

**ALABAMA DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT PLAN FOR
THE CONTROL OF EMISSIONS AT EXISTING
MUNICIPAL WASTE COMBUSTOR PLANTS**

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Executive Summary

On December 19, 1995, the USEPA promulgated New Source Performance Standards (NSPS) for Municipal Waste Combustors (MWCs) and Emission Guidelines for Existing MWCs. The standards and guidelines established emission levels for MWC organics (dioxins/furans), MWC metals (cadmium, lead, mercury, particulate matter, and opacity), MWC acid gases (hydrogen chloride and sulfur dioxide), nitrogen oxides, and fugitive ash emissions. The Emission Guidelines (EG) implement §§111(d) and 129 of the Clean Air Act (the Act). The EG for existing MWCs were promulgated under Subpart Cb of 40 CFR 60. The EG require a State to submit a plan that will establish emission standards for existing sources when NSPS have been promulgated for a designated pollutant(s). The EG require the State to develop a plan to limit air emissions from each MWC unit located at a MWC plant that has an aggregate plant capacity to combust more than ~~35 Mg/day (38.6 Tons/day)~~ 250 tons/day of municipal solid waste, for which construction commenced on or before September 20, 1994. To fulfill the requirements, the State submitted a plan to EPA in September 1998, and it was approved on November 18, 1998 (63 FR 63988).

The plan addresses the only MWC facility presently located in Alabama, operated by the Huntsville Solid Waste Disposal Authority. The Huntsville Solid Waste Disposal Authority's MWC is located near Huntsville, Alabama, in Madison County. The facility is under the jurisdiction of the Department. The facility consists of two (2) 129.4 MMBTU/hr (345 Tons/Day) refuse boilers and four (4) gas-fired package boilers, each rated at 116.3 MMBTU/hr. The facility was granted Air Permits on October 6, 1987, for requirements applicable at that time. On October 10, 2003, the facility was granted a Major Source Operating Permit (MSOP) for the requirements applicable at that time. Only the refuse boilers are subject to this plan. The Department's plan incorporated the EG requirements into the Air Permit for the Huntsville facility.

On May 10, 2006 (71 FR 27324), the USEPA promulgated amendments to the air emissions standards for existing MWC units. The emission limits for dioxin, cadmium, lead, mercury, and particulate matter were revised. Also, compliance testing provisions have been revised. ~~The Department's plan is being proposed for revision to incorporate these amendments.~~ A new permit was issued, and the Department's plan was revised in April 2009 to include the permit.

The Huntsville Solid Waste Authority's MWCs permits were subject to renewal under Title V of the Clean Air Act. Changes to the Title V permit included incorporation of air permits associated with the addition of a liquid direct injection (LDI) system, removal of obsolete requirements associated with 40 CFR 60 Subpart Cb, incorporation of requirements for an emergency generator, incorporation of requirements relating to 40 CFR 63 Subpart DDDDD, and other revisions for clarification purposes. Revisions to the MWC State Plan are being proposed to incorporate the new permit into the State Plan.

CONTENTS OF STATE PLAN

Contents	Reference
Certification that a public hearing was held prior to adoption of the State Plan.	§60.23(f)(1)
A list of attendees at the hearing and their affiliation; summary of their presentation and handouts.	§60.23(f)(2)
Emission Standards and compliance schedules.	§60.24(a)
Test methods and procedures used for determining compliance with the emission standards.	§60.24(b)(2)
Legally enforceable increments of progress for facilities to achieve compliance.	§60.24(e)(1)
May provide that compliance schedules for individual facilities will be formulated after plan submittal, if certain procedures are followed.	§60.24(e)(2)
An inventory of all designated facilities, including emission data for the designated pollutants and information related to emissions.	§60.25(a)
Provide for monitoring a facility's compliance status as follows:	§60.25(b)
1. Legally enforceable procedures for requiring the maintenance of records and periodic reporting to the State for the determination of compliance, and	
2. Periodic inspections and testing	
Information obtained under 60.25(b) shall be correlated with applicable emission standards and made available to the public.	§60.25(c)
Show that the State has legal authority to carry out the plan.	§60.26

§60.23 Adoption and Submittal of State Plans; Public Hearings

The Department has the power to: "Prepare and develop a comprehensive plan or plans for the prevention, abatement and control of air pollution in this state". See §22-28-10(5), Code of Alabama 1975, as amended.

Per §60.23(d), a legal notice is placed in the four regional newspapers of the State which describes the notice of the date, time and location of a public hearing. The notice describes the locations in which the material for review is located as well as procedures for obtaining copies. The Department places copies of the material for viewing in its four offices located in Decatur, Birmingham, Montgomery, and Mobile. Notification and copies of supporting materials are sent to the Regional Administrator.

The public hearing gives interested parties an opportunity to comment on the agency's proposal; however, it is not necessary for persons to be present at the hearing. Written comments are accepted during the public comment period. Pursuant to §60.23(f), the State is submitting documentation to EPA certifying that proper notice and public participation procedures were followed (copy in Appendix A).

§60.24 Emission Standards and Compliance Schedules

The Department has adopted equivalent emission standards and compliance times to the federal Emission Guidelines [40 CFR 60, Subpart Cb] in the Air Permit (copy in Appendix B). The EG supercede §60.24(f); therefore, alternative emission standards or compliance times are not allowed. Any physical or operational changes made to the existing MWC units primarily for the purpose of complying with the EG are not considered in determining whether the units are modified or reconstructed under 40 CFR 60, Subparts Ea or Eb.

The test methods and procedures for determining compliance are specified in the final permit which reference the Methods found in Appendix A of 40 CFR Part 60.

Final compliance with the revisions of the EG is expected to occur by April 28, 2009, per the EG.

§60.25 Emission Inventories, Source Surveillance, Reports.

The emission rates should be correlated to the emission standards set forth in the guidelines. The inventory is outlined in the table below.

EMISSION INVENTORY FACILITY ID NO. 709-0104 §60.25(a)

	Existing Permitted Emissions Limits	New Emission Guidelines	Emission Limits for Revised Permit
pollutant	emission limit ²	emission limit ²	emission limit ²
PM	27.46 mg/dscm*	25 milligram/dscm	25 milligram/dscm
Hg	80.13 micrograms/dscm *	50 micrograms/ dscm or 85% reduction	50 micrograms/dscm or 85% reduction
Cd	41.19 micrograms/dscm *	35 micrograms/ dscm	35 micrograms/dscm
Pb	439.62 micrograms/dscm *	400 microgram/dscm	400 microgram/dscm
HCl	29 ppm _{dv} *	29 ppm _{dv} * or 95 percent reduction of hydrogen chloride emissions	29 ppm _{dv} * or 95 percent reduction of hydrogen chloride emissions
SO ₂	29 ppm _{dv} *	29 ppm _{dv} * or 75 percent reduction of sulfur dioxide emissions	29 ppm _{dv} * or 75 percent reduction of sulfur dioxide emissions
NO _x	205 ppm _{dv} *	205 ppm _{dv} *	205 ppm _{dv} *
Dioxin/Furan	30 nanograms/dscm *	30 nanograms/dscm *	30 nanograms/dscm *
CO	50 ppm _{dv} ¹	100 ppm _{dv} *	50 ppm _{dv} ¹

*emission limits provided in 40 CFR 60 subpart Cb promulgated on December 19, 1995

¹ BACT determination approved by the Department on August 7, 1987

² emission limits measured at 7% oxygen

Compliance status is generally accomplished by providing the following:

1. Legally enforceable procedures for requiring the maintenance of records and periodic reporting to the State for the determination of compliance; and
2. Periodic inspections, and when applicable, testing of designated facilities.

The EG contains provisions for testing, monitoring, reporting, and recordkeeping that fulfill these requirements. The State's Air Permit adopts these specifications from the EG thus fulfilling the requirements. State plans must include provisions that allow information obtained from testing, monitoring, reporting, and recordkeeping requirements of §60.25(b) to be made available to the general public. Any emission data must be correlated with applicable emission standards. ADEM Admin. Code R. 335-1-1-.06 (Availability of Records and Information) provides for the public inspection of the Department's records.

States are required under §60.25(e) and (f) to submit annual progress reports. These reports are to inform the Administrator of the progress in plan enforcement. The first report is due one year after plan approval or promulgation of a plan by EPA. The following is a list of the contents of these reports taken from §60.25(f):

1. Enforcement actions initiated against a facility during the reporting period;
2. Increments of progress;
3. Identification of facilities that have ceased operation;
4. Emission inventory data for facilities that were not in operation at the time of plan development;
5. Updated information or emission data on facilities; and
6. Copies of technical reports on all performance testing with concurrent process data.

§60.26 LEGAL AUTHORITY

The following is a discussion of the State's authority to carry out this plan. Copies of Alabama's statutes referenced are found in Appendix C.

Authority to adopt emission standards and compliance schedules applicable to designated facilities.

The Department is authorized to adopt emission requirements through regulation that are necessary to prevent, abate or control air pollution¹. See §22-28-11, Code of Alabama 1975, as amended. Section 22-28-14 specifically gives the Department the authority to adopt regulations that prescribe emissions standards. That same section generally grants the Department the authority to adopt compliance schedules to implement new or additional standards. Furthermore, §22-22A-5(10) states that the Department can issue orders citations, notices of violation, licenses, certifications or permits. Consequently, the Department may develop compliance schedules in orders or permits it is authorized to issue. Section 22-22A-5(20) states that the Department may perform any other duty that is necessary to implement and enforce the Environmental Management Act (§22-22A-1 et seq.) which incorporates the Alabama Air Pollution Control Act (§22-28-1 et seq.).

Authority to enforce applicable laws, regulations, standards, and compliance schedules, and seek injunctive relief.

Section 22-22A-5(12) states that the Department may “enforce all provisions” of the Environmental Management Act (including the Alabama Air Pollution Control Act),² including the ability to file legal actions in the name of the Department for that purpose. Furthermore, § 22-22A-5(18) grants the Department the authority to issue administrative orders or initiate legal actions that assess civil penalties for the violation of any rule, regulation or standard promulgated by the Department and for the violation of any order, permit, etc. that has been issued by the Department.

