) The name and telephone number of the regulatory agency's contact person;
- (iii) The location where the test plans and any necessary supporting documentation can be reviewed and copied;
- (iv) The time period for which the test plans will be available for public review; and

- (v) An expected time period for commencement and completion of the performance test and CMS performance evaluation test.

(c) Petitions for time extension if Administrator fails to approve or deny test plans. The Permittee may petition the Administrator under § 63.7(h) to obtain a "waiver" of any performance test—initial or periodic performance test; comprehensive or confirmatory test. The "waiver" would be implemented as an extension of time to conduct the performance test at a later date.

- (i) Qualifications for the waiver.

- (A) The Permittee may not petition the Administrator for a waiver under this section if the Administrator has issued a notification of intent to deny its test plan(s) under 40 C.F.R. § 63.7(c) (3) (i) (B);

- (B) The Permittee must submit a site-specific emissions testing plan and a continuous monitoring system performance evaluation test plan at least 1 year before a comprehensive performance test is scheduled to begin as required by 40 C.F.R. § 63.1207(c) (1), or at least 60 days before a confirmatory performance test is scheduled to begin as required by 40 C.F.R. § 63.1207(d). The test plans must include all required documentation, including the substantive content requirements of §§ 63.1207(f) and 63.8(e); and

- (C) The Permittee must make a good faith effort to accommodate the Administrator's comments on the test plans.

- (ii) Procedures for obtaining a waiver and duration of the waiver:

- (A) The Permittee must submit to the Administrator a waiver petition or request to renew the petition under § 63.7(h) separately for each source at least 60 days prior to the scheduled date of the performance test;

(B) The Permittee may submit a revised petition to renew the waiver under 40 C.F.R.

§ 63.7(h) (3) (iii) at least 60 days prior to the end date of the most recently approved waiver petition;

(iii) Content of the waiver.

(A) The Permittee must provide documentation to enable the Administrator to determine that the source is meeting the relevant standard(s) on a continuous basis as required by 40 C.F.R. § 63.7(h) (2). For extension requests for the initial comprehensive performance test, the Permittee must submit its Documentation of Compliance to assist the Administrator in making this determination.

(B) The Permittee must include in the petition information justifying its request for a waiver, such as the technical or economic infeasibility, or the impracticality, of the affected source performing the required test, as required by 40 C.F.R. § 63.7(h) (3) (iii).

(iv) Public notice. At the same time that the Permittee submits its petition to the Administrator, the Permittee must notify the public (e.g., distribute a notice to the facility/public mailing list developed pursuant to 40 C.F.R. 70.7(h), 71.11(d) (3) (i) (E) and 124.10(c) (1) (ix)) of its petition to waive a performance test. The notification must include all of the following information at a minimum:

(A) The name and telephone number of the source's contact person;

(B) The name and telephone number of the regulatory agency's contact person;

(C) The date the source submitted its site-specific performance test plan and CMS performance evaluation test plans; and

(D) The length of time requested for the waiver.

11. Time extension for subsequent performance tests. [40 C.F.R. § 63.1207(i)] After the initial comprehensive performance test, the Permittee may request up to a 1-year time extension for conducting a comprehensive or confirmatory performance test to consolidate performance testing with other state or federally required emission testing, or for other reasons deemed acceptable by the Administrator. If the Administrator grants a time extension for a comprehensive performance test, the deadlines for commencing the next comprehensive and confirmatory tests are based on the date that the subject comprehensive performance test commences.

(a) The Permittee must submit in writing to the permitting authority any request for a time extension for conducting a performance test.

(b) The Permittee must include in the request for an extension for conducting a performance test the following:

(i) A description of the reasons for requesting the time extension;

(ii) The date by which the Permittee will commence performance testing.

12. Notification of compliance [40 C.F.R. § 63.1207(j)]

(a) Comprehensive performance test.

(i) Except as provided by 40 C.F.R. §§ 63.1207(j)(4) and (j)(5), within 90 days of completion of a comprehensive performance test, the Permittee must postmark a Notification of Compliance documenting compliance with the emission standards and continuous monitoring system requirements, and identifying operating parameter limits under 40 C.F.R. § 63.1209.

(ii) Upon postmark of the Notification of Compliance, the Permittee must comply with all operating requirements specified in the Notification of Compliance in lieu of the limits specified in the Documentation of Compliance required under 40 C.F.R. § 63.1211(c).

(b) Confirmatory performance test. Except as provided by 40 C.F.R. § 63.1207(j)(4), within 90 days of completion of a confirmatory performance test, the Permittee must postmark a Notification of Compliance documenting compliance or noncompliance with the applicable dioxin/furan emission standard.

(c) See 40 C.F.R. §§ 63.7(g), 63.9(h), and 63.1210(d) for additional requirements pertaining to the Notification of Compliance (e.g., the Permittee must include results of performance tests in the Notification of Compliance).

(d) Time extension. The Permittee may submit a written request to the Administrator for a time extension documenting that, for reasons beyond its control, the Permittee may not be able to meet the 90-day deadline for submitting the Notification of Compliance after completion of testing. The Administrator will determine whether a time extension is warranted.

(e) Early compliance. If the Permittee conduct the initial comprehensive performance test prior to the compliance date, the Permittee must postmark the Notification of Compliance within 90 days of completion of the performance test or by the compliance date, whichever is later.

13. Failure to submit a timely notification of compliance. [40 C.F.R. 36.1207(k)]

(a) If the Permittee fails to postmark a Notification of Compliance by the specified date, the Permittee must cease hazardous waste burning immediately.

(b) Prior to submitting a revised Notification of Compliance as provided by 40 C.F.R. § 63.1207(k)(3), the Permittee may burn hazardous waste only for the purpose of pretesting or comprehensive performance testing and only for a maximum of 720 hours (renewable at the discretion of the Administrator).

(c) The Permittee must submit to the Administrator a Notification of Compliance subsequent to a new comprehensive performance test before resuming hazardous waste burning.

14. Failure of performance test [40 C.F.R. § 63.1207(1)]

(a) Comprehensive performance test. The provisions of 40 C.F.R. § 63.1207(1) do not apply to the initial comprehensive performance test if the Permittee conducts the test prior to its compliance date.

(i) If the Permittee determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that the Permittee has exceeded any emission standard during a comprehensive performance test for a mode of operation, the Permittee must cease hazardous waste burning immediately under that mode of operation. The Permittee must make this determination within 90 days following completion of the performance test.

(ii) If the Permittee failed to demonstrate compliance with the emission standards for any mode of operation:

(A) Prior to submitting a revised Notification of Compliance as provided by 40 C.F.R. § 63.1207(1)(1)(ii)(C), the Permittee may burn hazardous waste only for the purpose of pretesting or comprehensive performance testing under revised operating conditions, and only for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided by 40 C.F.R. § 63.1207(1)(3);

(B) The Permittee must conduct a comprehensive performance test under revised operating conditions following the requirements for performance testing of this section; and

(C) The Permittee must submit to the Administrator a Notification of Compliance subsequent to the new comprehensive performance test.

(b) Confirmatory performance test. If the Permittee determines (based on CEM recordings, results of analyses of stack samples, or results of CMS performance evaluations) that the Permittee has failed

the dioxin/furan emission standard during a confirmatory performance test, the Permittee must cease burning hazardous waste immediately. The Permittee must make this determination within 90 days following completion of the performance test. To burn hazardous waste in the future:

(i) The Permittee must submit to the Administrator for review and approval a test plan to conduct a comprehensive performance test to identify revised limits on the applicable dioxin/furan operating parameters specified in 40 C.F.R. § 63.1209(k);

(ii) The Permittee must submit to the Administrator a Notification of Compliance with the dioxin/furan emission standard under the provisions of 40 C.F.R. § 63.1207(j), (k) and (l). The Permittee must include in the Notification of Compliance the revised limits on the applicable dioxin/furan operating parameters specified in 40 C.F.R. § 63.1209(k); and

(iii) Until the Notification of Compliance is submitted, the Permittee must not burn hazardous waste except for purposes of pretesting or confirmatory performance testing, and for a maximum of 720 hours (renewable at the discretion of the Administrator), except as provided by 40 C.F.R. § 63.1207(l)(3).

(c) The Permittee may petition the Administrator to obtain written approval to burn hazardous waste in the interim prior to submitting a Notification of Compliance for purposes other than testing or pretesting. The Permittee must specify operating requirements, including limits on operating parameters, that the Permittee determines will ensure compliance with the emission standards of this subpart based on available information including data from the failed performance test. The Administrator will review, modify as necessary, and approve if warranted the interim operating requirements. An approval of interim operating requirements will include a schedule for submitting a Notification of Compliance.

15. Summary of recordkeeping requirements under Subpart EEE [40 C.F.R. § 63.1211(b)]:

The Permittee must retain the following in the operating records applicable to the Hazardous Waste Incinerators operated at this site:

Reference	Document, Data, or Information
63.1200, 63.10 (b) and (c)	General. Information required to document and maintain compliance with the regulations of Subpart EEE, including data recorded by CMSs, and copies of all notifications, reports, plans, and other documents submitted to the Administrator.
63.1204(d) (1) (ii), 63.1220(d) (1) (ii)	Documentation of mode of operation changes for cement kilns with in-line raw mills.
63.1204(d) (2) (ii), 63.1220(d) (2) (ii)	Documentation of compliance with the emission averaging requirements for cement kilns with in-line raw mills.
63.1204(e) (2) (ii), 63.1220(e) (2) (ii)	Documentation of compliance with the emission averaging requirements for preheater or preheater/precalciner kilns with dual stacks.
63.1206(b) (1) (ii)	If the Permittee elects to comply with all applicable requirements and standards promulgated under authority of the Clean Air Act, including Sections 112 and 129, in lieu of the requirements of Subpart EEE when not burning hazardous waste, it must document in the operating record that it is in compliance with those requirements.
63.1206(b) (5) (ii)	Documentation that a change will not adversely affect compliance with the emission standards or operating requirements.
63.1206(b) (11)	Calculation of hazardous waste residence time.
63.1206(c) (2)	SSMP.
63.1206(c) (2) (v) (A)	Documentation of the Permittee's investigation and evaluation of excessive exceedances during

Reference	Document, Data, or Information
	malfunctions.
63.1206(c)(3)(v)	Corrective measures for any automatic waste feed cutoff that results in an exceedance of an emission standard or OPL.
63.1206(c)(3)(vii)	Documentation and results of the automatic waste feed cutoff operability testing.
63.1206(c)(4)(ii)	Emergency safety vent operating plan.
63.1206(c)(4)(iii)	Corrective measures for any emergency safety vent opening.
63.1206(c)(5)(ii)	Method used for control of combustion system leaks.
63.1206(c)(6)	Operator training and certification program.
63.1206(c)(7)(i)(D)	Operation and maintenance plan.
63.1209(c)(2)	Feedstream analysis plan.
63.1209(k)(6)(iii), 63.1209(k)(7)(ii), 63.1209(k)(9)(ii), 63.1209(o)(4)(iii)	Documentation that a substitute activated carbon, D/F formation reaction inhibitor, or dry scrubber sorbent will provide the same level of control as the original material.
63.1209(k)(7)(i)(C)	Results of carbon bed performance monitoring.
63.1209(q)	Documentation of changes in modes of operation.
63.1211(c)	DOC.

16. Documentation of compliance [40 C.F.R. § 63.1211(c)]:

(a) The Permittee must develop and include in the operating record a Documentation of Compliance. The Permittee is not subject to this requirement, however, if the Permittee submits a Notification of Compliance under 40 C.F.R. § 63.1207(j) prior to the compliance date. Upon inclusion of the Documentation of Compliance in the operating record, hazardous waste burning incinerators are no longer subject to compliance with the previously applicable Notification of Compliance.

(b) The Documentation of Compliance must identify the applicable emission standards under Subpart EEE and

the limits on the operating parameters under 40 C.F.R. § 63.1209 that will ensure compliance with those emission standards.

(c) The Permittee must include a signed and dated certification in the Documentation of Compliance that:

(i) Required CEMs and CMS are installed, calibrated, and continuously operating in compliance with the requirements of Subpart EEE; and

(ii) Based on an engineering evaluation prepared under the Permittee's direction or supervision in accordance with a system designed to ensure that qualified personnel properly gathered and evaluated the information and supporting documentation, and considering at a minimum the design, operation, and maintenance characteristics of the combustor and emissions control equipment, the types, quantities, and characteristics of feedstreams, and available emissions data:

(A) The Permittee is in compliance with the emission standards of this subpart; and

(B) The limits on the operating parameters under 40 C.F.R. § 63.1209 to ensure compliance with the emission standards of Subpart EEE.

(d) The Permittee must comply with the emission standards and operating parameter limits specified in the Documentation of Compliance.

17. Calculation of hazardous waste residence time. The Permittee must calculate the hazardous waste residence time and include the calculation in the performance test plan under 40 C.F.R. § 63.1207(f) and the operating record. The Permittee must also provide the hazardous waste residence time in the Documentation of Compliance under 40 C.F.R. § 63.1211(c) and the Notification of Compliance under 40 C.F.R. §§ 63.1207(j) and 63.1210(d). [40 C.F.R. § 63.1206(b)(11)]

18. Documenting compliance with the standards based on performance testing. [40 C.F.R. § 63.1206(b)(12)]

(a) The Permittee must conduct a minimum of three runs of a performance test required under 40 C.F.R. § 63.1207 to document compliance with the emission standards of this subpart.

(b) The Permittee must document compliance with the emission standards based on the arithmetic average of the emission results of each run, except that the Permittee must document compliance with the destruction and removal efficiency standard for each run of the comprehensive performance test individually.

19. Compliance with the carbon monoxide and hydrocarbon emission standards. [40 C.F.R. 1206(b)(6)]

If the Permittee elects to comply with the carbon monoxide and hydrocarbon emissions standards of subpart EEE by documenting continuous compliance with the carbon monoxide standard using a continuous emissions monitoring system and documenting compliance with the hydrocarbon standard during the destruction and removal efficiency (DRE) performance test or its equivalent and a DRE test performed pursuant to 40 C.F.R. § 63.1207(c)(2) is acceptable as documentation of compliance with the DRE standard, the Permittee may use the highest hourly rolling average hydrocarbon level achieved during the DRE test runs to document compliance with the hydrocarbon standard. An acceptable DRE test is any test for which the data and results are determined to meet quality assurance objectives (on a site-specific basis) such that the results adequately demonstrate compliance with the DRE standard.

20. Compliance with the DRE standard. [40 C.F.R. § 63.1206(b)(7)]

(a) The Permittee must document compliance with the Destruction and Removal Efficiency (DRE) standard under this subpart only once provided that the Permittee does not modify the source after the DRE test in a manner that could affect the ability of the source to achieve the DRE standard.

(b) The Permittee may use any DRE test data that documents that its source achieves the required level of DRE provided:

(i) The Permittee has not modified the design or operation of its source in a manner that could effect the ability of its source to achieve the DRE standard since the DRE test was performed; and,

(ii) The DRE test data meet quality assurance objectives determined on a site-specific basis.