Section 22-22A-5(19) states that the Department may commence a civil action in state circuit court so as to enjoin threatened or continuing violations of the

¹ Air pollution is defined in § 22-28-2(1) as follows: “The presence in the outdoor atmosphere of one or more air contaminants in such quantities and duration as are, or tend to be, injurious to human health or welfare, animal or plant life or property or would interfere with the enjoyment of life or property throughout the state and in such territories of the state as shall be affected thereby.” An air contaminant is defined as “any solid, liquid or gaseous matter, and odor or any combination thereof, from whatever source.” See § 22-28-2(2).

Alabama Air Pollution Control Act or any rule, regulation or standard promulgated by the Department and any provision of any order, permit etc. issued by the Department.

Furthermore, § 22-28-22(a) states that any person who knowingly violates or fails or refuses to comply with the Alabama Air Pollution Control Act or any regulation adopted pursuant thereto or submits false information may be convicted for said violation and be subject to imprisonment or a monetary penalty.

Authority to obtain information necessary to determine whether designated facilities are in compliance with applicable laws, regulations, standards, and compliance schedules, including authority to require recordkeeping and to make inspections and conduct tests of designated facilities.

Section 22-28-18 states that the Department may require owners and operators of air contaminant sources to maintain records and make reports to the Department as it prescribes. See also ADEM Admin. Code R. 335-3-1-.04. Section 22-28-19(b) and ADEM Admin. Code R. 335-3-1-.05 also authorize the Department to conduct tests and take samples of air contaminants, etc. from any source.² Section 22-28-19(a) states that the Department's inspectors are authorized to enter and inspect any property or premises on, or at, which an air contaminant source is located or being constructed, installed or established at any reasonable time for the purpose of ascertaining the state of compliance with the Alabama Air Pollution Control Act and the regulations adopted pursuant to that Act.

Authority to require owners or operators of designated facilities to install, maintain, and use emission monitoring devices and to make periodic reports to the State on the nature and amounts of emissions from such facilities; also authority for the State to make such data available to the public as reported and as correlated with applicable emissions standards.

² Source is defined in ADEM Admin. Code R. 335-3-1-.02(qqq) as follows: "[A]ny building, structure, facility, installation, article, machine, equipment, device, or other contrivance which emits or may emit any air contaminant. Any activity which utilizes abrasives or chemicals for cleaning or any other purpose (such as cleaning the exterior or buildings) which emits air contaminants shall be considered a source."

The Department is authorized, pursuant to § 22-28-18, to require owners and operators of air contaminant sources to install, use and maintain monitoring equipment as it may prescribe. Furthermore, as stated above, § 22-28-18 gives the Department the authority to require owners and operators of air contaminant sources to maintain records and make reports to the Department as it prescribes. Again, see also ADEM Admin. Code R. 335-3-1-.04.

Section 22-28-20 states that all records, reports or information obtained pursuant to the Alabama Air Pollution Control Act must be available to the public. The only exception to this requirement is if the information in the Department's possession would divulge production or sales figures or methods, processes or productions unique to the particular entity about which the information is requested or would tend to affect adversely the competitive position of the entity by revealing trade secrets. In those instances, the information can be considered confidential by the Department. However, emission data is not subject to the exception and the exception does not apply to federal state or local representatives that request the information for the purpose of administering federal, state or local air pollution control laws.

FEE SCHEDULE FOR AIR POLLUTION CONTROL PROGRAM (DIVISION 3) PERMITSApplicant: Solid Waste Disposal Authority of the City of HuntsvilleCounty #: 89
ADEM #/Master ID #: 6192Location Address: 5251 Triana Boulevard Huntsville, Alabama 35805Facility/Permit #: 709-I104Date Application Received: 3/27/2020

Type of Activity Associated with Permit Application	Fee per Unit	No. of Units	Total
Permit Preparation (Per Permit)	\$ 1,465		\$ -
State Regulations Only (Per Permit)	\$ 575		\$ -
Public Comment Period (Per Application)	\$ 740		\$ -
NSPS Review (Per Permit/Per NSPS)	\$ 2,795		\$ -
NESHAPS Review (Per Permit/Per NESHAP)	\$ 2,795		\$ -
112(g) Determination (Per Pollutant/Per Determination)	\$ 940		\$ -
PSD Review (Per Application)	\$ 2,410		\$ -
BACT Determination (Per Pollutant)	\$ 940		\$ -
Non- Attainment Review Submittal Fee (Per Application)	\$ 2,410		\$ -
LAER Determination (Per Permit Per Pollutant/Per Determination)	\$ 940		\$ -
Plantwide Applicability Limits (PAL) Review (Per Pollutant)	\$ 11,830		\$ -
Non-Criteria Air Pollutant Review (Per Pollutant)	\$ 1,895		\$ -
Modeling Review	\$ -		
Modeling Protocol Review	\$ 2,575		\$ -
Modeling Review	\$ 19,060		\$ -
Class 1 Modeling Review	\$ 2,575		\$ -
Emissions Inventory Preparation	\$ 1,460		\$ -
+ \$150 per point/pollutant	\$ 150		\$ -
Meteorological Data on Tape	\$ 1,085		\$ -
Adequacy Determination of Preconstruction Monitoring Network/Data	\$ 7,435		\$ -
Soil Remediation Plan Review	\$ 650		\$ -
Certification and Recertification of Asbestos Removal Contractors	\$ 740		\$ -
Name/Ownership Change	\$ 800		\$ -
+ \$150 per additional permit	\$ 150		\$ -
Greenfield Site Fee	\$ 1,610		\$ -
Public Hearing	\$ 8,450		\$ -

Total Fee Due: No Fee - Title V Renewal \$ -

Date and Amount Submitted with Application: 3/27/2020 \$ -

Amount to be Billed: \$ -

Date and Amount Received: MUR 7/10/23 \$ -Amount to be Refunded: 0 \$ -Prepared By: Will BaconReviewed By: [Signature]**RECEIVED****JUL 10 2023****ADEM
EDDS**

Fee Effective Date: 02-04-2016

RECEIVED
JUL 11 2023
ADEM
AIR DIVISION

PERMIT APPLICATION SUMMARY FORM

General Facility Information

Facility name: Solid Waste Disposal Authority of the City of Huntsville AFS(9-digit) Plant ID: 01-089-8104
Facility address: Huntsville, Alabama Date application received: 03/27/2020
Source description: Municipal Solid Waste Combustor Application number:
SIC code of major product: 4953 Permit number(s): 709-I104

Application Type/Permit Activity

- ☐ Initial issuance ☐ General permit
☐ Permit modification ☐ Conditional major
☒ Permit renewal

Facility Emissions Summary

Pollutant	Potential Emissions (tpy)
PM	142
SO ₂	528
NO _x	877
CO	181
VOC	25.20
Lead	0.609
Mercury	0.091
HCl	64.90
Sulfuric Acid Mist	15.90
Dioxins/Furans	2.21 x 10 ⁻⁵
Arsenic	0.0003
Cadmium	0.0258
Chromium	0.0019
Nickel	0.0032
Beryllium	0.0033

Compliance Summary

- ☐ Source is out of compliance ☐ Compliance schedule included
☒ Compliance certification signed

Applicable Requirements list

- ☐ NSR ☒ NSPS ☒ SIP
☒ PSD ☒ NESHAPS/MACT ☐ Other

Miscellaneous

- ☐ Acid rain source
☐ Source subject to 112(r)
☐ Source requested synthetic PTE limit to avoid major source requirement (e.g., PSD, MACT)
☐ Source subject to case-by-case 112(g) or (j) determination
☐ Source applied for federally enforceable emissions cap
☐ Source applied for a plant-wide applicability limit (PAL)
☐ Source provided terms for alternative operating scenarios
☐ Source requested terms for operational flexibility
☐ Source requested streamlining of multiple applicable requirements
☐ Source requested monitoring plan to establish periodic monitoring
☐ Application proposes new control technology
☒ Certified by responsible official
☐ Diagrams or drawings included
☐ Confidential business information (CBI) included



Alabama Department of Environmental Management
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(334) 271-7700 ■ FAX (334) 271-7950

July 5, 2023

Mr. Thomas Turner
Facility Manager
Covanta Huntsville, Inc.
5251 Triana Blvd
Huntsville, AL 35805

**Re: Facility No. 709-I104
Title V Permit Renewal**

Dear Mr. Turner:

The enclosed renewal for Major Source Operating Permit (MSOP) – Title V Permit 709-I104 is issued pursuant to the Department's air pollution control rules and regulations. The permit conditions in the previously issued Major Source Operating Permit have not been changed under this renewal Title V Permit. Especially, note the conditions that must be observed in order to remain in compliance.

A Major Source Operating Permit for this type of facility has a term of twelve (12) years, as allowed in ADEM Admin. Code r. 335-3-16-.05(b)(2). The permit will be reviewed every five (5) years during this period beginning in July of 2028. A renewal application should be submitted to the Department at least six (6) months prior to its expiration date. Please note that the expiration date is July 4, 2035.

If you have any questions or require clarification of permit conditions, please contact Mr. Will Bacon at (334) 271-7908.

Sincerely,

A handwritten signature in dark ink, appearing to be "RWG", written over a light blue horizontal line.

Ronald W. Gore, Chief
Air Division

RWG/WAB: haw

Enclosures





MAJOR SOURCE OPERATING PERMIT

PERMITTEE: SOLID WASTE DISPOSAL AUTHORITY OF THE CITY
OF HUNTSVILLE

FACILITY NAME: HUNTSVILLE SOLID WASTE TO ENERGY FACILITY

FACILITY/PERMIT NO.: 709-I104

LOCATION: HUNTSVILLE, MADISON COUNTY, ALABAMA

In accordance with and subject to the provisions of the Alabama Air Pollution Control Act of 1971, Ala. Code §§ 22-28-1 to 22-28-23, as amended, the Alabama Environmental Management Act, Ala. Code §§ 22-22A-1 to 22-22A-17, as amended, and rules and regulations adopted there under, and subject further to the conditions set forth in this permit, the Permittee is hereby authorized to construct, install and use the equipment, device or other article described above.