21. The Permittee shall document compliance with the requirement not to incinerate mercury, arsenic, chromium, beryllium, cadmium and lead in condition 2.1(C)(2) of this permit. Such documentation shall include, but is not limited to, sampling logs, analysis logs, sampling results, and quality assurance/quality control documentation. The Permittee shall maintain such records for five calendar years and make them available at all times for inspection by EPA, Illinois EPA, local agencies, or their duly authorized representatives. [40 C.F.R. §71.6(a)(3)(i)(B)]

2.2 Material Processing Areas

(A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

1. 40 CFR Part 63, Subpart DD

40 CFR 63.688 requirements:

For a container having a design capacity greater than 0.1 m³ and less than or equal to 0.46 m³ the owner or operator must control air emissions from the container in accordance with the following requirements of 40 CFR 63.688(b)(1)(i):

The owner or operator controls air emissions from the container in accordance with the standards for Container Level I controls as specified in 40 CFR Part 63, Subpart PP "National Emission Standards for Containers".

2. 40 CFR Part 63, Subpart PP "National Emission Standards for Containers"

40 CFR 63.922(b) (1) through (b) (3) defines Container Level 1 controls as one of the following:

(a.) A container that meets the applicable U.S. Department of Transportation (DOT) regulations on packaging hazardous materials for transportation as specified in paragraph 40 CFR 63.922(f).

(b.) A container equipped with a cover and closure devices that form a continuous barrier over the container openings such that when the cover and closure devices are secured in the closed position there are no visible holes, gaps, or other open spaces into the interior of the container. The cover may be a separate cover installed on the container (e.g., a lid on a drum, a suitably secured tarp on a roll-off box) or may be an integral part of the container structural design (e.g., a bulk cargo container equipped with a screw-type cap).

(c.) An open-top container in which an organic vapor-suppressing barrier is placed on or over the regulated-material in the container such that no regulated-material is exposed to the atmosphere. One example of such a barrier is application of a suitable organic-vapor suppressing foam.

3. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lb/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 219.302, 219.303 or 219.304 and the following exception: If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 219.301].

4. (a) No person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent. [35 IAC 212.123]

(b) The emission of smoke or other particulate matter from any such emission source may have an opacity greater than 30 percent but not greater than 60 percent for a period or periods aggregating 8 minutes

in any 60 minute period provided that such more opaque emissions permitted during any 60 minute period shall occur from only one such emission source located within a 305 m (1000 ft) radius from the center point of any other such emission source owned or operated by such person, and provided further that such more opaque emissions permitted from each such emission source shall be limited to 3 times in any 24 hour period. [35 IAC 212.123]

(B). **Non-Applicability of Regulations of Concern** [40 CFR § 71.6(f) (1)]

1. The affected waste processing units are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because the units MP1, MP2, and the labpack do not use an add-on control device to achieve compliance with an emission limitation or standard.
2. The conveyor systems associated with MP1 and MP2 are not subject to the requirements of 40 CFR Part 63, Subpart DD for transfer systems, because this equipment is used in the conveyance of material using a container. [40 CFR 63.681]
3. Units MP1, MP2 and the lab pack repack are not subject to the requirements of 40 CFR Part 61, Subpart BB because this source is not part of a benzene production facility.

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a) (1)]

The affected waste processing units are subject to the following control requirements and work practices established by 40 CFR 63.922(c), (d) and (e):

1. 40 CFR 63.922(c):

A container used to meet the requirements of either 40 CFR 63.922(b) (2) or (b) (3) shall be equipped with covers and closure devices, as applicable to the container, that are composed of suitable materials to minimize exposure of the regulated-material to the atmosphere and to maintain the equipment integrity for

as long as it is in service. Factors to be considered when selecting the materials for and designing the cover and closure devices shall include: organic vapor permeability, the effects of contact with the material or its vapor managed in the container; the effects of outdoor exposure to wind, moisture, and sunlight; and the operating practices used for container on which the cover is installed.

2. 40 CFR 63.922(d):

Whenever a regulated-material is in a container using Container Level 1 controls, the owner or operator shall install all covers and closure devices for the container, and secure and maintain each closure device in the closed position except as follows:

(a) Opening of a closure device or cover is allowed for the purpose of adding material to the container as follows:

(i.) In the case when the container is filled to the intended final level in one continuous operation, the owner or operator shall promptly secure the closure devices in the closed position and install the covers, as applicable to the container, upon conclusion of the filling operation.

(ii.) In the case when discrete quantities or batches of material intermittently are added to the container over a period of time, the owner or operator shall promptly secure the closure devices in the closed position and install covers, as applicable to the container, upon either: the container being filled to the intended final level; the completion of a batch loading after which no additional material will be added to the container within 15 minutes; the person performing the loading operation leaves the immediate vicinity of the container; or the shutdown of the process generating the material being added to the container, whichever condition occurs first.

(b) Opening of a closure device or cover is allowed for the purpose of removing material from the container as follows:

(i.) For the purpose of meeting the requirements of this section, an empty container as defined in 40 CFR 63.921 may be open to the atmosphere at any time (e.g., covers and closure devices are not required to be secured in the closed position on an empty container).

(ii.) In the case when discrete quantities or batches of material are removed from the container but the container does not meet the conditions to be an empty container as defined in 40 CFR 63.921, the owner or operator shall promptly secure the closure devices in the closed position and install covers, as applicable to the container, upon the completion of a batch removal after which no additional material will be removed from the container within 15 minutes, or the person performing the unloading operation leaves the immediate vicinity of the container, whichever condition occurs first.

(c) Opening of a closure device or cover is allowed when access inside the container is needed to perform routine activities other than transfer of regulated-material. Examples of such activities include those times when a worker needs to open a port to measure the depth of or sample the material in the container, or when a worker needs to open a manhole hatch to access equipment inside the container. Following completion of the activity, the owner or operator shall promptly secure the closure device in the closed position or reinstall the cover, as applicable to the container.

(d) Opening of a spring-loaded pressure-vacuum relief valve, conservation vent, or similar type of pressure relief device which vents to the atmosphere is allowed during normal operations for the purpose of maintaining the container internal pressure in accordance with the container design specifications. The device shall be designed to operate with no detectable organic emissions when the device is secured in the closed position. The settings at which

the device opens shall be established such that the device remains in the closed position whenever the container internal pressure is within the internal pressure operating range determined by the owner or operator based on container manufacturer recommendations, applicable regulations, fire protection and prevention codes, standard engineering codes and practices, or other requirements for the safe handling of flammable, ignitable, explosive, reactive, or hazardous materials. Examples of normal operating conditions that may require these devices to open are during those times when the container internal pressure exceeds the internal pressure operating range for the container as a result of loading operations or diurnal ambient temperature fluctuations.

(e) Opening of a safety device, as defined in §63.921, is allowed at any time conditions require it to do so to avoid an unsafe condition.

3. 40 CFR 63.922(e):

The owner or operator shall inspect containers using Container Level 1 controls in accordance with the procedures specified in 40 CFR 63.926(a).

4. 40 CFR 63.922(f):

For the purpose of compliance with §63.922(b)(1), containers shall be used that meet the applicable U.S. DOT regulations on packaging hazardous materials for transportation as follows:

(i.) The container meets the applicable requirements specified in 49 CFR part 178—Specifications for Packagings or 49 CFR part 179—Specifications for Tank Cars.

(ii.) Regulated-material is managed in the container in accordance with the applicable requirements specified in 49 CFR part 107 subpart B—Exemptions; 49 CFR part 172—Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements; 49 CFR part 173—

Shippers—General Requirements for Shipments and Packaging; and 49 CFR part 180—Continuing Qualification and Maintenance of Packagings.

(iii.) For the purpose of complying with this subpart, no exceptions to the 49 CFR part 178 or part 179 regulations are allowed except as provided for in paragraph (f)(4) of this section.

(iv.) For a lab pack that is managed in accordance with the requirements of 49 CFR part 178 for the purpose of complying with this subpart, an owner or operator may comply with the exceptions for those packagings specified in 49 CFR 173.12(b).

(D). Monitoring and Testing [40 CFR §71.6(a)(3)(i)(A)]

1. For the purposes of determining no detectable organic emissions for the purpose of complying with 40 CFR Part 63 Subpart PP, the test shall be conducted annually in accordance with the procedures specified in Method 21 of 40 CFR Part 60, Appendix A, pursuant to 40 CFR 63.925(a). Each potential leak interface (i.e., a location where organic vapor leakage could occur) on the cover and associated closure devices shall be checked. Potential leak interfaces that are associated with covers and closure devices include, but are not limited to: the interface of the cover and its foundation mounting; the periphery of any opening on the cover and its associated closure device; and the sealing seat interface on a spring-loaded pressure-relief valve.
2. The test shall be performed when the unit contains a material having a total organic concentration representative of the range of concentrations for the materials expected to be managed in the unit. During the test, the cover and closure devices shall be secured in the closed position. [40 CFR 63.925]
3. The detection instrument shall meet the performance criteria of Method 21 of 40 CFR part 60, appendix A, except the instrument response factor criteria in section 3.1.2(a) of Method 21 shall be for the average composition of the organic constituents in the

- material placed in the unit, not for each individual organic constituent. [40 CFR 63.925]
4. The detection instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21 of 40 CFR part 60, appendix A. [40 CFR 63.925]
 5. Calibration gases shall be as follows: [40 CFR 63.925]
 - (a) Zero air (less than 10 ppmv hydrocarbon in air); and
 - (b) A mixture of methane or n-hexane in air at a concentration of approximately, but less than 10,000 ppmv.
 6. An owner or operator may choose to adjust or not adjust the detection instrument readings to account for the background organic concentration level. If an owner or operator chooses to adjust the instrument readings for the background level, the background level value must be determined according to the procedures in Method 21 of 40 CFR part 60, appendix A. [40 CFR 63.925]
 7. Each potential leak interface shall be checked by traversing the instrument probe around the potential leak interface as close to the interface as possible, as described in Method 21. In the case when the configuration of the cover or closure device prevents a complete traverse of the interface, all accessible portions of the interface shall be sampled. In the case when the configuration of the closure device prevents any sampling at the interface and the device is equipped with an enclosed extension or horn (e.g., some pressure relief devices), the instrument probe inlet shall be placed at approximately the center of the exhaust area to the atmosphere. [40 CFR 63.925]
 8. An owner or operator must determine if a potential leak interface operates with no detectable emissions using the applicable procedure specified in paragraph (a) (8) (i) or (a) (8) (ii) of this section. [40 CFR 63.925]

- (a) If an owner or operator chooses not to adjust the detection instrument readings for the background organic concentration level, then the maximum organic concentration value measured by the detection instrument is compared directly to the applicable value for the potential leak interface as specified in paragraph (a)(9) of this section.
- (b) If an owner or operator chooses to adjust the detection instrument readings for the background organic concentration level, the value of the arithmetic difference between the maximum organic concentration value measured by the instrument and the background organic concentration value as determined in paragraph (a)(6) of this section is compared with the applicable value for the potential leak interface as specified in paragraph (a)(9) of this section.
9. A potential leak interface is determined to operate with no detectable emissions using the applicable criteria specified in paragraphs (a)(9)(i) and (a)(9)(ii) of this section. [40 CFR 63.925]
- (a) For a potential leak interface other than a seal around a shaft that passes through a cover opening, the potential leak interface is determined to operate with no detectable organic emissions if the organic concentration value determined in paragraph (a)(8) is less than 500 ppmv.
- (b) For a seal around a shaft that passes through a cover opening, the potential leak interface is determined to operate with no detectable organic emissions if the organic concentration value determined in paragraph (a)(8) is less than 10,000 ppmv.
10. Procedure for determining a container to be vapor-tight for the purpose of complying with this subpart. [40 CFR 63.925]
- (a) The test shall be performed in accordance with Method 27 of 40 CFR part 60, appendix A of this chapter.
- (b) A pressure measurement device shall be used that has a precision of ± 2.5 mm water and that is capable

of measuring above the pressure at which the container is to be tested for vapor tightness.

(c) If the test results determined by Method 27 indicate that the container sustains a pressure change less than or equal to 750 Pascals within 5 minutes after it is pressurized to a minimum of 4,500 Pascals, then the container is determined to be vapor-tight.

11. Owners and operators of containers using either Container Level 1 or Container Level 2 controls shall inspect the container and its cover and closure devices as follows, as described in 40 CFR 63.926(a):

(a) In the case when a regulated-material already is in the container at the time the owner or operator first accepts possession of the container at the facility site and the container is not emptied (i.e., does not meet the conditions for an empty container as defined in 63.921) within 24 hours after the container has been accepted at the facility site, the container and its cover and closure devices shall be visually inspected by the owner or operator to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed position. This inspection of the container must be conducted on or before the date that the container is accepted at the facility (i.e., the date that the container becomes subject to the standards under this subpart). For the purpose of this requirement, the date of acceptance is the date of signature of the facility owner or operator on the manifest or shipping papers accompanying the container. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of 40 CFR 63.926(a) (3).

(b) In the case when a container filled or partially filled with regulated-material remains unopened at the facility site for a period of 1 year or more, the container and its cover and closure devices shall be visually inspected by the owner or operator initially and thereafter, at least once every calendar year, to check for visible cracks, holes, gaps, or other open spaces into the interior of the container when the cover and closure devices are secured in the closed

position. If a defect is detected, the owner or operator shall repair the defect in accordance with the requirements of paragraph 40 CFR 63.926(a)(3).

(c) When a defect is detected for the container, cover, or closure devices, the owner or operator must either empty the regulated-material from the defective container in accordance with 63.926(a)(3)(i) or repair the defective container in accordance with 63.926(a)(3)(ii).

(i.) If the owner or operator elects to empty the regulated-material from the defective container, the owner or operator must remove the regulated-material from the defective container to meet the conditions for an empty container (as defined in 63.921) and transfer the removed regulated-material to either a container that meets the applicable standards under this subpart or to a tank, process, or treatment unit that meets the applicable standards under the subpart referencing this subpart. Transfer of the regulated-material must be completed no later than 5 calendar days after detection of the defect. The emptied defective container must be either repaired, destroyed, or used for purposes other than management of regulated-material.

(ii.) If the owner or operator elects not to empty the regulated-material from the defective container, the owner or operator must repair the defective container. First efforts at repair of the defect must be made no later than 24 hours after detection and repair must be completed as soon as possible but no later than 5 calendar days after detection. If repair of a defect cannot be completed within 5 calendar days, then the regulated-material must be emptied from the container and the container must not be used to manage regulated-material until the defect is repaired.