*Pursuant to the **Clean Air Act of 1990**, all conditions of this permit are federally enforceable by EPA, the Alabama Department of Environmental Management, and citizens in general. Those provisions which are not required under the **Clean Air Act of 1990** are considered to be state permit provisions and are not federally enforceable by EPA and citizens in general. Those provisions are contained in separate sections of this permit.*

Issuance Date: July 5, 2023

Effective Date: July 5, 2023

Expiration Date: July 4, 2035

Alabama Department of Environmental Management

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General Permit Provisos

Federally Enforceable Provisos	Regulations
<p>1. <u>Transfer</u></p> <p>This permit is not transferable, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another, except as provided in Rule 335-3-16-.13(1)(a)5.</p>	<p>Rule 335-3-16-.02(6)</p>
<p>2. <u>Renewals</u></p> <p>An application for permit renewal shall be submitted at least six (6) months, but not more than eighteen (18) months, before the date of expiration of this permit.</p> <p>The source for which this permit is issued shall lose its right to operate upon the expiration of this permit unless a timely and complete renewal application has been submitted within the time constraints listed in the previous paragraph.</p>	<p>Rule 335-3-16-.12(2)</p>
<p>3. <u>Severability Clause</u></p> <p>The provisions of this permit are declared to be severable and if any section, paragraph, subparagraph, subdivision, clause, or phrase of this permit shall be adjudged to be invalid or unconstitutional by any court of competent jurisdiction, the judgment shall not affect, impair, or invalidate the remainder of this permit, but shall be confined in its operation to the section, paragraph, subparagraph, subdivision, clause, or phrase of this permit that shall be directly involved in the controversy in which such judgment shall have been rendered.</p>	<p>Rule 335-3-16-.05(e)</p>
<p>4. <u>Compliance</u></p> <p>(a) The permittee shall comply with all conditions of ADEM Admin. Code 335-3. Noncompliance with this permit will constitute a violation of the Clean Air Act of 1990 and ADEM Admin. Code 335-3 and may result in an enforcement action; including but not limited to, permit termination, revocation and reissuance, or modification; or denial of a permit renewal application by the permittee.</p> <p>(b) The permittee shall not use as a defense in an enforcement action that maintaining compliance with conditions of this permit would have required halting or reducing the permitted activity.</p>	<p>Rule 335-3-16-.05(f)</p> <p>Rule 335-3-16-.05(g)</p>
<p>5. <u>Termination for Cause</u></p>	

Federally Enforceable Provisos	Regulations
<p>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 will not stay any permit condition.</p>	Rule 335-3-16-.05(h)
<p>6. <u>Property Rights</u></p> <p>The issuance of this permit does not convey any property rights of any sort, or any exclusive privilege.</p>	Rule 335-3-16-.05(i)
<p>7. <u>Submission of Information</u></p>	
<p>The permittee must submit to the Department, within 30 days or for such other reasonable time as the Department may set, any information that the Department 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 receiving a specific request, the permittee shall also furnish to the Department copies of records required to be kept by this permit.</p>	Rule 335-3-16-.05(j)
<p>8. <u>Economic Incentives, Marketable Permits, and Emissions Trading</u></p> <p>No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.</p>	Rule 335-3-16-.05(k)
<p>9. <u>Certification of Truth, Accuracy, and Completeness:</u></p> <p>Any application form, report, test data, monitoring data, or compliance certification submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.</p>	Rule 335-3-16-.07(a)
<p>10. <u>Inspection and Entry</u></p> <p>Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of the Alabama Department of Environmental Management and EPA to conduct the following:</p> <ul style="list-style-type: none"> (a) Enter upon the permittee's premises where a source is located or emissions-related activity is conducted, or where records must be kept pursuant to the conditions of this permit; (b) Review and/or copy, at reasonable times, any records that must be kept pursuant to the conditions of this permit; 	Rule 335-3-16-.07(b)

Federally Enforceable Provisos	Regulations
<ul style="list-style-type: none"> (c) Inspect, at reasonable times, this facility's equipment (including monitoring equipment and air pollution control equipment), practices, or operations regulated or required pursuant to this permit; (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or other applicable requirements. 	
<p>11. <u>Compliance Provisions</u></p>	
<ul style="list-style-type: none"> (a) The permittee shall continue to comply with the applicable requirements with which the company has certified that it is already in compliance. (b) The permittee shall comply in a timely manner with applicable requirements that become effective during the term of this permit. 	<p>Rule 335-3-16-.07(c)</p>
<p>12. <u>Compliance Certification</u></p>	
<p>A compliance certification shall be submitted annually by December 9th.</p>	<p>Rule 335-3-16-.07(e)</p>
<ul style="list-style-type: none"> (a) The compliance certification shall include the following: <ul style="list-style-type: none"> (1) The identification of each term or condition of this permit that is the basis of the certification; (2) The compliance status; (3) The method(s) or other means used for determining the compliance status of the source, currently and over the reporting period consistent with Rule 335-3-16-.05(c) (Monitoring and Recording Keeping Requirements); (4) Whether compliance has been continuous or intermittent; (5) Such other facts as the Department may require to determine the compliance status of the source; (b) The compliance certification shall be submitted to: <p style="margin-left: 40px;">Alabama Department of Environmental Management Air Division P.O. Box 301463 Montgomery, AL 36130-1463</p> <p style="margin-left: 80px;">and to:</p> <p style="margin-left: 40px;">EPA through the Compliance and Emissions Data Reporting Interface (CEDRI) located on EPA's Central Data Exchange (CDX)</p> 	
<p>13. <u>Reopening for Cause</u></p>	

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<p>Under any of the following circumstances, this permit will be reopened prior to the expiration of the permit:</p> <p>(a) Additional applicable requirements under the Clean Air Act of 1990 become applicable to the permittee with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire.</p>	<p>Rule 335-3-16-.13(5)</p>
<p>(b) Additional requirements (including excess emissions requirements) become applicable to an affected source under the acid rain program. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into this permit.</p> <p>(c) The Department or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.</p> <p>(d) The Administrator or the Department determines that this permit must be revised or revoked to assure compliance with the applicable requirements.</p>	
<p>14. <u>Additional Rules and Regulations</u></p> <p>This permit is issued on the basis of Rules and Regulations existing on the date of issuance. In the event additional Rules and Regulations are adopted, it shall be the permit holder's responsibility to comply with such rules.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>15. <u>Equipment Maintenance or Breakdown</u></p> <p>(a) In case of shutdown of air pollution control equipment (which operates pursuant to any permit issued by the Director) for necessary scheduled maintenance, the intent to shut down shall be reported to the Department at least twenty-four (24) hours prior to the planned shutdown, unless such shutdown is accompanied by the shutdown of the source which such equipment is intended to control. Such prior notice shall include, but is not limited to the following:</p> <p>(1) Identification of the specific facility to be taken out of service as well as its location and permit number;</p> <p>(2) The expected length of time that the air pollution control equipment will be out of service;</p>	<p>Rule 335-3-1-.07(1), (2)</p>

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<ul style="list-style-type: none"> (3) The nature and quantity of emissions of air contaminants likely to occur during the shutdown period; (4) Measures such as the use of off-shift labor and equipment that will be taken to minimize the length of the shutdown period; (5) The reasons that it would be impossible or impractical to shut down the source operation during the maintenance period. (b) In the event that there is a breakdown of equipment or upset of process in such a manner as to cause, or is expected to cause, increased emissions of air contaminants which are above an applicable standard, the person responsible for such equipment shall notify the Director within 24 hours or the next working day and provide a statement giving all pertinent facts, including the estimated duration of the breakdown. The Director will be notified when the breakdown has been corrected. 	
<p>16. <u>Operation of Capture and Control Devices</u></p> <p>All air pollution control devices and capture systems for which this permit is issued shall be maintained and operated at all times in a manner so as to minimize the emissions of air contaminants. Procedures for ensuring that the above equipment is properly operated and maintained so as to minimize the emission of air contaminants shall be established.</p>	<p>§22-28-16(d), Code of Alabama 1975, as amended</p>
<p>17. <u>Obnoxious Odors</u></p> <p>This permit is issued with the condition that, should obnoxious odors arising from the plant operations be verified by Air Division inspectors, measures to abate the odorous emissions shall be taken upon a determination by the Alabama Department of Environmental Management that these measures are technically and economically feasible.</p>	<p>Rule 335-3-1-.08</p>
<p>18. <u>Fugitive Dust</u></p> <ul style="list-style-type: none"> (a) Precautions shall be taken to prevent fugitive dust emanating from plant roads, grounds, stockpiles, screens, dryers, hoppers, ductwork, etc. (b) Plant or haul roads and grounds will be maintained in the following manner so that dust will not become airborne: <ul style="list-style-type: none"> (1) By the application of water any time the surface of the road is sufficiently dry to allow the creation of dust emissions by the act of wind or vehicular traffic; or 	<p>Rule 335-3-4-.02</p>

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<ul style="list-style-type: none"> (2) By reducing the speed of vehicular traffic to a point below that at which dust emissions are created; or (3) By paving; or (4) By the application of binders to the road surface at any time the road surface is found to allow the creation of dust emissions; or (5) By any combination of the above methods which results in the prevention of dust becoming airborne from the road surface. 	
19. <u>Additions and Revisions</u>	
<p>Any modifications to this source shall comply with the modification procedures in Rules 335-3-16-.13 or 335-3-16-.14.</p>	<p>Rule 335-3-16-.13 and .14</p>
20. <u>Recordkeeping Requirements</u>	
<ul style="list-style-type: none"> (a) Records of required monitoring information of the source shall include the following: <ul style="list-style-type: none"> (1) The date, place, and time of all sampling or measurements; (2) The date analyses were performed; (3) The company or entity that performed the analyses; (4) The analytical techniques or methods used; (5) The results of all analyses; and (6) The operating conditions that existed at the time of sampling or measurement. (b) Retention of records of all required monitoring data and support information of the source for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by the permit 	<p>335-3-16-.05(c)2.</p>
21. <u>Reporting Requirements</u>	
<ul style="list-style-type: none"> (a) Reports to the Department of any required monitoring shall be submitted at least every 6 months by February 1st, and August 1st of each year. All instances of deviations from permit requirements must be clearly identified in said reports. All required reports must be certified by a responsible official consistent with Rule 335-3-16-.04(9). 	<p>Rule 335-3-16-.05(c)(3)</p>