12. The permittee shall visually survey units MP1, MP2, and the labpack each day for the presence of visible emissions or fugitive emissions of particulate matter. [40 CFR § 71.6(a)(3)(i)(B)]

- (a) If the observations conducted identifies any visible emissions or fugitive emissions of particulate matter, the permittee shall:
- (i.) Immediately upon conclusion of the visual observation, investigate the source and reason for the presence of visible emissions or fugitive emissions; and
 - (ii.) As soon as practicable, take appropriate corrective action.
- (b.) If the corrective actions undertaken do not eliminate the visible or fugitive emissions, the permittee shall within 24 hours of the initial survey shall conduct a test using EPA Reference Method 9 (see 40 CFR part 60, Appendix A).
- (i.) If any of the visible emissions observations indicate visible emissions greater than 20% opacity, the permittee shall conduct daily visible emissions observations, for thirty minutes, of the emission point in question until two consecutive daily observations indicate visible emissions of 20% opacity or less.
 - (ii.) If the Method 9 visible emissions observation, or if two consecutive daily observations, indicate visible emissions of 20% opacity or less, the permittee shall conduct weekly visible emissions observations of the emission point for three additional weeks.
- (E). Recordkeeping and Reporting** [40 CFR §71.6(a)(3)]
1. The Permittee shall promptly notify the permitting authority of deviations of the affected waste processing units with the permit requirements, pursuant to 40 CFR §71.6(a)(3)(iii)(B). Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.
 2. The permittee shall maintain the following records of the fugitive emissions: [40 CFR §71.6(a)(3)(i)(B)]

- (a) Details of each visual survey or visible emissions observation, including date, time, observer and results for each emission unit and any other pollutant emitting activity;
 - (b) Date, time and type of any investigation conducted;
 - (c) Findings of the investigation, including the reasons for the presence of visible emissions or fugitive emissions of particulate matter;
 - (d) Date, time and type of corrective actions taken;
 - (e) Results of any Method 9 visible emissions observations conducted on the source of visible or fugitive emissions.
3. VOM/HAP emissions from units MP1, MP2, and labpack shall be calculated based on the most recent version of the TANKS program. [40 CFR §71.6(a)(3)(i)(B)]

2.3 Drum Crusher

(A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

- 1. No person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in subsection (c) of 35 IAC 212.321 [35 IAC 212.321(a)].
- 2. No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit, except as provided in 35 IAC 219.302, 219.303, and 219.304 and the following exception: If no odor nuisance exists this limitation shall apply only to photochemically reactive material [35 IAC 219.301].
- 3. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate

matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

(B). Non-Applicability of Regulations of Concern [40 CFR § 71.6(f) (1)]

1. The affected drum crusher is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources because the affected drum crusher does not use an add-on control device to achieve compliance with an emission limitation or standard.

(C). Work Practice and Operational Requirements [40 CFR § 71.6(a) (1)]

(D). Monitoring and Testing [40 CFR §71.6(a) (3) (i) (A)]

The permittee shall visually survey the drum crusher each day for the presence of visible emissions or fugitive emissions of particulate matter. [40 CFR § 71.6(a) (3) (i) (B)]

1. If the observations conducted identifies any visible emissions or fugitive emissions of particulate matter, the permittee shall:

(a.) Immediately upon conclusion of the visual observation, investigate the source and reason for the presence of visible emissions or fugitive emissions; and

(b.) As soon as practicable, take appropriate corrective action.

2. If the corrective actions undertaken do not eliminate the visible or fugitive emissions, the permittee shall within 24 hours of the initial survey shall conduct a test using EPA Reference Method 9 (see 40 CFR part 60, Appendix A).

(a.) If any of the visible emissions observations indicate visible emissions greater than 20% opacity, the permittee shall conduct daily visible emissions observations, for thirty minutes, of the emission point in question until two consecutive daily observations indicate visible emissions of 20% opacity or less.

(b.) If the Method 9 visible emissions observation, or if two consecutive daily observations, indicate visible emissions of 20% opacity or less, the permittee shall conduct weekly visible emissions observations of the emission point for three additional weeks.

(D). Recordkeeping and Reporting [40 CFR §71.6(a)(3)]

The Permittee shall maintain records of the following items for the affected drum crusher pursuant to 40 CFR 71.6(a)(i)(3)(B):

1. Total number of drums crushed (drums/hr and drums/yr);
2. VOM emissions from affected drum crusher shall be calculated based on the emission factor equal to 0.0914 lb VOM/1 drum crushed. This emission factor is based on the conservative assumption that only methanol residue (with a highest vapor pressure) is released from the crushed drums.
3. The permittee shall maintain the following records of the fugitive emissions: [40 CFR §71.6(a)(3)(i)(B)]

(a) Details of each visual survey or visible emissions observation, including date, time, observer and results for each emission unit and any other pollutant emitting activity;

(b) Date, time and type of any investigation conducted;

(c) Findings of the investigation, including the reasons for the presence of visible emissions or fugitive emissions of particulate matter;

(d) Date, time and type of corrective actions taken;

(e) Results of any Method 9 visible emissions observations conducted on the source of visible or fugitive emissions.

2.4 Storage Tanks

(A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

1. Each affected liquid waste storage tank is subject to the emission standards and requirements established in 40 CFR Part 61, Subpart FF "National Emission Standards for Hazardous Air Pollutants for Benzene Waste Operations" when benzene containing waste is stored in the tank.

(a) For each affected liquid waste storage tank, the owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device, pursuant to 40 CFR 61.343 and 61.349, respectively.

(i.) The fixed-roof shall meet the following requirements [40 CFR 61.343(a)(1)]:

(A) The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h).

(B) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the tank except when it is necessary to use

the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.

(ii.) The closed-vent system and control device shall be designed and operated in accordance with the following requirements of 40 CFR 61.349:

(A) The closed-vent system shall:

Be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background, as determined initially and thereafter at least once per year by the methods specified in 40 CFR 61.355(h).

(B) The control device shall be designed and operated in accordance with the following conditions:

A vapor recovery system (e.g., a carbon adsorption system or a condenser) shall recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.

(C) Each closed-vent system and control device used to comply with Subpart FF shall be operated at all times when waste is placed in the waste management unit vented to the control device except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.

2. Each affected liquid waste storage tank is subject to the emission standards and requirements established in 40 CFR Part 63, Subpart DD "National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations", when non-benzene waste is stored in the affected liquid waste storage tanks.

Although the affected waste liquid storage tanks are subject to Subpart DD, the provision of 40 CFR 63.683(b)(2)(i) exempts the tanks (defined by Subpart DD as off-site material management units) from the

control requirements of 40 CFR 63.683(b)(1) if such units are subject to another subpart or CFR Part 63 or 61 and the HAP emissions (identified in Table 1 of Subpart DD) are controlled.

3. The affected liquid waste storage tanks 300, 302, 304, 306, 308 and 310 are subject to 40 CFR Part 60, Subpart Kb. (40 CFR 60.112b(a)(3)):

A closed vent system and control device meeting the following specifications:

(a) The closed vent system shall be designed to collect all VOC vapors and gases discharged from the storage vessel and operated with no detectable emissions as indicated by an instrument reading of less than 500 ppm above background and visual inspections, as determined in part 60, subpart VV, §60.485(b).

(b) The control device shall be designed and operated to reduce inlet VOC emissions by 95 percent or greater.

4. Each affected liquid waste storage tank is subject to 35 IAC 219.129(f) and 35 IAC 219.122(b).

(a) The permittee shall maintain readily accessible records of the dimension and analysis of the capacity of each affected liquid waste storage tank. [35 IAC 219.129(f)]

(b) Each affected liquid waste storage tank should be equipped with a permanent submerged loading pipe. [35 IAC 219.122(b)]

(B). Non-Applicability of Regulations of Concern [40 CFR § 71.6(f)(1)]

1. The affected liquid waste storage tanks are not subject to control requirements of 35 IAC 219.120, 219.121 and 219.123, because these storage tanks are less than 151 m³ (40,000 gal) capacity [35 IAC 219.119, 219.121, 219.123(a)(2)].
2. The affected liquid waste storage tanks are not subject to 40 CFR Part 64, Compliance Assurance

Monitoring (CAM) for Major Stationary Sources, because the affected liquid wastes storage tanks are subject to a NESHAP proposed after November 15, 1990, pursuant to 40 CFR 64.2(b)(1)(i).

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a)(1)]

(D). **Monitoring and Testing** [40 CFR §71.6(a)(3)(i)(A)]

1. Pursuant to requirements of 40 CFR 61.343(a)(1), the cover and all opening components of each fixed-roof storage tank should be annually tested by the methods specified in 40 CFR 61.355(h) on the absence of the detectable emissions and the pressure is monitored continuously to ensure that the pressure in the tank remains below atmospheric pressure.
2. Pursuant to requirements of 40 CFR 61.349, the closed-vent should be annually tested by the methods specified in 40 CFR 61.355(h).
3. The Permittee shall comply with the following monitoring requirements as established in 40 CFR 61.354(d):

(a) For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device (e.g., a carbon canister), either the concentration level of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater. As an alternative to conducting this monitoring, an owner or operator may replace the carbon in the carbon adsorption system with fresh carbon at a regular predetermined time interval that is less than the carbon replacement interval that is determined by the maximum design flow rate and either the organic concentration or the benzene concentration in the gas stream vented to the carbon adsorption system.

4. If a breakthrough does not occur within 365 days of operation, the carbon shall be replaced. [40 CFR §71.6(a) (3) (i) (A)]
5. The Permittee shall comply with the following inspection requirements as established in 40 CFR 61.349(f) and (g):
 - (a) Each closed-vent system and control device shall be visually inspected quarterly. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections.
 - (b) Except as provided in 61.350, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than 5 calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed.
6. The Permittee shall also inspect the presence and condition of the submerged loading pipes from the top during the quarterly inspections and a physical inspection every five years. [40 CFR §71.6(a) (3) (i) (B)]

(E) . **Recordkeeping and Reporting** [40 CFR §71.6(a) (3)]

1. Requirements of 40 CFR 61.356 (benzene waste operations):
 - (a) An owner or operator using control equipment in accordance with 40 CFR 61.343 through 61.347 shall maintain engineering design documentation for all control equipment that is installed on the waste management unit. The documentation shall be retained for the life of the control equipment. If a control device is used, then the owner or operator shall maintain the control device records required by 40 CFR 61.356(f) [40 CFR 61.356(d)].

(b) An owner or operator using a closed-vent system and control device in accordance with 40 CFR 61.349 shall maintain the following records, pursuant to 40 CFR 61.356(f). The documentation shall be retained for the life of the control device:

- (i.) A statement signed and dated by the owner or operator certifying that the closed-vent system and control device is designed to operate at the documented performance level when the waste management unit vented to the control device is or would be operating at the highest load or capacity expected to occur.
- (ii.) Specifications, drawings, schematics, and piping and instrumentation diagrams prepared by the owner or operator, or the control device manufacturer or vendor that describe the control device design based on acceptable engineering texts. The design analysis shall address the following vent stream characteristics and control device operating parameters:

For a carbon adsorption system that does not regenerate the carbon bed directly on-site in the control device, such as a carbon canister, the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.

(c) For each control device, the owner or operator shall maintain documentation that includes the following information regarding the control device operation [61.356(j)]:

- (i.) Dates of startup and shutdown of the closed-vent system and control device.

(ii.) A description of the operating parameter (or parameters) to be monitored to ensure that the control device will be operated in conformance with these standards and the control device's design specifications and an explanation of the criteria used for selection of that parameter (or parameters). This documentation shall be kept for the life of the control device.

(iii.) Periods when the closed-vent system and control device are not operated as designed including all periods and the duration when:

(A) Any valve car-seal or closure mechanism required under §61.349(a)(1)(ii) is broken or the by-pass line valve position has changed.

(B) The flow monitoring devices required under §61.349(a)(1)(ii) indicate that vapors are not routed to the control device as required.

(iv.) If a carbon adsorber that is not regenerated directly on site in the control device is used, then the owner or operator shall maintain records of dates and times when the control device is monitored, when breakthrough is measured, and shall record the date and time that the existing carbon in the control device is replaced with fresh carbon.

2. Requirements of 40 CFR 60.115b(c) (NSPS):

A copy of the operating plan and a record of the measured values of the parameters monitored in accordance with 60.113b(c)(2) (Operate the closed vent system and control device and monitor the parameters of the closed vent system and control device in accordance with the operating plan submitted to the Administrator in accordance with paragraph 40 CFR 60.113b(c)(1), unless the plan was modified by the Administrator during the review process. In this case, the modified plan applies).

3. The permittee shall maintain the following records of the fugitive emissions: [40 CFR §71.6(a)(3)(i)(B)]

(a) Details of each visual survey or visible emissions observation, including date, time, observer and results for each emission unit and any other pollutant emitting activity;

(b) Date, time and type of any investigation conducted;

(c) Findings of the investigation, including the reasons for the presence of visible emissions or fugitive emissions of particulate matter;

(d) Date, time and type of corrective actions taken;

(e) Results of any Method 9 visible emissions observations conducted on the source of visible or fugitive emissions.

4. Other requirements: [40 CFR §71.6(a)(3)]

(a) Total organic liquid wastes processed, gal/mo and gal/yr;

(b) Average VOM/HAP content of received wastes, wt.%;

(c) Average vapor pressure of received liquid wastes, psia;

(d) Records of the size (capacity) of the affected liquid wastes storage tanks; and

(e) Records of all inspections performed.

2.5 Bulk Feed Building

(A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

1. The affected bulk solid waste storage facility is subject to 40 CFR Part 61, Subpart FF "National Emission Standards for Hazardous Air Pollutants for Benzene Waste Operations" when the storage pits are in "benzene" service.

2. 40 CFR Part 61, Subpart FF:

For the affected bulk solid waste storage facility, the owner or operator shall install, operate, and maintain a fixed-roof and closed-vent system that routes all organic vapors vented from the tank to a control device, pursuant to 40 CFR 61.343 and 61.349, respectively.

(a) The fixed-roof shall meet the following requirements [40 CFR 61.343(a)(1)]:

(i.) The cover and all openings (e.g., access hatches, sampling ports, and gauge wells) shall be designed to operate with no detectable emissions as indicated by an instrument reading less than 500 ppmv above background.

(ii.) Each opening shall be maintained in a closed, sealed position (e.g., covered by a lid that is gasketed and latched) at all times that waste is in the tank except when it is necessary to use the opening for waste sampling or removal, or for equipment inspection, maintenance, or repair.

(b) Each owner or operator who controls air pollutant emissions by using an enclosure vented through a closed-vent system to a control device must meet the following requirements specified in paragraphs 61.343(e)(1) through (e)(4):

(i.) The tank must be located inside a total enclosure. The enclosure must be designed and operated in accordance with the criteria for a permanent total enclosure as specified in "Procedure T-Criteria for and Verification of a Permanent or Temporary Total Enclosure" in 40 CFR 52.741, appendix B. The enclosure may have permanent or temporary openings to allow worker access; passage of material into or out of the enclosure by conveyor, vehicles, or other mechanical means; entry of permanent mechanical or electrical equipment; or direct airflow into the enclosure. The owner or operator must perform the verification procedure for the enclosure as specified in section 5.0 of Procedure T initially when the enclosure is first installed and, thereafter, annually. A facility that has conducted an initial compliance demonstration and

that performs annual compliance demonstrations in accordance with the requirements for Tank Level 2 control requirements 40 CFR 264.1084(i) or 40 CFR 265(i) is not required to make repeat demonstrations of initial and continuous compliance for the purposes of this subpart.

(ii.) The enclosure must be vented through a closed-vent system to a control device that is designed and operated in accordance with the standards for control devices specified in 61.349.

(iii.) Safety devices, as defined in Subpart FF, may be installed and operated as necessary on any enclosure, closed-vent system, or control device used to comply with the requirements of 61.343(e) (1) and (e) (2).

(iv.) The closed-vent system must be designed and operated in accordance with the requirements of §61.349.

(c) The closed-vent system and control device shall be designed and operated in accordance with the following requirements of 40 CFR 61.349:

(i.) The closed-vent system shall:

Be designed to operate with no detectable emissions as indicated by an instrument reading of less than 500 ppmv above background.