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<p>Submission of other reports regarding monitoring records, fuel analyses, operating rates, and equipment malfunctions may be required as authorized in the Department's air pollution control rules and regulations. The Department may require emission testing at any time.</p>	<p>Rule 335-3-1-.04(1)</p>
<p>25. <u>Title VI Requirements (Refrigerants)</u></p> <p>Any facility having appliances or refrigeration equipment, including air conditioning equipment, which use Class I or Class II ozone-depleting substances as listed in 40 CFR Part 82, Subpart A, Appendices A and B, shall service, repair, and maintain such equipment according to the work practices, personnel certification requirements, and certified recycling and recovery equipment specified in 40 CFR Part 82, Subpart F.</p> <p>No person shall knowingly vent or otherwise release any Class I or Class II substance into the environment during the repair, servicing, maintenance, or disposal of any device except as provided in 40 CFR Part 82, Subpart F.</p> <p>The responsible official shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the US EPA and the Department as required.</p>	<p>335-3-16-.05(a)</p>
<p>26. <u>Chemical Accidental Prevention Provisions</u></p> <p>If a chemical listed in Table 1 of 40 CFR Part 68.130 is present in a process in quantities greater than the threshold quantity listed in Table 1, then:</p> <p>(a) The owner or operator shall comply with the provisions in 40 CFR Part 68.</p> <p>(b) The owner or operator shall submit one of the following:</p> <p>(1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR Part 68 § 68.10(a) or,</p> <p>(2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan.</p>	<p>40 CFR Part 68</p>
<p>27. <u>Display of Permit</u></p> <p>This permit shall be kept under file or on display at all times at the site where the facility for which the permit is issued is located and will make the permit readily available for inspection by any or all persons who may request to see it.</p>	<p>Rule 335-3-14-.01(1)(d)</p>

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<p>28. <u>Circumvention</u></p> <p>No person shall cause or permit the installation or use of any device or any means which, without resulting in the reduction in the total amount of air contaminant emitted, conceals or dilutes any emission of air contaminant which would otherwise violate the Division 3 rules and regulations.</p>	<p>Rule 335-3-1-.10</p>
<p>29. <u>Visible Emissions</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, any source of particulate emissions shall not discharge more than one 6-minute average opacity greater than 20% in any 60-minute period. At no time shall any source discharge a 6-minute average opacity of particulate emissions greater than 40%. Opacity will be determined by 40 CFR Part 60, Appendix A, Method 9, unless otherwise specified in the Unit Specific provisos of this permit.</p>	<p>Rule 335-3-4-.01(1)</p>
<p>30. <u>Fuel-Burning Equipment</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.03.</p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no fuel-burning equipment may discharge sulfur dioxide emissions in excess of the emissions specified in Part 335-3-5-.01.</p>	<p>Rule 335-3-4-.03</p> <p>Rule 335-3-5-.01</p>
<p>31. <u>Process Industries – General</u></p> <p>Unless otherwise specified in the Unit Specific provisos of this permit, no process may discharge particulate emissions in excess of the emissions specified in Part 335-3-4-.04.</p>	<p>Rule 335-3-4-.04</p>
<p>32. <u>Averaging Time for Emission Limits</u></p> <p>Unless otherwise specified in the permit, the averaging time for the emission limits listed in this permit shall be the nominal time required by the specific test method.</p>	<p>Rule 335-3-1-.05</p>
<p>33. <u>Permit Shield</u></p> <p>A permit shield exists under this operating permit in accordance with ADEM Administrative Code R. 335-3-16-.10 in that compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance. The permit shield is based on the accuracy of the information supplied in Section 11 of the application for this permit. Under this shield, it has been determined that requirements listed as non-applicable in such section are not applicable to this source.</p>	<p>Rule 335-3-16-.10</p>
<p>34. <u>Compliance Assurance Monitoring (CAM)</u></p> <p>Conditions (a) through (d) that follow are general conditions applicable to emissions units that are subject to the CAM requirements. Specific requirements related to each emissions</p>	

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unit are contained in the unit specific provisos and the attached CAM appendices.	
(a) Operation of Approved Monitoring	40 CFR 64.7
(1) <i>Commencement of operation.</i> The owner or operator shall conduct the monitoring required under this section and detailed in the unit specific provisos and CAM appendix of this permit (if required) upon issuance of the permit, or by such later date specified in the permit pursuant to §64.6(d).	
(2) <i>Proper maintenance.</i> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.	
(3) <i>Continued operation.</i> Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.	
(4) <i>Response to excursions or exceedances.</i> (a) Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range,	

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designated condition, or below the applicable emission limitation or standard, as applicable.

(b) Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

- (5) *Documentation of need for improved monitoring.* After approval of monitoring under this part, if the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the Department and, if necessary, submit a proposed modification to the permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

(b) Quality Improvement Plan (QIP) Requirements

40 CFR 64.8

- (1) Based on the results of a determination made under Section 33(a)(4)(b) above, the Administrator or the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with 40 CFR §64.6(c)(3), the permit may specify an appropriate threshold, such as an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, for requiring the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.
- (2) Elements of a QIP:
- (a) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
 - (b) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for

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conducting one or more of the following actions, as appropriate:

- (i) Improved preventive maintenance practices.
- (ii) Process operation changes.
- (iii) Appropriate improvements to control methods.
- (iv) Other steps appropriate to correct control performance.
- (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (2)(b)(i) through (iv) above).

(3) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(4) Following implementation of a QIP, upon any subsequent determination pursuant to Section 33(a)(4)(b) above, the Department may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:

- (a) Failed to address the cause of the control device performance problems; or
- (b) Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

(5) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

(c) Reporting and Recordkeeping Requirements

40 CFR 64.9

(1) *General reporting requirements*

- (a) On and after the date specified in Section 34(a)(1) above by which the owner or operator must use monitoring that meets the requirements of this part, the owner or operator shall submit monitoring reports to the permitting authority in accordance with ADEM Admin. Code R. 335-3-16-.05(c)3.
- (b) A report for monitoring under this part shall include, at a minimum, the information required under ADEM Admin. Code R. 335-3-16-.05(c)3. and the following information, as applicable:

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- (i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
- (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
- (iii) A description of the actions taken to implement a QIP ~~during the reporting period as specified in Section 33(b) above.~~ Upon completion of a QIP, the owner or operator shall include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

(2) *General recordkeeping requirements.*

- (a) The owner or operator shall comply with the recordkeeping requirements specified in ADEM Admin. Code R. 335-3-16-.05(c)2.. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to Section 33(b) above and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).

Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

(d) Savings Provisions

(1) Nothing in this part shall:

- (a) Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this part shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the

40 CFR 64.10

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<p>monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.</p> <p>(b) Restrict or abrogate the authority of the Department to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.</p> <p>(c) Restrict or abrogate the authority of the Department to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.</p>	

Operating Permit Summary No. 1 (129.4 MMBtu/hr Refuse Fired Boiler #1)

Emission Unit(s): 001
Description: 129.4 MMBtu/hr Municipal Solid Waste Combustion Unit
Operating Schedule: 8760 hours/year

This unit is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60, Subpart Cb

Pollutants Emitted:

Emission Point #	Point Description	Pollutant	Emission Limit(s)	Standard(s)
001	Boiler Stack	PM	25 milligrams per dry standard cubic meter @ 7% O ₂ , not to exceed 4.5 lb/hr	Rule 335-3-14-.04
				40 CFR 60.33b(a)(1)(i)
		SO ₂	29 ppmdv @ 7% O ₂ (dry basis) or 75% DRE (by weight or volume) @ 7% O ₂ , whichever is less stringent (determined by a 24-hour daily geometric average), not to exceed 16.65 lb/hr (determined by a 24-hour rolling average)	Rule 335-3-14-.04
				40 CFR 60.33b(b)(3)(i)
		NO _x	205 ppmdv @ 7% O ₂ (determined by a 24-hour daily arithmetic average), not to exceed 59.2 lb/hr (determined by a 30-day rolling average generated by a continuous emission monitor which meets the specifications in 40 CFR Part 60, Appendix B)	Rule 335-3-14-.04
				40 CFR 60.33b(d)
		CO	50 ppmdv @ 7% O ₂ (determined by a 4-hour rolling average) not to exceed 7.6 lb/hr, except as provided for periods of startup and shutdown	Rule 335-3-14-.04
				40 CFR 60.34b(a)
		Mercury	50 micrograms per dry standard cubic meter @ 7% O ₂ or 85% DRE (by weight) @ 7% O ₂ , whichever is less stringent	Rule 335-3-14-.04
				40 CFR 60.33b(a)(3)
		Beryllium	7.53 x 10 ⁻⁴ lb/hr	Rule 335-3-14-.04
		Hydrogen Chloride	29 ppmdv @ 7% O ₂ or 95% DRE (by weight or volume) @ 7% O ₂ , whichever is less stringent	Rule 335-3-14-.04
				40 CFR 60.33b(b)(3)(ii)

		Visible Emissions	< 5% opacity when medical waste is charged to the unit (includes the 1-hour period after discontinuing charging of medical waste). At all other times, visible emissions shall not exceed 10% opacity (determined by a 6-minute average).	Rule 335-3-14-.04
				40 CFR 60.33b(a)(1)(iii)
		Cadmium	35 micrograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(a)(2)(i)
		Lead	400 micrograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(a)(4)
		Dioxins/ Furans	30 nanograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(c)(1)(iii)
		Fugitive Ash	Visible emissions of combustion ash from the ash handling system shall not exceed 5% of observation time (9 minutes per 3 hours).	Rule 335-3-14-.04
				40 CFR 60.36b

129.4 MMBtu/hr Refuse Fired Boiler #1

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<p>Section 1 – Applicability</p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, “Major Source Operating Permits.” 2. This source is subject to Prevention of Significant Deterioration (PSD) emission limitations for particulate matter (PM), sulfur dioxide (SO₂), nitrogen oxide (NO_x), carbon monoxide (CO), mercury, and beryllium. 	<p>ADEM Admin. Code r. 335-3-16</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<ol style="list-style-type: none"> 3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Cb. 4. This source is subject to 40 CFR Part 60, Subpart Cb – Emission Guidelines and Compliance Times for Large Municipal Waste Combustors That Are Constructed on or Before September 20, 1994. 5. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 61, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart E. 6. This source is subject to 40 CFR Part 61, Subpart E – National Emission Standard for Mercury – when burning wastewater treatment plant sludge. 	<p>ADEM Admin. Code r. 335-3-10-.02(1)</p> <p>ADEM Admin. Code r. 335-3-16</p> <p>ADEM Admin. Code r. 335-3-11-.02(1)</p> <p>ADEM Admin. Code r. 335-3-11-.02(4)</p>
<p>Section 2 - Emission Standards</p> <ol style="list-style-type: none"> 1. The particulate matter (PM) emissions from this source shall be limited to 25 milligrams per dry standard cubic meter, corrected to 7% O₂, not to exceed 4.5 lb/hr. 2. The sulfur dioxide (SO₂) emissions from this source shall be limited to 29 ppm_{dv} or 75% removal efficiency (by weight or volume), corrected to 7% O₂, whichever is less stringent, as determined by a 24-hour daily geometric average. The SO₂ emission rate from this source shall not exceed 16.65 lb/hr, as determined by a 24-hour rolling average. 	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(1)(i)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(b)(3)(i)</p>

129.4 MMBtu/hr Refuse Fire Boiler #1

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Section 2 – Emission Standards (cont.)	
<p>3. The nitrogen oxide (NO_x) emissions from this source shall be limited to 205 ppm_{dv}, corrected to 7% O₂, as determined by a 24-hour daily arithmetic average. The NO_x emission rate from this source shall not exceed 59.2 lb/hr, as determined by a 30-day rolling average generated by a continuous emission monitoring system (CEMS), which meets the specifications in 40 CFR Part 60, Appendix B.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(d)</p>
<p>4. The carbon monoxide (CO) emissions from this source shall be limited to 50 ppm_{dv}, corrected to 7% O₂, as determined by a 4-hour rolling average. The CO emission rate from this source shall not exceed 7.6 lb/hr, except as provided for periods of startup and shutdown.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.34b(a)</p>
<p>5. The mercury emissions from this source shall be limited to 50 micrograms per dry standard cubic meter or 85% removal efficiency (by weight), corrected to 7% O₂, whichever is less stringent.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(3)</p>
<p>6. The beryllium emissions from this source shall be limited to 7.53×10^{-4} lb/hr.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>7. The hydrogen chloride emissions from this source shall be limited to 29 ppm_{dv} or 95% removal efficiency (by weight or volume), corrected to 7% O₂, whichever is less stringent.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(b)(3)(ii)</p>
<p>8. The visible emissions from this source shall be less than 5% opacity when medical waste is charged to the unit, including the 1-hour period after discontinuing charging of medical waste. At all other times, visible emissions from this source shall not exceed 10% opacity, as determined by a 6-minute average.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(1)(iii)</p>
<p>9. The cadmium emissions from this source shall be limited to 35 micrograms per dry standard cubic meter, corrected to 7% O₂.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(2)(i)</p>
<p>10. The lead emissions from this source shall be limited to 400 micrograms per dry standard cubic meter, corrected to 7% O₂.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(4)</p>

129.4 MMBtu/hr Refuse Fire Boiler #1

Federally Enforceable Provisos	Regulations
<p>Section 2 – Emission Standards (cont.)</p> <p>11. The dioxin/furan (PCDD/PCDF) emissions from this source shall not exceed 30 nanograms per dry standard cubic meter (total mass), corrected to 7% O₂.</p> <p>12. The visible emissions of combustion ash from the ash handling system shall not exceed 5% of observation time (9 minutes per 3 hours).</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(c)(1)(iii)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.36b</p>
<p>13. During startup, the auxiliary burner shall be in service at 100% of the burner heat input for at least one hour prior to opening the feed chute.</p> <p>14. During scheduled shutdown, the auxiliary burner shall be in service at 100% of the burner heat input until the combustion process on the grate is completed.</p> <p>15. Only non-hazardous solid wastes, tires, wastewater treatment plant sludge, medical waste, and landfill gas shall be accepted at the site without prior approval of the ADEM Director (Director). Only representatives approved by the Solid Waste Disposal Authority (Authority) shall deliver wastes to the tipping hall/refuse bunker. The Authority shall be responsible for ensuring that hazardous wastes are not processed at the plant site.</p> <p>16. Only liquid wastes which are part of normal household waste, normal municipal waste, such as containerized liquids, internally generated wastewater as described in a letter dated May 30, 2007, from Covanta Energy, and liquid waste approved per the permit application dated January 2019 to be utilized in the liquid direct injection system shall be charged to the incinerator or processed on plant property without prior written approval by the Director.</p> <p>17. The medical waste shall be unloaded from the transport onto a dedicated conveyor(s), which feeds the boiler. There shall be no onsite storage of medical waste.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>

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Federally Enforceable Provisos	Regulations
<p>Section 2 – Emission Standards (cont.)</p> <p>18. The municipal waste combustion (MWC) unit shall not operate at a load level greater than 110% of the maximum demonstrated MWC unit load, except as specified by the following:</p> <p style="padding-left: 40px;">(a) During the annual dioxin/furan or mercury performance test and the two weeks preceding the annual dioxin/furan or mercury performance test, no municipal waste combustor (MWC) load limit is applicable if the following provision is met.</p> <p style="padding-left: 80px;">(i) The municipal waste combustion (MWC) unit load limit may be waived in writing by the Director for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The MWC unit load limit continues to apply, and remains enforceable, until and unless the Director grants the waiver.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.53b(b)</p>
<p>19. The flue gas temperature at the inlet of the baghouse shall not exceed 30°F above the maximum demonstrated baghouse inlet temperature except as specified by the following:</p> <p style="padding-left: 40px;">(a) During the annual dioxin/furan or mercury performance test and the two weeks preceding the annual dioxin/furan or mercury performance test, no baghouse temperature limitations are applicable if the following provision is met.</p> <p style="padding-left: 80px;">(i) The baghouse inlet temperature limits may be waived in writing by the Director for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The temperature limits continue to apply, and remains enforceable, until and unless the Director grants the waiver.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.53b(c)</p>

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures</p> <ol style="list-style-type: none"> 1. Compliance with the particulate matter (PM) emission standards shall be determined by EPA Reference Method 5 in Appendix A of 40 CFR Part 60. 2. Compliance with the sulfur dioxide (SO₂) emission standards shall be determined by EPA Reference Method 6, 6A, or 6C and EPA Reference Method 19 in Appendix A of 40 CFR Part 60. 	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>
<ol style="list-style-type: none"> 3. Compliance with the nitrogen oxide (NO_x) emission standards shall be determined by EPA Reference Method 7, 7A, 7C, 7D, or 7E and EPA Reference Method 19 in Appendix A of 40 CFR Part 60. 4. Compliance with the carbon monoxide (CO) emission standards shall be determined by EPA Reference Method 10, 10A, or 10B in Appendix A of 40 CFR Part 60. 5. Compliance with the mercury emission standards shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 6. Compliance with the beryllium emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 7. Compliance with the hydrogen chloride emission standards shall be determined by EPA Reference Method 26 or 26A in Appendix A of 40 CFR Part 60. 8. Compliance with the opacity standards shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR Part 60. 9. Compliance with the cadmium emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 10. Compliance with the lead emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>11. Compliance with the dioxin/furan (PCDD/PCDF) emissions shall be determined by EPA Reference Method 23 in Appendix A of 40 CFR Part 60.</p> <p>12. Compliance with the fugitive ash emissions shall be determined by EPA Reference Method 22 in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>
<p>13. Emission tests are to be conducted for particulates, hydrocarbons, opacity, mercury, lead, cadmium, fugitive ash, and hydrogen chloride at least once per calendar year, but no less than 9 months and no more than 15 months following the date of the most recent compliance test. The procedures and test methods shall be those specified in §60.58b.</p> <p>14. Emission tests are to be conducted for dioxins/furans (PCDDs/PCDFs) on alternate units at least once per calendar year, but no less than 9 months and no more than 15 months following the date of the most recent compliance test if the emissions for each affected unit is less than or equal to 15 nanograms per dry standard cubic meter, corrected to 7% O₂, for at least two years. If the emissions exceed 15 nanograms per dry standard cubic meter, corrected to 7% O₂, then testing shall be performed on all affected units at least once per calendar year until such time that emission tests over a 2-year period indicate that dioxin/furan emissions are less than or equal to 15 nanograms per dry standard cubic meter, corrected to 7% O₂.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.58b</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.58b(g)</p>

129.4 MMBtu/hr Refuse Fire Boiler #1

Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>15. The maximum demonstrated municipal waste combustion (MWC) unit load shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limits specified in this permit is achieved. The maximum demonstrated MWC unit load (steam flow rate) shall be the highest 4-hour arithmetic average load</p>	<p>40 CFR 60.58b(b)</p> <p>40 CFR 60.58b(g)(5)(iii)</p> <p>40 CFR 60.58b(i)(8)</p>
<p>achieved during four consecutive hours during the most recent test on this unit during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in §60.58b(g)(iii), the owner operator may elect to apply the same maximum MWC unit load from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p> <p>16. The maximum demonstrated particulate matter (PM) control device temperature shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limits specified in this permit is achieved. The maximum demonstrated PM control device temperature shall be the highest 4-hour arithmetic average temperature achieved during four consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the municipal waste combustion (MWC) plant, as provided in paragraph §60.58b(g)(iii), the owner operator may elect to apply the same maximum MWC unit load from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p> <p>17. The continuous emission monitoring system's (CEMS) data acquisition unit shall automatically identify all 6-minute opacity data when medical waste is being fired, as defined by the period beginning when the medical waste conveying system commences operation and ending one hour after the conveying system's power is turned off.</p>	<p>40 CFR 60.33b(c)</p> <p>40 CFR 60.58b(g)(5)(iii)</p> <p>40 CFR 60.58b(i)(8)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p>

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>18. The facility shall develop and update on a yearly basis a site-specific operating manual that at a minimum addresses the elements contained in §60.54b(e). The manual and records of training shall be kept in a readily accessible location for all persons required to undergo training. The manual and record of training shall be available for inspection upon request.</p>	<p>40 CFR 60.54b(e)</p>
<p>19. The facility shall establish a training program to review annually the operating manual with each person who has responsibilities affecting the operation of the facility including but not limited to chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel and crane/load handlers. Each person specified shall undergo the initial training no later than the day the person assumes responsibilities affecting the material waste combustion (MWC) unit operation.</p> <p>20. The chief facility operators and the shift supervisors shall have completed full certification or shall have scheduled a full certification exam with the American Society of Mechanical Engineers (QRO-1-1994) within one year of USEPA approval of the State MWC Plan. All chief facility operators, shift supervisors, and control room operators must complete the EPA municipal waste combustor (MWC) operator training course within one year of USEPA approval of the State MWC Plan. The MWC units shall not be operated at any time unless one of the following persons is on duty and at the facility:</p> <ul style="list-style-type: none"> (a) A fully certified Chief Facility Operator, or (b) A provisionally certified Chief Facility Operator who is scheduled to take the full certification exam, or (c) A fully certified Shift Supervisor, or (d) A provisionally certified Shift Supervisor who is scheduled to take the full certification exam. 	<p>40 CFR 60.54b(f)</p> <p>40 CFR 60.54b(b) & (c)</p>