(ii.) The control device shall be designed and operated in accordance with the following conditions:

A vapor recovery system (e.g., a carbon adsorption system or a condenser) shall recover or control the organic emissions vented to it with an efficiency of 95 weight percent or greater, or shall recover or control the benzene emissions vented to it with an efficiency of 98 weight percent or greater.

(iii.) Each closed-vent system and control device used to comply with Subpart FF shall be operated at all times when waste is placed in the waste

management unit except when maintenance or repair of the waste management unit cannot be completed without a shutdown of the control device.

3. The affected bulk solid waste storage facility is subject to 40 CFR Part 63, Subpart DD "National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations" wherever any waste is stored in the storage pits.

Although the affected bulk solid waste storage facility is subject to Subpart DD, the provision of 40 CFR 63.683(b)(2)(i) exempts this unit (defined by Subpart DD as off-site material management units) from the control requirements of 40 CFR 63.683(b)(1) if such units are subject to another subpart or CFR Part 63 or 61 and the HAP emissions (identified in Table 1 of Subpart DD) are controlled.

4. 35 IAC 212.321(b)(1):

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

5. 35 IAC 212.123(a):

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

6. 35 IAC Part 219, Subpart G:

(a) No person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission source, except as provided in Sections 219.302, 219.303, 219.304 and

the following exception: If no odor nuisance exists the limitation of this Subpart shall apply only to photochemically reactive material [35 IAC 219.301].

(b) Emissions of organic material in excess of those permitted by 35 IAC 219.301 are allowable if such emissions are controlled by a vapor recovery system which adsorbs at least 85 percent of the total uncontrolled organic material that would otherwise be emitted to the atmosphere [35 IAC 219.302(b)].

(B). **Non-Applicability of Regulations of Concern** [40 CFR § 71.6(f)(1)]

The affected bulk solid waste storage facility is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources at this time, because it does not meet the criteria in §64.2(a)(3).

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a)(1)]

1. Except the time when bulk solid wastes are unloaded into the pits, all doors of the building shall be closed and all operations shall be enclosed inside the building. [40 CFR § 71.6(a)(1)]
2. The enclosed building, where bulk solid waste is accumulated, shall be operated under permanent negative pressure. [40 CFR § 71.6(a)(1)]

(D). **Monitoring and Testing** [40 CFR §71.6(a)(3)(i)(A)]

1. Pursuant to requirements of 40 CFR 61.343(a)(1), the cover and all opening components of each fixed-roof storage tank should be annually tested by the methods specified in 40 CFR 61.355(h) on the absence of the detectable emissions.
2. Pursuant to requirements of 40 CFR 61.349, the closed-vent should be annually tested by the methods specified in 40 CFR 61.355(h).

3. The permittee shall visually survey the bulk feed building each day for the presence of visible emissions or fugitive emissions of particulate matter. [40 CFR § 71.6(a)(3)(i)(B)]

(a) If the observations conducted identifies any visible emissions or fugitive emissions of particulate matter, the permittee shall:

(i.) Immediately upon conclusion of the visual observation, investigate the source and reason for the presence of visible emissions or fugitive emissions; and

(ii.) As soon as practicable, take appropriate corrective action.

(b) If the corrective actions undertaken do not eliminate the visible or fugitive emissions, the permittee shall within 24 hours of the initial survey shall conduct a test using EPA Reference Method 9 (see 40 CFR part 60, Appendix A).

(i.) If any of the visible emissions observations indicate visible emissions greater than 20% opacity, the permittee shall conduct daily visible emissions observations, for thirty minutes, of the emission point in question until two consecutive daily observations indicate visible emissions of 20% opacity or less.

(ii.) If the Method 9 visible emissions observation, or if two consecutive daily observations, indicate visible emissions of 20% opacity or less, the permittee shall conduct weekly visible emissions observations of the emission point for three additional weeks.

4. The enclosure for the affected bulk solid waste storage facility must be designed and operated in accordance with the criteria for a permanent total enclosure as specified in "Procedure T-Criteria for and Verification of a Permanent or Temporary Total

Enclosure" in 40 CFR 52.741, appendix B. The owner or operator must perform annually the verification procedure for the enclosure as specified in section 5.0 of Procedure T. [40 CFR 61.343(e)]

5. The Permittee shall perform the following monitoring procedures, as required by 40 CFR 61.354(c):

An owner or operator subject to the requirements in 61.349 shall install, calibrate, maintain, and operate according to the manufacturer's specifications a device to continuously monitor the control device operation as specified in below:

For a carbon adsorption system that does not regenerate the carbon bed directly on site in the control device (e.g., a carbon canister), the concentration level of the organic compounds or the concentration level of benzene in the exhaust vent stream from the carbon adsorption system shall be monitored on a regular schedule, and the existing carbon shall be replaced with fresh carbon immediately when carbon breakthrough is indicated. The device shall be monitored on a daily basis or at intervals no greater than 20 percent of the design carbon replacement interval, whichever is greater.

6. The Permittee shall continuously maintain and monitor the negative pressure inside the building, such that it is maintained at -0.7" w.c. at all times. [40 CFR §71.6(a) (3) (i) (B)]
7. The Permittee shall perform the following monitoring procedures, as required by 40 CFR 61.343:

Fixed-roof tanks:

(a) Each fixed-roof, seal, access door, and all other openings shall be checked by visual inspection initially and quarterly thereafter to ensure that no cracks or gaps occur and that access doors and other openings are closed and gasketed properly. [40 CFR 61.343(c)]

(b) Except as provided in 40 CFR 61.350, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts at

repair shall be made as soon as practicable, but not later than 45 calendar days after identification. [40 CFR 61.343(d)]

8. The Permittee shall perform the following monitoring procedures, as required by 40 CFR 61.349:

The closed-vent system:

(a) Each closed-vent system and control device shall be visually inspected initially and quarterly thereafter. The visual inspection shall include inspection of ductwork and piping and connections to covers and control devices for evidence of visible defects such as holes in ductwork or piping and loose connections. [40 CFR 61.349(f)]

(b) Except as provided in 40 CFR 61.350, if visible defects are observed during an inspection, or if other problems are identified, or if detectable emissions are measured, a first effort to repair the closed-vent system and control device shall be made as soon as practicable but no later than 5 calendar days after detection. Repair shall be completed no later than 15 calendar days after the emissions are detected or the visible defect is observed. [40 CFR 61.349(g)]

(c) The owner or operator of a control device that is used to comply with the provisions of this section shall monitor the control device in accordance 40 CFR 61.354(c). [40 CFR 61.349(h)]

(E). Recordkeeping and Reporting [40 CFR §71.6(a)(3)]

1. Recordkeeping required by 40 CFR 61.356:

(a) An owner or operator using a closed-vent system and control device in accordance with 40 CFR 61.349(f) shall maintain the following records. The documentation shall be retained for the life of the control device:

(i.) A statement signed and dated by the owner or operator certifying that the closed-vent system and control device is designed to operate at the documented performance level when the waste

management unit vented to the control device is or would be operating at the highest load or capacity expected to occur. [40 CFR 61.356 (f)]

- (ii.) If engineering calculations are used to determine control device performance in accordance with 40 CFR 61.349(c), then a design analysis for the control device that includes for example:

Specifications, drawings, schematics, and piping and instrumentation diagrams prepared by the owner or operator, or the control device manufacturer or vendor that describe the control device design based on acceptable engineering texts. The design analysis shall address the following vent stream characteristics and control device operating parameters: [40 CFR 61.356 (f)]

For a carbon adsorption system that does not regenerate the carbon bed directly on-site in the control device, such as a carbon canister, the design analysis shall consider the vent stream composition, constituent concentration, flow rate, relative humidity, and temperature. The design analysis shall also establish the design exhaust vent stream organic compound concentration level or the design exhaust vent stream benzene concentration level, capacity of carbon bed, type and working capacity of activated carbon used for carbon bed, and design carbon replacement interval based on the total carbon working capacity of the control device and source operating schedule.

- (iii.) An owner or operator shall maintain a record for each visual inspection required by 61.343 through 61.347 that identifies a problem (such as a broken seal, gap or other problem) which could result in benzene emissions. The record shall include the date of the inspection, waste management unit and control equipment location where the problem is identified, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed. [40 CFR 61.356 (g)]

(iv.) An owner or operator shall maintain a record for each test of no detectable emissions required by 61.343 through 61.347 and §61.349. The record shall include the following information: date the test is performed, background level measured during test, and maximum concentration indicated by the instrument reading measured for each potential leak interface. If detectable emissions are measured at a leak interface, then the record shall also include the waste management unit, control equipment, and leak interface location where detectable emissions were measured, a description of the problem, a description of the corrective action taken, and the date the corrective action was completed. [40 CFR 61.356 (h)]

(v.) For each control device, the owner or operator shall maintain documentation that includes the following information regarding the control device operation: [40 CFR 61.356 (j)]

(A) Dates of startup and shutdown of the closed-vent system and control device.

(B) A description of the operating parameter (or parameters) to be monitored to ensure that the control device will be operated in conformance with these standards and the control device's design specifications and an explanation of the criteria used for selection of that parameter (or parameters). This documentation shall be kept for the life of the control device.

(C) Periods when the closed-vent system and control device are not operated as designed including all periods and the duration when:

- (1) Any valve car-seal or closure mechanism required under 40 CFR §61.349(a)(1)(ii) is broken or the by-pass line valve position has changed.
- (2) The flow monitoring devices required under 40 CFR §61.349(a)(1)(ii) indicate that vapors are not routed to the control device as required.

(vi.) If a carbon adsorber that is not regenerated directly on site in the control device is used, then the owner or operator shall maintain records of dates and times when the control device is monitored, when breakthrough is measured, and shall record the date and time that the existing carbon in the control device is replaced with fresh carbon. [40 CFR 61.356 (j)]

(b) Each owner or operator using a total enclosure to comply with control requirements for tanks in 61.343 must keep the following records required in 61.356 (n) (1) and (2). Owners or operators may use records as required in 40 CFR 264.1089(b) (2) (iv) or 40 CFR 265.1090(b) (2) (iv) for a tank to meet the recordkeeping requirement in 61.356(n) (1). The owner or operator must make the records of each verification of a total enclosure available for inspection upon request:

(i.) Records of the most recent set of calculations and measurements performed to verify that the enclosure meets the criteria of a permanent total enclosure as specified in "Procedure T-Criteria for and Verification of a Permanent or Temporary Total Enclosure" in 40 CFR 52.741, appendix B;

(ii.) Records required for a closed-vent system and control device according to the requirements in 61.356(d) (f), and (j).

2. Other recordkeeping requirements: [40 CFR §71.6(a) (3) (i) (B)]

(a) Amount of accepted solid wastes, t/month and t/year.

(b) Log of maintenance and repair of air pollution control devices with the dates of service/repair made, and inspection conducted.

(c) Records of the pressure being maintained inside the building.

(d) Monthly and annual VOM/HAP emissions

3. The permittee shall maintain the following records of the fugitive emissions: [40 CFR §71.6(a)(3)(i)(B)]

(a) Details of each visual survey or visible emissions observation, including date, time, observer and results for each emission unit and any other pollutant emitting activity;

(b) Date, time and type of any investigation conducted;

(c) Findings of the investigation, including the reasons for the presence of visible emissions or fugitive emissions of particulate matter;

(d) Date, time and type of corrective actions taken;

(e) Results of any Method 9 visible emissions observations conducted on the source of visible or fugitive emissions.

2.6 Gasoline Storage Tanks

- (A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

1. No person shall cause or allow the loading of any organic material in any stationary tank having a storage capacity of greater than 946 l (250 gal), unless such tank is equipped with a permanent submerged loading pipe or an equivalent device approved by the Agency according to the provisions of 35 IAC 201, and further processed consistent with 35 IAC 219.108, or unless such tank is a pressure tank as described in 35 IAC 219.121(a) or it fitted with a recovery system as described in 35 IAC 219.121(b)(2). [35 IAC 219.122(b)]
2. No person shall cause or allow the transfer of gasoline from any delivery vessel into the stationary storage tank at a gasoline dispensing operations unless the tank is equipped with a submerged loading pipe. [35 IAC 219.583(a)(1)]
3. No person shall sell, offer for sale, dispense, supply, offer for supply, or transport for use in

Illinois gasoline whose Reid vapor pressure exceeds the applicable limitations set forth in 35 IAC 219.585 (b) and (c) below during the regulatory control periods, which shall be June 1 to September 15. [35 IAC 219.585(a)]

4. The Reid vapor pressure of gasoline, a measure of its volatility, shall not exceed 7.2 psi (49.68 kPa) during the regulatory control period in 1995 and each year thereafter. [35 IAC 219.585(b)]
5. The Reid vapor pressure of ethanol blend gasolines having at least nine percent (9%) but not more than ten percent (10%) ethyl alcohol by volume of the blended mixture, shall not exceed the limitations for gasoline set forth in subsection (b) of this Section by more than 1.0 psi (6.9 kPa). Notwithstanding this limitation, blenders of ethanol blend gasolines whose Reid vapor pressure is less than 1.0 psi above the base stock gasoline immediately after blending with ethanol are prohibited from adding butane or any product that will increase the Reid vapor pressure of the blended gasoline. [35 IAC 219.585(c)]

(B). **Non-Applicability of Regulations of Concern** [40 CFR § 71.6(f)(1)]

1. The affected gasoline storage tank is not subject to the requirements of 35 IAC 219.583(a)(2), (3), (4) pursuant to 35 IAC 219.583(b)(3), as it has a capacity of less than 575 gallons.
2. The affected gasoline storage tank is not subject to the requirements of 40 CFR 60, Subpart Kb pursuant to 40 CFR 60.110b(a), as the design capacity of affected storage tank is less than 40 cubic meters (10,576 gal).
3. The affected gasoline storage tank is not subject to the requirements of 35 IAC 219.121 pursuant to applicability criteria of 35 IAC 219.121, as it has a capacity of less than 40,000 gallons.
4. The affected gasoline storage tank is not subject to the requirements of 35 IAC 219.120 pursuant to 35 IAC 219.119(e), as it stores petroleum liquids.

5. The affected storage tank is not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because the affected gasoline storage tank does not use an add-on control device to achieve compliance with an emission limitation or standard.

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a) (1)]

(D). **Monitoring and Testing** [40 CFR §71.6(a) (3) (i) (A)]

1. The Permittee shall have gasoline stored in the affected tank sampled and analyzed for Reid vapor pressure. Samples shall be conducted at least once per calendar year or within 15 days of a written request from EPA. [40 CFR §71.6(a) (3) (i) (B)]
2. All sampling (testing) of gasoline required pursuant to the provisions of 35 IAC 219.585 shall be conducted in accordance with the procedures contained in 40 CFR Part 80, Appendix D, Sampling Procedures for Fuel Volatility, which are incorporated by reference in 35 IAC 219.112.
3. The Reid vapor pressure of gasoline shall be measured in accordance with the procedures contained in "Tests for Determining Reid Vapor Pressure (RVP) of Gasoline and Gasoline-Oxygenate Blends" as set forth in 40 CFR 80, Appendix E, incorporated by reference in 35 IAC 219.112.
4. The ethanol content of ethanol blend gasolines shall be determined by use of one of the approved testing methodologies specified in 40 CFR Part 80, Appendix F, incorporated by reference in 35 IAC 219.112
5. Any alternate to the sampling or testing methods or procedures contained in 35 IAC 219.585 (d), (e), and (f) must be approved by the Agency, which shall consider data comparing the performance of the proposed alternative to the performance of one or more approved test methods or procedures. Such data shall accompany any request for Agency approval of any alternate test procedure. If the Agency determines that such data demonstrates that the proposed alternative will achieve results equivalent to the

approved test methods or will achieve results equivalent to the approved test methods or procedures, the Agency shall approve the proposed alternative.