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>If both the certified chief facility operator and certified shift supervisor are unavailable, a provisionally certified control room operator on site at the municipal waste combustion unit may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, the owner or operator of the affected facility must meet one of three criteria.</p>	<p>40 CFR 60.54b(b) & (c)</p>
<p>(i) When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor.</p> <p>(ii) When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is onsite, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off site and include that information in the annual report as specified under §60.59b(g)(5).</p> <p>(iii) When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Administrator. However, the owner or operator of the affected facility must take two actions:</p>	

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>(A) Notify the Administrator in writing. In the notice, state what caused the absence and what actions are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.</p>	<p>40 CFR 60.54b(b) & (c)</p>
<p>(B) Submit a status report and corrective action summary to the Administrator every four weeks following the initial notification. If the Administrator provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Administrator withdraws the disapproval, municipal waste combustion unit operation may continue.</p>	
<p>A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator for up to six months before taking the American Society of Mechanical Engineers (ASME) QRO certification exam.</p>	

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Federally Enforceable Provisos	Regulations
<p>Section 4 – Emission Monitoring</p> <p>1. Continuous monitors with recorders shall be installed, calibrated, maintained, and operated subject to the approval of the department for the following:</p> <p>(a) Carbon Monoxide (CO): For the purpose of CO emission monitoring, the following definitions shall apply. Startup shall be defined as commencing when the refuse boiler feed chute is opened and the continuous burning of municipal solid waste (MSW) begins. Shutdown shall be defined as beginning 60 minutes after the feed chute is closed (MSW feed is stopped). Periods of startup or shutdown shall not exceed 3 hours duration.</p>	<p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p>
<p>(b) Oxygen (O₂): During a loss of boiler water level control or loss of combustion air control malfunction period as specified in §60.58b(a)(1)(iii), a diluent cap of 14% for O₂ or 5% for CO₂ may be used in the emissions calculations for SO₂ and NO_x.</p> <p>(c) Sulfur Dioxide (SO₂): One monitor shall be located upstream of the scrubber and one monitor shall be located downstream of the baghouse. For sources that have actual inlet emissions less than 100 ppmv (dry basis), the relative accuracy criterion for inlet SO₂ continuous emission monitoring systems should be no greater than 20% of the mean value of the reference method test data in terms of the units of the emission standard, or 5 ppmv (dry basis) absolute value of the mean difference between the reference method and the continuous emission monitoring systems (CEMS), whichever is greater.</p> <p>(d) Opacity</p> <p>(e) Nitrogen Oxide (NO_x)</p> <p>(f) Inlet gas temperature for the baghouse</p>	<p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b(b)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b(h)(12)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b</p>

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Federally Enforceable Provisos	Regulations
Section 4 – Emission Monitoring (cont.)	
<p>(g) Carbon Injection Rate (8-hour block average): An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for dioxin/furan emissions and each subsequent performance test for dioxin/furan emissions. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the municipal waste combustion (MWC) plant, as provided in §60.58b(g)(5)(iii), the owner or operator may elect to apply the same estimated average carbon mass feed rate from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p>	<p>40 CFR 60.58b(g)(5)(iii)</p>
<p>(h) Load (steam flow rate)</p>	<p>40 CFR 60.58b</p>
<p>2. The continuous opacity monitoring system's (COMS) data acquisition unit shall automatically identify all 6-minute opacity data when medical waste is being fired, as defined by the period beginning when the medical waste conveying system commences operation and ending one hour after the conveying system's power is turned off.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. At a minimum, valid continuous emission monitoring system (CEMS) hourly averages for all other constituents shall be obtained for at least 90% of the operating hours per calendar quarter and 95% of the operating hours per calendar year. During periods of startup or shutdown, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of §60.59b(d)(7).</p>	<p>40 CFR 60.58b(a) & 40 CFR 60.59b(d)(7)</p>

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Federally Enforceable Provisos	Regulations
Section 5 – Recordkeeping and Reporting Requirements	
<p>1. Test reports for all emission testing required above shall be submitted to the Department within 45 days of the completion of testing unless an extension of time is specifically approved by the Air Division.</p>	<p>ADEM Admin Code r. 335-3-1-.04</p>
<p>2. Records shall be maintained of the occurrence and duration of any startup, shutdown, and malfunction of the facility; any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring device is inoperative. Records shall be maintained of all measurements, including carbon mass feed rate, inlet flue gas temperature of baghouse, annual capacity factor for natural gas and fuel oil, continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; records of names persons certified by the appropriate certification program, completing operator training, review of operating manuals and any other information as may be required by the Department or by §60.59b. Records shall be recorded in a permanent form suitable for inspection and retained in a file for at least five years following the date of such measurement, maintenance, reports, and records.</p>	<p>40 CFR 60.59b</p>
<p>3. An annual report shall be submitted semiannually on or before February 1st and August 1st of each year for data collected the previous year. The data submitted shall include a summary of data collected for all pollutants and parameters regulated in this permit as follows:</p> <ul style="list-style-type: none"> (a) A list of the emission levels achieved for particulate matter (PM), opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash achieved during the performance tests. (b) A list of the highest emission level recorded for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature. (c) The highest opacity level recorded. 	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p>

129.4 MMBtu/hr Refuse Fire Boiler #1

Federally Enforceable Provisos	Regulations
<p>Section 5 – Recordkeeping and Reporting Requirements (cont.)</p> <p>(d) The total number of hours per calendar quarter and hours per calendar year that valid data was not collected for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature.</p> <p>(e) The total number of hours that data were excluded</p>	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p>
<p>from calculation of the average emission concentrations for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature.</p> <p>(f) Documentation of periods when all certified chief facility operators and certified shift supervisors are off site more than 12 hours.</p> <p>The report shall be submitted in accordance with all requirements of §60.59b(g).</p>	
<p>4. Semiannual reports of the emission monitoring required in this permit shall be submitted. The reports shall include exceedances, operating time, monitor downtime, and emission limits as well as any requirements of §60.59b(h). Reports shall be submitted within thirty (30) days of the end of the six-month period for which the data is taken.</p>	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p>
<p>5. Records of natural gas and fuel oil utilization in this boiler shall be maintained and available for inspection upon request.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p>
<p>6. The facility shall maintain a copy of the waste approval and review procedures plan concerning the processing of liquid wastes in the liquid direct injection system on site and readily available for review at all times. Any changes to the plan must be submitted to the Department for review and approval prior to implementing these changes.</p>	<p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p>

Operating Permit Summary No. 2 (129.4 MMBtu/hr Refuse Fired Boiler #2)

Emission Unit(s): 002
Description: 129.4 MMBtu/hr Municipal Solid Waste Combustion Unit
Operating Schedule: 8760 hours/year

This unit is subject to the following NSPSs, NESHAPs, or MACTs:

40 CFR Part 60, Subpart Cb

Pollutants Emitted:

Emission Point #	Point Description	Pollutant	Emission Limit(s)	Standard(s)
002	Boiler Stack	PM	25 milligrams per dry standard cubic meter @ 7% O ₂ , not to exceed 4.5 lb/hr	Rule 335-3-14-.04
				40 CFR 60.33b(a)(1)(i)
		SO ₂	29 ppmdv @ 7% O ₂ (dry basis) or 75% DRE (by weight or volume) @ 7% O ₂ , whichever is less stringent (determined by a 24-hour daily geometric average), not to exceed 16.65 lb/hr (determined by a 24-hour rolling average)	Rule 335-3-14-.04
				40 CFR 60.33b(b)(3)(i)
		NO _x	205 ppmdv @ 7% O ₂ (determined by a 24-hour daily arithmetic average), not to exceed 59.2 lb/hr (determined by a 30-day rolling average generated by a continuous emission monitor which meets the specifications in 40 CFR Part 60, Appendix B)	Rule 335-3-14-.04
				40 CFR 60.33b(d)
		CO	50 ppmdv @ 7% O ₂ (determined by a 4-hour rolling average) not to exceed 7.6 lb/hr, except as provided for periods of startup and shutdown	Rule 335-3-14-.04
				40 CFR 60.34b(a)
		Mercury	50 micrograms per dry standard cubic meter @ 7% O ₂ or 85% DRE (by weight) @ 7% O ₂ , whichever is less stringent	Rule 335-3-14-.04
				40 CFR 60.33b(a)(3)
		Beryllium	7.53 x 10 ⁻⁴ lb/hr	Rule 335-3-14-.04
		Hydrogen Chloride	29 ppmdv @ 7% O ₂ or 95% DRE (by weight or volume) @ 7% O ₂ , whichever is less stringent	Rule 335-3-14-.04
				40 CFR 60.33b(b)(3)(ii)

		Visible Emissions	< 5% opacity when medical waste is charged to the unit (includes the 1-hour period after discontinuing charging of medical waste). At all other times, visible emissions shall not exceed 10% opacity (determined by a 6-minute average).	Rule 335-3-14-.04
				40 CFR 60.33b(a)(1)(iii)
		Cadmium	35 micrograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(a)(2)(i)
		Lead	400 micrograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(a)(4)
		Dioxins/ Furans	30 nanograms per dry standard cubic meter @ 7% O ₂	Rule 335-3-14-.04
				40 CFR 60.33b(c)(1)(iii)
		Fugitive Ash	Visible emissions of combustion ash from the ash handling system shall not exceed 5% of observation time (9 minutes per 3 hours).	Rule 335-3-14-.04
				40 CFR 60.36b

129.4 MMBtu/hr Refuse Fired Boiler #2

Federally Enforceable Provisos	Regulations
<p>Section 1 – Applicability</p> <ol style="list-style-type: none"> 1. This source is subject to the applicable requirements of ADEM Admin. Code r. 335-3-16, “Major Source Operating Permits.” 2. This source is subject to Prevention of Significant Deterioration (PSD) emission limitations for particulate matter (PM), sulfur dioxide (SO₂), nitrogen oxide (NO_x), carbon monoxide (CO), mercury, and beryllium. 	<p>ADEM Admin. Code r. 335-3-16</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<ol style="list-style-type: none"> 3. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 60, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart Cb. 4. This source is subject to 40 CFR Part 60, Subpart Cb – Emission Guidelines and Compliance Times for Large Municipal Waste Combustors That Are Constructed on or Before September 20, 1994. 5. This source is subject to the requirements of the General Provisions as indicated in 40 CFR Part 61, Subpart A, unless otherwise stated in 40 CFR Part 60, Subpart E. 6. This source is subject to 40 CFR Part 61, Subpart E – National Emission Standard for Mercury – when burning wastewater treatment plant sludge. 	<p>ADEM Admin. Code r. 335-3-10-.02(1)</p> <p>ADEM Admin. Code r. 335-3-16</p> <p>ADEM Admin. Code r. 335-3-11-.02(1)</p> <p>ADEM Admin. Code r. 335-3-11-.02(4)</p>
<p>Section 2 - Emission Standards</p> <ol style="list-style-type: none"> 1. The particulate matter (PM) emissions from this source shall be limited to 25 milligrams per dry standard cubic meter, corrected to 7% O₂, not to exceed 4.5 lb/hr. 2. The sulfur dioxide (SO₂) emissions from this source shall be limited to 29 ppm_{dv} or 75% removal efficiency (by weight or volume), corrected to 7% O₂, whichever is less stringent, as determined by a 24-hour daily geometric average. The SO₂ emission rate from this source shall not exceed 16.65 lb/hr, as determined by a 24-hour rolling average. 	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(1)(i)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(b)(3)(i)</p>

129.4 MMBtu/hr Refuse Fire Boiler #2

Federally Enforceable Provisos	Regulations
<p>Section 2 – Emission Standards (cont.)</p> <p>3. The nitrogen oxide (NO_x) emissions from this source shall be limited to 205 ppm_{dv}, corrected to 7% O₂, as determined by a 24-hour daily arithmetic average. The NO_x emission rate from this source shall not exceed 59.2 lb/hr, as determined by a 30-day rolling average generated by a continuous emission monitoring system (CEMS), which meets the specifications in 40 CFR Part 60, Appendix B.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(d)</p>
<p>4. The carbon monoxide (CO) emissions from this source shall be limited to 50 ppm_{dv}, corrected to 7% O₂, as determined by a 4-hour rolling average. The CO emission rate from this source shall not exceed 7.6 lb/hr, except as provided for periods of startup and shutdown.</p> <p>5. The mercury emissions from this source shall be limited to 50 micrograms per dry standard cubic meter or 85% removal efficiency (by weight), corrected to 7% O₂, whichever is less stringent.</p> <p>6. The beryllium emissions from this source shall be limited to 7.53×10^{-4} lb/hr.</p> <p>7. The hydrogen chloride emissions from this source shall be limited to 29 ppm_{dv} or 95% removal efficiency (by weight or volume), corrected to 7% O₂, whichever is less stringent.</p> <p>8. The visible emissions from this source shall be less than 5% opacity when medical waste is charged to the unit, including the 1-hour period after discontinuing charging of medical waste. At all other times, visible emissions from this source shall not exceed 10% opacity, as determined by a 6-minute average.</p> <p>9. The cadmium emissions from this source shall be limited to 35 micrograms per dry standard cubic meter, corrected to 7% O₂.</p> <p>10. The lead emissions from this source shall be limited to 400 micrograms per dry standard cubic meter, corrected to 7% O₂.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.34b(a)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(3)</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(b)(3)(ii)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(1)(iii)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(2)(i)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(a)(4)</p>

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<p>Section 2 – Emission Standards (cont.)</p> <p>11. The dioxin/furan (PCDD/PCDF) emissions from this source shall not exceed 30 nanograms per dry standard cubic meter (total mass), corrected to 7% O₂.</p> <p>12. The visible emissions of combustion ash from the ash handling system shall not exceed 5% of observation time (9 minutes per 3 hours).</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.33b(c)(1)(iii)</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.36b</p>
<p>13. During startup, the auxiliary burner shall be in service at 100% of the burner heat input for at least one hour prior to opening the feed chute.</p> <p>14. During scheduled shutdown, the auxiliary burner shall be in service at 100% of the burner heat input until the combustion process on the grate is completed.</p> <p>15. Only non-hazardous solid wastes, tires, wastewater treatment plant sludge, medical waste, and landfill gas shall be accepted at the site without prior approval of the ADEM Director (Director). Only representatives approved by the Solid Waste Disposal Authority (Authority) shall deliver wastes to the tipping hall/refuse bunker. The Authority shall be responsible for ensuring that hazardous wastes are not processed at the plant site.</p> <p>16. Only liquid wastes which are part of normal household waste, normal municipal waste, such as containerized liquids, internally generated wastewater as described in a letter dated May 30, 2007, from Covanta Energy, and liquid waste approved per the permit application dated January 2019 to be utilized in the liquid direct injection system shall be charged to the incinerator or processed on plant property without prior written approval by the Director.</p> <p>17. The medical waste shall be unloaded from the transport onto a dedicated conveyor(s), which feeds the boiler. There shall be no onsite storage of medical waste.</p>	<p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>

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<p>Section 2 – Emission Standards (cont.)</p> <p>18. The municipal waste combustion (MWC) unit shall not operate at a load level greater than 110% of the maximum demonstrated MWC unit load, except as specified by the following:</p> <p style="padding-left: 40px;">(a) During the annual dioxin/furan or mercury performance test and the two weeks preceding the annual dioxin/furan or mercury performance test, no municipal waste combustor (MWC) load limit is applicable if the following provision is met.</p> <p style="padding-left: 80px;">(i) The municipal waste combustion (MWC) unit load limit may be waived in writing by the Director for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The MWC unit load limit continues to apply, and remains enforceable, until and unless the Director grants the waiver.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.53b(b)</p>
<p>19. The flue gas temperature at the inlet of the baghouse shall not exceed 30°F above the maximum demonstrated baghouse inlet temperature except as specified by the following:</p> <p style="padding-left: 40px;">(a) During the annual dioxin/furan or mercury performance test and the two weeks preceding the annual dioxin/furan or mercury performance test, no baghouse temperature limitations are applicable if the following provision is met.</p> <p style="padding-left: 80px;">(i) The baghouse inlet temperature limits may be waived in writing by the Director for the purpose of evaluating system performance, testing new technology or control technologies, diagnostic testing, or related activities for the purpose of improving facility performance or advancing the state-of-the-art for controlling facility emissions. The temperature limits continue to apply, and remains enforceable, until and unless the Director grants the waiver.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.53b(c)</p>

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures</p> <ol style="list-style-type: none"> 1. Compliance with the particulate matter (PM) emission standards shall be determined by EPA Reference Method 5 in Appendix A of 40 CFR Part 60. 2. Compliance with the sulfur dioxide (SO₂) emission standards shall be determined by EPA Reference Method 6, 6A, or 6C and EPA Reference Method 19 in Appendix A of 40 CFR Part 60. 	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>
<ol style="list-style-type: none"> 3. Compliance with the nitrogen oxide (NO_x) emission standards shall be determined by EPA Reference Method 7, 7A, 7C, 7D, or 7E and EPA Reference Method 19 in Appendix A of 40 CFR Part 60. 4. Compliance with the carbon monoxide (CO) emission standards shall be determined by EPA Reference Method 10, 10A, or 10B in Appendix A of 40 CFR Part 60. 5. Compliance with the mercury emission standards shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 6. Compliance with the beryllium emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 7. Compliance with the hydrogen chloride emission standards shall be determined by EPA Reference Method 26 or 26A in Appendix A of 40 CFR Part 60. 8. Compliance with the opacity standards shall be determined by EPA Reference Method 9 in Appendix A of 40 CFR Part 60. 9. Compliance with the cadmium emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 10. Compliance with the lead emission standard shall be determined by EPA Reference Method 29 in Appendix A of 40 CFR Part 60. 	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>

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<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>11. Compliance with the dioxin/furan (PCDD/PCDF) emissions shall be determined by EPA Reference Method 23 in Appendix A of 40 CFR Part 60.</p> <p>12. Compliance with the fugitive ash emissions shall be determined by EPA Reference Method 22 in Appendix A of 40 CFR Part 60.</p>	<p>ADEM Admin. Code r. 335-3-10-.03(1)</p> <p>ADEM Admin. Code r. 335-3-10-.03(1)</p>
<p>13. Emission tests are to be conducted for particulates, hydrocarbons, opacity, mercury, lead, cadmium, fugitive ash, and hydrogen chloride at least once per calendar year, but no less than 9 months and no more than 15 months following the date of the most recent compliance test. The procedures and test methods shall be those specified in §60.58b.</p> <p>14. Emission tests are to be conducted for dioxins/furans (PCDDs/PCDFs) on alternate units at least once per calendar year, but no less than 9 months and no more than 15 months following the date of the most recent compliance test if the emissions for each affected unit is less than or equal to 15 nanograms per dry standard cubic meter, corrected to 7% O₂, for at least two years. If the emissions exceed 15 nanograms per dry standard cubic meter, corrected to 7% O₂, then testing shall be performed on all affected units at least once per calendar year until such time that emission tests over a 2-year period indicate that dioxin/furan emissions are less than or equal to 15 nanograms per dry standard cubic meter, corrected to 7% O₂.</p>	<p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.58b</p> <p>ADEM Admin. Code r. 335-3-14-.04 & 40 CFR 60.58b(g)</p>

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<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>15. The maximum demonstrated municipal waste combustion (MWC) unit load shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limits specified in this permit is achieved. The maximum demonstrated MWC unit load (steam flow rate) shall be the highest 4-hour arithmetic average load</p>	<p>40 CFR 60.58b(b)</p> <p>40 CFR 60.58b(g)(5)(iii)</p> <p>40 CFR 60.58b(i)(8)</p>
<p>achieved during four consecutive hours during the most recent test on this unit during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the MWC plant, as provided in §60.58b(g)(iii), the owner operator may elect to apply the same maximum MWC unit load from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p> <p>16. The maximum demonstrated particulate matter (PM) control device temperature shall be determined during the initial performance test for dioxins/furans and each subsequent performance test during which compliance with the dioxin/furan emission limits specified in this permit is achieved. The maximum demonstrated PM control device temperature shall be the highest 4-hour arithmetic average temperature achieved during four consecutive hours during the most recent test during which compliance with the dioxin/furan emission limit was achieved. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the municipal waste combustion (MWC) plant, as provided in paragraph §60.58b(g)(iii), the owner operator may elect to apply the same maximum MWC unit load from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p> <p>17. The continuous emission monitoring system's (CEMS) data acquisition unit shall automatically identify all 6-minute opacity data when medical waste is being fired, as defined by the period beginning when the medical waste conveying system commences operation and ending one hour after the conveying system's power is turned off.</p>	<p>40 CFR 60.33b(c)</p> <p>40 CFR 60.58b(g)(5)(iii)</p> <p>40 CFR 60.58b(i)(8)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p>