6. On an annual basis, the Permittee shall conduct an inspection of the affected gasoline storage tank to review its physical condition and ability to comply with IAC 219.585, pursuant to 40 CFR 71.6(a)(3)(B).

(E). Recordkeeping and Reporting [40 CFR §71.6(a)(3)]

1. A file for the affected gasoline storage tank, which shall be kept current, that contains design information for the capacity of each tank and the presence of a permanent submerged loading pipe. [40 CFR §71.6(a)(3)(B)]
2. An operating log or other records for the affected gasoline storage tank that, at a minimum, shall include the following: [40 CFR §71.6(a)(3)(i)(B)]
 - (a) Information for each regulatory control period (June 1 through September 15) that addresses compliance with IAC 219.585, including the Reid vapor pressure (psi) of the gasoline stored in the tank during the regulatory control period, with accompanying documentation or supporting information.
 - (b) Information identifying other deviations from applicable requirements, not addressed above, with detailed description and explanation.
 - (c) Information documenting performance of the inspections, including date and description of the inspection, confirmation of the adequacy of the specific features of the tanks required for control of emissions, and identification of any such features that are not in proper working order or otherwise deficient, with recommendations for maintenance, repair or replacement.
3. The Permittee shall submit report(s) for these analyses to the Illinois EPA no later than 30 days after the date the analyses are obtained. These

reports shall include the following: [40 CFR §71.6(a)(3)(i)(B)]

- (a) Summary of results.
 - (b) Date and time of sampling.
 - (c) Name of the company that performed the sampling and analysis.
 - (d) Description of sampling and analytical data.
 - (e) Detailed data and calculations, including raw data sheets and laboratory records.
4. An inspection, maintenance and repair log or other records for the affected storage tank that, at a minimum, include information related to any repair or replacement of the submerged loading pipe. [40 CFR §71.6(a)(3)(i)(B)]
 5. Records for each shipment of material loaded into the affected gasoline storage tank that include copies of the invoice, bill of lading or other documentation from the supplier that provides the type of material, the amount of shipment, date of delivery, and the Reid vapor pressure (psi) of gasoline. These records have to be kept for three years. [40 CFR §71.6(a)(3)(i)(B)]
 6. Records of results of any testing samples performed. [40 CFR §71.6(a)(3)(i)(B)]
 7. Records of the amount of gasoline dispensed from the affected gasoline storage tank (gallons/month and gallons/year). [40 CFR §71.6(a)(3)(i)(B)]

2.7 Boiler

(A). **Emission Limitations and Standards** [40 CFR §71.6(a)(1)]

1. No person shall cause or allow the emission of carbon monoxide into the atmosphere from any fuel combustion

emission source with actual heat input greater than 2.9 MW (10 mmBtu/hr) to exceed 200 ppm, corrected 50 percent excess air [35 IAC 216.121 and 40 CFR 63.52].

2. Emissions and operation of this boiler shall not exceed the following limits:

Fuel	Operating	NOx		CO	
	Hours	(Lb/Hr)	(Ton/Yr)	(Lb/Hr)	(Ton/Yr)
Natural Gas	8760	1.46	6.41	2.1	9.2

These limits are based upon the maximum firing rate for the boiler, and standard emission factors. [Construction permit 95080025]

3. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to the requirements of 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.
4. The owner or operator shall record and maintain records of the amount of each fuel combusted during each operating day. 40 C.F.R. § 60.48c(g)(1)5. The owner/operator may elect to record and maintain records of the amount of each fuel combusted during each calendar month, as a alternative to keeping daily records required by section 2.7(A)(4) of this permit.

(B). Non-Applicability of Regulations of Concern [40 CFR § 71.6(f)(1)]

1. The affected boiler is not subject to 35 IAC 217.121, emissions or nitrogen oxides from new fuel combustion emission sources because the actual heat input of each of these affected boilers is less than 73.2 MW (250 mmBtu/hr).
2. The affected boiler is not subject to 35 IAC 219.301 pursuant to 35 IAC 219.303, which states that fuel combustion emission units are not subject to 35 IAC 219.301.

3. The affected boiler is not subject to 35 IAC 214.122 because solid or liquid fuels **are not exclusively** burned in the affected boiler.
4. The affected boiler is not subject to 40 CFR Part 64, compliance Assurance Monitoring (CAM) because the affected boiler does not use an add-on control devices to achieve compliance with an emission limitation or standard.

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a) (1)]

1. Natural gas shall be the only fuel fired.
[Construction permit 95080025]
2. Total natural gas consumption shall not exceed 7.6 mmscf/month and 91.1 mmscf/year. [40 C.F.R. §71.6(a) (3) (i) (B)]

(D). **Monitoring and Testing** [40 CFR §71.6(a) (3) (i) (A)]

1. The Permittee shall perform an annual Method 9 test to ensure compliance with the opacity limit. [40 CFR 71.6(a) (i) (3) (B)]
2. The Permittee must conduct annual performance tests for carbon monoxide from the affected boilers. Each annual performance test must be conducted between 10 and 12 months after the previous performance test. [40 CFR 63.52]

The Permittee must do the following:

- i. Select the sampling ports location and the number of traverse points using Method 1 in appendix A to part 60,
- ii. Determine oxygen and carbon dioxide concentrations of the stack gas using Method 3A or 3B in appendix A to part 60, or ASTM D6522-00 (IBR, see §63.14(b)), or ASME PTC 19, Part 10 (1981) (IBR, see §63.14(i)),
- iii. Measure the moisture content of the stack gas using Method 4 in appendix A to part 60, and

- iv. Measure the carbon monoxide emission concentration using Method 10, 10A, or 10B in appendix A to part 60 of this chapter, or ASTM D6522-00 (IBR, see §63.14(b)) when the fuel is natural gas.

(E). Recordkeeping and Reporting [40 CFR §71.6(a)(3)]

The owner/operator must record and maintain:

1. Monthly records of natural gas usage (40 CFR 60.48c(g));
2. Annual records of natural gas usage (mmscf/yr) [Construction permit 95080025];
3. A summary of the results of the annual performance tests. [40 CFR 63.52]
4. The Permittee must submit a compliance report semiannually which contains: [40 CFR 63.52]
 - (a) Company name and address.
 - (b) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
 - (c) Date of report and beginning and ending dates of the reporting period.
 - (d) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel and the total fuel usage amount with units of measure.
 - (e) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable.
The owner/operator shall make actual test results available to the Administrator upon request.
 - (f) The hours of operation for each boiler and process heater that is subject to an emission limit for each calendar month within the semiannual reporting period.

(g) If you had a startup, shutdown, or malfunction during the reporting period and you took actions consistent with your SSMP, the compliance report must include the information in §63.10(d)(5)(i).

(h) If there are no deviations from any emission limits or operating limits in this subpart that apply to you, and there are no deviations from the requirements for work practice standards in this subpart, a statement that there were no deviations from the emission limits, operating limits, or work practice standards during the reporting period.

5. The Permittee shall notify IEPA prior to any change in the types of fuel used in the boiler. [Construction permit 95080025]

2.8 Fugitive Emissions

(A). Emission Limitations and Standards [40 CFR §71.6(a)(1)]

1. The affected leaking equipment is subject to the following requirements of 35 IAC Part 219 Subpart C:

(a) Pumps and Compressors [35 IAC 219.142]:

No person shall cause or allow the discharge of more than 32.8 ml (2 cu in) of VOL with vapor pressure of 17.24 kPa (2.5 psia) or greater at 294.3⁰K (70⁰F) into the atmosphere from any pump or compressor in any 15 minute period at standard conditions.

(b) Vapor Blowdown [35 IAC 219.143]:

No person shall cause or allow the emission of organic material into the atmosphere from any vapor blowdown system or any safety relief valve, except such safety relief valves not capable of causing an excessive release, unless such emission is controlled:

(i.) To 10 ppm equivalent methane (molecular weight 16.0) or less; or

(ii.) By combustion in a smokeless flare; or

(iii.) By other air pollution control equipment approved by IEPA according to provisions of 35 IAC 201 and further processed consistent with 35 IAC 219.108.

2. The affected leaking equipment is subject to 40 CFR Part 61 Subpart V and 40 CFR Part 61 Subpart J. Each owner and operator subject to Subpart J shall comply with the standards and requirements of Subpart V pursuant to 40 CFR 61.112(b).

(B). **Non-Applicability of Regulations of Concern** [40 CFR § 71.6(f)(1)]

1. This permit is issued based on the affected leaking equipment not being subject to the New Source Performance Standards (NSPS) for the Synthetic Organic Chemicals Manufacturing Industry, 40 CFR 60, Subparts VV, III, NNN, and RRR; the National Emission Standards For Hazardous Air Pollutants for the Synthetic Organic Chemicals Manufacturing Industry, 40 CFR 63, Subparts F, G, H, and I, because the affected leaking equipment are not associated with the manufacture of organic chemicals.

2. This permit is issued based on the affected leaking equipment not being subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM), because the affected leaking equipment do not use an add-on control devices to achieve compliance with an emission limitation or standard.

(C). **Work Practice and Operational Requirements** [40 CFR § 71.6(a)(1)]

The Permittee shall comply with the following standards of 40 CFR Part 61, Subpart V:

1. General [40 CFR 61.242-1]:

(a) Each owner or operator subject to the provisions of this subpart shall demonstrate compliance with the requirements of 40 CFR 61.242-1 to 61.242-11 for each new and existing source as required in 40 CFR 61.05, except as provided in 40 CFR 61.243 and 61.244.

(b) Compliance with this subpart will be determined by review of records, review of performance test results, and inspection using the methods and procedures specified in 40 CFR 61.245.

(c) Each piece of equipment to which this subpart applies shall be marked in such a manner that it can be distinguished readily from other pieces of equipment.

2. Pumps [40 CFR 61.242-2]:

(a) Each pump shall be monitored monthly to detect leaks by the methods specified in 40 CFR 61.245(b), except as provided in 40 CFR 61.242-1(c) and paragraphs (d), (e), (f) and (g) of 40 CFR 61.242-2.

(b) Each pump shall be checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.

(c) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(d) If there are indications of liquids dripping from the pump seal, a leak is detected.

(e) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 61.242-10.

(f) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(g) Each pump equipped with a dual mechanical seal system that includes a barrier fluid system is exempt from the requirements of paragraphs (i) and (ii) of this section, provided the following requirements are met:

(i.) Each dual mechanical seal system is:

(A) Operated with the barrier fluid at a pressure that is at all times greater than the pump stuffing box pressure; or

- (B) Equipped with a barrier fluid degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of §61.242-11; or
 - (C) Equipped with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere.
- (ii.) The barrier fluid is not in VHAP service and, if the pump is covered by standards under 40 CFR Part 60, is not in VOC service.
- (iii.) Each barrier fluid system is equipped with a sensor that will detect failure of the seal system, the barrier fluid system, or both.
- (iv.) Each pump is checked by visual inspection each calendar week for indications of liquids dripping from the pump seal.
- (A) If there are indications of liquid dripping from the pump seal at the time of the weekly inspection, the pump shall be monitored as specified in 40 CFR 61.245 to determine the presence of VOC and VHAP in the barrier fluid.
 - (B) If the monitor reading (taking into account any background readings) indicates the presence of VHAP, a leak is detected. For the purpose of this paragraph, the monitor may be calibrated with VHAP, or may employ a gas chromatography column to limit the response of the monitor to VHAP, at the option of the owner or operator
 - (C) If an instrument reading of 10,000 ppm or greater (total VOC) is measured, a leak is detected.
- (v.) Each sensor as described in paragraph (d) (3) of 40 CFR 61.242-2 is checked daily or is equipped with an audible alarm.
- (vi.) The owner or operator determines, based on design considerations and operating experience, criteria applicable to the presence and frequency

of drips and to the sensor that indicates failure of the seal system, the barrier fluid system, or both.

(vii.) If indications of liquids dripping from the pump seal exceed the criteria established in paragraph (d)(6)(i) of this section, or if, based on the criteria established in paragraph (d)(6)(i) of this section, the sensor indicates failure of the seal system, the barrier fluid system, or both, a leak is detected.

(viii.) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after it is detected, except as provided in 40 CFR 61.242-10.

(ix.) A first attempt at repair shall be made no later than five calendar days after each leak is detected.

(x.) Any pump that is designated, as described in 40 CFR 61.246(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraphs (a), (c), and (d) if the pump:

(A) Has no externally actuated shaft penetrating the pump housing;

(B) Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c); and

(C) Is tested for compliance with paragraph 40 CFR 61.242-2(e)(2) initially upon designation, annually, and at other times requested by the Administrator.

(xi.) If any pump is equipped with a closed-vent system capable of capturing and transporting any leakage from the seal or seals to a process or fuel gas system or to a control device that complies with the requirements of §61.242-11, it

is exempt from the requirements of paragraphs (a) through (e) of 40 CFR 61.242-2.

(xii.) Any pump that is designated, as described in 40 CFR 61.246(f)(1), as an unsafe-to-monitor pump is exempt from the monitoring and inspection requirements of paragraphs (a) and (d)(4) through (6) of 40 CFR 61.242-2 if:

(A) The owner or operator of the pump demonstrates that the pump is unsafe-to-monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (a) of 40 CFR 61.242-2; and

(B) The owner or operator of the pump has a written plan that requires monitoring of the pump as frequently as practicable during safe-to-monitor times but not more frequently than the periodic monitoring schedule otherwise applicable, and repair of the equipment according to the procedures in paragraph (c) of 40 CFR 61.242-2 if a leak is detected.

(xiii.) Any pump that is located within the boundary of an unmanned plant site is exempt from the weekly visual inspection requirement of paragraphs (a)(2) and (d)(4) 40 CFR 61.242-2, and the daily requirements of paragraph (d)(5) of 40 CFR 61.242-2, provided that each pump is visually inspected as often as practicable and at least monthly.

3. Compressors [40 CFR 61.242-3]:

(a) Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of process fluid to atmosphere, except as provided in 40 CFR 61.242-1(c) and paragraphs (h) and (i) of 40 CFR 61.242-3.

(b) Each compressor seal system as required in paragraph (i) shall be:

(i.) Operated with the barrier fluid at a pressure that is greater than the compressor stuffing box pressure; or

(ii.) Equipped with a barrier fluid system degassing reservoir that is routed to a process or fuel gas system or connected by a closed-vent system to a control device that complies with the requirements of 40 CFR 61.242-11; or

(iii.) Equipped with a system that purges the barrier fluid into a process stream with zero VHAP emissions to atmosphere.

(c) The barrier fluid shall not be in VHAP service and, if the compressor is covered by standards under 40 CFR part 60, shall not be in VOC service.

(d) Each barrier fluid system as described in paragraphs (a)-(c) of 40 CFR 61.242-3 shall be equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.

(e) Each sensor as required in paragraph (d) of 40 CFR 61.242-3 shall be checked daily or shall be equipped with an audible alarm unless the compressor is located within the boundary of an unmanned plant site.

(f) The owner or operator shall determine, based on design considerations and operating experience, a criterion that indicates failure of the seal system, the barrier fluid system, or both.

(g) If the sensor indicates failure of the seal system, the barrier fluid system, or both based on the criterion determined under paragraph (e) (2) of 40 CFR 61.242-3, a leak is detected.

(h) When a leak is detected, it shall be repaired as soon as practicable, but not later than 15 calendar days after it is detected, except as provided in 40 CFR 61.242-10.

(i) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(k) A compressor is exempt from the requirements of paragraphs (a) and (b) of 40 CFR 61.242-3 if it is equipped with a closed-vent system to capture and transport leakage from the compressor drive shaft back

to a process or fuel gas system or to a control device that complies with the requirements of §61.242-11, except as provided in paragraph (i) of 40 CFR 61.242-3.

(1) Any Compressor that is designated, as described in 40 CFR 61.246(e) (2), for no detectable emission as indicated by an instrument reading of less than 500 ppm above background is exempt from the requirements of paragraphs (a)-(h) of 40 CFR 61.242-3 if the compressor:

(i.) Is demonstrated to be operating with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c); and

(ii.) Is tested for compliance with paragraph (i) (1) of 40 CFR 61.242-3 initially upon designation, annually, and at other times requested by the Administrator.

4. Open-ended valves or lines [40 CFR 61.242-6]:

(a) Each open-ended valve or line shall be equipped with a cap, blind flange, plug, or a second valve, except as provided in 40 CFR 61.242-1(c).

(b) The cap, blind flange, plug, or second valve shall seal the open end at all times except during operations requiring process fluid flow through the open-ended valve or line.

(c) Each open-ended valve or line equipped with a second valve shall be operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.

(d) When a double block and bleed system is being used, the bleed valve or line may remain open during operations that require venting the line between the block valves but shall comply with paragraph (a) of 40 CFR 61.242-6 at all other times.

(e) Open-ended valves or lines in an emergency shutdown system which are designed to open

automatically in the event of a process upset are exempt from the requirements of paragraphs (a), (b) and (c) of 40 CFR 61.242-6.

(f) Open-ended valves or lines containing materials which would autocatalytically polymerize or would present an explosion, serious overpressure, or other safety hazard if capped or equipped with a double block and bleed system as specified in paragraphs (a) through (c) of 40 CFR 61.242-6 are exempt from the requirements of paragraphs (a) through (c) of 40 CFR 61.242-6.

5. Valves [40 CFR 61.242-7]:

(a) Each valve shall be monitored monthly to detect leaks by the method specified in 40 CFR 61.245(b) and shall comply with paragraphs (b)-(e) of 40 CFR 61.242-7, except as provided in paragraphs (f), (g), and (h) of 40 CFR 61.242-7, 40 CFR 61.243-1 or 61.243-2, and 61.242-1(c).

(b) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(c) Any valve for which a leak is not detected for 2 successive months may be monitored the first month of every quarter, beginning with the next quarter, until a leak is detected.

(d) If a leak is detected, the valve shall be monitored monthly until a leak is not detected for 2 successive months.

(e) When a leak is detected, it shall be repaired as soon as practicable, but no later than 15 calendar days after the leak is detected, except as provided in 40 CFR 61.242-10.

(f) A first attempt at repair shall be made no later than 5 calendar days after each leak is detected.

(g) First attempts at repair include, but are not limited to, the following best practices where practicable:

(i.) Tightening of bonnet bolts;

- (ii.) Replacement of bonnet bolts;
 - (iii.) Tightening of packing gland nuts; and
 - (iv.) Injection of lubricant into lubricated packing
- (h) Any valve that is designated, as described in 40 CFR 61.246(e)(2), for no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, is exempt from the requirements of paragraph (a) of 40 CFR 61.242-7 if the valve:
- (i.) Has no external actuating mechanism in contact with the process fluid;
 - (ii.) Is operated with emissions less than 500 ppm above background, as measured by the method specified in 40 CFR 61.245(c); and
 - (iii.) Is tested for compliance with paragraph (f)(2) of 40 CFR 61.242-7 initially upon designation, annually, and at other times requested by the Administrator.
- (i) Any valve that is designated, as described in 40 CFR 61.246(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of paragraph (a) of 40 CFR 61.242-7 if:
- (i.) The owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (a) of 40 CFR 61.242-7; and
 - (ii.) The owner or operator of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.
- (j) Any valve that is designated, as described in §61.246(f)(1), as an unsafe-to-monitor valve is exempt from the requirements of paragraph (a) of 40 CFR 61.242-7 if:

- (i.) The owner or operator of the valve demonstrates that the valve is unsafe to monitor because monitoring personnel would be exposed to an immediate danger as a consequence of complying with paragraph (a) of 40 CFR 61.242-7; and
- (ii.) The owner or operator of the valve has a written plan that requires monitoring of the valve as frequent as practicable during safe-to-monitor times.

(k) Any valve that is designated, as described in 40 CFR 61.246(f)(2), as a difficult-to-monitor valve is exempt from the requirements of paragraph (a) of 40 CFR 61.242-7 if:

- (i.) The owner or operator of the valve demonstrates that the valve cannot be monitored without elevating the monitoring personnel more than 2 meters above a support surface;
- (ii.) The process unit within which the valve is located is an existing process unit; and
- (iii.) The owner or operator of the valve follows a written plan that requires monitoring of the valve at least once per calendar year.

6. Alternative standards for valves in VHAP service—allowable percentage of valves leaking [40 CFR 61.243-1]:

(a) An owner or operator may elect to have all valves within a process unit to comply with an allowable percentage of valves leaking of equal to or less than 2.0 percent.

(b) The following requirements shall be met if an owner or operator decides to comply with an allowable percentage of valves leaking:

- (i.) An owner or operator must notify the Administrator that the owner or operator has elected to have all valves within a process unit to comply with the allowable percentage of valves leaking before implementing this alternative standard, as specified in 40 CFR 61.247(d).

(ii.) A performance test as specified in paragraph (c) of 40 CFR 61.243-1 shall be conducted initially upon designation, annually, and at other times requested by the Administrator.

(iii.) If a valve leak is detected, it shall be repaired in accordance with §61.242-7(d) and (e).

(c) Performance tests shall be conducted in the following manner:

(i.) All valves in VHAP service within the process unit shall be monitored within 1 week by the methods specified in 40 CFR 61.245(b).

(ii.) If an instrument reading of 10,000 ppm or greater is measured, a leak is detected.

(iii.) The leak percentage shall be determined by dividing the number of valves in VHAP service for which leaks are detected by the number of valves in VHAP service within the process unit.

(d) Owner or operators who elect to have all valves comply with this alternative standard shall not have a process unit with a leak percentage greater than 2.0 percent.

(e) If an owner or operator decides no longer to comply with 40 CFR 61.243-1, the owner or operator must notify the Administrator in writing that the work practice standard described in 40 CFR 61.242-7(a)-(e) will be followed.

7. Alternative standards for valves in VHAP service—skip period leak detection and repair [40 CFR 61.243-2]:

(a) An owner or operator may elect for all valves within a process unit to comply with one of the alternative work practices specified in paragraphs (b) (2) and (3) of 40 CFR 61.243-2.

(b) An owner or operator must notify the Administrator before implementing one of the alternative work practices, as specified in 40 CFR 61.247(d).

(c) An owner or operator shall comply initially with the requirements for valves, as described in 40 CFR 61.242-7.

(d) After 2 consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, an owner or operator may begin to skip one of the quarterly leak detection periods for the valves in VHAP service.

(e) After five consecutive quarterly leak detection periods with the percentage of valves leaking equal to or less than 2.0, an owner or operator may begin to skip three of the quarterly leak detection periods for the valves in VHAP service.

(f) If the percentage of valves leaking is greater than 2.0, the owner or operator shall comply with the requirements as described in 40 CFR 61.242-7 but may again elect to use this section.

(D). **Monitoring and Testing** [40 CFR §71.6(a)(3)(i)(A)]

1. The Permittee shall comply with the following test methods and procedures requirements of 40 CFR 61.245:

(a) Each owner or operator subject to the provisions of this subpart shall comply with the test methods and procedures requirements provided in this section.

(b) Monitoring, as required in 40 CFR 61.242, 61.243, 61.244, and 61.135, shall comply with the following requirements:

(i.) Monitoring shall comply with Method 21 of Appendix A of 40 CFR part 60.

(ii.) The detection instrument shall meet the performance criteria of Method 21.

(iii.) The instrument shall be calibrated before use on each day of its use by the procedures specified in Method 21.

(iv.) Calibration gases shall be:

(A) Zero air (less than 10 ppm of hydrocarbon in air); and

(B) A mixture of methane or n-hexane and air at a concentration of approximately, but less than, 10,000 ppm methane or n-hexane.

(v.) The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.

(c) When equipment is tested for compliance with or monitored for no detectable emissions, the owner or operator shall comply with the following requirements:

(i.) The requirements of paragraphs (b) (1) through (4) of 40 CFR 61.245 shall apply.

(ii.) The background level shall be determined, as set forth in Method 21.

(iii.) The instrument probe shall be traversed around all potential leak interfaces as close to the interface as possible as described in Method 21.

(iv.) The arithmetic difference between the maximum concentration indicated by the instrument and the background level is compared with 500 ppm for determining compliance.

(d) Each piece of equipment within a process unit that can conceivably contain equipment in VHAP service is presumed to be in VHAP service unless an owner or operator demonstrates that the piece of equipment is not in VHAP service. For a piece of equipment to be considered not in VHAP service, it must be determined that the percent VHAP content can be reasonably expected never to exceed 10 percent by weight. For purposes of determining the percent VHAP content of the process fluid that is contained in or contacts equipment, procedures that conform to the methods described in ASTM Method D-2267 (incorporated by the reference as specified in 40 CFR 61.18) shall be used.

(e) An owner or operator may use engineering judgment rather than the procedures in paragraph (d)(1) of 40 CFR 61.245 to demonstrate that the percent VHAP

content does not exceed 10 percent by weight, provided that the engineering judgment demonstrates that the VHAP content clearly does not exceed 10 percent by weight. When an owner or operator and the Administrator do not agree on whether a piece of equipment is not in VHAP service, however, the procedures in paragraph (d)(1) of this section shall be used to resolve the disagreement.

(f) If an owner or operator determines that a piece of equipment is in VHAP service, the determination can be revised only after following the procedures in paragraph (d)(1) of this section.

(g) Samples used in determining the percent VHAP content shall be representative of the process fluid that is contained in or contacts the equipment or the gas being combusted in the flare.

2. 40 CFR 61.246

(a) An owner or operator of more than one process unit subject to the provisions of 40 CFR Part 61, Subpart V may comply with the recordkeeping requirements for these process units in one recordkeeping system if the system identifies each record by each process unit.

(b) When each leak is detected as specified in 40 CFR 61.242-2, 61.242-3, 61.242-7, and 61.242-8, the following requirements apply:

- (i.) A weatherproof and readily visible identification, marked with the equipment identification number, shall be attached to the leaking equipment.
- (ii.) The identification on a valve may be removed after it has been monitored for 2 successive months as specified in 40 CFR 242-7(c) and no leak has been detected during those 2 months.
- (iii.) The identification on equipment, except on a valve, may be removed after it has been repaired.

(c) When each leak is detected as specified in 40 CFR 61.242-2, 61.242-3, 61.242-7, 61.242-8, and 61.135, the following information shall be recorded in a log

and shall be kept for 2 years in a readily accessible location:

- (i.) The instrument and operator identification numbers and the equipment identification number.
- (ii.) The date the leak was detected and the dates of each attempt to repair the leak.
- (iii.) Repair methods applied in each attempt to repair the leak.
- (iv.) "Above 10,000" if the maximum instrument reading measured by the methods specified in 40 CFR 61.245(a) after each repair attempt is equal to or greater than 10,000 ppm.
- (v.) "Repair delayed" and the reason for the delay if a leak is not repaired within 15 calendar days after discovery of the leak.
- (vi.) The signature of the owner or operator (or designate) whose decision it was that repair could not be affected without a process shutdown.
- (vii.) The expected date of successful repair of the leak if a leak is not repaired within 15 calendar days unrepaired.
- (viii.) Dates of process unit shutdowns that occur while the equipment is unrepaired.
- (ix.) The date of successful repair of the leak.

(d) The following information pertaining to all equipment to which a standard applies shall be recorded in a log that is kept in a readily accessible location:

- (i.) A list of identification numbers for equipment (except welded fittings) subject to the requirements of Subpart V.
- (ii.) A list of identification numbers for equipment that the owner or operator elects to designate for no detectable emissions as indicated by an

instrument reading of less than 500 ppm above background.

(iii.) The designation of this equipment for no detectable emissions shall be signed by the owner or operator.

(iv.) The dates of each compliance test required in 40 CFR 61.242-2(e), 61.242-3(i), 61.242-4, and 61.242-7(f).

(v.) The background level measured during each compliance test.

(vi.) The maximum instrument reading measured at the equipment during each compliance test.

(e) The following information pertaining to all valves subject to the requirements of 40 CFR 61.242-7(g) and (h) and to all pumps subject to the requirements of 61.242-2(g) shall be recorded in a log that is kept in a readily accessible location:

(i.) A list of identification numbers for valves and pumps that are designated as unsafe to monitor, an explanation for each valve or pump stating why the valve or pump is unsafe to monitor, and the plan for monitoring each valve or pump.

(ii.) A list of identification numbers for valves that are designated as difficult to monitor, an explanation for each valve stating why the valve is difficult to monitor, and the planned schedule for monitoring each valve.

(f) The following information shall be recorded in a log that is kept in a readily accessible location:

(i.) Design criterion required in 40 CFR 61.242-2(d)(5), and 61.242-3(e)(2), and an explanation of the design criterion; and

(ii.) Any changes to this criterion and the reasons for the changes.

(g) Hours of operation of each component.

(h) Emissions of VOM calculated in accordance with compliance procedures in Condition 7.8.12.

(E). **Recordkeeping and Reporting** [40 CFR §71.6(a)(3)]

1. The Permittee shall promptly notify the permitting authority, of deviations of the affected leaking equipment with the permit requirements as follows, pursuant to 40 CFR §71.6(a)(3)(iii)(B). Reports shall describe the probable cause of such deviations, and any corrective actions or preventive measures taken.

2. 40 CFR Part 61, Subpart V: [61.247]

(a) An owner or operator of any piece of equipment to which this subpart applies shall submit a statement in writing notifying the Administrator that the requirements of 40 CFR 61.242, 61.245, 61.246, and 61.247 are being implemented.

(b) In the case of an existing source or a new source which has an initial startup date preceding the effective date, the statement is to be submitted within 90 days of the effective date, unless a waiver of compliance is granted under 40 CFR 60.11, along with the information required under 40 CFR 61.10. If a waiver of compliance is granted, the statement is to be submitted on a date scheduled by the Administrator.

(c) The statement is to contain the following information for each source:

(i.) Equipment identification number and process unit identification.

(ii.) Type of equipment (for example, a pump or pipeline valve).

(iii.) Percent by weight VHAP in the fluid at the equipment.

(iv.) Process fluid state at the equipment (gas/vapor or liquid).