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Federally Enforceable Provisos	Regulations
Section 3 - Compliance and Performance Test Methods and Procedures (cont.)	
18. The facility shall develop and update on a yearly basis a site-specific operating manual that at a minimum addresses the elements contained in §60.54b(e). The manual and records of training shall be kept in a readily accessible location for all persons required to undergo training. The manual and record of training shall be available for inspection upon request.	40 CFR 60.54b(e)
19. The facility shall establish a training program to review annually the operating manual with each person who has responsibilities affecting the operation of the facility including but not limited to chief facility operators, shift supervisors, control room operators, ash handlers, maintenance personnel and crane/load handlers. Each person specified shall undergo the initial training no later than the day the person assumes responsibilities affecting the material waste combustion (MWC) unit operation.	40 CFR 60.54b(f)
20. The chief facility operators and the shift supervisors shall have completed full certification or shall have scheduled a full certification exam with the American Society of Mechanical Engineers (QRO-1-1994) within one year of USEPA approval of the State MWC Plan. All chief facility operators, shift supervisors, and control room operators must complete the EPA municipal waste combustor (MWC) operator training course within one year of USEPA approval of the State MWC Plan. The MWC units shall not be operated at any time unless one of the following persons is on duty and at the facility:	40 CFR 60.54b(b) & (c)
<p>(a) A fully certified Chief Facility Operator, or</p> <p>(b) A provisionally certified Chief Facility Operator who is scheduled to take the full certification exam, or</p> <p>(c) A fully certified Shift Supervisor, or</p> <p>(d) A provisionally certified Shift Supervisor who is scheduled to take the full certification exam.</p>	

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<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>If both the certified chief facility operator and certified shift supervisor are unavailable, a provisionally certified control room operator on site at the municipal waste combustion unit may fulfill the certified operator requirement. Depending on the length of time that a certified chief facility operator and certified shift supervisor are away, the owner or operator of the affected facility must meet one of three criteria.</p>	<p>40 CFR 60.54b(b) & (c)</p>
<p>(i) When the certified chief facility operator and certified shift supervisor are both off site for 12 hours or less, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor.</p> <p>(ii) When the certified chief facility operator and certified shift supervisor are off site for more than 12 hours, but for two weeks or less, and no other certified operator is onsite, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator. However, the owner or operator of the affected facility must record the period when the certified chief facility operator and certified shift supervisor are off site and include that information in the annual report as specified under §60.59b(g)(5).</p> <p>(iii) When the certified chief facility operator and certified shift supervisor are off site for more than two weeks, and no other certified operator is on site, the provisionally certified control room operator may perform the duties of the certified chief facility operator or certified shift supervisor without approval by the Administrator. However, the owner or operator of the affected facility must take two actions:</p>	

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Federally Enforceable Provisos	Regulations
<p>Section 3 - Compliance and Performance Test Methods and Procedures (cont.)</p> <p>(A) Notify the Administrator in writing. In the notice, state what caused the absence and what actions are being taken by the owner or operator of the facility to ensure that a certified chief facility operator or certified shift supervisor is on site as expeditiously as practicable.</p>	<p>40 CFR 60.54b(b) & (c)</p>
<p>(B) Submit a status report and corrective action summary to the Administrator every four weeks following the initial notification. If the Administrator provides notice that the status report or corrective action summary is disapproved, the municipal waste combustion unit may continue operation for 90 days, but then must cease operation. If corrective actions are taken in the 90-day period such that the Administrator withdraws the disapproval, municipal waste combustion unit operation may continue.</p>	
<p>A provisionally certified operator who is newly promoted or recently transferred to a shift supervisor position or a chief facility operator position at the municipal waste combustion unit may perform the duties of the certified chief facility operator or certified shift supervisor without notice to, or approval by, the Administrator for up to six months before taking the American Society of Mechanical Engineers (ASME) QRO certification exam.</p>	

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<p>Section 4 – Emission Monitoring</p> <p>1. Continuous monitors with recorders shall be installed, calibrated, maintained, and operated subject to the approval of the department for the following:</p> <p>(a) Carbon Monoxide (CO): For the purpose of CO emission monitoring, the following definitions shall apply. Startup shall be defined as commencing when the refuse boiler feed chute is opened and the</p>	<p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p>
<p>continuous burning of municipal solid waste (MSW) begins. Shutdown shall be defined as beginning 60 minutes after the feed chute is closed (MSW feed is stopped). Periods of startup or shutdown shall not exceed 3 hours duration.</p> <p>(b) Oxygen (O₂): During a loss of boiler water level control or loss of combustion air control malfunction period as specified in §60.58b(a)(1)(iii), a diluent cap of 14% for O₂ or 5% for CO₂ may be used in the emissions calculations for SO₂ and NO_x.</p> <p>(c) Sulfur Dioxide (SO₂): One monitor shall be located upstream of the scrubber and one monitor shall be located downstream of the baghouse. For sources that have actual inlet emissions less than 100 ppmv (dry basis), the relative accuracy criterion for inlet SO₂ continuous emission monitoring systems should be no greater than 20% of the mean value of the reference method test data in terms of the units of the emission standard, or 5 ppmv (dry basis) absolute value of the mean difference between the reference method and the continuous emission monitoring systems (CEMS), whichever is greater.</p> <p>(d) Opacity</p> <p>(e) Nitrogen Oxide (NO_x)</p> <p>(f) Inlet gas temperature for the baghouse</p>	<p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b(b)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b(h)(12)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2)</p> <p>ADEM Admin. Code r. 335-3-10-.03(2) & (3)</p> <p>40 CFR 60.58b</p>

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Federally Enforceable Provisos	Regulations
<p>Section 4 – Emission Monitoring (cont.)</p> <p>(g) Carbon Injection Rate (8-hour block average): An average carbon mass feed rate in kilograms per hour or pounds per hour shall be estimated during the initial performance test for dioxin/furan emissions and each subsequent performance test for dioxin/furan emissions. If a subsequent dioxin/furan performance test is being performed on only one affected facility at the municipal waste combustion (MWC) plant, as provided in §60.58b(g)(5)(iii), the owner or operator may elect to apply the same estimated average carbon mass feed rate from the tested facility for all the similarly designed and operated affected facilities at the MWC plant.</p>	<p>40 CFR 60.58b(g)(5)(iii)</p>
<p>(h) Load (steam flow rate)</p> <p>2. The continuous opacity monitoring system's (COMS) data acquisition unit shall automatically identify all 6-minute opacity data when medical waste is being fired, as defined by the period beginning when the medical waste conveying system commences operation and ending one hour after the conveying system's power is turned off.</p>	<p>40 CFR 60.58b</p> <p>ADEM Admin. Code r. 335-3-14-.04</p>
<p>3. At a minimum, valid continuous emission monitoring system (CEMS) hourly averages for all other constituents shall be obtained for at least 90% of the operating hours per calendar quarter and 95% of the operating hours per calendar year. During periods of startup or shutdown, monitoring data shall be dismissed or excluded from compliance calculations, but shall be recorded and reported in accordance with the provisions of §60.59b(d)(7).</p>	<p>40 CFR 60.58b(a) & 40 CFR 60.59b(d)(7)</p>

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<p>Section 5 – Recordkeeping and Reporting Requirements</p> <ol style="list-style-type: none"> 1. Test reports for all emission testing required above shall be submitted to the Department within 45 days of the completion of testing unless an extension of time is specifically approved by the Air Division. 2. Records shall be maintained of the occurrence and duration of any startup, shutdown, and malfunction of the facility; any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring device is inoperative. Records shall be maintained of all measurements, including carbon mass feed rate, inlet flue gas temperature of baghouse, annual capacity factor for natural gas and fuel oil, continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; records of names persons certified by the appropriate certification program, completing operator training, review of operating manuals and any other information as may be required by the Department or by §60.59b. Records shall be recorded in a permanent form suitable for inspection and retained in a file for at least five years following the date of such measurement, maintenance, reports, and records. 	<p>ADEM Admin Code r. 335-3-1-.04</p> <p>40 CFR 60.59b</p>
<ol style="list-style-type: none"> 3. An annual report shall be submitted semiannually on or before February 1st and August 1st of each year for data collected the previous year. The data submitted shall include a summary of data collected for all pollutants and parameters regulated in this permit as follows: <ol style="list-style-type: none"> (a) A list of the emission levels achieved for particulate matter (PM), opacity, cadmium, lead, mercury, dioxins/furans, hydrogen chloride, and fugitive ash achieved during the performance tests. (b) A list of the highest emission level recorded for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature. (c) The highest opacity level recorded. 	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p>

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<p>Section 5 – Recordkeeping and Reporting Requirements (cont.)</p> <p>(d) The total number of hours per calendar quarter and hours per calendar year that valid data was not collected for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature.</p> <p>(e) The total number of hours that data were excluded from calculation of the average emission concentrations for sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), municipal waste combustion (MWC) unit load level, and particulate control device inlet temperature.</p> <p>(f) Documentation of periods when all certified chief facility operators and certified shift supervisors are off site more than 12 hours.</p> <p>The report shall be submitted in accordance with all requirements of §60.59b(g).</p>	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p>
<p>4. Semiannual reports of the emission monitoring required in this permit shall be submitted. The reports shall include exceedances, operating time, monitor downtime, and emission limits as well as any requirements of §60.59b(h). Reports shall be submitted within thirty (30) days of the end of the six-month period for which the data is taken.</p> <p>5. Records of natural gas and fuel oil utilization in this boiler shall be maintained and available for inspection upon request.</p> <p>6. The facility shall maintain a copy of the waste approval and review procedures plan concerning the processing of liquid wastes in the liquid direct injection system on site and readily available for review at all times. Any changes to the plan must be submitted to the Department for review and approval prior to implementing these changes.</p>	<p>ADEM Admin Code r. 335-3-10-.02 & 40 CFR 60.59b(g)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p> <p>ADEM Admin Code r. 335-3-16-.05(c)(1)(ii)</p>