(v.) Method of compliance with the standard (for example, "monthly leak detection and repair" or "equipped with dual mechanical seals").

(d) A report shall be submitted to the Administrator semiannually starting 6 months after the initial report required in paragraph (a) of 40 CFR 61.247, that includes the following information:

(i.) Process unit identification.

(ii.) For each month during the semiannual reporting period:

(A) Number of valves for which leaks were detected as described in 40 CFR 61.242-7(b) of 40 CFR 61.243-2.

(B) Number of valves for which leaks were not repaired as required in 40 CFR 61.242-7(d).

(C) Number of pumps for which leaks were detected as described in 40 CFR 61.242-2(b) and (d)(6).

(D) Number of pumps for which leaks were not repaired as required in 40 CFR 61.242-2 (c) and (d)(6).

(E) Number of compressors for which leaks were detected as described in 40 CFR 61.242-3(f).

(F) Number of compressors for which leaks were not repaired as required in 40 CFR 61.242-3(g).

(G) The facts that explain any delay of repairs and, where appropriate, why a process unit shutdown was technically infeasible.

2.9 Insignificant Activities

(A) List of Insignificant Activities

2.5 mmBtu/hr Tioga portable boiler, two emergency generators (<112kW), Ash handling, Handling of spent dry scrubber solids, Lime unloading and proportioning, Gasoline storage and dispensing, use of absorbent, General Vehicle maintenance and servicing (assumed to include diesel fuel

handling), Laboratory, piping and storage system for natural gas, Non-halogenated cold cleaning degreasers, Internal combustion engines of motor vehicles, and Storage and handling of closed drums.

(B) Compliance with Applicable Requirements

1. For each particulate matter process emission unit, the Permittee shall comply with the applicable particulate matter emission limit of 35 IAC 212.321 or 212.322 (see Attachment 2) and 35 IAC Part 266. For example, the particulate matter emissions from a process emission unit shall not exceed 0.55 pounds per hour if the emission unit's process weight rate is 100 pounds per hour or less, pursuant to 35 IAC 266.110.
2. For each organic material emission unit that uses organic material, e.g., a mixer or printing line, the Permittee shall comply with the applicable VOM emission limit of 35 IAC 215.301, which requires that organic material emissions not exceed 8.0 pounds per hour or, if no odor nuisance exists, do not qualify as photochemically reactive material as defined in 35 IAC 211.4690.
3. For each open burning activity, the Permittee shall comply with 35 IAC Part 237, including the requirement to obtain a permit for open burning in accordance with 35 IAC 237.201, if necessary.

3.0 FACILITY-WIDE PERMIT REQUIREMENTS

(A). General Part 71 Recordkeeping [40 CFR §71.6(a)(3)(ii)]

1. The Permittee shall keep records of required monitoring information that include the following:
 - i. The date, place, and time of sampling or measurements;
 - ii. The date(s) analyses were performed;
 - iii. The company or entity that performed the analyses;
 - iv. The analytical techniques or methods used;
 - v. The results of such analyses; and
 - vi. The operating conditions existing at the time of sampling or measurement.
2. The Permittee shall retain records of all required monitoring data and support information for a period of at least 5 calendar years from the date of the monitoring sample, measurement, report, or application. Support information includes, but is not limited to, all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

(B). General Part 71 Reporting [40 CFR §71.6(a)(3)(iii)]

1. The Permittee shall submit to EPA semi-annual reports of all required monitoring each six month reporting period from January 1 to June 30 and from July 1 to December 31, except that the first reporting period shall begin on the effective date of this permit and end on December 31. All reports shall be submitted to the EPA and shall be postmarked by the 30th day following the end of the reporting period. All instances of

deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with Condition 4.0(H)(1) of this permit. [40 CFR §71.6(a)(3)(iii)(A)]

- i. A monitoring report under this section must include the following:
 - (a). The company name and address;
 - (b). The beginning and ending dates of the reporting period;
 - (c). The emissions unit or activity being monitored;
 - (d). The emissions limitation or standard, including operational requirements and limitations (such as parameter ranges), specified in the permit for which compliance is being monitored;
 - (e). All instances of deviations from permit requirements whether demonstrated by referenced test method, monitoring, or through any other credible evidence, including those attributable to upset conditions as defined in this permit, and the date on which each deviation occurred;
 - (f). The total time when monitoring required by this permit was not performed during the reporting period and, at the source's discretion, either the total duration of deviations indicated by such monitoring or the actual records of deviations;
 - (g). All other monitoring results, data, or analyses required to be reported by the applicable requirement;
 - (h). The name, title, and signature of the responsible official who is certifying

to the truth, accuracy, and completeness of the report.

- ii. Any report required by an applicable requirement that provides the same information described in Condition 3.0(B)(1)(i)(a) through (h) above shall satisfy the requirement under (B)(1).
 - iii. "Deviation," means any situation in which an emissions unit fails to meet a permit term or condition. A deviation is not always a violation. A deviation can be determined by observation or through review of data obtained from any testing, monitoring, or record keeping established in accordance with 40 CFR §71.6(a)(3)(i) and (a)(3)(ii). For a situation lasting more than 24 hours, each 24-hour period is considered a separate deviation. "Deviations" includes, but is not limited to, any of the following:
[40 CFR §71.6(a)(3)(iii)(C)]
 - (a). A situation when emissions exceed an emission limitation or standard;
 - (b). A situation where process or emissions control device parameter values indicate that an emission limitation or standard has not been met; and
 - (c). A situation in which observations or data collected demonstrates noncompliance with an emission limitation or standard or any work practice or operating condition required by the permit.
2. The Permittee shall promptly report to the EPA deviations from permit requirements, including those attributed to malfunction, emergency or other upset conditions, the probable cause of such deviations, and any corrective actions or preventive measures taken. "Prompt" is defined as follows: [40 CFR §71.6(a)(3)(iii)(B)]

- i. Any definition of "prompt" or specific timeframe for reporting deviations provided in an underlying applicable requirement (as identified in this permit); or
 - ii. Where the underlying applicable requirement does not define prompt or provide a timeframe for reporting deviations, reports of deviations will be submitted based on the following schedule:
 - (a). For emissions of a hazardous air pollutant or a toxic air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
 - (b). For emissions of any regulated pollutant excluding a hazardous air pollutant or a toxic air pollutant that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
 - (c). For all other deviations from permit requirements, the report shall be submitted with the semi-annual monitoring report required in paragraph (1) of this section.
2. If any of the conditions in Condition 3.0(B) (2) (ii) (a) through (c) above are met, the source must notify EPA by telephone or facsimile based on the timetable listed. A written notice, certified consistent with Condition 4.0(H) (1), must be submitted within 10 working days of the occurrence. All deviations reported under this section must also be identified in the 6-month report required under paragraph (1) of this section.

(C). Performance Testing [40 CFR §71.6(a) (3) (I)]

The Permittee shall provide performance testing facilities that include the following:

1. Sampling ports adequate for the applicable test methods;
2. Safe sampling platform(s);
3. Safe access to sampling platform(s); and
4. Utilities for sampling and testing equipment.

(D) Facility-wide Applicable Requirements

1. No person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity that is visible by an observer looking generally toward the zenith at a point beyond the property line of the emission source. [35 IAC 212.301]

2. Open Burning

(a) No person shall cause or allow open burning, except as provided in 35 IAC 237.

(b) No person shall cause or allow open burning of any refuse in any chamber or apparatus, unless such chamber or apparatus is designed for the purpose of disposing of the class of refuse being burned.

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

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

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

(b.) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.

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

5. Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the owner or operator shall submit the items below. This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

(a.) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or

(b.) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the RMP, as part of the annual compliance certification.

6. Episode Action Plans

Pursuant to 35 IAC 244 Subpart C, the Permittee shall maintain at the source and have on file with the Illinois EPA a written episode action plan (plan) for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The plan shall contain the information specified in 35 IAC 244.144 and is incorporated by reference into this permit.

7. 40 CFR Part 61 Subpart V "National Emission Standard for Equipment Leaks (Fugitive Emission Sources)".

8. 40 CFR Part 61 Subpart FF "National Emission Standard for Benzene Waste Operations".

9. 40 CFR Part 63 Subpart DD "National Emission Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations".

10. Annual benzene waste quantity determination [40 CFR 61.355]:

(A) An owner or operator shall determine the total annual benzene quantity from facility waste by the following procedure:

1. For each waste stream subject to 40 CFR Part 61 Subpart FF having a flow-weighted annual average water content greater than 10 percent water, on a volume basis as total water, or is mixed with water or other wastes at any time and the resulting mixture has an annual average water content greater than 10 percent as specified in 61.342(a), the owner or operator shall:

(a) Determine the annual waste quantity for each waste stream using the procedures specified in 61.355(b).

(b) Determine the flow-weighted annual average benzene concentration for each waste stream using the procedures specified in 61.355(c).

(c) Calculate the annual benzene quantity for each waste stream by multiplying the annual waste quantity of the waste stream times the flow-weighted annual average benzene concentration.

2. Total annual benzene quantity from facility waste is calculated by adding together the annual benzene quantity for each waste stream generated during the year and the annual benzene quantity for each process unit turnaround waste annualized according to 61.355 (b)(4).

3. If the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner or operator shall comply with the requirements of 61.342(c), (d), or (e).

11. Facility-wide testing

(A) Testing. [35 IAC 201.282] Every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:

(a) Testing by Owner or Operator. The Agency may require the owner or operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the Agency, at such reasonable times as may be specified by the Agency and at the expense of the owner or operator of the emission source or air pollution control equipment. The Agency may adopt procedures detailing methods of testing and formats for reporting results of testing. Such procedures and formats, and revisions thereto, shall not become effective until filed with the Index Division of the Office of the Secretary of State as Required by "An Act concerning administrative rules," approved June 14, 1951, as amended. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The Agency shall have the right to observe all aspects of such tests.

(b) Testing by the Agency. The Agency shall have the right to conduct such tests at any time at its own expense. Upon request of the Agency, the owner or operator of the emission source or air pollution control equipment shall provide, without charge to the Agency, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

(B) The determination of annual benzene waste quantity for the off-site wastes received by the source shall be made by using the methods and procedures established in 40 CFR 61.355 along with the following:

For the purposes of the calculation required by 61.355(a), an owner or operator shall determine the flow-weighted annual average benzene concentration in a manner that meets the requirements given in 61.355 (c) (1) using either of the methods given in 61.355 (c) (2) and (c) (3).

1. The determination for wastes that are received from offsite shall be made at the point where the waste enters the hazardous waste treatment, storage, or disposal facility.
2. *Knowledge of the waste.* The owner or operator shall provide sufficient information to document the flow-weighted annual average benzene concentration of each waste stream. Examples of information that could constitute knowledge include material balances, records of chemicals purchases, or previous test results provided the results are still relevant to the current waste stream conditions. If test data are used, then the owner or operator shall provide documentation describing the testing protocol and the means by which sampling variability and analytical variability were accounted for in the determination of the flow-weighted annual average benzene concentration for the waste stream. When an owner or operator and the Administrator do not agree on determinations of the flow-weighted annual average benzene concentration based on knowledge of the waste, the procedures under 61.355(c) (3) shall be used to resolve the disagreement.
3. Measurements of the benzene concentration in the waste stream in accordance with the following procedures:
 - (a) Collect a minimum of three representative samples from each waste stream. Where feasible, samples shall be taken from an enclosed pipe prior to the waste being exposed to the atmosphere.
 - (b) For waste in enclosed pipes, the following procedures shall be used:

- (i.) Samples shall be collected prior to the waste being exposed to the atmosphere in order to minimize the loss of benzene prior to sampling.
 - (ii.) A static mixer shall be installed in the process line or in a by-pass line unless the owner or operator demonstrates that installation of a static mixer in the line is not necessary to accurately determine the benzene concentration of the waste stream.
 - (iii.) The sampling tap shall be located within two pipe diameters of the static mixer outlet.
 - (iv.) Prior to the initiation of sampling, sample lines and cooling coil shall be purged with at least four volumes of waste.
 - (v.) After purging, the sample flow shall be directed to a sample container and the tip of the sampling tube shall be kept below the surface of the waste during sampling to minimize contact with the atmosphere.
 - (vi.) Samples shall be collected at a flow rate such that the cooling coil is able to maintain a waste temperature less than 10°C (50°F).
 - (vii.) After filling, the sample container shall be capped immediately (within 5 seconds) to leave a minimum headspace in the container.
 - (viii.) The sample containers shall immediately be cooled and maintained at a temperature below 10°C (50°F) for transfer to the laboratory.
- (c) When sampling from an enclosed pipe is not feasible, a minimum of three representative samples shall be collected in a manner to minimize exposure of the sample to the atmosphere and loss of benzene prior to sampling.

(d) Each waste sample shall be analyzed using one of the following test methods for determining the benzene concentration in a waste stream:

- (i.) Method 8020, Aromatic Volatile Organics, in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 61.18);
- (ii.) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 61.18);
- (iii.) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 61.18);
- (iv.) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846 (incorporation by reference as specified in 61.18);
- (v.) Method 602, Purgeable Aromatics, as described in 40 CFR part 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA methods; or
- (vi.) Method 624, Purgeables, as described in 40 CFR part 136, appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which this is an approved EPA method.

(e) The flow-weighted annual average benzene concentration shall be calculated by averaging the results of the sample analyses as follows:

$$\bar{C} = \frac{1}{Q_t} \times \sum_{i=1}^n (Q_i)(C_i)$$

Where:

- \bar{C} =Flow-weighted annual average benzene concentration for waste stream, ppmw.
 Q_t =Total annual waste quantity for waste stream, kg/yr (lb/yr).
 n =Number of waste samples (at least 3).
 Q_i =Annual waste quantity for waste stream represented by C_i , kg/yr (lb/yr).
 C_i =Measured concentration of benzene in waste sample i , ppmw.

12. Facility-wide Recordkeeping [40 CFR 71.6(a)(3)(B)]

(A) If testing is required by Condition 3.0(D)(7), the Permittee shall keep records of the testing, including the test date, conditions, methodologies, calculations, test results, and any discrepancies between the test results.

(B) Reporting requirements established by Subpart FF (40 CFR 61.357)

If the total annual benzene quantity from facility waste is equal to or greater than 10 Mg/yr (11 ton/yr), then the owner or operator shall submit to the Administrator the following reports:

1. The owner or operator shall submit annually to the Administrator a report that updates the information listed in paragraphs 40 CFR 61.357(a)(1) through (a)(3). If the information in the annual report required by paragraphs (a)(1) through (a)(3) of this section is not changed in the following year, the owner or operator may submit a statement to that effect.
2. The following information should be included in the annual report, as required by 40 CFR 61.357(a)(1) through (a)(iii):

(a.) Total annual benzene quantity from facility waste determined in accordance with §61.355(a).

(b.) A table identifying each waste stream and whether or not the waste stream will be controlled for benzene emissions in accordance with the requirements of Subpart FF.

(c.) For each waste stream identified as not being controlled for benzene emissions in accordance with the requirements of Subpart FF the following information shall be added to the table:

(i.) Whether or not the water content of the waste stream is greater than 10 percent;

(ii.) Whether or not the waste stream is a process wastewater stream, product tank drawdown, or landfill leachate;

(iii.) Annual waste quantity for the waste stream;

(d.) Range of benzene concentrations for the waste stream;

(e.) Annual average flow-weighted benzene concentration for the waste stream; and

(f.) Annual benzene quantity for the waste stream.

3. Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph 40 CFR 61.357(d)(1), the owner or operator shall submit quarterly to the Administrator a certification that all of the required inspections have been carried out in accordance with the requirements of Subpart FF.

4. Beginning 3 months after the date that the equipment necessary to comply with these standards has been certified in accordance with paragraph 40 CFR 61.357(d)(1), the owner or operator shall submit a report quarterly to the Administrator that includes:

- (a.) If a treatment process or wastewater treatment system unit is monitored in accordance with §61.354(a)(1) of this subpart, then each period of operation during which the concentration of benzene in the monitored waste stream exiting the unit is equal to or greater than 10 ppmw.
- (b.) If a treatment process or wastewater treatment system unit is monitored in accordance with §61.354(a)(2) of this subpart, then each 3-hour period of operation during which the average value of the monitored parameter is outside the range of acceptable values or during which the unit is not operating as designed.
- (c.) If a treatment process or wastewater treatment system unit is monitored in accordance with §61.354(b), then each period of operation during which the flow-weighted annual average concentration of benzene in the monitored waste stream entering the unit is equal to or greater than 10 ppmw and/or the total annual benzene quantity is equal to or greater than 1.0 mg/yr.
- (d.) For a control device monitored in accordance with §61.354(c) of this subpart, each period of operation monitored during which any of the conditions established by 40 CFR 61.357(d)(7)(iv) occur, as applicable to the control device.
5. For a cover and closed-vent system monitored in accordance with §61.354(g), the owner or operator shall submit a report quarterly to the Administrator that identifies any period in which the pressure in the waste management unit is equal to or greater than atmospheric pressure.
5. The permittee shall submit annually to the Administrator a report that summarizes all inspections required by 40 CFR 61.342 through 61.354 during which detectable emissions are measured or a problem (such as a broken seal, gap or other problem) that could result in benzene emissions is identified, including information about the repairs or corrective action taken.

4.0 PART 71 GENERAL REQUIREMENTS

(A). **Definitions** [40 CFR §71.2]

Terms and conditions have the meaning assigned to them in Part 71 unless other regulations or statutes are referenced.

(B). **Annual Fee Payment** [40 CFR §§71.6(a)(7) and 71.9]

1. The Permittee shall pay an annual permit fee in accordance with the procedures outlined below.
[40 CFR §71.9(a)]
2. The Permittee shall submit an annual report of its actual emissions for the preceding calendar year, a fee calculation work sheet (based on the report), and full payment of the annual fee each year. The Permittee shall submit the annual report and pay the annual permit fee each year on or before the anniversary date (3 months from the issuance of this permit) of its initial fee calculation work sheet.

The Permittee shall submit the annual report to:

**Air Enforcement and Compliance
Assurance Branch (AE-17J)
Air and Radiation Division
EPA Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604**

3. The fee payment shall be in United States currency and shall be paid by money order, bank draft, certified check, corporate check, or electronic funds transfer payable to the order of the U.S. Environmental Protection Agency.

4. The Permittee shall send fee payment and a completed fee filing form to:

**U. S. Environmental Protection Agency
P. O. Box 70753
Chicago, Illinois 60673**

5. The Permittee shall send an updated fee calculation worksheet form and a photocopy of each fee payment check (or other confirmation of actual fee paid) submitted annually by the same deadline as required for fee payment to the address listed in Condition 4.0(H)(2) of this permit. (The Permittee should note that an annual emissions report, required at the same time as the fee calculation worksheet by 40 CFR §71.9(h), has been incorporated into the fee calculation worksheet form as a convenience.)

6. Basis for calculating annual fee:

- i. The annual emissions fee shall be calculated by multiplying the total tons of actual emissions of all regulated pollutants (for fee calculation) emitted from the source, including fugitive emissions by the presumptive emissions fee (in dollars/ton) in effect at the time of calculation.

- (a). "Actual emissions" means the actual rate of emissions in tpy of any "regulated pollutant (for fee calculation)" emitted from a Part 71 source over the preceding calendar year. Actual emissions shall be calculated using each emissions unit's actual operating hours, production rates, in-place control equipment, and types of materials processed, stored, or combusted during the preceding calendar year. [40 CFR §71.9(c)(6)]

- (b). Actual emissions shall be computed using methods required by the permit for determining compliance, such as monitoring or source testing data. [40 CFR §71.9(h)(3)]

- (c). If actual emissions cannot be determined using the compliance methods in the permit, the Permittee shall use other federally recognized procedures. [40 CFR §71.9(e) (2)]
 - (d). The term "regulated pollutant (for fee calculation)" is defined in 40 CFR §71.2.
 - (e). Prior to the start of each calendar year, the EPA will revise for inflation and make available the presumptive fee amount.
 - ii. The Permittee shall exclude the following emissions from the calculation of fees:
 - (a). The amount of actual emissions of each regulated pollutant (for fee calculation) that the source emits in excess of 4,000 tons per year [40 CFR §71.9(c) (5) (I)];
 - (b). Actual emissions of any regulated pollutant (for fee calculation) already included in the fee calculation [40 CFR §71.9(c) (5) (ii)]; and
 - (c). The quantity of actual emissions (for fee calculation) of insignificant activities [defined in 40 CFR §71.5(c) (11) (i)] or of insignificant emissions levels from emissions units identified in the Permittee's application [pursuant to 40 CFR §71.5(c) (11) (ii)]. [40 CFR §71.9(c) (5) (iii)]
- 7. Fee calculation worksheets shall be certified as to truth, accuracy, and completeness by a responsible official in accordance with Condition 4.0(H) (1). (The Permittee should note that the fee calculation worksheet incorporates a section to help meet this responsibility.)

8. The Permittee shall retain fee calculation worksheets and other emissions-related data used to determine fee payment for 5 years following submittal of fee payment. Emission-related data include, for example, emissions-related forms provided by the EPA and used by the Permittee for fee calculation purposes, emissions-related spreadsheets, and emissions-related data, such as records of emissions monitoring data and related support information required to be kept in accordance with 40 CFR §71.6(a)(3)(ii). [40 CFR §71.9(I)]
9. Failure of the Permittee to pay fees in a timely manner shall subject the Permittee to assessment of penalties and interest in accordance with 40 CFR §71.9(1).
10. When notified by the EPA of underpayment of fees, the Permittee shall remit full payment within 30 days of receipt of notification. [40 CFR §71.9(j)(1) and (2)]
11. A Permittee who believes that the EPA assessed fee is in error and who wishes to challenge such fee shall provide a written explanation of the alleged error to the EPA along with full payment of the EPA assessed fee. [40 CFR §71.9(j)(3)]

(C). Compliance Statement [40 CFR §71.6(a)(6)]

1. The Permittee must comply with all conditions of this Part 71 permit. Any noncompliance with this permit constitutes a violation of the CAA and is grounds for: [40 CFR §71.6(a)(6)(I)]
 - i. Enforcement action;
 - ii. Permit termination, revocation and reissuance, or modification; or
 - iii. Denial of a permit renewal application.
2. It shall not be a defense for a Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the

conditions of this permit. [40 CFR
§71.6(a)(6)(ii)]

(D). **Compliance Certifications** [40 CFR §71.6(c)(5)]

1. The Permittee shall submit to EPA a certification of compliance with all permit terms and conditions, including emission limitations, standards, or work practices, each calendar year for the reporting period from January 1 to December 31, except the first reporting period shall begin on the effective date of this permit and end on December 31. All reports shall be submitted to the EPA and shall be postmarked by the 30th day following the end of the reporting period. The compliance certification shall be certified as to truth, accuracy, and completeness by a responsible official in accordance with Condition 4.0(H)(1) of this permit. The certification shall include the following:
 - i. Identification of each permit term or condition that is the basis of the certification;
 - ii. Identification of the method(s) or other means used for determining the compliance status of each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. If necessary, the Permittee also shall identify any other material information that must be included in the certification to comply with Section 113(c)(2) of the CAA, which prohibits knowingly making a false certification or omitting material information;
 - iii. The compliance status of each term and condition of the permit, including whether monitoring data is continuous and whether that data or any other credible evidence shows the compliance is continuous. The certification shall identify each deviation and take it into account in the compliance certification; and

- iv. A statement indicating the compliance status of the source with any applicable enhanced monitoring and compliance certification requirements of the CAA.

(E). Schedule of Compliance [40 CFR §71.6(c)(3) and §71.5(c)(8)(iii)]

1. For applicable requirements with which the source is in compliance, the source will continue to comply with such requirements.
2. For applicable requirements that will become effective during the permit term, the source shall meet such requirements on a timely basis.

(F) Duty to Provide and Supplement Information
[40 CFR §71.6(a)(6)(v) and §71.5(b)]

1. The Permittee shall furnish to the EPA, within a reasonable time, any information that the EPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the Permittee shall also furnish to EPA copies of records that are required to be kept pursuant to the terms of this permit, including information claimed to be confidential. Information claimed to be confidential should be accompanied by a claim of confidentiality according to the provisions of 40 CFR Part 2, Subpart B.
2. The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after this permit is issued.

(G) Enforceability [40 CFR §71.6(b)]

All terms and conditions in this permit, including any provisions designated to limit a source's potential to

emit, are enforceable by the EPA and citizens in accordance with the CAA.

(H) Submissions [40 CFR §§71.5(d), 71.6 and 71.9]

1. A responsible official of the Permittee shall certify as to the truth, accuracy, and completeness of any document required to be submitted by this permit. Such certifications shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Except as otherwise noted, the Permittee shall submit all documents required to be submitted by this permit to:

**Air Enforcement and Compliance
Assurance Branch (AE-17J)
Air and Radiation Division
EPA Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604**

2. The Permittee shall submit permit applications, applications for permit amendments, and other applicable permit information, which includes but is not limited to installation of control equipment, replacement of an emissions unit, fee calculation worksheets, and applications for renewals and permit modifications, to:

**Air Permits Section,
Air Programs Branch (AR-18J)
EPA Region 5
77 West Jackson Boulevard
Chicago, Illinois 60604**

(I) Severability Clause [40 CFR §71.6(a)(5)]

The provisions of this permit are severable, and in the event of any challenge to any portion of this permit, or if any portion is held invalid, the remaining permit conditions shall remain valid and in force.

(J) Permit Actions [40 CFR §71.6(a)(6)(iii)]

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the Permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(K) Administrative Permit Amendments

The Permittee may request the use of administrative permit amendment procedures for a permit revision in accordance with 40 CFR §71.7(d).

(L) Minor Permit Modifications

The Permittee may request the use of minor permit modification procedures for those modifications that meet the requirements contained in 40 CFR §71.7(e) (1).

(M) Significant Permit Modifications

The Permittee must request the use of significant permit modification procedures for those modifications that meet the requirements contained in 40 CFR §71.7(e) (3).

(N) Reopening for Cause [40 CFR §71.7(f)]

The EPA shall reopen and revise the permit prior to expiration under any of the following circumstances:

1. Additional applicable requirements under the CAA become applicable to this source if the remaining permit term is 3 or more years.
2. The EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
3. The EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

(O) Property Rights [40 CFR §71.6(a) (6) (iv)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

(P) Inspection and Entry [40 CFR §71.6(c)(2)]

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow EPA or an authorized representative to perform the following as authorized by the CAA:

1. Enter upon the Permittee's premises where a Part 71 source is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(Q) Emergency Provisions [40 CFR §71.6(g)]

1. In addition to any emergency or upset provision contained in any applicable requirement, the Permittee may seek to establish that noncompliance with a technology-based emission limitation under this permit was due to an emergency. To do so, the Permittee shall demonstrate the affirmative defense of emergency through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An emergency occurred and that the Permittee can identify the cause(s) of the emergency;
 - ii. The permitted facility was at the time being properly operated;

- iii. During the period of the emergency the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and
 - iv. The Permittee submitted notice of the emergency to EPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirements of Condition 3.0(B)(2) of this permit, concerning prompt notification of deviations.
 2. In any enforcement proceeding the Permittee attempting to establish the occurrence of an emergency has the burden of proof.
 3. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(R) Off Permit Changes [40 CFR §71.6(a)(12)]

1. The Permittee is allowed to make certain changes without a permit revision, provided that the following requirements are met:
 - i. Each change is not addressed or prohibited by this permit;
 - ii. Each change must comply with all applicable requirements and may not violate any existing permit term or condition;

- iii. Changes under this provision may not include changes subject to any requirement of 40 CFR Parts 72 through 78 or modifications under any provision of Title I of the CAA;
- iv. The Permittee must provide contemporaneous written notice to EPA of each change, except for changes that qualify as insignificant activities under 40 CFR §71.5(c)(11). The written notice must describe each change, the date of the change, any change in emissions, pollutants emitted, and any applicable requirements that would apply as a result of the change;
- v. The permit shield does not apply to changes made under this provision; and
- vi. The Permittee must keep a record describing all changes that result in emissions of any regulated air pollutant subject to any applicable requirement not otherwise regulated under this permit, and the emissions resulting from those changes.

(S) Permit Expiration and Renewal [40 CFR §§71.5(a)(1)(iii), 71.6(a)(11), 71.7(b), 71.7(c)(1)(i) and (ii), 71.8(d)]

1. This permit shall expire when five years elapses from the date of issuance.
2. Expiration of this permit terminates the Permittee's right to operate unless a timely and complete permit renewal application has been submitted at least six calendar months, but not more than eighteen calendar months, prior to the date of expiration of this permit.
3. If the Permittee submits a timely and complete permit application for renewal, consistent with 40 CFR §71.5(a)(2), but the permitting authority has failed to issue or deny the renewal permit, then the permit shall not expire until the renewal permit has been issued or denied and any permit shield granted pursuant to 40 CFR §71.6(f)

may be extended beyond the original permit term until renewal.

4. If the Permittee has submitted a timely and complete application for renewal, the Permittee's failure to have a Part 71 permit is not a violation of Part 71 until the EPA takes final action on the permit renewal application. This protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit any additional information identified as being needed to process the application by the deadline specified in writing by the EPA.
5. Renewal of this permit is subject to the same procedural requirements that apply to initial permit issuance, including those for public participation and affected State and tribal review.
6. The application for renewal shall include the current permit number, description of permit revisions and off-permit changes that occurred during the permit term, any applicable requirements that were promulgated and not incorporated into the permit during the permit term, and other information required by the application form.

(T) Operational Flexibility [40 CFR §71.6(a)(13)]

The Permittee may make changes within a permitted facility without a permit revision, including the addition of a new generator or replacement of an existing generator, provided the following conditions are met:

1. The changes are not modifications under any provision of title I of the CAA;
2. The changes do not exceed the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions); and

3. The Permittee notifies the EPA at least 7 days in advance of the proposed changes. The written notification shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(U) Permit Shield [40 CFR §71.6(f)]

1. Compliance with the conditions of this permit shall be deemed compliance with any specifically identified applicable requirements as of the date of permit issuance.
2. Nothing in this permit shall alter or affect the following:
 - i. The liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance;
 - ii. The ability of EPA to obtain information under Section 114 of the CAA; or
 - iii. The provisions of Section 303 of the CAA (emergency orders), including the authority of the Administrator under that section.

(V) Credible Evidence [62 FR 8314 (February 24, 1997)]

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